

## **AES TCAA Web meeting 8/25/20**

### **In-Vehicle Acoustic Measurements Whitepaper Kickoff**

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

- Task is broken up into the WHY, WHAT and HOW
  - The team has identified the WHY? of the whitepaper
  - WHAT? which will be the quantities to be measured (Frequency Response, Max SPL/THD, Buzz & Rattle) is almost completed. Using known methods instead of creating new ones.
  - Just beginning work on the HOW?
- Timeline has been established.
  - Plan is to have work completed by end of year
  - Jan/Feb will be for paper compilation
  - March – distribute to committee for feedback
  - April – Incorporate feedback
  - June – Present at Automotive Conference in Dearborn.
  - The team has identified the WHY? of the whitepaper

If interested in participating please contact Greg through the AES TC-AA website - <https://www.aes.org/technical/aa/>

### **Automotive Audio Conference for 2021**

Planning has begun for the next automotive conference to be held June 23-25, 2021 in Detroit at the Dearborn Inn. This will be the 5<sup>th</sup> conference and hoping it will be live but preparing for streaming as well.

- Home page is available and working with AES to be listed on their upcoming event page: <https://www.aes.org/conferences/2021/automotive/>
- Call for contributions will be coming in the next couple of weeks. Keep looking for Call for Contribution page to go live.
- Currently have 2 Keynote presentations planned and working on a third - <https://www.aes.org/conferences/2021/automotive/keynotes.cfm>
- Sponsors meeting this week after which sponsors page will be live.
- Communications team will keep the information flowing
- Committee page is live and will be updated soon. <https://www.aes.org/conferences/2021/automotive/committee.cfm>

New for this year will be a news feed site (going live soon!) It is meant to be a place for fresh news about the conference and the information from the planning committee and keynotes prior to the event, during the event, and afterward. Test run is scheduled this week.

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

Appears this convention will be held all month long. <http://aesshow.com/> Early bird registration is available until 8/31/20. Further info: <https://www.aes.org/events/149/> Committee members talked about some issues the virtual AVAR show encountered, hoping lessons will be learned to make future virtual conventions run smoother.

Automotive topic Microphones in Cars is still being planned for this convention. Also the workshop on Computational Platforms has been approved. It will be live streamed with a live Q&A session.

If you have any interest in presenting work on any of the following topics at any convention please contact Roger Shively through the AES TC-AA website. <https://www.aes.org/technical/aa/>

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 – first workshop to be held at upcoming NY Convention!!
  - 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.
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
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 – 1<sup>st</sup> presentation planned at upcoming NY Convention!!
  - 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
- Initial workshops could be then transformed into working group to write a recommendation

**AES TC-AA LinkedIn Group has been started!**

<https://www.linkedin.com/groups/12424742/>

This is a private group so if you are interested joining must have a LinkedIn account and contact any of the following members through LinkedIn to be added:

Rafael Kassier

Roger Shively

Greg Sikora

Patrick Dennis

**TC-AA Next Meeting**

The next meeting was to be held during the NY Conference. Details will be forthcoming.