



# CONFERENCE PROGRAM AND PRESENTATION SCHEDULE PROGRAMME ET HORAIRES

Version du 01/10/2023

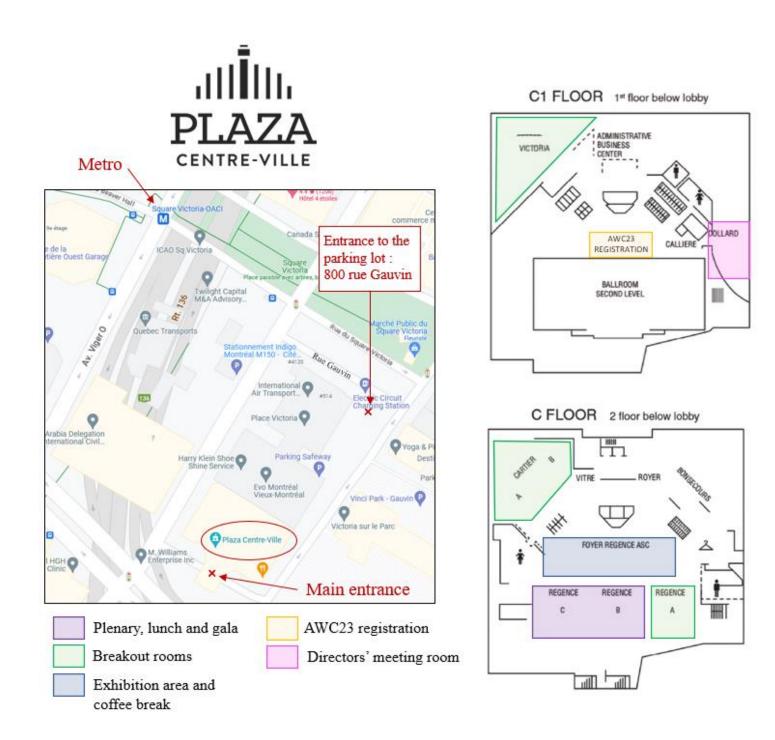
**Conference venue:** Plaza centre-ville: 777, boul. Robert-Bourassa, Montréal, QC, H3A 0B1

Conference website: <a href="https://awc.caa-aca.ca">https://awc.caa-aca.ca</a>

# CONFERENCE PROGRAM

DAY 1		Tuesday (		
15:00-18:30	CAA	Board of Directors (on invi		LARD
18:00-20:30	W-1D	Advanced R	~	VED DECENCE ADO
18:30-20:30	welcome Reception (t	ınlimited drinks between 18	:30 and 20:00); Room: FO	YER REGENCE ABC
DAY 2		Wednesday		
8:30-17:30		Exhibition / Trade show; I		
8:00-9:30	Continental Breakt	fast (coffee, tea, juices, crois		R REGENCE ABC
8:50-9:00		Welcome Note;		
9:00-10:00	•	e : Christian Giguère (U	**	
10:00-10:20		ee break - Supported by Dali	i e	!
Room	REGENCE A  Architectural and	VICTORIA	CARTIER A	CARTIER B
10:20-12:20	Building Acoustics	Hearing Protection	Speech and Hearing	Environmental Noise
12:20-13:20	2 and g 120 as a co	Lunch - REC	GENCE BC	:
13:20-15:00	Architectural and Building Acoustics	Hearing Protection	Speech and Hearing	Education in Acoustics
15:00-15:20		fee break - Supported by HE	K - FOYER REGENCE A	ABC
15:20-17:20	Architectural and	Hearing Protection	Speech and Hearing	Artificial Intelligence
17:20-18:00	Building Acoustics	General Acoustics	Speech and nearing	in Acoustics
18:15-20:00	Reception at EERS (or	en to all, on reservation onl	y) / Beer&Pizza (only for s	tudents and volunteers)
DAY 3		Thursday (	October 5	
8:30-17:00		Exhibition / Trade show; F		
8:00-9:30	Continental Breakf	ast (coffee, tea, juices, crois		R REGENCE ABC
8:50-9:00		Welcome Note;		
9:00-10:00	Keynote :	Noureddine Atalla (Uni	iv. of Sherbrooke); REC	GENCE BC
10:00-10:20	Coffee break - Supported by LogiSon - FOYER REGENCE ABC		ABC	
Room	REGENCE A	VICTORIA	CARTIER A	CARTIER B
10:20-12:00	Architectural and Building Acoustics	Hearing Protection	Speech and Hearing	Materials for noise and vibration control
12:00-13:00		Lunch - REC	GENCE BC	35.1.1.0.1.1
13:00-15:00	General Acoustics	Environmental Noise	Speech and Hearing	Materials for noise and vibration control
15:00-15:20		Coffee break - FOYE	ER REGENCE ABC	, vibration control
15:20-17:00	General Acoustics	Aeroacoustics	Biomedical Acoustics	Materials for noise and vibration control
17:15-18:15	CAA Ann	ual General Meeting (open t	o all CAA members) (REG	ENCE A)
18:15-19:00	Coktail ( F	OYER REGENCE ABC) +	PowerPoint Karaoke (REC	GENCE A)
19:00-21:30	(include	Gala Banquet - Su d to all delegates with the 3-	-day registration) (REGEN	CE BC)
21:30-22:30		Music Jam Sessi		
DAY 4		Friday O		
8:00-9:30	Continental Breakt	ast (coffee, tea, juices, crois		R REGENCE ABC
8:50-9:00 9:00-10:00	Voynot	Welcome Note ; te : Fabrice Marandola		JCE DC
10:00-10:00	·	fee break - Supported by EE		
Room	REGENCE A	VICTORIA	CARTIER A	CARTIER B
10:20-12:20	General Acoustics	Environmental Noise	Underwater Acoustics	Materials for noise and vibration control
12:30-13:00		Award Ceremony an	d Closing Remarks	
12:20-13:20		Lunch - REC	GENCE BC	
14:00-16:00		isit 1: Exclusive tour of CIR Visit 2: Exclusive tour IC. Exclusive visit of the Maison	AR (reservation required)	

## MAP OF THE CONFERENCE CENTER



Parking is easy there, as is access to public transportation and the Central Station.

Plaza centre-ville: 777, boul. Robert-Bourassa, Montréal, QC, H3A 0B1

Parking lot entrance: 800 rue Gauvin

Web site: <a href="https://plazapmg.com/plaza-centre-ville/">https://plazapmg.com/plaza-centre-ville/</a>

#### PLENARY SPEAKERS



Christian Giguère is Professor in Audiology and Speech-Language Pathology at the Faculty of Health Sciences at the University of Ottawa. He teaches courses in acoustics, speech science, instrumentation in audiology, and hearing aids. His research interests include speech communication, warning sound perception, hearing protection, and hearing loss prevention. He has authored over 150 journal articles, conference proceedings and book chapters. Professor Giguère is active in standards organisations and member of several national (CSA, ANSI) and international (ISO) technical workgroups on topics related to occupational hearing loss, hearing protection and audiology. He was president of the Canadian Acoustical Association (2007-2013), co-chair of the International Commission on the Biological Effects of Noise (2008-2014), and chair of the Technical Committee on Occupational hearing loss with the Canadian Standards Organisation (2016-2022). He is currently Associate Editor with The International Journal of Audiology and Member of the NHCA's Task Force on Auditory Situational Awareness. He is a Distinguished

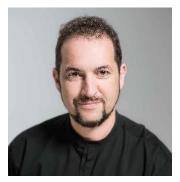
International Member of the Institute of Noise Control Engineering (INCE-USA).

