

ACOUSTICS WEEK IN CANADA 2020

REPORT ON THE “ONE-DAY CELEBRATION” EVENT

Acoustics Week in Canada 2019

Oct 9, Everywhere (online)

Because of the COVID-19 situation, the Acoustics Week in Canada (AWC) originally planned for October 2020 in Sherbrooke (QC) has been postponed to October 2021. Nevertheless, and as a "warm up", Sherbrooke's organizing committee had been looking into setting up a little 1-day online celebration for October 2020. This report presents the highlights of AWC2020 One-Day Celebration that took place online on October 9, 2020. The final program is presented together with some memories and comments received from participants. Olivier Robin and Jérémie Voix were actively involved in making this special day happen and particularly thankful to the support received from all round-table presenters, session presenters and moderators as well as all audience and CAA members present during the day.

1 Final program (as presented)

Time	Activity
09:00-09:10	Welcome Note
09:10-10:00	<p>Round-table - COVID-19 Pandemic: impacts, challenges and opportunities for the CAA-ACA community</p> <p>Nick Laperle (EERS)</p> <p>Jacopo Fogola (ARPA Piemonte, Italy)</p> <p>Alexandre Lehman (UdeM)</p> <p>Moderators: Olivier Robin (UdeS), Jérémie Voix (ÉTS)</p>
10:00-14:40	<p>Main Session (Timeslots within a given session might be advanced in case of no-show)</p> <ul style="list-style-type: none"> · Hearing Conservation <p>10:00-10:20 Moshgelani (In-Ear Audio and Speech Processing Algorithms for Digital Hearing Protectors)</p> <ul style="list-style-type: none"> · Signal Processing / Numerical Methods

	<p>10:20-10:40 F. Merli (The Roman Theatre of Verona: a different representation method of the acoustical parameters)</p> <ul style="list-style-type: none"> · Architectural Acoustics <p>10:40-11:00 A. Bevilacqua (Acoustical measurements of the Roman theatre of Verona by mapping the sound reflections in real time)</p> <p>11:00-11:20 Berardi (The evolution of the acoustics of a Medieval Church)</p> <p>11:20-11:40 Berardi (VARIANCE OF REVERBERATION TIME, CLARITY, AND SPEECH TRANSMISSION INDEX IN GYMNASIUM)</p> <p>11:40-12:00 Licitra (ANALYSIS OF ENVIRONMENTAL SOUND LEVELS IN ITALY DURING THE COVID-19 EMERGENCY)</p> <p>12:00-12:20 Lee (The effect of sound masking on employees' acoustic comfort in open-plan offices)</p> <ul style="list-style-type: none"> · Speech Sciences <p>12:20-12:40 Perna (Socio-phonetic tendencies and linguistic aspects of English Contemporary Commercial Music)</p> <p>12:40-13:00 Al-Zanoon (Investigation of motor equivalence and tongue muscle excitation patterns in simulated English vowels)</p> <ul style="list-style-type: none"> · Engineering Acoustics / Noise Control / consulting <p>13:00- 13:20 Berardi (Design and experimental validation by 3d printing of a permeable silencer metamaterial)</p> <p>13:20-13:40 Dumoulin (Noise from outdoor live events in downtown Montreal: regulatory framework, complaints management and predictions tools)</p> <p>13:40-14:00 Iannace (MINI-WIND TURBINE NOISE INSIDE HOME)</p> <p>14:00- 14:20 Chao (Development of a mobile full face tracking system during speech production)</p>
14:20-14:50	Coffee Break in “Wonder” online app
14:50-16:05	<p>Student Pecha-Kucha Presentations</p> <p>14:50-15:05 Lucas Einig (HPD Fit-Testing Feature developed within a Hearing-Care Platform for Musicians)</p> <p>15:05-15:20 Daniel Nault (Direct manipulation of variability in the auditory feedback system via real-time formant perturbation)</p> <p>15:20-15:35 Benesch (“Listen to Your Heart”: Exploring the Link between In-Ear Audio and Emotions)</p>

	15:35-15:50 Roujan Khaledan (Evaluating the Accuracy of Lip Motion Tracking Using Surface Scanning Face Tracking Technology)
15:50-16:15	Coffee Break on “Wonder” app (see Figure X)
16:15-16:45	Acoustical Gems 16:15-16:25 Olivier Robin - Resources for online acoustics and vibration 16:25-16:35 Noise Busters - a sound and vibration podcast 16:35-16:45 The Lockdown Musical: NASA SpaceApps Global Winners 2020
16:45-17:00	Award Ceremony
17:07	Group Picture (see Figure X)
17:00-18:00	Annual General Assembly: open to all CAA members. 17:05 Family picture let's all open our cameras and smile for posterity!

