Minutes of the 135th AES Technical Committee Meeting on Coding of Audio Signals

Meeting was called to order at the 135th AES Convention, New York, at 2:10PM, Friday October 18th, 2013 by Schuyler Quackenbush, co-chair.

The agenda was approved, shown in the Annex-1. The chair welcomed attendees, shown in Annex-2, and thanked them for participating in the TC meeting. He noted that the minutes of the last TC meeting at Rome had been posted on the TC email reflector. Since there were no comments, the Chair took the minutes as approved and uploaded them to the TC web site.

The Chair noted the activities at the 135th convention that were specifically sponsored by this TC and also noted other coding-related events.

Future Activities

The Chair and attendees brainstormed about workshop and tutorial sessions that the TC might sponsor at upcoming conventions (the 136th AES in Berlin, 26-29 April, 2014 and the 137th AE in Los Angeles, 9-12 October, 2014). After some discussion it was agreed to pursue the following ideas:

136 AES, Berlin

- Thomas Sporer, FhG-IDMT, would take the lead on a tutorial and technology demonstration on Wavefield Synthesis with 7kx2k video that would be held at FhG-HHI (Berlin). Because capacity is rather small (15 persons), this could be run as several sessions in one day, or one session for each of several days. The format could be:
    - 20 min talk on WFS by IDMT
    - 20 min talk on video by HHI

  TC-CAS should reach out to the TC-SDCTV (Sound for Digital Cinema and Television) to see if there is interest in co-sponsored this event.

137 AES Los Angeles

The Chair noted that MPEG-H 3D Audio would effectively be finished in July 2014. There could be three events presenting the 3D Audio technology:

- Schuyler Quackenbush, ARL, would take the lead on a tutorial and technology demonstration of the **Home Theatre** use case. The session room would have a 22.2 or 11.1 sound system that could be used for demos. This room might have to be shared with other sessions to make a better case for the expense of setting up the sound system. Topics for tutorials and demos could be:
    - 22.2 channel broadcast at 1.2 Mb/s, 512 kb/s and 256 kb/s
    - Flexible rendering to sub-set of speakers
    - HOA and Channels and Objects

  Participating companies could be
    - FhG-IIS
    - Technicolor

- Aki Harma, Philips, would take the lead on a tutorial and technology demonstration of the **Personal TV** use case. This would focus on MPEG-H 3D Audio Version 2. Topics for tutorials and demos could be:
    - Crosstalk cancellation
    - Frame based speakers

  Participating companies could be
    - Philips
    - FhG-IIS
    - NHK?
- Clemens Par, Suissaudec, would take the lead on a tutorial and technology demonstration of the **Mobile TV** use case. This would focus on MPEG-H 3D Audio Version 2. Demonstrations would be at lower bitrates and listening over headphones.

  Participating companies might be:
    - Swissaudec
    - Orange?
    - Huawei?
    - Samsung?

After the activities discussion, there was no other business. The TC meeting was adjourned at 3:00 PM.

AES TC on Coding of Audio Signals
Room 1E-04,
Friday, October 18, 2:00 pm — 3:00 pm
135th AES Convention
New York, Jacob Javits Center

Agenda

1) Approval of Agenda
2) Opening Remarks of Chairman
3) Interesting sessions in 135th Convention
    - Thu 10:30 T3 - 3D Audio—Experience the Sound of the Future
    - Thu 12:00 W6 - Height Channels: Theory, Practice, and "Ears-On" Experience
    - Thu 02:30 W7 - Design and Usage of Anchors in Listening Tests for Audio Quality Evaluation
4) Richard C. Heyser Memorial Lecture Series
    - George Massenburg
5) Other activities
6) Review of / proposals for activities at upcoming conventions, conferences, workshops etc.
    - 136th Convention?
    - 137th Convention Los Angeles
        - Tutorial on MPEG 3D Audio, with 11.1 or 22.2 sound demos?
7) Any Other Business
8) Next Meeting
9) Closing of the Meeting

ANNEX 2 – Participants

Name	**Company**	**Email**
Schuyler Quackenbush	Audio Research Labs	srq@audioresearchlabs.com
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