The keynote presented by Christian Giguère is entitled: *Back-up alarms on heavy vehicles: We are moving forward!* Audible back-up alarms are installed on heavy trucks and mobile equipment to alert workers and pedestrians of safety risks during reverse operations. Prompt reaction to back-up alarms by individuals nearby reversing vehicles depends on many acoustical (e.g., sound propagation pattern behind the vehicle) and psychoacoustical (e.g., perceived urgency and ability to localize alarm, effect of hearing loss and hearing protection) factors that are not comprehensively addressed in applicable standards such as SAE J994 and ISO 9533. This presentation will summarize results from a series of four collaborative studies conducted by the University of Ottawa and the IRSST in Montreal in the past twelve years. The focus was in comparing the relative benefits of two types of devices, the widely used tonal alarm and the emerging broadband alarm.



Noureddine Atalla is a professor of Mechanical Engineering at Université de Sherbrooke. His core expertise is in computational vibro-acoustics and acoustic materials. He has authored over 200 papers in acoustics and vibration, encompassing a wide range of domains. His research includes the modeling of poroelastic and viscoelastic materials, the study of coupled fluid-structure problems, the investigation of the acoustic and dynamic response of sandwich and composite structures, as well as computational vibroacoustics. In addition to his scholarly articles, he has co-authored a book on the modeling of sound porous materials and another book on finite and boundary elements in structural acoustics and vibrations.

Over the last decade, the author's team has explored various topics related to the modeling, characterization, and development of lightweight structures and their added sound packages, with a special focus on aircraft and aerospace applications. This talk will present a review of part of this body of research. In particular, the talk will demonstrate the effectiveness of employing the transfer matrix method, along with its numerous extensions, for accurately predicting the vibroacoustic response of a wide array of lightweight structures and noise control materials. The predictive capability of the method will also be illustrated for various types of excitations and systems with structured elements judiciously placed within the structure or the materials.



Fabrice Marandola is an Associate Professor of Percussion and Contemporary Music at the Schulich School of Music of McGill University (Montreal). Previously, he was a professor of percussion at the conservatories of Angers and Grenoble in France, a pedagogy instructor at the Conservatory of Paris, and an invited professor at the Crane School of Music (SUNY-Potsdam, NY). A founding member of Canadian percussion ensemble Sixtrum, he has an active career on the New Music scene, commissioning, performing and recording new works for solo and chamber ensembles. His artistic activities have received numerous distinctions and awards from Conseil Québécois pour la Musique, Académie Charles-Cros and Montreal English Theatre Awards. Marandola holds a PhD in Ethnomusicology from Paris IV-Sorbonne and has conducted in-depth field research in Cameroon with the Langues-Musiques-Sociétés Laboratory (CNRS, France). He is currently the Director of the Centre for Interdisciplinary

Research in Music Media and Technology of Montreal (CIRMMT). As Senior Research Chair at Sorbonne-Universités (2015-16), Marandola led a multidisciplinary research project on Musical Gesture (Geste-Acoustique-Musique). Author of over 30 scientific papers, his current research focuses on the study of the conception, production and perception of instrumental gestures in percussion performance, using 3D Motion Capture and wearable eye-tracking systems.

The keynote presented by Fabrice Marandola is entitled: From cultural conception to expert performance. The organization of pitches and durations plays a very important role in the characterization of musical systems and may vary greatly from one culture to another. Since studies on music and sound often relate to models and examples based on the Western musical tradition, it is important to keep in mind that there are a significant variety of principles that rely on different modes of organization found across the globe: for example, not all musical systems rely on a fixed number and distribution of intervals within an octave, nor does an octave always play a structural role within a musical scale. Concrete examples taken from my field work in different cultures of Cameroon will illustrate several modes of organization of musical scales in instrumental and vocal music. While the parameters that define musical systems are implicitly or explicitly known by all members of a cultural group, individuals within these groups have their own ways to build mental representations of the music they are performing. Uncovering the layers that constitute these mental representations reveals fascinating differences between performers that share the same culture. It also brings to the forefront how expert musicians develop consummate control of their movements in time and space. Research based on motion capture and gestural analysis, as well as on experiments realized with performers playing with or without their instruments (air-playing) will illustrate how musicians develop a signature in their sound production gestures, while remaining within the parameters of their cultural musical system.

#### SCIENTIFIC AND SOCIAL EVENTS

#### Welcome reception:

The AWC 2023 Welcome Reception will take place on the evening of Tuesday, October 3. All participants are cordially invited to attend. It's an ideal opportunity to make contacts in a friendly atmosphere with other scientists, engineers and conference participants.

#### **Gala Dinner Event:**

The AWC organizing committee is planning a congress banquet after the technical sessions on Thursday, October 5. Attendance at the gala is free of charge for all participants (except those attending the individual days on Tuesday, Wednesday and Friday).

#### **Powerpoint Karaoke:**



Powerpoint Karaoke (also called Powerpoint Roulette or Battledecks) is an improv game where volunteers give a presentation from a slide deck they've never seen, taken randomly from various slide decks presented in AWC2023. The name "Powerpoint Karaoke" comes from combining "PowerPoint", the presentation software, and "karaoke," the popular singing performance game. It is a game that tests the presenter's improvisation skills, gets people laughing, and keeps everyone wondering what will happen next... Simply register for this event by selecting the appropriate option during your registration process. It will also be possible to register at the last minute at the registration desk. (Picture credits: https://www.unix-ag.uni-kl.de/~guenther/powerpoint-karaoke-logo.html)

#### **NoiseCapture Party:**

Join us during AWC23 as we embark on an exciting endeavor to map the sound environment in Montréal, not only around the conference venue but also beyond. Wondering how to accomplish this task efficiently and objectively? We have the perfect solution for you - the NoiseCapture application. This Android app, developed as part of the NoisePlanet project by CNRS and Université Gustave Eiffel, is free and open-source. With NoiseCapture, you can easily measure and share your sound environment data. To facilitate your participation, Professor Olivier Robin (an ambassador and user of NoiseCapture) along with Professor Olivier Doutres (a user of the app), have set up a dedicated booth. At the booth, we will assist you in calibrating your phone and provide all the essential information about the app. You can also explore



real-life examples of how NoiseCapture has been utilized in research and education. Our collective challenge during the conference is to surpass 1000 measurements, and we will provide daily updates on our progress. So, don't miss this opportunity to contribute to the sound mapping initiative and be part of an impactful project. See you at the booth! (Picture credits: <a href="https://www.uneoreilleavertie.com/quoi-de-neuf/noise-capture-party-et-hyperacousie">https://www.uneoreilleavertie.com/quoi-de-neuf/noise-capture-party-et-hyperacousie</a>).

#### **Visit 1: Exclusive tour of CIRMMT**



The Centre for Interdisciplinary Research in Music Media and Technology (CIRMMT pronounced "kermit") is housed at the Schulich School of Music at McGill University, just a couple blocks north of the AWC2023 venue. CIRMMT is a multidisciplinary research group that seeks to develop innovative approaches to the scientific study of music media and technology, to promote the application of newer technologies in science and the creative arts, and to provide an advanced research training environment. CIRMMT occupies a unique position on the international stage having developed

intense research partnerships with other academic and research institutions, as well as diverse industry partners throughout the world. Several volunteers of the AWC2023 local organising committee are regular members of CIRMMT and a special tour has been arranged to let AWC2023 delegates discover this unique center and visit its new Music Multimedia Room.

