

AES Audio Engineering Society - Pacific Northwest Section

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

September Meeting Notice **Some Lesser Known Facts About Digital Audio** **Dan Lavry - Lavry Engineering** **7:30 PM, Friday, September 29th 2006** **Glenn Sound Recording** **228 Dexter Avenue North** **Seattle, WA 98109**

[Directions to Glenn Sound](#)

There are a lot of lesser known but interesting tidbits of information regarding digital audio that a lot of us normally do not think about. For example, have you ever wondered how different S/PDIF cables could actually sound (and measure) differently?

Dan Lavry is an electronic circuit design genius and an innovator in digital audio.

His work goes back to the early 70's when he began to acquire basic design skills designing circuits for telephone traffic measurement gear. Some of Dan's previous work includes; high speed digital circuits, wide band precision analog, system architecture with such state of the art designs as a high speed IC test systems for IBM and Toshiba, time interval generator (programmable down to 10ps steps) for Hughes, AD converter (8 bits at 100MHz) for EH research, about a dozen magnetics and switching power supply designs for the telecom industry, pioneering contributions in load sharing supplies and early work in low dropout regulator ICs; high dynamic range design of front end amplifiers (gain up to a million), programmable filter and isolated AD for Nicollet biomedical, an array of AD and DA converters for instrumentation, medical and telecom industries (HP, ITT, ATT, GE, Siemens and more).

As a mature designer, Dan acquired an appreciation for timing accuracy, including jitter issues when designing some specialized tail pulse generators for physics research labs. He then spent a few years designing super accurate time interval meters for the aviation industry. That project was all about fine timing, clocks and low jitter issues.

With his background in conversion, and a love for music, he got into audio in the early days of digital audio. Dan's first design was an early 16 bit stereo AD and 18 bit DA. Early products that were designed for Analog Solutions were sold to companies such as Ampex, Otari, New England Digital and more. Ultra Analog, who manufactured Dan's DAC module under the name DAC D20400, sold modules to OEMs Wadia, Pacific Microsonics, Mark Levinson and others.

Dan partnered with Apogee Electronics and designed the electronics for the first Apogee AD-500 and DA1000 and contributed nearly 2 years into the dither project with his mathematician friend, Jerry Goodwin.

For the last 14 years Dan has been designing conversion equipment for his own company, Lavry Engineering, formerly known as dB Technologies. The company name, dB technologies, was changed in 2002 to [Lavry Engineering](#). His current designs incorporate many proprietary and innovative features ranging from his newer and much improved dither, ABC Acoustic Bit Correction, Crystal lock (the best jitter reduction), to ground breaking performance and unique architecture and circuitry for his AD's, DA's, sample rate converters, microphone preamplifiers and more. The Gold series converters are used by many engineers as well as major mastering and recording facilities. The introduction of the lower cost configurable units (from stereo to multi channel) Lavryblue conversion and LavryBlack products, makes Lavry quality products accessible to a larger number of users. Dan's favorite design remains his Gold DA924.

Join us for a stimulating and informative evening with Dan Lavry as he shares interesting and lesser known tidbits of information about the complicated world of digital audio that we work and live in.

We'll see you on the 29th! In the meantime, ***Audio!***

[Directions to Glenn Sound](#)

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.

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