

Minutes of the AES Technical Committee on Coding of Audio Signals

1) The meeting was called to order after the 153rd AES Convention, as a Virtual meeting over zoom, at 17:00 CET, Wednesday November 2, 2022 by Jürgen Herre, co-chair.

The agenda was approved, as shown in Annex 1. The chair welcomed attendees, shown in Annex 2.

The minutes of the last TC meeting had been posted on the TC email reflector and then uploaded to the TC web site.

The chair extended a warm welcome to the new US vice chair, Jan Skoglund, who replaces Schuyler Quackenbush. Jan introduced himself to the group and provided a brief overview of his past activities in the audio coding field, including coding of Ambisonics signals. Thank you to Schuyler Quackenbush for all the years of continued service!

2) Status "What To Listen For" tutorial project & publication

The project editor, Sascha Dick, presented the current project status and anticipated next steps for the free publication of the tutorial on an external web site hosted by International Audio Laboratories Erlangen (www.audiolabs-erlangen.de) (slides attached). The main focus is to build a landing page with introduction, tutorial access for both download and web browsing and promotional material (link to YouTube Video) that is consistent with AES corporate layout.

The workplan was discussed. The implementation of AES layout can be learned from "Streaming Loudness Web Site" of the TC on Broadcast and Online Delivery (BOD). Still, this may require help from the AES Web team / Copperleaf. Jürgen Herre and Sascha Dick will work on this. Once the landing page is ready, we will be asking IEEE TCs, universities, and other mailing lists to linking to it as a useful resource for all researchers in the field.

3) Discussing the activities for the current AES convention, there were two TC-sponsored workshops:

- Online workshop on "What is going on at MPEG? Audio? About Virtual Worlds, Quality Evaluation & More" (Jürgen Herre, Thomas Sporer, together with TC-PSEAS). As usual, the slide deck will be uploaded to the TC-CAS web site.
- On-site Workshop on Perceptual loss functions for machine learning (Gerald Schuller and others, together with TC-MLAI). The accompanying material will appear on the TC-MLAI web site, and there could be a link from the TC-CAS web page.

This convention's Heyser Lecture was given by Gilbert Soulodre with a talk on DSP for audio at the in-person part of the AES convention in New York.

4) The committee discussed about events that the TC might sponsor or contribute to at the upcoming convention (154th) in Finland. The following activities were planned or envisaged for the Coding TC:

- A European edition of the "What's going on at MPEG Audio?" workshop with an updated snapshot of the evolving MPEG-I Audio activities
- Also a repetition of the workshop on perceptual loss functions was considered, given that there was a full attendance in New York and the workshop is not available online.
- In previous TC meetings, the idea on a workshop on Online Music Making had been discussed, including low delay audio coding, but also the practical use and usability of such systems. Christof Faller will follow up on this idea, contact relevant persons and inquire their availability for a workshop or tutorial. Christof could chair the event.

5 – AOB) In the last TC meeting, the TC had proposed that the editor of the "Perceptual Audio Coders - What To Listen For" Web Edition tutorial (S. Dick) be nominated as an AES awards candidate for the incredible amount of diligent work he had spent on creating the package. The TC's nomination was put into action by the chair and was taken up well by the AES awards committee: Sascha Dick has been elevated to AES fellow – congratulations, Sascha!

Furthermore, it was noticed that the AES TC Meetings announcements that had previously been published as part of the convention program, were no longer available in the Online program which makes it practically impossible for interested people outside the AES TC to attend. This is of concern and needs follow-up by the chairs and the AES Technical Council officers.

6/7) The next meeting will happen in conjunction with the 154th AES convention. The discussed the advantages of a hybrid on-site / online meeting to increase participation. This needs technical support to provide appropriate acoustic pickup and monitoring for online participants – will be investigated further.

The TC meeting was adjourned at 18:07 CET.

ANNEX 1 – Agenda

AES TC on Coding of Audio Signals

Wed, Nov 2, 5-6pm CET

153rd AES Convention

- 1) Approval of Agenda & Opening Remarks of Chairman
- 2) Status "What To Listen For" tutorial project
- 2) Review of activities for current convention
 - Richard C. Heyser Memorial Lecture Series
 - Other activities
- 3) Review of / proposals for activities at upcoming conventions, conferences, workshops etc.
- 5) Any Other Business
- 6) Next Meeting
- 7) Closing of the Meeting

ANNEX 2 – Participants

Name	Company
Jürgen Herre	International Audio Laboratories Erlangen / Fraunhofer IIS
Sascha Dick	International Audio Laboratories Erlangen
Jan Skoglund	Google
Gerald Schuller	TU Ilmenau
Christof Faller	Illusonic

Perceptual Audio Coders “What to Listen for - The Web Edition” Publication Status Update

Sascha Dick, Jürgen Herre

Recap

- Current publication status of “What to Listen for - The Web Edition”
 - Available to AES Members for free as a membership benefit since 2021
 - Originally, paid distribution via AES library for non-members was envisioned, but repeatedly delayed due to technical difficulties
- Planned publication
 - At AES 152nd TC-CAS meeting, it was decided to make the content available for free for everyone
 - Content will be hosted on an external web site by AudioLabs Erlangen

Next Steps

- Set up web domain (sub-domain for audiolabs-erlangen.de)
- Draft Landing Page:
 - Welcome & General Info
 - Links to Web Version, Download Version & YouTube Video
 - Layout is AES-style
=> copy style from TC-BOD - "Streaming Loudness Web Site"?
- Update tutorial version number, date, foreword, ...?
- New version of YouTube promotional video
- Links from TC-CAS Home Page and Audiolabs resources page
- Links from other non-AES pages (IEEE, ...)