#### Visit 2: Exclusive tour ICAR

The ICAR laboratory (Infrastructure commune en acoustique pour la recherche ÉTS-IRSST) is housed at ÉTS (École de technologie supérieure), just a couple blocks away from the AWC2023 venue. ICAR is a training and research laboratory for industrial acoustics. Its creation results from the successful collaboration between ÉTS university and IRSST occupational health research institute. ICAR allows to test, improve and develop new products or processes that are more acoustically efficient: industrial machines, tools, transportation vehicles, household appliances, acoustic materials and metamaterials and hearing protection devices. The ultimate goal of ICAR activities is to increase the comfort, health and safety of workers (and the general public) through the operation of state-of-the-art acoustic testing facilities that meet the needs of both industry and academic researchers.



#### Visit 3: Exclusive visit of the Maison symphonique



Inaugurated in 2011, the Maison symphonique is internationally recognized for the excellence of its acoustics. What criteria were used to achieve this excellence? Located in the heart of downtown near the metro and numerous construction sites, how was it ensured that no noise would interfere with the music played inside? How was the hall designed so that each of the 2100 spectators would benefit from the same sound quality? From the shape of the hall to the choice of materials, from the design of the seats to the choice of the ventilation system, come and discover why the Maison symphonique is a true musical showcase. The tour of the hall will be guided by Romain Dumoulin, acoustician, senior consultant at Soft dB, together with SNC Lavalin and/or Artec.

#### Cocktails, Labs & Ghosts:

EERS Global Technologies Inc is a Montreal-based company that sponsors the "ÉTS-EERS Industrial Research Chair in In-Ear Technologies (CRITIAS)" led by Prof. Jérémie Voix. EERS specializes in enhancing hearables with advanced hearing protection, biometric and in noise communication solutions. Nick Laperle, CEO and founder of EERS, is conveying all AWC2023 delegates interested to attend a cocktail (registration free but mandatory through the online form), at its creative facilities located on the 7th floor of INGO Innovation building at 355 Peel Street (across the street from ETS), on Wednesday October 4th, from 5:30 to 8:00 pm. Technical tours of the EERS and CRITIAS laboratories will be offered to guests followed by a famous Ghost Tour of Griffintown. For those interested in the famous Ghost Tour of Griffintown facilitated by EERS, you can find more details here: https://hauntedmontreal.com/haunted-griff. It will be offered at the discounted price of 21\$ per person. The tour is approximately 90 minutes, entirely on foot and outdoors. It concludes about a 5-minute walk from the start location. A theatrical guide/storyteller is included, who will walk the group to each haunted location and tell the ghost story and history. This is classic ghost storytelling, no other actors or jump scares.

#### ARCHITECTURAL AND BUILDING ACOUSTICS

Chair: Wilson Byrick (Pliteq), Joonhee Lee (Concordia) and Mahn Jeffrey (CNRC)

#### Wednesday October 4 **Room REGENCE A** 10:20-10:40 ...empty slot... 10:40-11:00 Repeatability and Reproducibility of Apparent Sound Transmission Class (ASTC) Measurements **Henning Schlechtriem** 11:00-11:20 Case study: variation in ASTC ratings with loudspeaker position when using directional loudspeakers **Anil Joshi** 11:20-11:40 Comparison of predicted and measured ASTC in a mass timber structure Sarah Mackel 11:40-12:00 Airborne Sound Transmission in Cross-Laminated Timber Buildings: The Influence of Building Height Erik Nilsson, Sylvain Ménard, Delphine Bard 12:00-12:20 Incidence des meneaux d'un mur-rideau sur l'indice ASTC de cloisons intérieures Julien Fenninger LUNCH 13:20-13:40 Recent Experience in the Design of Music Recital Halls Bill John Gastmeier, Mandy Chan 13:40-14:00 Acoustique d'un établissement hospitalier – l'agrandissement du Centre hospitalier de l'Université de Montréal (CHUM) **Vincent Chavand** 14:00-14:20 The Acoustical Challenges for Modular Buildings used for Residential Purposes **Paul Marks** 14:20-14:40 Amplifying Change for Music Venues in Montreal: Rethinking the Technical Regulatory Framework Towards Harmonious and Sustainable Nightlife **Romain Dumoulin** 14:40-15:00 Quantifying the reduction in sound insulation and speech privacy in offices due to typical design and workmanship errors Roderick KT Mackenzie **COFFEE BREAK** 15:20-15:40 Critical Importance of Acoustical Design in New Developments Zoe Razavi 15:40-16:00 Publication of a new guide from the Gouvernement du Québec about noise protection of dwellings Jean-Philippe Migneron, Jean-Gabriel Migneron, André Potvin 16:00-16:20 Acoustic properties of High-Rise Wood Residential Buildings Raphaël Duée, Hugo Vasseur Acoustic Design of Floor Ceiling Assemblies in High Seismic Zones 16:20-16:40 Aedan Callaghan, William Thrall 16:40-17:00 Physical and perceptual comparison between single and multiple diffraction for thick edge Clément Girin, Alain Berry, Philippe-Aubert Gauthier, Louis-Xavier Buffoni 17:00-17:20 Apparent Impact Insulation Class (AIIC) Testing of Various Roof Terrace Assemblies and Evaluating the Need for Additional Mitigation Jessica Tsang 17:20-17:40 Online evaluation of floor impact sounds: who is more likely to be annoyed? Canadians, Germans or Koreans? Sabrina Skoda, Markus Müller-Trapet, Young-Ji Choi, Iara Batista da Cunha, Jeffrey Mahn 17:40-18:00 Field measurement and finite element modeling of vibration propagation from heavy hard impacts on

fitness flooring

Giulio Puglielli, Simon Edwards, Brian Howe

## **Thursday October 5**

## • Room REGENCE A

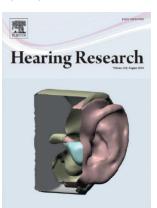
10:20-10:40	Contextualizing Speech Privacy Criteria in WELL/LEED Guidelines  Dorsa Fardaei
10:40-11:00	Speech level variations by office type and work environments Rewan Toubar, Roderick Mackenzie, Joonhee Lee
11:00-11:20	Evaluating Ambient Noise and Reverberation in Classrooms: A Case Study of a Native school Daniel Paromov, Victoria Duda, Julie McIntyre, Phaedra Royle, Adriana Lacerda
11:20-11:40	Novel Method for Reverberation Time Measurements in Natatoriums  Adam Collins
11:40-12:00	Noise and sleep quality of aging adults an open question Iara B Cunha, Ashley Nixon, Jennifer A Veitch, Hiroshi Sato, Jeffrey Mahn, Markus Müller- Trapet, Sabrina Skoda

## **HEARING PROTECTION**

Chair: Hugues Nélisse (IRSST) and Franck Sgard (IRSST)

This session is organized in memory of our colleague and friend Simon Benacchio [1988-2023], who worked with fervor on the enhancement of artificial ears and hearing protectors.







