



Society of Motion Picture and Television Engineers

Detroit Section

MEETING NOTICE

SECTION OFFICERS

Section Chairman

Frank Maynard
WKBD-TV
(248) 355-7129

Date: **Tuesday, September 14, 1999**

Secretary/Treasurer

Helge Blucher
WTVS-TV
(313) 876-8120

Time: **5:30 PM: Registration and Complimentary Box Dinner**
6:30 PM: Presentation
PLEASE NOTE THE EARLY START TIME

Past Chairman

Gene Wilczak
WJBK-TV
(248) 552-5284

Location: **Hewlett Packard**
39550 Orchard Hill Place (West of Haggerty, north of Eight Mile)
Novi, Michigan

Managers

Jorge Alfaro
ProVideo Systems, Inc
(248) 746-0995

Speaker: **Barbara Gill and Daun Yeagley**
Hewlett Packard

Subject: **DIGITAL TELEVISION MEASUREMENTS**

John Fleming
John F.X. Browne & Assoc.
(248) 642-6226

This seminar will present the basics of digital television (DTV) signals and measurements, and demonstrates the use of test equipment for evaluating quality of service, troubleshooting impairments and ensuring compliance with standards. It provides a comprehensive overview of the tools necessary for signal management and measurement from the production facility to the transmitter and introduces Hewlett-Packard's 89441V vector network signal analyzer. Finally, participants have the opportunity to gain hands-on experience to make critical DTV measurements. If possible, a live digital television signal is also evaluated.

David O. Grover
Wayne State University
(248) 547-9370

John Grover
WSMH-TV
(810) 785-8866

Henry Root
WDEO
(734) 662-1592

Peter Sockett
WWJ-TV
(313) 259-2178

NOTE: Registration is required by calling 1-800-593-6632. You will receive a fax confirming your registration along with directions to the seminar location within two business days.

Test Materials Advisor

Harold Miller
Harold Miller Associates
(248) 477-2047

AS ALWAYS, NON-MEMBERS AND GUESTS ARE WELCOME.
THERE IS NO CHARGE.

Membership

Robert A. Zeichner
Roscor Michigan, Inc.
(248) 489-0090

Because of the early start time there will not be a separate Managers' Dinner. A box dinner will be provided by Hewlett-Packard at their meeting location.

NATIONAL OFFICERS

Central Region Governor

John F.X. Browne
(248) 642-6226

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John F.X. Browne
(248) 642-6226

Date: **Tuesday, November 9, 1999**

Time: **7:30 PM**

Location: **ROSCOR MICHIGAN
27280 Haggerty Rd., Suite C2
Farmington Hills, MI 48331
248-489-0090**

Located 1/8 mile south of 12 Mile Road, east side of Haggerty Road. Enter Technology Park and drive past the first two buildings. Building C is on your left. A map is available at <http://www.rosacor.com/Maps/michigan.html>

Speaker: **Jim Edwards, Tektronix, Inc.**

Subject: **PICTURE QUALITY ANALYSIS**

The best measure of any analog or digital television system is the viewer's satisfaction with the image received. Traditionally, the quality of analog and full-bandwidth digital video systems has been measured indirectly by measuring the distortions of static test signals. Compressed television systems, however, pose a far more difficult measurement challenge. Picture quality in these systems changes dynamically based on the data rate, picture complexity and encoding algorithm employed. The static nature of test signals does not provide true characterization of picture quality. Natural test scenes that are far more complex than test signals must be used to stress the capabilities of compressed video systems.

Jim Edwards will describe and demonstrate a system that provides a fast, practical and repeatable objective measurement alternative to subjective evaluation of picture quality.

Jim is District Sales and Account Manager for Tektronix, Inc. Video/Comm Division in Huntsville, Alabama. He has been with Tektronix since 1982. He is an active SMPTE member and has served as Chairman of the Nashville Section.

Don't miss this presentation if you're involved with digital television!

MANAGERS' DINNER will be held at 5:30 PM at Cooker Bar & Grille, located on Twelve Mile Road just west of Haggerty, 39581 W 12 Mile Rd, Novi, MI 48377, (248) 380-2600.

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John F.X. Browne
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Date: **Tuesday, December 14, 1999**

Time: **7:30 PM**

Location: **WXYZ-TV**
20777 West Ten Mile Road
Southfield, Michigan 48037
248-827-7777

Note: Tell guard you're there for the SMPTE meeting. Use the rear building entrance and follow signs.

Speaker: **Michael Taylor, Sony Electronics**

Subject: **A COMPACT, VTR-LIKE VIDEO SERVER**

As disk-based video servers enter more and more applications, the feature set of new products continues to develop. An MPEG-2 server with VTR functionality, remote browsing and real-time editing has been developed by Sony Electronics.

