

Around the Puget Sound
May Meeting Notice
System Interfacing
with
Bill Whitlock
Jensen Transformers

Sponsored by the AES PNW Section

May 24, 2005. 7:30pm
Shoreline Community College Music Building

Bill Whitlock is justifiably famous for his work in getting rid of the hums and buzzes in audio systems and for freely distributing that knowledge to the audio community. Bill has presented to our section before, and each time he has presented to an SRO crowd. It's also no secret that transformers are often the solution to these problems, nor that Bill's company, Jensen Transformers, makes premium examples of this component. Although Transformers-R-Us might well be found on Bill's calling card, he has developed a unique (and patented) balanced input circuit that quite possibly delivers most of the advantages of a good transformer without the attendant cost.

Here's a rough outline of our May Meeting:

1. Basics of Interfaces
 - a. the "facts of life" about the power line and grounding
 - b. the difference between unbalanced and balanced interfaces
 - c. why even the best unbalanced interface is so bad
 - d. why balanced (in theory) completely rejects noise
2. Real-World Balanced Interfaces
 - a. definitions and terminology
 - b. the "facts of life" about balanced outputs
 - c. what makes diff-amps so unpredictable in the real world
 - d. what makes a good transformer near-perfect
 - e. properties required for a near-perfect receiver
3. The InGenius® Balanced Input Stage
 - a. basic principle of bootstrapping
 - b. how it works as a receiver
 - c. practical aspects of the production IC
 - d. a clever feature to fight RF interference
4. Mixed Interfaces and How to Mess Them Up

- a. unbalanced output to balanced input
- b. the variety of balanced output circuits
- c. balanced output to unbalanced input
- d. how to "clean up" an unbalanced interface

5. Questions and Answers

Last modified April 18, 2005.