## Wednesday October 4

## • Room VICTORIA

10:20-10:40	Effect of aging on the ear canal morphology: measurements on human subjects Robin Petit, Pierre Buyssens, Gwenolé Nexer
10:40-11:00	Effect of aging on the ear canal morphology: a large scale study Pierre Buyssens, Robin Petit, Gwenolé Nexer
11:00-11:20	Statistical Shape Modeling of the Human Ear Canal for Designing Hearing Protection Devices and Auditory Wearables Farshid Ghezelbash, Katrin Braun, Amir Jafari Bidhendi, Jacob Bouchard-Roy
11:20-11:40	Functional discomfort of earplugs and its influencing variables Bastien Poissenot-Arrigoni, Alessia Negrini, Djamal Berbiche, Franck Sgard, Olivier Doutres
11:40-12:00	Evaluating Mechanical Comfort of Ear Tips: An Experimental-Computational Approach Amir J Bidhendi, Katrin Braun, Jacob Bouchard-Roy, Farshid Ghezelbash

12:00-12:20	Experimental investigation of the static mechanical pressure induced by roll-down foam earplugs
	Luiz G. C. Melo, Ahmed Dalaq, Franck Sgard, Olivier Doutres, Éric Wagnac

	LUNCH
13:20-13:40	3D printed meta-earplug for minimizing the occlusion effect Kévin Carillo, Franck Sgard, Olivier Dazel, Olivier Doutres
13:40-14:00	Design considerations to optimize occlusion effect mitigation with Acoustic Noise Cancelling hearing protection  Vincent Nadon
14:00-14:20	Assessment of the effect of earplug type, insertion depth and background noise level on the occlusion effect in laboratory conditions  Hugo Saint-Gaudens, Hugues Nélisse, Franck Sgard, Olivier Doutres
14:20-14:40	Bandwidth extension of in-ear speech through machine learning-based dynamic equalization Ajin Tom, Antoine Bernier
14:40-15:00	Finite element simulation of the ear canal wall vibrations Simon Kersten, Chalotorn Möhlmann, Michael Vorländer
	COFFEE BREAK
15:20-15:40	Effects of the Hardness of Acoustic Test Fixtures' Ears on the Evaluation of Earplug's Direct Transmissions Facing High-Level Impulse Noises  Cyril Blondé-Weinmann, Pascal Hamery, Véronique Zimpfer, Thomas Joubaud (video)
15:40-16:00	Development of a realistic artificial ear dedicated to earplugs attenuation measurements Said Ezzaf, Luiz Melo, Bastien Poissenot-Arrigoni, Hugo Saint-Gaudens, Alain Berry, Franck Sgard, Olivier Doutres
16:00-16:20	Measurements in the open and closed ear canal: comparison between different artificial head concepts Véronique Zimpfer, Cyril Blondé-Weinmann, Pascal Hamery, Thomas Joubaud, Franck Sgard
16:20-16:40	Time domain numerical investigation to assess noise reduction allowed by a non-linear passive earplug facing impulse noises.  Christophe Ruzyla, Pascal Hamery, Sébastien Roth, Cyril Blonde-Weinmann
16:40-17:00	On the Use of Wide Dynamic Range Compression and Other Algorithms to Improve Hearing Protection of Workers with Hearing Impairment: A Preliminary Study on Speech Intelligibility Solenn Ollivier, Hugues Nélisse, Jérémie Voix
17:00-17:20	Towards Adjustable Loudness Compensation in Hearing Protectors for Musicians Elliot Drees, Eugénie Segers, Caroline Traube, Jérémie Voix

# **Thursday October 5**

# Room VICTORIA

10:20-10:40	Source-separated dosimetry in an active hearing protection device  Max Henry
10:40-11:00	Providing focused hear-through on active hearing protection devices using dipole and omnidirectional outer-ear microphones.  Hugo Besnard
11:00-11:20	Binaural Beamformer: An early Proof of Concept for Wearables Audio Devices Stéphane Dedieu, Thomas Padois, Jérémie Voix
11:20-11:40	The effect of training material on the personal attenuation rating achieved by an initially untrained population  Lucas Carneiro, Lydia Behtani, Antoine Bernier
11:40-12:00	Development of the subjective evaluation method of hearing protectors  Farhad Forouharmajd, Adrian Fuente, Hadi Asady, Siamak Pourabdian

# SPEECH AND HEARING

Chair: Victoria Duda (U. de Montréal) and Rachel Bouserhal (ÉTS)

# Wednesday October 4

• Room	CARTIER A
10:20-10:40	A 3D voice-hearing simulator co-created by voice hearers and researchers: preliminary sound quality evaluation Philippe-Aubert Gauthier, Kevin Zemmour, Sylvain Grignon, Bálint Demers, Catherine Lejeune, Sandrine Rousseau, Mouloud Boukala, Sofian Audry, Sylvio Arriola, Alain Berry, Kevin Whittingstall
10:40-11:00	Timing of perioral muscle suppression in smiled speech Yadong Liu, Kyra Hung, Melissa Villasenor, Shannon Colcleugh, Eunhee Chung, Bryan Gick
11:00-11:20	Biomechanical Simulation of Lateral Asymmetry in Tongue Bracing Jasia Azreen, Connor Mayer, Yadong Liu, Arian Shamei, Ian Stavness, Bryan Gick
11:20-11:40	Tongue Adjustments in the Chest-Head Register Transition of Operatic Singers Grace Bengtson, Elena Massing, Cindy Zhao, Maria Samarskaya, Jahurul Islam, Bryan Gick
11:40-12:00	VOT Analysis of L1 and L2 Speakers of Itza'  Jack Mahlmann
12:00-12:20	Perceptual compensation of intrinsic F0 effects in English monolingual speakers  Connie Ting, Meghan Clayards
	LUNCH
13:20-13:40	Articulation and Acoustics of Korean Liquids: A Case Study in Loanword Adaptation Naim Lim, Alexei Kochetov, Yoonjung Kang
13:40-14:00	Vowel articulation in closed-skull concussion patients with no language impairment Arian Shamei, Bryan Gick
14:00-14:20	Prenasal coarticulation and allophonic merger of /1/ and /ɛ/ across dialects of English  Irene Smith, Morgan Sonderegger
14:20-14:40	Variation in articulation rate in new brunswick french Wladyslaw Cichocki, Luke Hagar, Yves Perreault
14:40-15:00	Creaky voice in Canadian English: An acoustics-focused method  Jeanne Brown
	COFFEE BREAK
15:20-15:40	The acoustics of borrowed /ə/ in Quebec French Massimo Lipari
15:40-16:00	Speech rate effects on length distinctions in Japanese vowels and stops Hironori Katsuda, Yoonjung Kang
16:00-16:20	The Glottal Stop in Garo Cheman Baira A'gitok
16:20-16:40	Acoustic variation in speech: Contrasting initial and later stages of conversations showing opinion convergence and divergence Charlize Ma, Jahurul Islam, Effie Kao, Raechel Kitamura, Stephanie Wang, Marcell Maitinsky, Bryan Gick
16:40-17:00	Size of velopharyngeal opening and nasality measurements from acoustic features  Jahurul Islam, Bryan Gick
17:00-17:20	Elimination of Nasality in Typical Speakers Using Forward Voice Focus, Phonetic Replacement, and Biofeedback Somayah Al-Ees, Tim Bressmann
17:20-17:40	Acoustic Analysis for Automatic Identification and Classification of Nasality in Simulated Oral-Nasal Balance Conditions using only the nasal speech signal Fatemeh Abnavi, Heather Flowers, Hilmi Dajani, Suzy Ahn, Tim Bressmann
17:40-18:00	The temporal modulation of infant directed speech and the role of positive affect Samin Moradi, Linda Polka

