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Audio Engineering Society – New York Section

MEETING NOTICE

Tuesday, October 18, 2005 – 7:00 P.M.

Please come to the “Meet and Greet” at 6:30 PM.

Jazz Performance Space

The New School University

55 West 13th Street, 5th floor (bet. 5th & 6th) New York, NY 10011

Hardware Emulation, Software Magic

How does a picture of a compressor get to act like not just a compressor but also a famous compressor?

Presenters: **Dave Amels**, Bomb Factory Digital

Host: **David Prentice**, Video Corporation of America

Admit it. You think software is magic. You love or hate a design, use it or not, and click and drag to make changes but you really don't know how that screen got there. The audio industry grew up on hardware with circuitry design, electronic components, knobs, meters, and machined metal. Some of those designs have emerged as classics due to their function and audio characteristics. The operation of those devices was familiar to most audio professionals who used them as outboard gear and the designs, even if you were unfamiliar with the actual circuitry, could be traced out with the familiar components of resistors, capacitors, and power supplies.

Software applications have experienced a tremendous growth in the audio industry in the past decade and with software increasingly substituting for hardware, operators have become familiar with the function and audio characteristics of the new “outboard”. But this type of signal processing is different from the hardware models because there is no way to measure the resistance across a point or trace a circuit through a gain stage. So what's behind the screen that shows you a picture of a classic piece of hardware emulating sonics, operation, and control? That's the question for the October Meeting.

Dave Amels is an electrical engineer, inventor, session musician, recording engineer and record producer holding 2 patents and with over 50 records to his credit. He has co-founded four companies: Voce for digital musical instruments, Diversi Organ Company for full-size gospel church organs, Amels & Alonso Electronic Design for freelance technical projects, including working on the build and design for Lenny Kravitz's Miami recording studio, and Bomb Factory Digital. In addition to maintaining an operational Trident A-Range console, creating a vast working organ and vintage keyboard collection, and the rest of a 1973 state-of-the-art analog studio, Dave and Erik Gavriluk co-founded Bomb Factory Digital. The company is one of the leading developers of plug-in software, which emulates classic hardware designs from Pultec, MOOG, Fairchild, and JOE MEEK. Dave will give a presentation on the design and creation of software describing the range of required coding from determining what makes a classic operate from an electronic design through the creation of the a screen which looks and behaves exactly like a really good version of your favorite hardware. Where does the designer start, what are the tools available, and how does the designer translate a particular hardware design into a good screen-based experience? Mr. Amels' presentation will answer some of those questions and leave room for you to ask your own. It's a chance to learn more about your favorite software.

The AES NY Section is pleased to thank our underwriters for their continued support, **Innovative Audio, NHT** and **Studio Consultants, Inc.**

We also appreciate the support and assistance of **Christopher Hoffman** and the **New School University**.

Remember to check our web site for the latest updates and information <http://www.aes.org/sections/ny/>

PLEASE POST... This is an open meeting ... EVERYONE IS WELCOME TO ATTEND

Moog by **Hans Fjellestad** - September 13th

Last month the section started the season with a screening of a documentary on the work and life of Robert Moog. A packed house of over 75 attendees also were treated to a presentation by **Walter Sear** and **Herb Deutsch**, two of the principals of the film and of Bob's professional career. Herb collaborated with Bob on refining the original synthesizers, and the film opens with a humorous animation and audio tape of Moog demonstrating a prototype of his synthesizer to Herb.

The popcorn (yes, popcorn!) was fresh and crunchy, the stories were entertaining, the questions were lively, and sadly the reminiscences were poignant. The New York audio community will miss him.

Upcoming AES events:

Portable Test Equipment featuring **Prism** and others - November 15th at the New School

Fourth Annual Triple Treat for the Holidays with **Allan Tucker** - December at Innovative Audio – watch this space for details

Once again the **New York Section** will have a booth at the **AES convention at the Javits Center**. Find us in **SPACE 2** (the same booth we occupied in 2003) where we will be displaying a wondrous array of vintage microphones (courtesy of Malcolm Addey) and chatting up passersby in an effort to increase our membership rolls.