

Notes for High Resolution Audio Technical Committee meeting
AES 143rd Convention, New York City Oct. 20th, 2017

Attending were:

Josh Reiss QMUL
David Rich
Brecht De Man QMUL
Cleopatra Pike University of St. Andrews
Hyunkook Lee Huddersfield University
Oles Protsidym ProStudioMasters
David Jones Consultant
John Dawson Consultant to Arcam
Vicki Melchior DSP Consultant

Discussion began with comments on notable presentations at the convention including a well-received panel by the Recording Academy P&E Wing titled “High Resolution Record Production and Why it Matters” (RP06), highlighting their new 40 page white paper on high-res recording best practices. The paper was mentioned in several other workshops too and is available for download:

https://www.grammy.com/sites/com/files/pages/recommendations_for_hi_resolution_music_production_05_10_17.pdf

Other notable convention events included a white paper by Malcolm Hawksford on a possible algorithmic/ filtering approach to reduce the time dispersion of audio signals compared with conventional LPCM or minimum phase filters (paper 9811, available from the AES e-library) and a workshop headed by Bob Ludwig on “Mastering for the New Paradigm: High Resolution Audio, Streaming, and High Resolution Streaming” (SE8, recorded version purchasable as a download).

A second area of discussion was events we plan to sponsor in Milan, and then future workshop ideas. For Milan there are three possibilities:

Jamie Angus will give a tutorial on “Modern Sampling Methods”.

John Dawson may give an updated version of his previous tutorial (2014) on amplifier design.

Hans van Maanen mentioned a possible follow-on to the workshop he organized last spring in Berlin on “Perception of Temporal Response and Resolution in the Time Domain”.

A future workshop might deal with “basics of high resolution” and be tutorial in nature, covering a range of non-controversial but solid introductory topics. Included could be: auditory aspects, sampling, among others. Presenters could include Cleo, Jamie, Recording Academy members, Josh etc

Finally, two sets of high res listening tests currently in progress were discussed, one involving Josh, Hyunkook and Brecht, and the other involving Richard King at McGill and Oles.