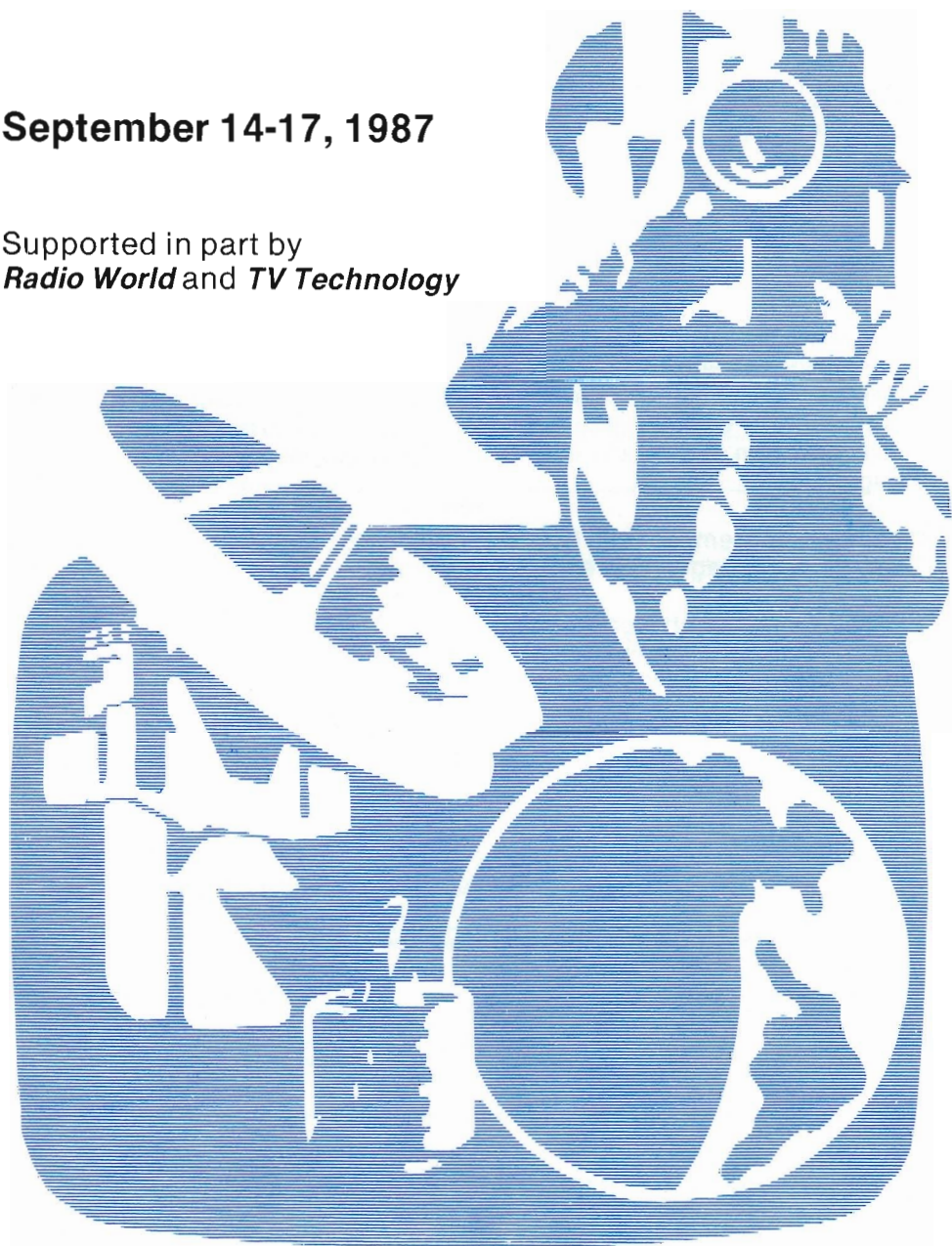


33rd ANNUAL
University of Wisconsin

BROADCAST ENGINEERING AND MANAGEMENT SEMINAR

September 14-17, 1987

Supported in part by
Radio World and ***TV Technology***





**The University of Wisconsin
Presents . . . the 33rd annual**

BROADCAST ENGINEERING AND MANAGEMENT SEMINAR — 1987

***A Quality Conference for the Motivated Broadcast
Engineer . . .***

The program committee has again established an excellent conference agenda. Included are new technology presentations, format discussions, preventive maintenance and construction techniques, FCC concerns, and much, much more. Truly a broad cross-section of subjects vital to the technically-active broadcast engineer.

Monday, September 14th, is wholly dedicated to interactive **Technical Management** relating to a constantly changing industry.

Compete for valuable prizes in our "GREAT IDEAS GIVE-AWAY." Please send your "Great Ideas" information along with your **Broadcast Engineering and Management Seminar 1987** registration.

