

**2005-2006  
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*Joint SMPTE/AES Meeting*

# Audio for HD

*From the production and transmission perspectives*

**Date:** Tuesday, November 8, 2005

**Time:** \*7:00 pm\*

**Where:** Sony Canada  
115 Gordon Baker  
Toronto, Ontario

**Directions:** See attached document "Directions to Sony" for detailed instructions.

Pre-Meeting "Dutch Treat" dinner 5:30 pm at Viva City, on Victoria Park Ave. just north of Gordon Baker, www.vivacity4u.com for directions.

Join the Toronto AES and SMPTE sections this month for a joint presentation of production and transmission perspectives for audio in the HD world with Frank Bruno, Director of TV Engineering, Rogers Media, Gareth M. Heywood, Senior Product Definition Specialist, Gennum Corporation and Michael F. Nunan, Post Sound Supervisor, CTV Specialty Television.

## MARK YOUR CALENDARS: Upcoming Confirmed Toronto AES Meetings

- Tuesday, December 6: Digidesign "Venue", Contact Distribution and Robert Scovill
- Tuesday, December 13: Sean Olive and Floyd Toole, Harmon International (Regular Monthly Meeting)

**The NSCA is proposing** a two-day seminar that will demonstrate how to accurately estimate systems projects, to strengthen your concepts and knowledge of estimating "best practices," and to provide you with an on-going estimating reference guide.

Before confirming a date, they would like to know that at least 15 participants are coming. Please contact Mike Abernathy, Member Relations Manager, 800-446-6722, [mabernathy@nsca.org](mailto:mabernathy@nsca.org) for more info.

The Toronto AES Section Bulletin is published ten times yearly by the Audio Engineering Society Toronto Section and is available on the Internet at [www.TorontoAES.org](http://www.TorontoAES.org)

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**PLEASE POST - MEMBERS AND GUESTS WELCOME**

## About the Presenters...

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### **Frank Bruno, Director of TV Engineering, Rogers Media**

"The implementation of Dolby E audio in a HDTV broadcast facility"

*Frank will discuss the mechanics of getting multi-channel sound from multiple sources through a broadcast plant and successfully to air, with a particular discussion of the hidden gotcha's that exist when doing so.*

Frank Bruno has been in the broadcast industry for over 20 years. Frank is the Director of TV Engineering for Rogers Media, with experience in repairing equipment, system installation and design, management and senior management and a focus on Sportsnet, OmniTV, The Shopping Channel and the Rogers Center.

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### **Gareth M. Heywood, Senior Product Definition Specialist, Gennum Corporation**

"Audio for Video in the Digital World: A Primer"

*A presentation on issues related to the AES/EBU audio format, audio into SD video, audio into HD video, synchronous audio, and audio control packets.*

Gareth Heywood has spent over 12 years in the music, audio, broadcast and film production industries. With experience in cinema sound production, video systems product development, editing, telecine and colour correction, Gareth has worked at Dolby Laboratories UK, Sony Broadcast & Professional Europe, and Northwest Imaging & FX (post production) in Vancouver, Canada. Gareth is currently a senior product definition specialist for Gennum's video transport and image processing division.

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### **Michael F. Nunan, Post Sound Supervisor, CTV Specialty Television**

"Meta Metadata: The problem of standardized use of the metadata standard"

*Remote broadcasts, Post-produced programming, Simulcasts, Syndication feeds, Up-converted NTSC programming - and the list goes on. In the HD world - the number of sources routinely utilized by a major broadcaster is dwarfed only by the number of different ways in which metadata is used to describe those same sources. Michael will present a look at the problems and frustrations associated with developing a coherent, efficient and accurate use of Dolby metadata in a network environment.*

With his work for CTV, Discovery Channel Canada and their production company Exploration Production Inc., Michael has been working with HDTV and Surround mixing since 1999. In addition to his supervisory and mixing duties on more than 70 feature documentaries and over 500 episodic programs, he is actively involved in the planning and execution of High Definition live events like the Juno Awards on CTV and Friday Night Football on TSN.

Michael is a member of the Canadian Cable Telecommunications Association's Digital Audio Working Group, which is working toward the industry-wide standardization of digital audio metadata. In connection with that effort, the past year has seen his involvement in the implementation of Dolby technology on CTV's group of HD services, as well as taking part in the training of Transmission and Distribution personnel in the correct use of Dolby technology.