Minutes of the 137th AES Technical Committee Meeting on Coding of Audio Signals

Introduction

The meeting was called to order at the 137th AES Convention, Los Angeles, at 10:00AM, Saturday October 11th, 2014 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 had been posted on the TC email reflector. Since there were no comments, the Chair took the minutes as approved.

The Chair noted the activities at the 137th convention that were specifically sponsored by this TC and also noted other coding-related events.

Possible Future Activities and Discussion

Brian McCarthy reported on an upcoming AES conference:

> 57th Conference, AES Sound for Pictures, March 6-8, 2015

This will be a 3-day conference that provides an introduction to the basics of

- Acoustics
- Intelligibility
- Immersive sound

He encouraged coding specialists to attend and present:

- Demos (especially to dispel the myth that "compressed audio sounds bad"
- Papers

He also offered the possibility of a 2- or 4-hour workshop on MPEG-H 3D Audio. This must be proposed with all details by the end of November. Brian can be the contact for any such proposal. He suggested that a workshop could cover "How does this simplify your life" and be customer focused. Demos will be included. The conference and demo space will be inside a movie theater. Interface is assumed to be 5.1, but might be more, perhaps including height speakers.

The Chair and attendees brainstormed about workshop and tutorial sessions that the TC might sponsor at upcoming conventions (138th Convention, Warsaw, Spring 2015) After some discussion it was agreed to pursue the ideas discussed below.

Juergen Herre offered to organize a workshop at the 138th Convention on the topic of MPEG-H 3D Audio. This could be presentations by multiple experts, possibly on the following topics:
- Use cases and applications
- Input signals
- Compression engine
- Rendering engine
- Binauralization

- Meta-data
- Market adoption
- Recommended practice

Bob Schulein asked if there is interest in some presentation of high definition audio in Hollywood and also in audio codecs. Follow-up points were:
- What is production and distribution chain or work flow for audio?
- What is re-distribution chain for audio?
- In this chain, is there a greater concern for sound stage distortion or for waveform distortion?

Karlheinz Brandenburg noted that he would be willing to give a short talk (possibly as part of a panel or workshop) on the "History of Audio Subjective Testing." For example, this could include the Swedish Radio testing for MPEG-1.

The Chair noted that the TC should make recommendations of persons to receive AES awards, including promotion to AES Fellow.

There was no other business. The TC meeting was adjourned at 11:00 AM.

Summary of Action Items:

- Juergen Herre will lead organizing an MPEG-H 3D Audio workshop at the 138th Convention and consider if this could also be applicable for the 57th Conference.
- Schuyler Quackenbush will post to the TC-CAS email reflector a summary of how to nominate candidates.

ANNEX 1 – Agenda

AES TC on Coding of Audio Signals
Room 405,
Saturday, October 11, 10:00 am — 11:00 am
137th AES Convention
Los Angeles Convention Center, Los Angeles

Agenda
1) Approval of Agenda
2) Opening Remarks of Chairman
3) Review of recent AES events
    - 5th International Symposium
      New Trends in Audio and Video
      September 25-27, 2014
      Wroclaw University of Technology
4) Notice of upcoming AES conferences
    - 57th International Conference
      The Future of Audio Entertainment Technology – Cinema, Television and the
      Internet, 57th International Conference
      Hollywood, CA, USA
      March 6-8, 2015
5) Proposals for activities at upcoming conventions, conferences, workshops etc.
    - 138th Convention, Warsaw, Spring 2015
    - 139th Convention, New York, Fall 2015
6) Any Other Business
    o Awards
    o New standards
7) Next Meeting
8) Closing of the Meeting

ANNEX 2 – Participants

Name	Company
Schuyler Quackenbush	Audio Research Labs
Juergen Herro	FhG-IIS/IAL
Karlheinz Brandenburg	TU-Ilmenau/IDMT
Gerald Schuller	TU-Ilmenau/IDMT
Brian McCarty	Coral Sea Studios
Nils Peters	Qualcomm
Takehiro Sugimoto	NHK
Kasuho Ono	NHK
Bob Schulein	
Jacek Stachurski	DTS
Jeff Levison	Iosono
Bert Van Daele	Auro Technologies