2 Final program (as presented)

Some -anonymized- comments received by email; their respective authors will recognized themselves:

From An old-timer from CAA:

To start with, CONGRATULATIONS for a fantastic conference yesterday. To tell you the truth, I wasn't optimistic about it. I was ready to sleep through half of it. However, the reality was so interesting that I didn't. The organization, presentation, timing, everything was perfect to me! So, once more, congrats to you and the organizing team!

From a new-timer to AWC:

I'm honoured for having taken part in this wonderful event, which I noticed has gathered a lot of people from everywhere:) I hope I'll be able to continue with this work, always in a professional and clever way. Again, this has been a very good occasion for me to let other people know my research, and it was 100% thanks to you, so I'm very grateful:)

Some young members you may recognize

Thank you for giving us an opportunity to talk about our project "The Masked Scales" at the Acoustics Week in Canada event last week. We enjoyed the experience and the words of encouragement we received from the audience. We are happy we were able to share our joy our merging science, coding, and music.

Some other fellow acousticians

Thank you so much for allowing virtual attendance this year! This conference is always so inspiring and motivating to see the work others have been doing. Will you be sharing parts of the conference recording at all? There were a couple presentations in the architectural acoustics section I missed due to project meetings, and would love to get the chance to re-watch those. Thanks again and all the best.

3 Some memories

3.1 Virtual coffee breaks

AWC2020 One Day Celebration included a “virtual coffee break” where people happy to regroup in these “virtual bubbles”: as soon as a person’s avatar is close enough to other avatars, the video connection pops-up. Here, in figure 1, 3 long-time members of CAA are chitchatting and discussing the merit of different bear sizes.



Figure 1: Overview of one AWC2020 virtual coffee break

3.2 Virtual coffee breaks

Despite the distance, the whole family was there (well almost, sorry for the missed screenshot of the 3rd page of Zoom attendants!). See Figure 2 and 3 below.

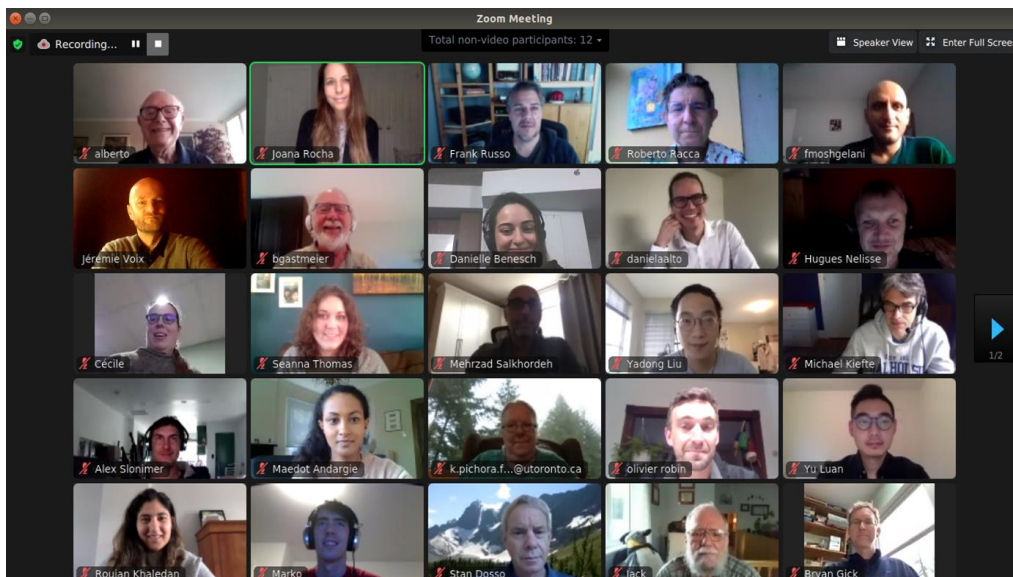


Figure 2: AWC2020 Family Picture – Part I



Figure 3: AWC2020 Family Picture – Part II (sorry for missing 3rd page!)

