

## Minutes of the AES Technical Committee on Coding of Audio Signals

14th Meeting called to order at the 116th AES Convention, Berlin, at 18:00, Mon 10 May 2004, by J. Herre, co-chair.

The standard agenda was approved (see annex).

The ongoing activities of the committee and other coding-related events were reviewed:

- There were 2 sessions on Audio Coding at the convention, plus a special session on the topic of “Spatial Audio Coding” all of which were well attended. These were complemented by a 2 hours tutorial on audio coding.
- A workshop on MPEG-7 Audio had been planned at the preceding meeting jointly with the TC on Semantic Audio Analysis. This workshop will be held shortly at the upcoming AES 25th Conference on Metadata in London, UK (it had been falsely listed for the 116th AES Convention in the last meeting report).

The TC activities for upcoming events were discussed next:

- 1) As envisaged at the recent meeting, a joint workshop with the Semantic Audio TC on “Evolution of applications in MPEG-7 Audio” is planned for the upcoming 117th AES Convention. This could comprise a brief look back at the initial MPEG-7 Audio applications and, as a main focus, describe new MPEG-7 Audio applications (some relevant applications were seen e.g. S. Nielsson / loudness computation and Uhle / rhythm transcription). Mark Sandler will follow up on this and contact potential presenters and the 117th workshop chair.
- 2) Also as discussed at the recent meeting, a proposal for a workshop on formal and de-facto standards in lossless audio coding (including the new MPEG-4 technology) was put forward to the 117th workshop chair. As of the time of the TC meeting, the status of the proposal was not yet confirmed. Once the workshop is approved, Juergen Herre will assemble a workshop panel.
- 3) A new idea emerged about a workshop on “how to carry multi-channel sound via stereo channels to consumers” which would include a view of different system as they evolved over time (e.g. Dolby Stereo / Surround / Prologic, MPEG-2 BC, MP3 Surround / Spatial Audio Coding, possibly Ambisonics). Juergen Herre and Christof Faller to check with Mark Davis as a potential chair and to draft & submit an abstract to the 117<sup>th</sup> convention committee.
- 4) For the 118<sup>th</sup> AES convention in Barcelona, another event reflecting upon the progress in the MPEG standardization activities on Spatial Audio Coding would be timely (the MPEG meeting schedule does not allow for an appropriate reaction already at the 117<sup>th</sup> AES Convention). Specifically, a paper session on this topic (possibly also including invited papers) is envisaged. The topic of Spatial Audio Coding could even be one of the paper submission categories for the Barcelona Call for Papers – this requires communication with the convention committee.

Any other business (AOB): At some of the earlier AES Conventions in New York, an invited paper was presented on the Coding TC's CD ROM on perceptual audio coding artifacts. This paper is soon to be published in JAES, the individual authors will be contacted by the JAES editorial staff and asked to review their parts!

The next meeting will be held in conjunction with the upcoming AES 117<sup>th</sup> Convention in San Francisco in October 2004.

The meeting was adjourned at 6:45pm by consensus.

## **Annex I: Agenda**

- 1) Approval of Agenda
- 2) Opening Remarks of Chairman
- 3) Review of recent activities for current convention / conference
  - Richard C. Heyser Memorial Lecture Series
  - MPEG-7 Workshop (joint with Semantic Audio TC)
  - Other activities
- 4) Review of / proposals for activities at upcoming conventions, conferences, workshops etc.
  - 117<sup>th</sup> AES convention San Francisco
- 5) Any Other Business
- 6) Next Meeting
- 7) Closing of the Meeting

## **Annex II: Attendees:**

Name	Company
Christof Faller	Agere Systems
Erik Schuijers	Philips DSL
Frank Baumgarte	Apple Computers
Gerald Schuller	Fraunhofer IDMT
Hossein Najaf-Zadeh	CRC
Imre Varga	Siemens
Ingemar Johansson	Ericsson AB
Joshua Reiss	Queen Mary University of London
Juergen Herre	Fraunhofer IIS
Karlheinz Brandenburg	Fraunhofer IDMT
Mark Sandler	Queen Mary University of London
Markus Erne	Scopein Research
Thomas Sporer	Fraunhofer IDMT
Tilman Liebchen	TUB
Werner Oomen	Philips DSL