

AES Technical Committee on Spatial Audio



Meeting Notes from the TC meeting at the 153th AES Convention, virtual

Date: October 31, 2022, 11 AM - noon Eastern Time

Attendees:

- Todd Welti
- Francois Becker
- Wieslaw Woszczyk
- Jean-Marc Jot
- Nils Peters

Chair: Jean-Marc Jot and Nils Peters

1. Welcoming new Co-Chair Jean-Marc Jot

2. Activities at 153rd AES Convention:

- Links to program tracks dealing with spatial/immersive audio:
[Spatial Audio](#) | [Immersive & Spatial Audio](#) | [Recording Production Technology and Practices](#) | [Room Acoustics](#) | [Applications in Audio](#) | [Game Audio](#) | [Skill Building Sessions](#).

3. Report from recent Spatial Audio events:

- Schoeps Mikroforum (Karlsruhe, Germany), June 9~10, 2022
- **AES International Automotive Audio Conference (Detroit) – June 8~10, 2022**
- **AES International Conference on Audio for Virtual and Augmented Reality - AVAR (Redmond) – August 15~17, 2022 [program overview]**
 - keynotes available via youtube:
 - <https://www.youtube.com/watch?v=9ngwhfF0FhA>
 - <https://www.youtube.com/watch?v=42vWlJinKGc>
 - <https://www.youtube.com/watch?v=i4BaPE3DKgg>
- [Three Engineering Societies' Perspectives on Multi-channel Audio and Psychoacoustics \(Webinar\) – September 15, 2022.](#)
- [International Congress on Acoustics - ICA \(Geongju, Korea\) – October 24~28, 2022](#)

4. Upcoming Spatial Audio events:

- [AES Immersive Audio Academy #4](#) – **November 10, 2022**
- [DAGA 2023](#) (Hamburg, Germany) – March 6~9, 2023
- [AES Spring Convention, \(Helsinki, Finland\), May 13~15 2023](#)
- [IEEE International Conference on Acoustics, Speech, and Signal Processing - ICASSP](#) (Rhodes Island, Greece) – June 4~9, 2023
- [ICAD 2023](#) (Norrköping, Sweden) – June 26th ~ July 1st, 2023
- [AES Conference on Spatial Audio \(Huddersfield, UK\) – August 23~25, 2023](#)
- [International Conference on Immersive and 3D Audio - I3DA](#) (Bologna, Italy) – September 5~7, 2023.
- [Tonmeistertagung 2023](#) (Düsseldorf, Germany) – November 8~11, 2023

5. Proposals for Workshop/Tutorials/Special Sessions or Conferences

- Preparation for Helsinki Convention
 - Proposal Deadline for next convention in Helsinki: probably in January
 - Workshop on [Binaural Technology] (working title)
Jean-Marc intends to submit (recalling that C. Faller expressed interest :-)
topics may include the below
 - Current state, recent advances in this domain:
 - Relevant technology commercialization trends
 - New findings in spatial perception
 - Externalization/Distance
 - Room dissonance/divergence, accuracy vs. plausibility in room simulation
 - HRTF and HPTF personalization, training/adaptation
 - Multimodal spatial perception
 - Screen size vs. immersion
 - Hearing loss and spatial perception
 - ...
- Review of 151st meeting minutes:
- Challenges in Spatial Audio for gaming (together with TC of Gaming Audio
 - contact Patrick Flanagan
- A recurring tutorial on the basics of spatial audio would be needed
 - Ville Pulkki has material
- Tutorial or workshop focused on immersive site-specific installations:
 - China's shows, Radio France multi-immersive productions, museums and other specific experiences like escape rooms
 - contact Jeff Levison

- On the impact of low bit-rate codecs on spatial perception
 - joint workshop with TC for Audio Coding
- Panel discussion on the “differences and commonalities of spatial audio and immersive audio”
 - Steve Hunt

AOB

- Awards
 - AES awards and fellowships recommendations are open
 - further information under www.aes.org/awards

Closing of meeting around 12:10 PM Eastern Time