



AES Technical Committee on Loudspeakers and Headphones

Meeting Notes:

AES 14^{2nd} Berlin, 21/May/17 11:00

Chair: Steve Hutt

Vice-chair: Juha Backman

Attendees:

• 21 Colleagues attended the meeting.

Trends:

- Micro speakers
 - the trend towards wireless was raised with questions of bandwidth & whether USB C
 & lightning bolt will continue to be available. USB Type C standard was just released w/21/17.
- Headphones
 - Continue to grow with numerous variants.
 - VR is expanding the potential headphone market.
- Hi Resolution Audio
 - The trend of Hi Res Audio has an interest and impact on loudspeakers and headphones.
 - A workshop is planned for 143rd in New York (see below)

Workshops:

- 142nd May/17.
 - Time domain measurement and analysis.
 - Hans van Maanen. Mike Turner & David Griesinger presented an excellent workshop.
 - Time response and temporal resolution are controversial topics in sound reproduction. In this workshop a theoretical analysis will be accompanied by the results of listening experiences on the lower end of the audio range and at the

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higher end. The background is that the temporal relation between the different tones, which make up complex sounds like attacks, need to be conserved to create a viable reproduction of the original sound. Many systems do not preserve a correct time relation (e.g., cross-over filters in loudspeakers, base-reflex systems, and reconstruction filters in digital audio). The aim is to identify the audibility of such timing errors.

- 143rd Oct/17.
 - Hi Resolution Audio Loudspeakers & Headphones
 - Andy Lewis is organizing this workshop to explore Hi Res Audio & its relevance to loudspeakers & headphones at the 143rd.

Conferences:

- 2017 AES International Conference on Automotive Audio will take place 8-10/Sep/17 in Burlingame, CA, USA
 - http://www.aes.org/conferences/2017/automotive/

Standards Liaison:

- IEC 60268-21 is progressing with development of Part B, systems.
- SC04-03:
 - AES2-2012, to be re-affirmed Oct/2017. Discussions of recommended edits & updates for a revised version target 2018 has begun. Please be sure to join SC04-03 to participate.
 - x241 End-of-Line Component testing sub-committee chair Richard Stroud has formed a
 first draft. Dr. Farina has developed a survey to attain perspectives of importance for eol
 testing. Take the survey at: https://docs.google.com/a/aidasrl.it/forms/d/11qWcvzl0ik-lonw9LB4XVemzCS-X-_uUjRiCn155FgY/edit?ts=590c403d
 - Please be sure to join SC04-03 to participate in standards discussions.

New Topics:

• None.

Next Meeting:

• AES 143rd New York, Oct, 2017