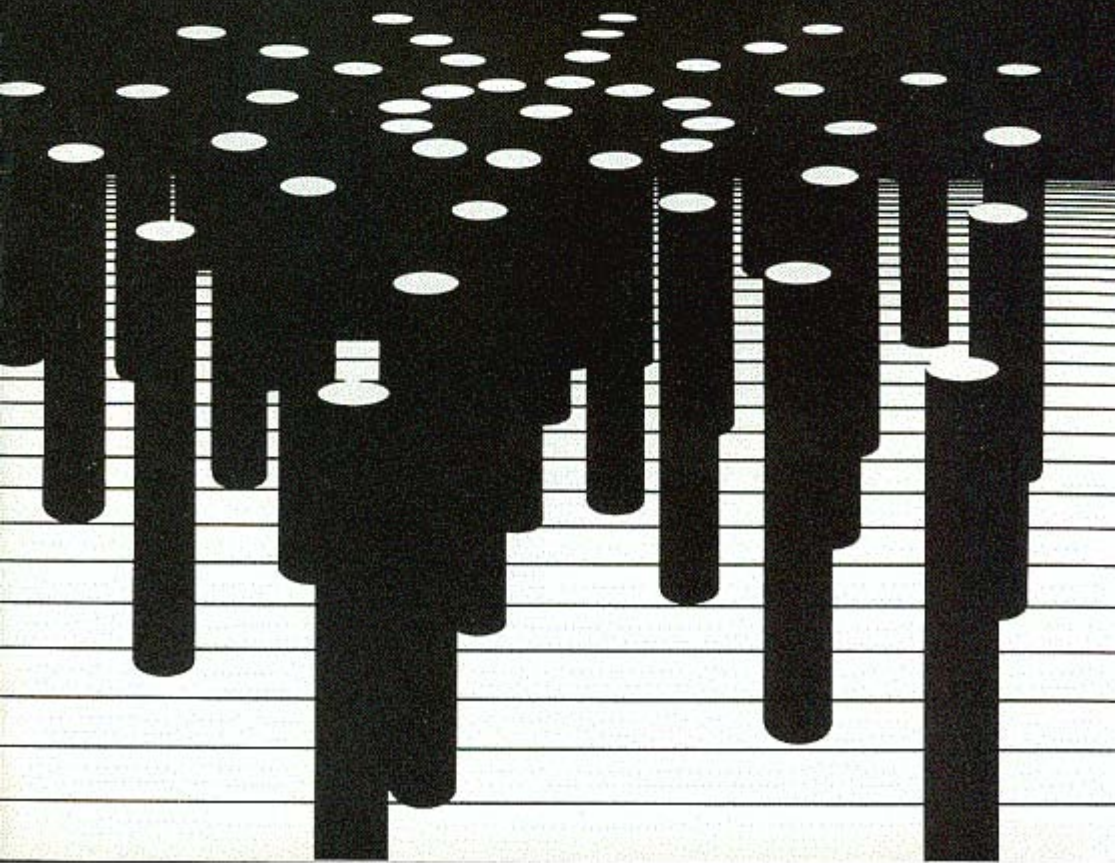


34th Annual
University of Wisconsin

**BROADCAST
ENGINEERING AND
TELECOMMUNICATIONS
SEMINAR**

October 18-20, 1988
Madison, Wisconsin

Supported in part by
Radio World and TV Technology



The University of Wisconsin
presents...the 34th Annual

BROADCAST ENGINEERING AND TELECOMMUNICATIONS SEMINAR—1988

A quality conference for the motivated Broadcast Engineer...

Ten years ago, we talked about the **emerging** technologies. Now, as the 1980s draw to a close, it's the **converging** technologies that are providing the impetus for change.

While management attempts to cope with and utilize the new technical advancements, engineers strive to establish standards, system capability, and direction.

These are exciting and challenging times. We are on the threshold of a new decade and a new century. This seminar—our 34th—for engineers in broadcasting and telecommunications is designed to provide a forum for you to gain new information, share experience, and exchange ideas that will keep you abreast of the changes and advancements in our industry. I hope you will be able to participate.

Don Borchert

PROGRAM

TUESDAY, OCTOBER 18

- 7:45 am Registration and Continental Breakfast
- 9:15 **Introduction and Welcome**
Don Borchert, Director of Engineering, WHA Radio and Television, Madison, WI
- 9:30 **Back To Basics**
Donald L. Markley, Consulting Engineer, Peoria, IL
- 10:15 **Towards Greater Potential In Technical Management**
Timothy J. McCartney, Chief Engineer, KBSU, Boise (Idaho) State University
- 11:00 **An Overview of the Realities of Analog and Digital Audio**
*Allied Satellite, Jeff Nordstrom, Moderator
Wegener Communications, Duluth, GA
Fairchild Data, Scottsdale, AZ*
- 12:00 pm Luncheon—**FMX and HDTV Report**
Thomas Keller, Chief Scientist for Technology, National Association of Broadcasters
- 2:00-8:00 EQUIPMENT EXHIBITS OPEN
- 3:00 **Talk with the Federal Communications Commission**
*Phil Bradford, Chicago
Al Jarrett, St. Paul
James Dailey, Kansas City*
- 4:30 Reception (cash bar)
- 8:00 **Let's Talk About Maintaining Your Outside Transmittng Facilities**
James Crooks, President, Broadcast Communications, Madison, WI
- 8:45 **An Analysis of Multi-Path**
James Addie, Transmitter Supervisor, WFMT, Chicago, IL