# **Thursday October 5**

## • Room CARTIER A

10:20-10:40	A new individualized, ecological and immersive approach to measuring noise-related annoyance: feasibility study
	Pierre H Bourez, Guillaume T Vallet, François Bergeron, Nathalie Gosselin, Philippe Fournier
10:40-11:00	Hearing Health in Remote Quebec: A Case Study from a Native School
	Daniel Paromov, Victoria Duda, Julie McIntyre, Phaedra Royle, Adriana Lacerda
11:00-11:20	Tinnitus residual inhibition through contralateral acoustic stimulation
	Bérangère Margaux Villatte, Arnaud Norena, Sylvie Hébert
11:20-11:40	Improving the detectability of alarms by adding high harmonics
	Connor Wessel, Michael Schutz
11:40-12:00	Classifying sounds encountered in two million YouTube videos: Insights for the future of auditory
	perception research
	Andrés E. Elizondo López, Michael Schutz

	LUNCH
13:00-13:20	Investigating Gender Differences in the Perception of Human Infant Vocalizations as a Cuteness Component
	M. Fernanda Alonso Arteche, Leatisha Ramloll, Lucie Menard, Linda Polka
13:20-13:40	A listening effort based comparative Analysis of CROS Hearing Aids and Bone-Anchored Hearing
	Devices for Single-Sided Deafness Patients
	Olivier Valentin, François Prévost, Don Luong Nguyen, Alexandre Lehmann
13:40-14:00	Development of a Method to Assess In-Ear Speech Intelligibility Through Listening Effort
	Alexis Pinsonnault-Skvarenina, Philippe Chabot, Ajin Tom, Antoine Bernier
14:00-14:20	The Analysis of Speech Perception with the Use of Hearing Protection Earplugs using the Canadian
	Digit Triplet Test
	Ahmed El Mawazini
14:20-14:40	Electroacoustic performance of alternative listening devices: candidates for individuals with mild to moderate hearing loss?
	Alexis Pinsonnault-Skvarenina, Fabien Bonnet, Mathieu Hotton, Hugues Nélisse, Jérémie Voix
14:40-15:00	Psychoacoustic parameters and ear canal role
11110 10100	Hadi Asady, Siamak Pourabdian, Adrian Fuente, Mehdi Jalali, Ali Ahmadi, Fatemeh Ansari, Farhad Forouharmajd

# MATERIALS FOR NOISE AND VIBRATION CONTROL

Chair: Thomas Dupont (ÉTS) and Raymond Panneton (U. of Sherbrooke)

# **Thursday October 5**

## • Room CARTIER B

10:20-10:40	Assessment of equivalent properties for multilayered panels  Diego Martin Tuozzo, Noureddine Atalla
10:40-11:00	On the use of condensation models for describing highly damped multilayered structures Rafael da Silva Raqueti, Noureddine Atalla, Morvan Ouisse, Emeline Sadoulet-Reboul
11:00-11:20	Adding layers of gypsum board inside the cavity of double stud walls. A sound idea? <b>Jeffrey Mahn, Sabrina Skoda, Markus Müller-Trapet, Iara Cunha</b>
11:20-11:40	Added viscous damping of a microperforated plate in a acoustic non-linearity regime Lucie Gallerand, Mathias Legrand, Thomas Dupont, Raymond Panneton, Philippe Leclaire
11:40-12:00	In-situ measurement of acoustic impedance in presence of grazing flow Xukun Feng, Zacharie Laly, Noureddine Atalla

## LUNCH

Eddine Benchikh Lehocine, Tenon Charly Kone, Maël Lopez, Raymond Panneton, Thomas ont, Kévin Verdière ineered materials for acoustics (EMA): Metamaterials, sonic crystals and calculated microstructures mond Panneton stigations on a periodic acoustic metamaterial for multi-tonal noise attenuation harie Laly, Christopher Mechefske, Sebastian Ghinet, Behnam Ashrafi, Charly T. Kone he use of weakly coupled absorber for low frequency sound absorption hamed Amin Ben Lassoued, Edith Roland Fotsing, Annie Ross of Crystal Acoustic Attenuation Applied to Exhaust Air Systems my Plé, Tenon Charly Kone, Allaeddine Benchikh Lehocine, Raymond Panneton ag bands generation in beams and plates for mass reduction and vibroacoustic performance las Bohmwald, Vania Gonzalez, Olivier Robin, Viviana Meruane
mond Panneton  stigations on a periodic acoustic metamaterial for multi-tonal noise attenuation harie Laly, Christopher Mechefske, Sebastian Ghinet, Behnam Ashrafi, Charly T. Kone he use of weakly coupled absorber for low frequency sound absorption hamed Amin Ben Lassoued, Edith Roland Fotsing, Annie Ross of Crystal Acoustic Attenuation Applied to Exhaust Air Systems omy Plé, Tenon Charly Kone, Allaeddine Benchikh Lehocine, Raymond Panneton age bands generation in beams and plates for mass reduction and vibroacoustic performance
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COFFEE BREAK
ustic metamaterials for low-frequency noise reduction: a review ofar Rastegar Dehkordi, Davide De Cicco, David Vidal, Annie Ross
hod for characterizing the acoustic properties of thin metamaterials capable of attenuating addand noise at low frequencies on Charly Kone, Sebastian Ghinet, Raymond Panneton, Anant Grewal
te element study of perfect sound absorbing porous material with periodic conical hole profile harie Laly, Noureddine Atalla, Raymond Panneton, Sebastian Ghinet, Christopher Mechefske
s-spring model for a resonant metamaterial at high sound pressure level El Lopez, Alla Eddine Benchikh Le Hocine, Charly Tenon Kone, Thomas Dupont, Raymond neton
ating optimized sound-proofing structure via concentrated emulsions  a Saghaei, Annie Ross, Edith-Roland Fotsing, Louis Fradette
s- il no

## Friday October 6

# • Room CARTIER B

10:20-10:40	Development of an eco-acoustic absorber based on local recycled granular materials Islam Ben Amara, Raymond Panneton, Richard Gagné
10:40-11:00	Novel acoustic materials made from wood processing residues Suzhou Yin
11:00-11:20	Waste corn husk fibers for sound absorption applications Umberto Berardi
11:20-11:40	Mycelium based acoustic panels Alexis Boisvert, Saïd Elkoun, Olivier Robin, Félix-Antoine Bérubé Simard
11:40-12:00	Acoustic properties of cork fiber reinforced micro-perforated panel made with polylactic acid through additive manufacturing  Umberto Berardi
12:00-12:20	Predicting Acoustic Absorption in Additively Manufactured Porous Microlattices: A Sensitivity Analysis Approach Ayoub Ait Aariba

## **GENERAL ACOUSTICS**

Chair: Viken Koukounian (Parklane), Mathias Legrand (McGill) and Thomas Padois (IRSST)

## Wednesday October 4

## • Room VICTORIA

17:20-17:40	Turbulence Distortion Effect on Leading Edge Noise from Wind Turbine Blades Vasishta Bhargava Nukala, Chinmaya Prasad Padhy (video)
17:40-18:00	Characterization and sustainable acoustic correction of the mosque. Case study of two mosques in Constantine, Algeria Zohra Bemaghsoula Hammou (video)

