

AES TCAA Web meeting 12/12/18

Started out meeting sharing why we decided to start web meetings. It is a great way to keep in touch and help advance automotive audio presence within AES. Meeting two times a year at the international conferences, one in US and one in Europe was not enough. Through the web meetings we can better plan, communicate, collaborate and contribute to the AES by meeting more frequently and include those who cannot attend all the conferences.

2019 International Conference in Dublin, Ireland, March 20 – 23

We have been given a Workshop/Tutorial Session titled “Impact of Distortion and its Audibility in Automotive Audio” (or something close to this!). Discussed which approach would be better, distortion on a system level or broken down to component level. Decided component level would be best because of unique way distortion manifests itself in each component and how this is perceived (ex. harmonic vs intermodulation)

Possible topics of panel discussion (trying to keep more unique to automotive applications):

Causes of distortion

- Electronic
- Loudspeaker
 - o Max SPL determination (Steve Hutt and Wolfgang Klippel possibly working on)
 - o Speakers unique to automotive (ex. shallow)
- Buzzes, Squeaks, Rattles
- Environmental factors (might be outside scope of this Session, consider for Automotive Audio Conference in Sept 2019)
 - o Extreme Heat
 - o Extreme Cold
 - o Noise floor (high for some vehicles, low for others and how this translates to listening levels inside the vehicle)

Perception of Distortion

- Linear vs non-linear
- Psychoacoustics
- Signal compression
- Providing examples

Test Signals

- Differing types
 - o What do they reveal
 - o Correlation to audibility

Steve Temme agreed to be part of the panel discussion and focus on test signals to measure distortion and relate it to audibility. Steve also suggested two other possible panelists with experience in psychoacoustics and will forward information to Alfred. **If anyone is interested in being part of the panel please contact Alfred or Pat**

2019 Automotive Audio Conference, TBD, Germany, September TBD

Alfred mentioned that we have been given the OK from AES to hold the conference. First committee meeting held 12/13/18. Reviewed themes and discussed possible dates and will begin to determine possible topics for papers, workshops and tutorials.

If you would like to present or have ideas for Workshops/Tutorials please contact Alfred or Pat

Next Web Meeting – February 12, 2019

Report status on:

- Distortion Workshop/Tutorial Session at 2019 International Conference in Dublin, Ireland
- 2019 Automotive Audio Conference in Germany