

AES TCAA Web meeting 6/5/20 (In-lieu of actually meeting in Vienna)

Last Conference Meeting New York 2019

- Chairs were re-introduced.
- Trends list was updated. In light of the existing world situation are there any new trends we could definitively list?
- Since this meeting three web meetings have been held. Minutes from those meetings can be found here: <http://www.aes.org/technical/aa/>

AES Vienna, the 148th European Pro Audio Convention, May 25-28, 2020

Due to COVID-19 the conference was held as a virtual event June 2-5. The good news is that material presented here will be available on AES website indefinitely. Roger asked if anyone had attended and had any feedback as AES HQ would be interested to hear:

- Roger commented he thought it was a good experience
- Samira Mohamady said the follow-up question part was a bit quirky. She also brought up the idea that having a virtual event accompany an actual conference may be a good idea. That way those who cannot make it in person still get access to the wealth of information presented.
- Rafael Kassier agreed this sounded like a good idea. It could also help with the revenue stream. Also said positive experiences of the virtual conference was expressed by students in Japan.
- Dan Field asked if there were any more virtual conferences being asked for. Roger replied not at this time. Dan also brought up that having a virtual event alongside an actual conference may deter attendance at the actual event.
- Samira is new to the AES and was wondering about University involvement in conferences as it seemed to be lacking from the virtual conference in Vienna. Rafael replied that in-person conferences attendance from Universities is usually quite good. Roger suggested reaching out more to Universities for involvement to get even more inclusion, especially for studies in Automotive Audio.
- Question was asked if any presentations for the virtual conference stood out. Rafael mentioned a talk by Lenise Bent on creative recording techniques.

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Automotive Audio Conference for 2021

Planning has begun for the next automotive conference to be held in Detroit in 2021.

Chair: Roger Shively, Co-chair: Dan Field, Vice Chair: Alan Norton

- Final proposal and budget has been sent to AES Conference Policy Committee. It went through a review and update by the CfPC chairs (Bill Foster and Gary Gottlieb), and they are in full support of the conference
- CfPC meeting on the coming Wednesday, June 10, 2020. Roger will be on-line with them for any questions. There will be another 2 weeks for Board of Governors approval, but we will be kicked off after the CfPC meeting.

- Timing has been proposed for June 2021 between the SAE NVH Conference to be held in Grand Rapids, MI (June 14-17) and the Detroit Auto Show (June 11-26). Roger organized a straw poll to see if June date discouraged anyone from attending. High majority of votes were Encourage or not affect attendance.
- Proposed venue is Ford Motor Company Conference and Event Center
- Following the approval next week, the planning committee will kick into gear for, promoting the conference, acquiring sponsorship, finalizing contracts, detailing the program, and soliciting papers and keynotes
- Greg Sikora is papers chair with vice chairs being Samira Mohamady and Dewey Du assisting. Greg said he has been contacted by others to support and once topics are decided, will know areas where the help can be utilized.
- Want to try to make it easier for students to attend to generate interest.

In-Vehicle Acoustic Measurements Whitepaper Kickoff

Greg Sikora from Harman is heading the effort to develop a whitepaper for In-Vehicle acoustics measurements.

- Meetings have resumed after a short time off due to COVID-19.
- Group has identified three areas of sound quality to define measurements for: Frequency Response, Maximum SPL and Squeak/Rattle.
- Team has been divided into 3 groups to begin gathering data/details for each measurement category.
- Entire team to meet next week now that subgroups have met.
- Plan to present at Automotive Audio Conference in June 2021

SC-04-03 Loudspeaker Standards Request to TC-AA

Pietro Massini mentioned that the Loudspeaker Standards Committee is developing a specification for End-of-Line testing for automotive loudspeakers. The committee would like gather comments from experts in this area as well as automotive OEMs. An email with more information will be forthcoming.

AES New York, NY Convention, October 21-24, 2020.

As with all future conventions in the near future there is uncertainty on what this will entail. Keep visiting the website for latest information: <http://www.aes.org/events/149/>

- Call for Contributions is Open. Dates may change some (according to the AES website) <http://www.aes.org/events/149/authors/cfc/>
 - Schedule
 - Proposal (Category 1 and 2) deadline: June 15, 2020
 - Acceptance (précis proposals, Category 2) emailed: July 15, 2020

- Acceptance (full papers, Category 1) emailed: July 15, 2020
- Final manuscript (Category 1 and 2) deadline: July 31, 2020
- Engineering brief (Category 3) proposal deadline: August 1, 2020
- Engineering brief (Category 3) 1–5 page PDF deadline: August 31, 2020
- Categories
 - Authors may submit proposals in three categories:
 1. Complete-manuscript peer-reviewed convention papers
 2. Abstract-precis-reviewed convention papers
 3. Abstract-reviewed engineering briefs (paper optional)

Looking to facilitate papers, workshops and/or tutorials for upcoming conventions for the following topics. Please consider contribution.

1. Immersive Audio

- Immersive native Formats (Sony, Dolby, others???)
- Upmix immersive formats (Harman, Fraunhofer, Auro, ?)
- Discuss current state, future development and needs
- Engage universities (call for contributions) to research objective methods to assess spatial perception / spatial quality of sound stage in car cabins (long term activity, we could run a specific track of papers within convention or conference). Currently there's very little to none research in this area.

2. Computational Platforms

- Dedicated audio platforms have been provided in the past by ADI, NXP and other vendors. In addition ARMS is getting popular for audio processing as are the Snapdragon chips from Qualcomm.
- Workshop could be a tutorial to get the series started. Dan Foley of Audio Precision said he could help with contacts for potential contributions.
- It would be good to have papers from semiconductor vendors and Tier 1 and 2 suppliers, so that we can have an informed discussion about the topic.
- Dilip Warriar has submitted a panel discussion for this topic and is waiting to hear feedback.

3. Active Noise Control & Automotive Audio

- With vehicles becoming quieter and powertrains changing noise control is becoming more and more prevalent. Looking for contributions to help promote activity in this important field.
- Challenges and how to meet them and overcome them
- State of the art, case histories
- Separate email to be sent out to the TC-AA from normal meeting minutes to help generate interest.

4. High Efficiency systems
 - What is HiE for transducers and amplifiers
 - What is the impact of HiE on an overall performance of EV range comparing to component weight optimization
 - Conference or Convention?

5. Microphones in cars
 - Very little discussions or papers on this topic within AES
 - A follow up workshop from Vienna to discuss automotive mic specs and microphone architectures to cover automotive needs (cancellation technologies, compensation technologies, hands-free, beamforming, etc.) – so far there's no established standard how to deal with system complexity – Dewey Du update - Vienna workshop was cancelled. Looks like may not be presented at New York convention either due to company travel restrictions. Possibly could be part of Automotive Audio Conference in June.
 - Initial workshops could be transformed into a working group to write a recommendation

If interested please contact Roger Shively through TC-AA

<http://www.aes.org/technical/aa/>

LinkedIn Group Investigation for TC-AA

Currently looking into setting up a private LinkedIn group for the committee. AES HQ is willing to help set it up as long as the chairs/vice chairs manage the group. Pat Dennis following up with AES on next steps.

Kudos to the Committee

Steve Hutt mentioned the good job the TC-AA is doing with communications and planning.

TC-AA Next Meeting

The next meeting is tentatively scheduled for August 2020.