## **Thursday October 5**

## Room REGENCE A

13:00-13:20	Value Engineering 'acoustics' into projects Michael Bolduc, Viken Koukounian
13:20-13:40	On the robustness of a decoupling procedure used in conjunction with an indirect method to assess the full mobility of an aircraft hydraulic pump Simon Prenant, Thomas Padois, Manuel Etchessahar, Olivier Doutres
13:40-14:00	A criterion based on the calculation of a solid angle to assess the quality of acoustic images obtained with a spherical microphone array  Kevin Rouard, Julien St-Jacques, Olivier Doutres, Franck Sgard, Hugues Nélisse, Loic Boileau,  Alain Berry, Nicolas Quaegebeur, François Grondin, Thomas Padois
14:00-14:20	Influence of the scattering effect on acoustic image obtained with a spherical microphone array Julien St-Jacques, Kevin Rouard, Franck Sgard, Hugues Nélisse, Alain Berry, Nicolas Quaegebeur, François Grondin, Loic Boileau, Olivier Doutres, Thomas Padois
14:20-14:40	Robust Continous Health Monitoring and Occupational Safety with Hearables Alexandre Petrosky, Jérémie Voix, Rachel Bouserhal
14:40-15:00	Digital Earplug Featuring Combined Noise Dosimetry and Electrocochleography: a Proof of Concept Adélaïde Douchet, Alexis Pinsonnault-Skvarenina, Gabrielle Crétot-Richert, Malo Richard, Valentin Pintat, Jérémie Voix

	COFFEE BREAK
15:20-15:40	Assessing automatic musical mode extraction
	Konrad Swierczek, Michael Schutz
15:40-16:00	Use of Carillons in Building New Musical Instruments
	Rama Balike Bhat
16:00-16:20	Detectability and Reducing Annoyance of Alarm Design Using Acoustic Structures of Musical Instruments
	Andres Eugenio Elizondo Lopez, Joeseph Schlesinger, Michael Schutz
16:20-16:40	Dynamics of Harmonic Active Sound Control with a Harmonic Acoustic Pneumatic Source Alexandre Schiavini
16:40-17:00	Rigid body motion of nail guns: modal analysis and 2D dynamic modelling  Maxime Vincent, Marc-André Gaudreau, Thomas Dupont, Pierre Marcotte

## Friday October 6

## • Room REGENCE A

10:20-10:40 Étude sur la fréquence d'apparition d'aptonymes acoustiques et musicaux en France métropolitaine Odile Clavier, Nicolas Trompette, Stéphanie Viollon, Jérémie Voix

10:40-11:00	Characterization of Typical Music Activities in China: Identification, Classification and Quantification Chang Miao
11:00-11:20	How Does Interpretation of Acoustic Features Affect Perceived Musical Emotion?  Cameron Anderson, Jamie Ling, Michael Schutz
11:20-11:40	Deaf Gain: Enhancements in vibrotactile rhythm perception for Deaf individuals Sean Alexander Gilmore, Frank Russo
11:40-12:00	Sign Language Handshapes, Similarly to Speech Sounds, Exploit Biomechanical Endpoints Oksana Tkachman, Shannon Hsu, Maria Samarskaya, Cindy Zhao, Bryan Gick
12:00-12:20	Preliminary numerical and experimental studies of active acoustic control of double-glazed partition walls
	Jonathan Mifundu Nzengi, Pierre Grandjean, Alain Berry, Philippe Micheau Increasing

# **ENVIRONMENTAL NOISE**

Chair: Anthony Gérard (Soft dB), Olivier Robin (U. of Sherbrooke) and Joana Rocha (Carleton University)

# Wednesday October 4

## • Room CARTIER B

10:20-10:40	Relationship Between Community Complaints and Noise Level During the Construction of a Large Road Infrastructure in Montréal Alexis Pinsonnault-Skvarenina, Véronique Guay, Renaud Leblanc-Guindon, Mathieu Carrier, Tony Leroux
10:40-11:00	Effective Methods for Reducing Construction Noise in Densely Populated Environment Loic Sauvageot
11:00-11:20	Design and dissemination of environmental noise maps: recommendations for the province of Québec Frédéric Hubert, Jean-Philippe Migneron
11:20-11:40	Urban noise observatory and management tool - Application to Quebec case Raphaël Duée, Paul Otis-Bouchart D'Orval, Djesone Gomis
11:40-12:00	Noisemonitor: A Python Package for Sound Level Monitor Analysis Valérian Fraisse
12:00-12:20	The introduction of Acoustics in Environmental, Social and Governance (ESG) frameworks Viken Koukounian, Ethan Bourdeau, Michael Bolduc

# **Thursday October 5**

## • Room VICTORIA

13:00-13:20	Challenges of Road Noise Prediction Methods in Canada Petr Chocensky
13:20-13:40	Designing and Evaluating Public Space Sound Installations: a Collaborative Research-Creation Approach Valérian Fraisse, Étienne Legast, Simone D'Ambrosio, Catherine Guastavino
13:40-14:00	Lessons Learned Monitoring Near and Further From Wind Turbines William Keith Gregory Palmer
14:00-14:20	Auralisation: a valuable consultation and engagement tool for infrastructure projects – case study of airspace change for a regional airport  Vincent Jurdic, Calum Sharp, David Hiller, Ryan Biziorek, Caroline Harvey
14:20-14:40	Bridging the gap between sound and non-sound professionals with virtual reality Richard Yanaky, Catherine Guastavino
14:40-15:00	Effect of acoustic treatment and table dividers on diners' experience in a Montreal restaurant Catherine Guastavino

# Friday October 6

## • Room VICTORIA

10:40-11:00  Manufacturers' Sound Data – Application Experiences  Pier-Gui Lalonde  11:00-11:20  Is Friday the new Saturday? The impact of using standard traffic distribution models for Friday data on noise assessment  Kathryn Joanne Katsiroumpas, Morgan Austin  11:20-11:40  Impact of Speed and Throttle Adjustments on FTA Noise Model in Transit Rail Analysis Include Study  Ian Matthew, Anthony Amarra  11:40-12:00  Predicting the noise impact of large-scale battery storage sites in Ontario	
data on noise assessment  Kathryn Joanne Katsiroumpas, Morgan Austin  11:20-11:40  Impact of Speed and Throttle Adjustments on FTA Noise Model in Transit Rail Analysis Includ Study  Ian Matthew, Anthony Amarra	
Study Ian Matthew, Anthony Amarra	ly traffic
11:40-12:00 Predicting the noise impact of large-scale battery storage sites in Ontario	ing Case
Hillary Fung	

# **ARTIFICIAL INTELLIGENCE IN ACOUSTICS**

Chair: François Grondin (U. of Sherbrooke)

