AES Technical Committee on Spatial Audio

Notes from the meeting of the TC at the 138th AES Convention, Warsaw, Poland

Date: May 9 2015, 12:00-13:00
Meeting Chair: <u>Sascha Spors</u>, Nils Peters

Attendees:

Lauri Savioja	Emanuel Habets
Nils Peters	Christof Faller
Nuno Fonseca	Karlheinz Brandenburg
Kazuho Ono	Kimio Hamasakz
Turo Kamekawa	Todd Weli
Daniel Zimmermann	
Alexander Krüger	
Ville Pulkki	
Jürgen Herre	
Franz Zotter	
Thomas Sporer	
Matthieu Parmentier	

Reports from past events
- 57th AES Conference on The Future of Audio Entertainment Technology – Cinema, Television and the Internet, Hollywood, USA: Interesting contributions in the fields of base management, loudness, object-oriented audio, content formats
- 55th AES Conference on Spatial Audio, Helsinki, Finnland: see meeting minutes AES 137
- SMPTE Workshop in Europe: 1h session dedicated to audio
- SMPTE Award for Ville Pulkki

Activities at the 138th AES Convention related to the TC/spatial audio
A number of workshops and tutorials related to spatial audio happened during this AES convention:
- Workshop "Recent Developments in Sound Field Synthesis" (Sascha Spors, Ville Pulkki, Thomas Sporer, Filippo Fazi)
- Tutorial "Foundations and Practical Aspects of Sound Field Synthesis" (Sascha Spors, Franz Zotter)
- Tutorial "Main microphone techniques for 2.0, 5.1, and 3D audio" (Helmut Wittek)
- MPEG-H Workshop
- Spatial audio demos (Friday morning)

Upcoming events
The following upcoming events have been announced by the chair/participants:
- 139th AES Convention, New York, 29.10 – 1.11.2015, proposal deadline: around 20th May
- International Conference on Auditory Display (ICAD), 6.-10.7.20016, Graz, Austria

- 3rd International Conference on Spatial Audio, 18.-20.9.2015, Graz, Austria
- EAA Valencia, Virtual Acoustics and Ambisonics Symposium, 22.10.2015, Valencia, Spain.

Proposals for Workshops/Tutorials/Special Sessions
- 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)
- Assessment of spatial audio quality (could be a series of WSs) (Matthieu Parmentier)
- Audiovisual cross-modal perception and quality assessment, maybe co-organized with Perception TC. (Clemens Par)
- Tutorial "Spatial Hearing" (Ville Pulkki) targeted for New York, next European convention
- 3D Audio Production Contest, Hemispherical Playback System (Franz Zotter): Discussion of varios aspects: Conference? Convention Offsite? Size of targeted audience? Binaural: might not be an option, quality, wireless?
- Workshop on AES69 (Matthieu Parmentier) "Exchange of spatial data made easy" targeted for New York, next European convention
- Workshop "Signal Processing/Implementation of 3D Audio" (Christoph Faller)
- Workshop + Demo: "MPEG-H" (Jürgen Herre) targeted for New York, joint effort with TC-SA
- Workshop "Evaluation of spatial audio" (Thomas Sporer) joint effort with TC on perception

Other Business
- The German Acoustical Society (DEGA) has initiated a new working group on virtual acoustics, chairman is Fran Zotter, Sascha Spors is co-chairman
- Discussion on reproducible research: CD on audio coding artifacts for training, database on spatial audio distortions, binaural synthesis (Nils Peters)

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

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/.