

AES Technical Committee on Spatial Audio



Notes from the meeting of the TC at the 135th AES Convention, New York City

Date: Oct. 19 2013, 11:00-12:00

Meeting Chair: Nils Peters

Attendees:

Todd Welti	todd.welti@harman.com	Harman
Nils Peters	npeters@qti.qualcomm.com	Qualcomm Technologies
Clemens Par	mail@swissaudec.com	Swissaudec
Pete Soper	pete@meyersound.com	Meyer Sound Labs
Ville Pulkki	ville.pulkki@aalto.fi	Aalto University
Emanuël Habets	emanuel.habets@audiolabs-erlangen.com	Audiolabs Erlangen
Thomas Sporer	spo@idmt.fhg.de	Fraunhofer IDMT
Mathieu Parmentier	mathieu.parmentier@francetv.fr	France TV
Kirk Bushen	kirk.bushen@harman.com	Harman
Sungyoung Kim	sxkiee@rit.edu	Rochester Institute of Technology
Michael Kelly	mckelly@luminaudio.com	DTS
Schuyler Quackenbush	srq@audioresearchlabs.com	Audio Research Labs

Reports from past events

skipped

Activities at the 135th AES Convention related to the TC/spatial audio

A number of workshops and tutorials related to spatial audio happened during this AES Convention:

- Workshop “Applications of 3D Audio in Automotive”
- Workshop “Tools and Workflow for the Creation of Immersive Content”
- Workshop “Workshops with Height at NYU”
- Workshop “Practical Techniques for Recording Ambience in Surround”
- Tutorial “3D Audio—Experience the Sound of the Future” (Tom Ammermann)
- Tutorial “Auro 3D—Discovering the Ceiling for Stereo and Surround” (Malgorzata Albinska-Frank)

- further progress in standardizing the SOFA format for storing binaural data (AES-X212, AESSC working group AES SC-08-02)

Upcoming events

The following upcoming events have been announced by the chair/participants:

- *136th AES Convention*, Berlin, Germany. April 26 - 29, 2014; Proposal deadline: 9.12.2013
- *5th EAA Symposium on Auralization and Ambisonics*, Berlin, Germany 2014.
- *55th AES Conference on Spatial Audio*, August 27-29, 2014, Helsinki, Finland, deadline in March, (full papers)

Proposals for Workshops/Tutorials/Special Sessions

- the following list of proposals from the last TC meeting in Rome were mentioned, but since none of the proposer are present, there was not much discussion about:
 - Workshop “Definition of Objects in Spatial Audio” (Frank Melchior)
 - Workshop “Sound Design Tools” (Wieslaw Woszczyk)
 - Workshop “Reproducible Research in Audio” (Sascha Spors)
 - Tutorial “Introduction into Ambisonics Panning” (Franz Zotter)
 - Special Session “Psychoacoustics and spatial audio” (Sascha Spors)
 - Workshop “Atmosphere/Reverberation” (Christoph Faller)
 - Tutorial/Workshop on WFS/HOA (Sascha Spors)
- For the 136th AES Convention in Berlin:
 - There is a WFS system with 7 K video screen in Heinrich Hertz Institute, ideal for workshop for *Audio for immersive video*. (Thomas Sporer)
- For the 137th AES Convention in Los Angeles:
 - big interest from several TC SA members to host joint workshop with the CAS TC on *spatial audio coding*. with demos from different reproduction technologies (MPEG, AURO 3D, NHK, SwissAUDEC) and for different reproduction modes (cinema - ?, home theatre - Schuyler Quackenbush, tablet - Aki Harma, mobile devices - Clemens Par)
 - workshop/ special session/ tutorial on *3D Audio content production*, interesting topic due to proximity to Hollywood
 - *Assessment of spatial audio quality* (could be a series of Ws) (Matthieu Parmentier)
 - *Audiovisual cross-modal perception and quality assessment*, maybe co-organized with Perception TC. (Clemens Par)

Spatial Audio Glossary

is still work in progress. Members of the TC are invited to contribute. Please contact Sascha Spors.

Matthieu Parmentier reported on the activity at newly formed spatial audio group at the EBU and mentioned that the EBU specified a number of spatial audio terms for their new EBU meta data format. Those terms could be added to the Spatial Audio Glossary.

Technical Council Forum (Reminder)

For the TC, a discussion forum is provided on the website of the AES. You can reach the forum via “My Member Portal” when logged in on the AES website or by the direct link <https://secure.aes.org/forum/tc/sa/>.