# **Wednesday October 4**

## • Room CARTIER B

15:20-15:40	Enhancing Noise Management Through Siamese Convolutional Neural Networks For Identification Of Principal Sound Sources Jean-Pierre Côté, Marc-André Gaudreau, Sousso Kelouwani
15:40-16:00	Wall-Pressure Spectrum Model Based on Artificial Neural Networks Predictions Andrea Arroyo Ramo, Michaël Bauerheim, Stéphane Moreau
16:00-16:20	Deep Learning-Based Approach for Acoustic Source Localization in Turbulent Flows Arnav Joshi, Jean-Pierre Hickey
16:20-16:40	Use of Logistic Regression Models as a Supervised Learning Algorithm to Identify Impulsive Sounds in Monitored Sound Data <b>Harry Ao Cai</b>
16:40-17:00	Accuracies in algorithmic predictors of musical emotion  Jackie Zhou, Cameron Anderson, Michael Schutz
17:00-17:20	Enhancing Automatic Speech Recognition of a Regional Dialect: A Pilot Study with Québécois French Xinyi Zhang, Lucia Eve Berger, Duc-Hoa Tran, Rachel Bouserhal
17:20-17:40	Modeling of field sound insulation for multi-layered CLT floor assemblies using artificial neural networks  Mohamad Bader Eddin, Sylvain Ménard, Delphine Bard Hagberg, Jean-Luc Kouyoumji
17:40-18:00	Detecting ringed seal vocalizations using deep learning Karlee Zammit, William Halliday, Fabio Frazao, Stan Dosso

## **UNDERWATER ACOUSTICS**

Chair: Pierre Cauchy (Université du Québec à Rimouski)

# Friday October 6

## • Room CARTIER A

10:20-10:40	Assessment of Propeller Cavitation Inception Speed Based on Onboard Vibration Data Kamal Kesour, Paul Camerin, Jean-Christophe Gauthier Marquis, Cédric Gervaise
10:40-11:00	Multi-Domain Approach for Prediction of Vortex-Induced Hull Pressure Fluctuations on a Model-Scale Ship  Pressure Maintaine Shoppen Islam Peter Ochloi
11:00-11:20	Duncan McIntyre, Shameem Islam, Peter Oshkai  Ship noise quantification and source level estimation in the Arctic Ocean  Najeem Shajahan, William D Halliday, Stephen J Insley
11:20-11:40	The MARS database – Source levels measured for the fleet navigating the St-Lawrence Estuary Pierre Mercure-Boissonnault, Pierre Cauchy, Faniry Fitiavana Rabetoandro, Cédric Gervaise, Guillaume St-Onge, Jeanne Mérindol, Cécile Perrier de la Bathie, Hugo Catineau
11:40-12:00	Analysis of the variability of ship acoustic signatures measured as a function of hydrophone configuration  Cecile Perrier de la Bathie, Pierre Cauchy, Guillaume St-Onge
12:00-12:20	Measurement of vessel underwater acoustic signature at the MARS station – Repeatability and uncertainties assessed on a 1000 vessels database Pierre Cauchy, Pierre Mercure-Boissonnault, Cécile Perrier de la Bathie, Faniry Rabetoandro, Guillaume Saint-Onge, Cedric Gervaise, Sylvain Lafrance

## **BIOMEDICAL ACOUSTICS**

Chair: Nicolas Quaegebeur (U. of Sherbrooke)

# **Thursday October 5**

# • Room CARTIER A

15:20-15:40	Miniaturized Acoustic Concentrators for Local Generation of Ultrasonic Waves Ibrahima Touré, Nicolas Quaegebeur
15:40-16:00	Printing beyond barriers using ultrasound in Direct Sound Printing Mohsen Habibi, Shervin Foroughi, Muthukumaran Packirisamy
16:00-16:20	Characterization of Noise Produced During Continuous and Sparse Sampling Functional Magnetic Resonance Imaging Olivier Robin, Félix Le Moigne - Le Dem, Pascal Tétreault, Domnique Lorrain, Vivien Staehle
16:20-16:40	Numerical analysis of energy density distribution in the human lungs under low-frequency acoustic excitation  Arife Uzundurukan, Sébastien Poncet, Daria Camilla Boffito, Philippe Micheau

## **AEROACOUSTICS**

Chair: Joana Rocha (Carleton University) and Marlène Sanjosé (ÉTS)

# **Thursday October 5**

## • Room VICTORIA

15:20-15:40	Derivation of an Empirical Model for the Estimation of Power Spectral Density in the Turbulent Boundary Layer of Aircraft With Machine Learning Regression Techniques Zachary Huffman, Joana Rocha
15:40-16:00	Aeroacoustic Optimization of a Metacage to Block the Noise Emitted by an Exhaust Fan Marco Lizotte, Jean-Bernard Piaud, Raymond Panneton, Tenon Charly Kone, Jean-Christophe Cuillière, Vincent François
16:00-16:20	Interaction noise for a rotor-stator assembly in a short duct  Marlene Sanjose, Baahirham Shanthalingam
16:20-16:40	Evaluation of Wall Pressure Spectrum Models for Fan Noise Prediction Marlene Sanjose, Natacha Galand, Teddy Garnier, Stéphane Moreau
16:40-17:00	High-fidelity acoustic simulation of a recorder using powerflow Elissa El Hajj, Davide De Cicco, Annie Ross, David Vidal

# **EDUCATION IN ACOUSTICS**

Chair: Olivier Robin (U. of Sherbrooke)

# Wednesday October 4

## • Room CARTIER B

13:20-13:40	Teaching architectural acoustics using project-based learning with real-world building projects Christoph Hoeller, Adrian Bloedt
13:40-14:00	Understanding the Skill Gap of Post-Secondary Graduates Entering the Acoustic Consulting Profession Abigail Farkas
14:00-14:20	Teaching Concepts of Acoustical Waves in Air - Part 2 William John Gastmeier
14:20-14:40	Noise evaluation at the École de technologie supérieure campus in Montréal: A student project Olivier Doutres, Maël Lopez, Kévin Rouard, Louis-Philippe Campagna, Titouan Cougoulic, Anthony Jutras, David Lauzon, Pierre-Luc Pépin-Pagé, Alexis Purson
14:40-15:00	Improving audiology student training by clinical simulation of tinnitus: a glimpse of tinnitus lived experience Pierre H Bourez, Guillaume T Vallet, Philippe Fournier

#### SOME IMPORTANT INFORMATION FOR A STRESS-FREE CONFERENCE

#### **Before Arriving at the Conference**

• All presentations are scheduled for 18 minutes (15 minutes for the presentation + 3 minutes for questions). This leaves a brief 2 minutes to prepare for the next presentation.

#### **Upon Your Arrival**

- When you arrive at the venue, please proceed to the registration desk located on level C1 of the building (1st floor beneath the entrance hall). Here, you can collect your conference badge. There are two ways to access it from the main entrance of the building, either by taking a staircase (to the left of the reception) or an escalator (to the right of the reception).
- Here are the registration desk opening hours:
  - O Tuesday, October 6th: 5:30 PM to 8:30 PM
  - Wednesday morning: starting at 8:00 AM
  - o Thursday and Friday mornings: starting at 8:30 AM.

If the registration desk is closed, you can register at the coatroom located on the main conference level (floor C, two levels below the entrance hall).

- If you have chosen a social/technical event during your registration (e.g., ICAR, CIRMMT, or Maison Symphonique), you will be asked to confirm it during your check-in at the registration desk.
- Please confirm your food allergies.