The MAV-555 multi-channel video disk recorder is based on MPEG-2 4:2:2 P@ML compression technology and combines VTR-like control panel operation with all the advantages of a disk recorder, providing both linear and non-linear editing capability.

At our December meeting we welcome back Michael Taylor of Sony to explain the technology behind the MAV-555. For the past four years, Michael Taylor has been Marketing Product Specialist with Sony's Chicago office. He has held similar positions with For-A, Intelligent Resources and Ampex Corporation. Mr. Taylor is a graduate of Southern Illinois University in Carbondale.

MANAGERS' DINNER will be held at 5:30 PM at O'Mara's, located on the corner of Twelve Mile Road and Coolidge (2555 Twelve Mile Road, 248-399-6750).

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Date: **Tuesday, January 11, 2000**

Time: **7:30 PM**

Location: **TV-Warren/Ridgewood Recreation Center
13333 Racine
Warren, Michigan 48093
810-582-9994
(see map on reverse)**

Speaker: **Harvey Arnold, Sinclair Broadcast Group, Inc.**

Subject: **COFDM vs. 8-VSB**

On October 8, 1999, Sinclair Broadcast Group, Inc. filed a "Petition for Expedited Rulemaking" requesting that the Commission modify its digital television ("DTV") rules to permit broadcasters to transmit their digital signals using Coded Orthogonal Frequency Division Multiplexing ("COFDM") digital modulation technology. Including Sinclair, broadcast companies representing the licensees of more than 300 commercial TV stations now indicate that they support the use of COFDM in the United States.

Mr. Arnold will discuss the Baltimore field test and update us on the FCC petition. Don't miss this opportunity to learn more about COFDM and 8-VSB and get the latest on this growing controversy. There will be a Q&A session following the presentation - bring your questions and concerns and get involved!

MANAGERS' DINNER will be held at 5:30 PM at Jimmy Dimitri's, located at 28620 Van Dyke south of 12 Mile, (810) 558-3700 (see map on reverse).

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JOINT MEETING WITH AUDIO ENGINEERING SOCIETY

Date: **Tuesday, February 8, 2000**
Time: **7:30 PM**
Location: **WWJ-TV**
300 River Place, 6th Floor
Detroit, Michigan, (313) 259-6288
(see map on reverse)
Speaker: **Tim Carroll, Dolby Laboratories**
Subject: **DOLBY AUDIO FOR DTV**

The February meeting is a joint meeting with AES and will feature a review of Dolby Digital (AC-3) encoding and decoding and will be followed by an introduction to Dolby E. The real issues behind Audio/Video synchronization will be revealed.

Following the presentation will be a general discussion of network and affiliate audio plant structures and some tips on how to ensure normal operation with multichannel audio. Some examples of stations and facilities currently on air will be given. There will be ample time for questions.

Tim Carroll is currently employed by Dolby Laboratories at their San Francisco headquarters as a Broadcast Applications Engineer. Prior to this, he worked out of the New York offices of Dolby Laboratories as both a broadcast and a film engineer, helping major broadcast networks, cable networks, and film post production facilities integrate multichannel Dolby Digital audio. He is currently the chairman of the ATSC IS-S3 ad-hoc working group on audio and video synchronization issues.

MANAGERS' DINNER will be held at 5:30 PM at Atwater Block Brewery, 237 Joseph Campau (across from the meeting location -- see map on reverse).

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John F.X. Browne
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Date: **Tuesday, March 14, 2000**

Time: **7:30 PM**

Location: **CBET**
CBC Place, 825 Riverside Dr. W.
Windsor, Ontario
(519) 255-3453
(see map on reverse)

Speaker: **Richard Christiansen, Leitch Technology Corporation**

Subject: **Networking TV/Data Systems**

Richard Christiansen's presentation will explain the converging technologies of the computer and telecommunication industry and how it applies to the broadcast market. He will start with an overview of computer LAN technologies and move to the web and video over IP. The telecommunications discussion will focus on the strength of ATM for data delivery. He will conclude with the demanding bandwidth requirements of the broadcast industry and today's technology as well as the enabling technologies of the future.

Richard joined Leitch in 1983 where he was involved in research and development as well as manufacturing activities. He has over seven years field experience with a CBC affiliated broadcast facility in Canada. He has been sales manager for the Middle East markets and has presented a number of Digital Television lectures around the world. He is now a product specialist for the Leitch MPEG compression system in his role as Market Development Manager.