WEDNESDAY, OCTOBER 19

- 7:45 am Continental Breakfast
- 8:30 **More About Digital Modulation**
Darryl Buechting, Senior Applications Engineer, Harris Corporation, Quincy, IL
- 9:15 **Radiation Interference Measurements Using the Fly-Over Method**
Garrett Lyslak, Consulting Engineer, Owl Engineering, St. Paul, MN
- 10:00 Break
- 10:15 **Advances In Still Store Technology**
Gary Stephens, Leitch Video

- 11:00 **What's New in CCD Technology?**
Lary Thorpe, Engineering Specialist, SONY Corporation
- 12:00-8:00 pm EQUIPMENT EXHIBITS OPEN
- 2:30 **A Discussion of Measured Long Term Pattern Characteristics of a Critical 4-Tower Array**
Vern Killion, Chief Engineer, KRVN, Lexington, NE
- 3:15 **An AM Mega Station Operation Utilizing Adjacent 50 kw Transmitters with Synchronized Audio Side Bands**
Hugh Burney, Director of Technical Services, WWL, New Orleans, LA
- 4:30 Reception (cash bar)
- 8:00 **Planning and Designing with Efficiency in Mind**
Chuck Kelly, Sales Manager, International Tapetronics, Bloomington, IL
- 8:45 **Practical Considerations for Implementation of a Reliable Synchronous FM Booster**
Ed Anthone, Project Engineer, Broadcast Electronics, Quincy, IL
- 9:30 **Engineering Forum: An Hour of Technical Give and Take**

THURSDAY, OCTOBER 20

- 7:45 am Continental Breakfast
- 8:30 **Designing an All Solid-State VHF Transmitter for Improved Reliability**
Martyn Horspool, Broadcast Applications Engineer, Harris Corporation, Quincy, IL
- 9:15 **New Software Philosophies in Post-production Editing**
Bruce Rayner, Editor Software & Engineering Manager, Grass Valley Group
- 10:00 Break
- 10:15 **Technical and Financial Bene-FETS of All Solid-State VHF High Power Transmitters**
*Clyde Turner, Vice President and General Manager, Larcan...
LDL Communications*
- 11:00 **The D-2 Digital Composite Video Tape Recorder**
Jim Peterson, Product Manager, Ampex
- 12:00 pm Luncheon—**Fiber Optics for Broadcast and Codec Applications**
Andy McCaskey, Applications Engineer, Grass Valley Group
- 2:00 Adjournment...See you next year!

1988 PROGRAM COMMITTEE

Don Borchert, WHA Radio and TV, Madison, WI
John Freberg, WXRT, Chicago, IL
Vern Killion, KRVN, Lexington, NE
Wil Koeller, WTMJ, Milwaukee, WI
Gary Mach, UW-Green Bay, WI

Among the many exhibitors at the 1988 Broadcast Engineering and Telecommunications Seminar will be the following:

AGFA-GEVAERT
ALLIED BROADCAST EQUIPMENT
AMPEREX CORPORATION
AMPEX CORPORATION
AUDIO BROADCAST GROUP
AVC SYSTEMS, INC.
AVONIX
BRADLEY BROADCAST SALES
BRIDGEWATER PROFESSIONAL SOUND
BROADCAST ELECTRONICS, INC.
E.E.V., INC.
ELECTRONIC INDUSTRIES
EMMONS ASSOCIATES, INC.
FIDELIPAC CORPORATION
FULL COMPASS SYSTEMS, LTD.
HARRIS BROADCAST GROUP
INTERNATIONAL TAPETRONICS CORPORATION
LARCAN COMMUNICATIONS EQUIPMENT, INC.
LE BLANC & DICK COMMUNICATIONS, INC.
MARK PERSONS & ASSOCIATES
MICROPROBE ELECTRONICS, INC.
NEC AMERICA, INC.
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PHILIPS TELEVISION SYSTEMS
PRO AUDIO GENERAL STORE, INC.
PINZONE COMMUNICATIONS EQUIPMENT, INC.
QUANTEL
RAM BROADCAST SYSTEMS, INC.
ROSCOR CORPORATION
SONY CORPORATION OF AMERICA
TEKTRONIX, INC.
3M CORPORATION
TODD COMMUNICATIONS
VIDEO IMAGES

— AND MORE —

GENERAL CONFERENCE INFORMATION

DATES

Tuesday through Thursday, October 18 through 20, 1988

LOCATION

All sessions of the **Broadcast Engineering and Telecommunications Seminar** will be held at the Holiday Inn Southeast, Highway 12 and 18 at I-90, Madison, Wisconsin 53704. Phone: (608) 222-9121.

FEE

\$135 covers program materials, 3 continental breakfasts, 2 luncheons, refreshment breaks, and 2 evening receptions with hot hors d'oeuvres (cash bar).

You are entitled to an 80% refund if cancellations are received prior to October 10, 1988. Enrollees who do not cancel are obligated for the full fee. Substitutions may be made at any time.

ACCOMMODATIONS

Please make your own room reservations with the Holiday Inn Southeast, Highway 12 and 18 at I-90, Madison, Wisconsin 53704. Phone: (608) 222-9121.

We suggest that you make your reservations before September 27, 1988, while discounted rooms are being held for the Seminar. Please specify that you are attending the **Broadcast Engineering and Telecommunications Seminar**.

CREDIT

Seminar enrollees can earn 2.8 Continuing Education Units (CEUs) from the University of Wisconsin.

INFORMATION

For further seminar or exhibitor information, contact Don Borchert, Director of Engineering, WHA Radio and Television, 821 University Avenue, Madison, Wisconsin 53706. Phone: (608) 263-2157.

This program is supported in part by funds administered through UW-Extension as part of a coordinated statewide Extension program.