AES Technical Committee on Loudspeakers and Headphones

TC-LH 144th Meeting Notes:

Chair: steve hutt
vice Chair: Juha Backman

• Trends:
  • DSP to correct for transducer non-linearities,
    • some dsp is uses for peak management.
  • *Micro speakers*
    • Mobile devices continue to press demands for micro speakers.
    • Fraunhofer have a piezo mems
      application may be a challenge, 10k Fs, useful to ~3kHz.
  • Headphones
    • Continue to grow with numerous variants.
    • VR is expanding the potential headphone market.
  • Hi Resolution Audio
    • The trend of Hi Res Audio has an interest and impact on loudspeakers and
      headphones.
    • Hans - comment - time resolution is critical.
    • John Watkinson developed a measurement system to measure loudspeaker output
      in bits/second
  • 3D sound
    • Atmos 3d etc.
      • some consumer products reflect sound off ceiling.
      • specification continues development.
  • Smart Speakers:
    • Huge trend.
    • Are or Can they be self calibrating?
  • New technologies:
    • Watakinson virtual points source with acoustic mirrors.
• Tim Mellow - point source electrostatic.

• Workshops:
  • Interest in a workshop on life testing and power amplifier requirements
    • Could be an interesting discussion, follows on idea presented at 143rd that chair
      failed to follow up on.
      • John Dawson volunteered to participate.
  • Hans van Maanen will explore doing a workshop on bass reflex.
    • Would be a follow up to Hans' workshop in Berlin.
    • time vs. freq.
      • Geoff Hill offered to do some testing to acquire data.

• Standards Liaison:
  • SC04-03:
    • AES2-R has begun discussion - drivers only.
    • x168 first draft is launched - in parallel discussion with AES2-R.
    • x223 - test chambers
      • ID draft in process, still some discussion before consensus
    • x241 - drier end of line test standard
      • will refer to x223 for chambers
      • tolerance data being developed.

• New Topics:
  • None

• Next Meeting:
  • 145th Oct/18