MANAGERS' DINNER will be held at 5:30 PM at *Bubi's Awesome Eats*, 620 University West, (519) 252-2001 (corner of Janette and University W., you may park at the meeting location and walk to the restaurant -- see map on reverse)

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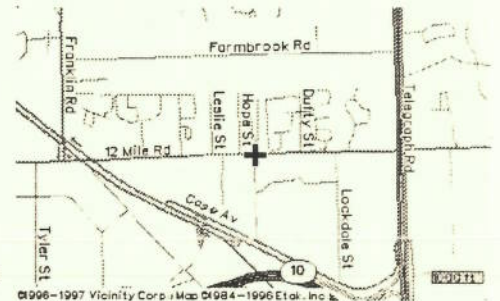
Date: **Tuesday, April 18, 2000**

Note: This is a week later than usual due to NAB

Time: **7:30 PM**

Location: **Star Southfield Theatre**
25333 Twelve Mile Rd
Southfield
(248) 372-2222

Subject: **Behind the Scenes at a
State-of-the-Art Megaplex**



Star Southfield is located on 12 Mile Road just west of Telegraph Road and north of Northwestern Highway.

This meeting does not have a featured speaker but will offer a tour of the workings of the new Star Southfield theatre complex. This state-of-the-art facility features 20 auditoriums equipped with Sony DCP-1000 stereo, SDDS and THX, and seating for over 6000 guests in stadium-style rocking-chair seats.

MANAGERS' DINNER at 5:30 PM at Volcano Grill, inside the Star Southfield Theatre. (The Volcano Grill was not open yet at press time but was scheduled to open before the meeting date. If there is any change to the managers' dinner location, it will be posted on the web page.)

Upcoming meetings:

May 9 - TeraNex - New techniques in DTV format conversion

June 13 - Agilent - MPEG Update

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Date: Tuesday, May 9, 2000

Time: 7:30 PM

Location: General Television Network
13320 Northend Avenue, Oak Park, Michigan
(East off Coolidge Hwy. between Eight Mile and Nine Mile Roads)
(248) 548-2500

Speaker: Scott Ackerman, Manager, Technical Sales Support
Teranex, Inc.

Subject: NEW TECHNIQUES IN DTV FORMAT CONVERSION

This month, our program will present new techniques used to provide format conversion (up-conversion, down-conversion and cross-conversion) of DTV signals. Why proper de-interlacing of the input material is essential to high-quality conversions will be explained, a few of the currently used techniques will be examined and a new de-interlacing scheme that implements this technique in real time will be described. In addition to the technical presentation, actual equipment will be available for hands-on demonstrations.

Scott Ackerman has over 15 years of experience in both Format and Standards Conversion technologies. Most recently he served as Director, Sales Engineering for the Business Development Group of Leitch, Inc, where he was responsible for their high definition product line. Prior to Leitch, he served as Director of Engineering for Tekniche, Inc and AVS Broadcast, Inc. He is a member of SMPTE, ITS and ACM.

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Date: Tuesday, June 20, 2000 (ONE WEEK LATER THAN USUAL)

Time: 7:30 PM

Location: WKBD Channel 50
26905 West 11 Mile Road, Southfield, 248-350-5050

Speaker: Randy Conrod, Leitch Technologies

Subjects: Universal Time Code Using ATC - Absolute Time Code, and Time Division Multiplexing (TDM) Video and Data Streams Into a 1.5Gb/s HDTV Stream

Randy Conrod returns to Detroit to present two short discussions on topics regarding soon-to-be-announced SMPTE standards.

The first talk is on a proposed standard for a universal time reference using ATC (Absolute Time Code). Current SMPTE time code does not track real time accurately, there is an arbitrary audio and video alignment due to the 5-frame sequence in NTSC, it is difficult to distribute the same clock time for television to data systems and there is no common reference for different TV standards. The ATC concept provides a means of referencing any one signal to another, and the use of GPS allows common frequency and phase lock in different locations.

The second discussion considers a proposed standard to define the time-division multiplexing of various standard-definition video and generic data signals over a SMPTE 292M high-definition serial interface. The objective of this is to use a single physical link to distribute a complete family of existing 10-bit video and various data formats.

MANAGERS' DINNER at 5:30 PM at Fishbone's Rhythm Kitchen Café, 29244 Northwestern Highway (N of 12 Mile Road), 248-351-2925.

SMPTE 2000 Detroit Election Results:

Chairman (one-year term): Mark Anzicek, ZenTechnologies

Secretary/Treasurer (one-year term): Robert Zeichner, Roscor Corp.

Managers (two-year term): James R. Totten, WKBD-TV

Richard J. Baillargeon, Canadian Broadcasting Corp.

Paul J. Grzebik, ADC Broadcast Systems Division

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