#### **During the Conference**

- The up-to-date conference program is available on the conference website (<a href="https://awc.caa-aca.ca/public/conferences/2/AWC2023/AWC2023">https://awc.caa-aca.ca/public/conferences/2/AWC2023/AWC2023</a> Schedule.pdf). This program also includes the conference site map.
- The proceedings are already available online at <a href="https://jcaa.caa-aca.ca/index.php/jcaa/issue/view/302">https://jcaa.caa-aca.ca/index.php/jcaa/issue/view/302</a>. Please note that this document may not contain the most current conference program. Instead, refer to the up-to-date program on the conference website, as provided in the previous point.
- Wi-Fi access is provided at the conference venue. A QR code will be displayed at various locations throughout the conference site.
- On the day before your presentation, please send it in ".ppt" or ".pdf" format to this email address: <a href="mailto:upload@caa-aca.ca">upload@caa-aca.ca</a>.
   Your email should include the session name, the name of the first author, and the presentation title. You can also upload your presentations to the room's computer during the breaks. You can use your USB drive or borrow one from the room coordinator.
- All breakout rooms will allow sound to be played from the computer used for presenting. Only the room's computer can
  be used (personal computers are not permitted). If you have sounds and/or videos to play, please plan to have the
  corresponding files on USB drives, just in case.
- Let's make AWC23 an environmentally friendly event together. Some sustainable actions implemented by the AWC organization, originally proposed by "Tourisme Montréal" and the "Conseil québécois des événements écoresponsables", are listed on the conference website.: <a href="https://awc.caa-aca.ca/index.php/AWC/index/pages/view/AWC2023\_Eco">https://awc.caa-aca.ca/index.php/AWC/index/pages/view/AWC2023\_Eco</a>
- An exhibition area is available on Wednesday, October 4th, and Thursday, October 5th, featuring various acoustic equipment, products, and services. We strongly encourage you to visit the booths, where you can explore the latest cuttingedge equipment and materials, as well as best practices in the field.
- A draw is being organized to encourage participants to visit the booths, with remarkable prizes generously provided by
  our sponsors and exhibitors. The AWC23 draw concept is simple: all participants will receive a card and can collect
  stamps during their visits to the booths. If they collect stamps from all the booths, they will be entered into the draw,
  which will take place during the Thursday Gala. Once completed, bring your card to the Mecanum's booth before
  Thursday 4:30 PM.
- A continental breakfast is served every morning between 8.00 and 9.30 AM. Come to the conference hungry!
- The lunch buffets will indicate dishes for those with dietary restrictions (e.g., no dairy products, no gluten...).

#### **Social and Technical Events**

From Wednesday, October 4th to Friday, October 6th: Those who wish to participate in the noise mapping of Montreal
can already install the "NoiseCapture" application on their mobile phones (a free and open-source application available
only on Android). The code to enter for participating in the "NoiseCapture Party" of AWC23 is: AWC23. Before starting
measurements, please visit Prof. Olivier Robin at his booth for more information and to calibrate your phone. The noise

- mapping created by participants will be accessible in real-time at this address: <a href="https://noise-planet.org/map\_noisecapture/noisecapture-party.html#AWC23">https://noise-planet.org/map\_noisecapture/noisecapture-party.html#AWC23</a>
- Tuesday, October 3rd: The welcome cocktail begins at 6:30 PM and ends at 8:30 PM. Cold appetizers and both alcoholic and non-alcoholic beverages will be provided. Wine and beer will be complimentary and unlimited from 6:30 PM to 8:00 PM. The number of attendees for this event is limited. Please arrive promptly at 6:30 PM. To avoid unnecessary travel, we will broadcast the real-time availability of seats on the ACA LinkedIn group and/or Twitter.
- During the Wednesday, October 4, and Thursday, October 5, lunch breaks, two tables will be reserved for participants
  interested in learning more about the ACA's board of directors. Come and discover the inner workings of this transCanadian professional association.
- Wednesday, October 4: There will be a "beer and pizza" event reserved for students and conference volunteers starting at 6:15 PM. This event will take place at "L'Amère à boire" (2049 Rue Saint-Denis, Montréal, QC H2X 3K8). Bring your conference badge, and you'll receive two drink coupons. Quantities are limited, so arrive early!
- Wednesday, October 4: A small reception, followed by a corporate tour, will be organized by EERS Global Technologies Inc. on Wednesday, October 4, from 5:30 PM to 8:00 PM. Please remember to reserve your spot before September 30th: <a href="https://forms.office.com/Pages/ResponsePage.aspx?id=Lt2ZTf\_OMUWeE\_ygkZ651TyeMePCX0VNp6TeFd5wOEIUM1BONFhEVEIJT0dRVzJMNjNONk9NUFo4VC4u">https://forms.office.com/Pages/ResponsePage.aspx?id=Lt2ZTf\_OMUWeE\_ygkZ651TyeMePCX0VNp6TeFd5wOEIUM1BONFhEVEIJT0dRVzJMNjNONk9NUFo4VC4u</a>
- Thursday, October 5:
  - o All members of the Canadian Acoustical Association are invited to participate in the annual general meeting, which will take place in the REGENCE A room on Thursday, October 5, from 5:15 PM to 6:15 PM.
  - This meeting will be followed by a cocktail hour, featuring the musical talents of a Jazz trio from the McGill Schulich School of Music, who will delight us with timeless 'vocal jazz' songs. It's special music for a special moment.
  - At the same time as the cocktail, the PowerPoint Karaoke will take place in REGENCE A room, providing an
    opportunity for wild improvisations using randomly selected slides from the conference. It promises to be a great
    time of relaxation and laughter.
  - The gala dinner starts at 7 PM. Attendance at the **gala** is **free** of **charge** for all **participants** (except those attending the individual days on Tuesday, Wednesday and Friday and for Thursday pass with badges marked 'no gala').
  - As part of our dedication to sustainability and recognizing the environmental footprint of our conference, we are excited to share that, during the gala dinner, 40% of the main course options will be vegetarian. As a result, the availability of meat or fish dishes is limited, and they may become unavailable if pre-ordered in entirety. We highly recommend opting for vegetarian selections to ensure an enjoyable dining experience for all while supporting our sustainability efforts.
  - After the gala dinner, an open musical jam session will be held in the REGENCE A room. Bring your musical instrument!
- Friday, October 6: Three exciting scientific tours are proposed: <a href="https://awc.caa-aca.ca/index.php/AWC/index/pages/view/AWC2023\_SocialEvents">https://awc.caa-aca.ca/index.php/AWC/index/pages/view/AWC2023\_SocialEvents</a>

These tours are taking place simultaneously, so you can only participate in one. You will be asked to confirm your chosen tour upon your arrival at the registration desk. Please wear your conference badge during the tours to help your guide identify AWC23 participants. A volunteer will be stationed at the main entrance of the conference venue (main hall on the lobby level) to escort you to the tour location. Alternatively, you may choose to meet the group directly at the tour destination.

- Visit#1 CIRMMT: Departure @ 14h00 from the conference center; Meeting place: 527 Rue Sherbrooke west #8, Montréal, QC H3A 1E3; Meeting time: 14h30.
- O Visit#2 ICAR lab.: Departure @ 14h10 from the conference center; Meeting place: 1100 Notre-Dame Ouest, H3C 1K3; outside the main building A; Meeting time: 14h20; Anticipated end of the tour: 16h00.
- Visit#3 Maison symphonique; Departure @ 14h20 from the conference center. Meeting time: 14h50; Meeting place: 1600 Rue Saint-Urbain, Montréal; Anticipated end of the tour: 17h00.

#### **Upon Leaving the Conference Venue**

• The conference has come to an end for you! Please deposit your name badge (badge and lanyard) in the boxes located at the base of the stairs and escalator (level C of the conference). If you're joining one of the three Friday' afternoon tours, please hand your name badge to the volunteer at the conclusion of the visit. These name badges will be reused for other events.