Google Chrome users: be sure to refresh your browser window to get the latest content.

ES Audio Engineering Society - Pacific Northwest Section

Around the Puget Sound, Seattle, Washington, U.S.A.

AES PNW Section

January Meeting Notice

Dynamic Range - How LOW can you go? (Or... What does soft mean, and what does loud mean?

)

Presented by JJ Johnston Consultant and The AES PNW Section

Wednesday, January 29th, 7:30pm Digipen Institute of Technology, VanGogh Auditorium

Directions to Digipen Institute of Technology

What is Dynamic Range? Does it have anything to do with dynamic sound, or music? Aside from electronic and digital definitions of equipment performance, there doesn't seem to be much of a definition. Even in the measurement field, there are some issues regarding digital equipment, and the difficulty of determining an accurate measurement. Then again, is this constant across frequency? Ever used a tape deck, or an LP, or any equipment with a delta-sigma DAC or noise shaping, or even heavy feedback?

- In terms of what we hear, the situation is much more confused.
- Is dynamic range a short-term thing?
- Is it some measure of the recorded signal?
- Is it some measure of the loudest to softest parts of a track?

What is it? Well, it's not defined.

In this talk, we'll talk a bit about the measurement field and that will lead into a discussion of how one might characterize (not with one number, that never flies in the perceptual world) signal dynamics and dynamic range.

Along with this, a simple, not terribly inaccurate measure of loudness operating through <u>Octave</u> (software) will be introduced in order to make some approximate measurements of loudness as it would pertain to the present understanding of human hearing. Interestingly, this question ties in directly to the question of measuring instantaneous loudness vs. "mean level" in any perceptual sense, but that is an issue for Q/A.

Dave Tosti-Lane

AES PNW 2013-2014 Section Chair

n.b. The material presented at our meetings is the opinion of the presenter and not necessarily that of the Society. You are encouraged to conduct your own research and to form your own opinions before adopting the presented material as Truth.

Our meetings are open to anyone interested in Audio. AES membership is NOT required for you to attend our meetings.

Chairman Dave Tosti-Lane	Vice- Chairman Steve Malott	Secretary Gary Louie	Treasurer Greg Mauser	Aurika Hays, Membership Rick Chinn, Webmaster	Refer to the contact info		nd Committ	ee contact I	ist for
Program Committee									
Committee 1 Bob Smith	2 Mark	Committee 3 Scott Mehrens	Committee 4 Lawrence Schwedler	Committee 5 Daniel Casado	JJ 6	Committee 7 Dan Mortensen	8 Dr. Ivan	Committee 9 Dr. Michael Matesky	Commmittee 10 Rich Williams

Last modified 09/11/2013 17:14:36.