AES TCAA Web meeting 2/18/20

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

Program is still being finalized. Many papers have been submitted and committee is still reviewing them.

"It's All About the Bass", Rafael Kassier's workshop suggestion has received a positive response, still waiting for confirmation.

"Automotive Microphones: Status, Requirements and Trends" has been listed in Program Highlights. Visit convention website for upcoming specifics of this presentation
http://www.aes.org/events/148/

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.

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
   - 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

If interested please contact Roger Shively through TC-AA
http://www.aes.org/technical/aa/

Automotive Audio Conference for 2021

Planning has begun for the next automotive conference to be held in Detroit sometime in 2021. Chair: Roger Shively;   Vice Chair: Alan Norton
- Committee kickoff meeting scheduled for 2/20/20
- Have received planning material from AES HQ
- Next step is to give overview of conference and budget to AES for approval.
- Greg Sikora mentioned that there is a need for paper reviewers. If interested contact Greg through TC-AA http://www.aes.org/technical/aa/

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In-Vehicle Acoustic Measurements Whitepaper Kickoff

Greg Sikora from Harman is heading the effort to develop a whitepaper for In-Vehicle acoustics measurements.
- Kick off meeting was held on 2/17/20 with a good representation of OEMs and Suppliers.
- Focus is to develop measurements for documentation of the sound field that can be used by all to help standardize practices.
- Next meeting is to get agreement for outline of attributes that need to be measured
- Subsequent meetings will then discuss measurements to capture those attributes
- Deadline for completion is 6 months before Automotive Conference in 2021.

Next web meeting April 16, 2020. Meeting notice has been sent.