3.3 A well-rated event

Quick surveys launched during the event showed a good level of satisfaction amongst AWC2020 audience. Surveys and results are shown in figure 4.

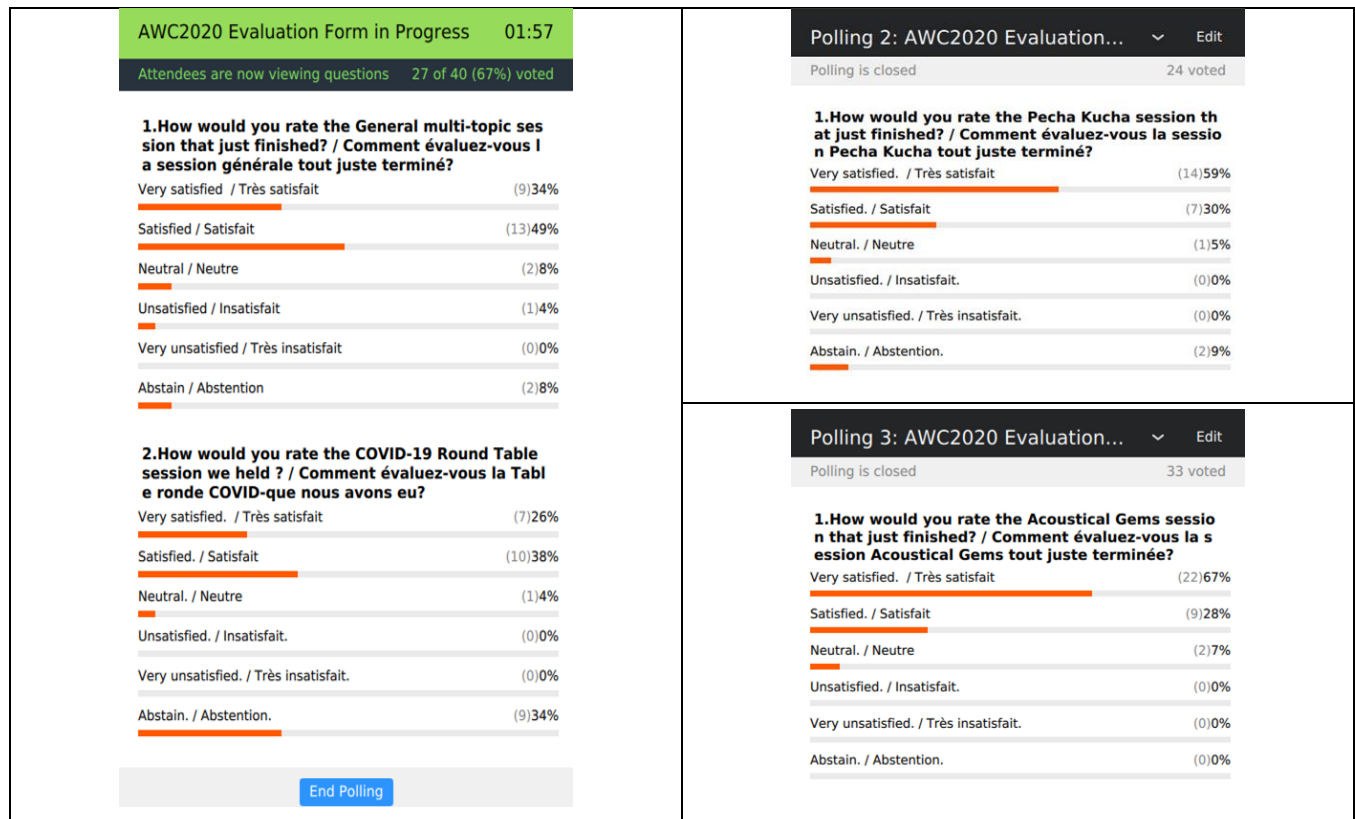


Figure 4: AWC2020 Evaluation forms and questionnaires

3.4 A well-attended event

The online attendance, shown in figure 5, varied over the day, peaking at 60 people around midday. A slight turnover was noticed, and the total number of people who connected (excluded our infamous Zoom bombers that were mostly popping-up with each post on Twitter by our Media Editor) probably reached 80 persons, making it a reasonable event given the current challenges.

