

# Society of Motion Picture and Television Engineers Detroit Section Meeting Notice April 2008

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TV

Dave Westermann  
Ross Video Inc.

**DATE: Tuesday, April 8, 2008**

**TIME: 7:30 PM**

**LOCATION: Ford Motor Company, FCSD**  
Fairlane Business Park, Bldg. 3  
First Floor Lecture Room  
1555 Fairlane Dr.  
Allen Park, Michigan 48101  
(313) 317-7413

[Map](#)

**SPEAKER: Don Cardone**  
Sales Director, Linear Acoustic

**SUBJECT: Audio for Digital Television: Taking Control of  
5.1**

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The two largest audio issues in digital television are controlling loudness and keeping the audio image stable by supplying 5.1 channels all the time. Via metadata, Dolby Digital (AC-3) has built-in loudness controls, downmix controls, and dynamic range controls. Assuming that 5.1 channel audio has actually made it to the encoder, how can you ensure that everything is set correctly? What happens if metadata is missing or is set incorrectly (intentionally or otherwise)? How effective are the parameters anyway? What about mixing local two-channel programming with the 5.1 channels coming from the network- why does the dialogue seem to disappear? Consumers must be protected from loud and annoying audio, from jarring image shifts, and from hidden parameters causing different problems on mono, stereo, and 5.1

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channel receivers. Linear Acoustic's Aeromax 5.1 is a digital audio processor that allows broadcasters control over disparate levels of network, locally produced shows and interstitial sources, to prevent the wild fluctuation of volume many viewers experience at home. It also does upmixing, metadata management and Dolby encoding. A product data sheet at

[http://www.linearacoustic.com/pdf/AM51\\_1PSU%20onesheet.pdf](http://www.linearacoustic.com/pdf/AM51_1PSU%20onesheet.pdf).

Don Cardone is the sales director for Linear Acoustic and was formerly with the Vistek division of Probel. Linear Acoustic Inc. is a multichannel audio consulting and manufacturing firm with customers such as Dolby, Microsoft, Sirius Satellite Radio, Wohler, and many network affiliate stations. Linear Acoustic founder Tim Carroll spoke to our group in May of 2004, so this will be an informative update on this technology.

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**Managers' Dinner** will be at 5:30 PM at **Chili's Grill and Bar**, 3230 Fairlane Dr., Allen Park, Mich. (313) 441-1106. ([Map](#)) All are welcome to join us.

**Word of Caution:** Allen Park PD does STRICT speed enforcement on Southfield Freeway and surrounding streets.

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[Bookmark our web site](#) to check for any last minute changes in the meeting schedule, or for the latest on upcoming meetings. (Note: SMPTE is in the process of reorganizing its website, and our URL on [www.smpte.org](http://www.smpte.org) will be changing in the near future.)

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To obtain the latest news of the Detroit Section via e-mail, including meeting notices, last minute changes or other items of interest, please visit the Detroit Section web page, visit [http://www.yahogroups.com/subscribe.cgi/smpte\\_detroit](http://www.yahogroups.com/subscribe.cgi/smpte_detroit), or send a blank e-mail message to [smpte\\_detroit\\_subscribe@yahogroups.com](mailto:smpte_detroit_subscribe@yahogroups.com).

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Guests and Non-Members are Welcome