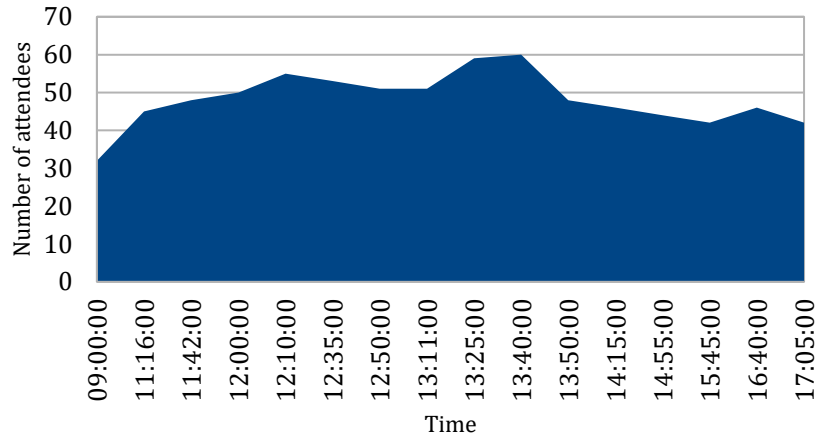


Figure 5: AWC2020 online audience

3.5 Social media presence

As presented in figure 6, this AWC2020 One-Day Celebration was visible on many social media and attentive readers that were present during the event will notice the high level of correlation between these live post on Twitter and the appearance of Zoom bombers in AWC2020 events! :-)

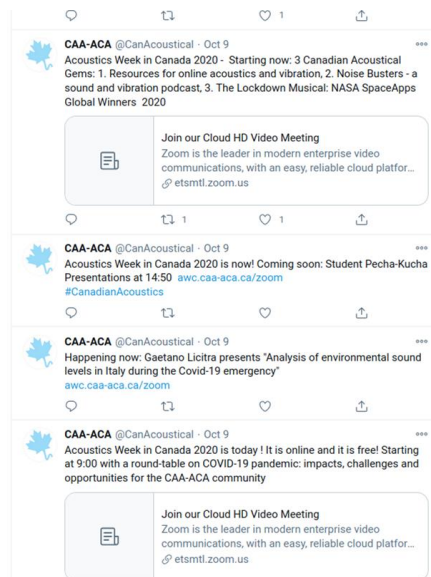


Figure 6: AWC2020 online presence on Twitter

**Canadian Acoustical Association
Association Canadienne d'Acoustique**

2020 PRIZE WINNERS / RÉCIPIENDAIRES DES PRIX 2020

BELL GRADUATE STUDENT PRIZE IN SPEECH COMMUNICATION AND HEARING /
PRIX ÉTUDIANT BELL EN COMMUNICATION VERBALE ET AUDITION

Yadong Liu (University of British Columbia)



FESSENDEN GRADUATE STUDENT PRIZE IN UNDERWATER ACOUSTICS /
PRIX ÉTUDIANT FESSENDEN EN ACOUSTIQUE SOUS-MARINE

Alexander Slonimer (University of Victoria)



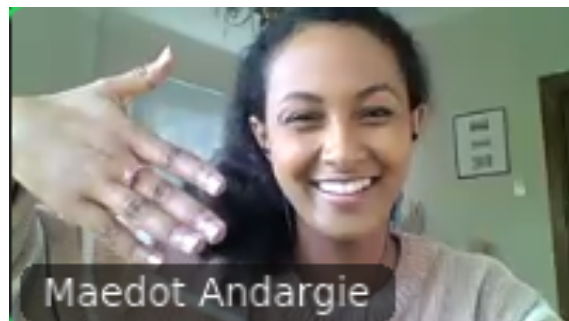
ECKEL GRADUATE STUDENT PRIZE IN NOISE CONTROL /
PRIX ÉTUDIANT ECKEL EN CONTROLE DU BRUIT

Yu Luan (École de Technologie Supérieure)



THOMAS D. NORTHWOOD STUDENT PRIZE IN ARCHITECTURAL AND ROOM ACOUSTICS /
PRIX ÉTUDIANT THOMAS D. NORTHWOOD EN ARCHITECTURE ET ACOUSTIQUE DES SALLES

Maedot Andargie (University of Toronto)



RAYMOND HÉTU STUDENT PRIZE IN ACOUSTICS /
PRIX ÉTUDIANT RAYMOND HÉTU EN ACOUSTIQUE

Eric Cui (University of Toronto)

CONGRATULATIONS / FÉLICITATIONS