Don Borchert

Program: Broadcast Engineering and Management Seminar

Monday, September 14

- 7:45 Registration and Continental Breakfast
- 9:15 **Introduction and Welcome**
Don Borchert, Director of Engineering, WHA Radio and Television, Madison, Wisconsin
- 9:30 **Technical Management Seminar**
Discussion Leaders:
H. Richard Hiner, Director of Navy Broadcasting, Washington, D.C.
John Cummuta, General Manager, WCFL, Chicago
Timothy J. McCartney, Chief Engineer, KBSU, Boise State University
- 10:15 Break
- 10:30 **Technical Management Seminar, continued**
- 12:00 Luncheon – “**Station Engineers—An Endangered Species?**”
Garrett Lysiak, Owl Engineering, St. Paul, Minnesota
- 2:30 **Technical Management Seminar, continued**
- 4:30 Reception . . . Cash Bar

Tuesday, September 15

- 7:45 Registration and Continental Breakfast
- 9:15 **Introduction and Welcome**
Don Borchert, Director of Engineering, WHA Radio and Television
- 9:30 **Understanding and Using the New ANSI/EIA 222D Standards**
Donald L. Markley, Consulting Engineer, Peoria, Illinois
- 10:15 Break

- 10:30 **Radio and Television News Applications for Ku Band**
Ray Conover, Director of Engineering, Conis Communications, St. Paul, Minnesota
- 11:15 **Choosing Capacitors for Audio Quality**
Bill Sacks, President, Straight Wire Audio, Arlington, Virginia
- 12:00 Luncheon – “**Digital Audio Basics for Radio**”
Charles M. Bates, Chief Engineer, International Tapetronics/3M, Bloomington, Illinois
- 2:00 **Sound Re-enforcement for Broadcast Applications**
Jim Brown, President, Sound Engineering Associates, Chicago, Illinois
- 2:45 **Radio Station Design Considerations: A Routing Switcher?**
Chuck Kelly, International Tapetronics, Bloomington, Illinois
- 3:30 Reception . . . Cash Bar . . .
- 8:30 Equipment Exhibits
- 6:00 Dinner (Optional)
- 7:30 **FCC Forum**
With:
Russell “Joe” Monie, EIC, Chicago;
Dennis P. Carlton, EIC, Denver;
Al Jarrett, EIC, St. Paul

Wednesday, September 16

- 7:45 Continuing Registration and Continental Breakfast
- 8:30 **Practical Aspects of Studio System Grounding**
John Freberg, WXRT, Chicago, Illinois
- 9:15 **Roll Your Own: the DOs and DON'Ts of Building Custom Chassis Projects**
Mark Persons, President, Mark Persons and Associates, Brainerd, Minnesota
- 10:00 Break
- 10:15 **Digital Amplitude Modulation—DX 10 Transmitter**
Rick Riggs, Transmitter Design Team, Harris Corporation, Quincy, Illinois
- 11:15 **Technical Steps to AM Revival**
Glen Clark, President, Texar, Inc., Monroeville, Pennsylvania
- 12:00 Luncheon - "The Future of Terrestrial Broadcasting"
Thomas Keller, Senior Vice President, Science and Technology, National Association of Broadcasters
- 2:00 **Electrical and Mechanical Aspects of Phase Correction for Cartridge Tape Systems**
James R. "Rick" Carpenter, Manager of Audio Engineering, Broadcast Electronics, Quincy, Illinois
- 2:45 **Storing, Handling and Retrieving Lots of Audio**
Panel:
James Oliver, Media Touch Systems;
Thomas Ransom, IGM Communications;
Dave Acker, For-A Corporation;
Matthew Martin, Digital Broadcast Systems
- 3:45 Reception . . . Cash Bar . . .
- 8:30 Equipment Exhibits

- 7:30 **"Great Ideas Giveaway" and Nuts and Bolts Engineering Forum**
Stephen Brown, Chief Engineer, WLTE, Minneapolis, Minnesota

Thursday, September 17

- 7:45 Continental Breakfast
- 8:30 **Value of Ku for Satellite News**
Ed Mamarre, RF Products Manager, Roscor, Mt. Prospect, Illinois
- 9:15 **Why 18 GHz for the Broadcaster?**
Ernest Hickin, Senior Engineer, M/A Com
- 10:00 Break
- 10:15 **Tape Format Forum**
Panasonic—Advanced Technology in the M-II Format
Ampex—Capabilities of the Composite Digital Recording
Sony—Betacam-SP in Context with Other Formats
- 12:00 Luncheon - "HDTV Update"
Larry Thorpe, Director of Studio Products, Sony Corporation, Teaneck, New Jersey
- 2:00 **Care and Feeding of Flexible and Semi-Flexible Transmission Line**
Hugh Knudd, Senior Design Engineer, Andrew Corporation
- 2:45 **Practical Audio Processing for TV Stereo and NRSC Standards**
Bill Ammons, CRL, Phoenix, Arizona
- 3:30 Adjournment . . . Farewell 'til next year!

Broadcast Engineering and Management Seminar

Holiday Inn Southeast, Highway 12 and 18 at I-90

(608) 222-9121

(Not mandatory—used only to ensure accessibility and accuracy of your educational record.)

Phone: () _____
 area code *daytime number/evening number*

Organization / Station: _____

Business Address: _____ street

city / state / zip

- ☐ **\$185 – Broadcast Engineering and Management Seminar**
September 14, 15, 16, 17. (A-86-8400-0280)
- ☐ **\$135 – Broadcast Engineering Technical Sessions only**
September 15, 16, 17. (A-86-8400-0281)
- ☐ **\$12 – Optional Top Sirloin Steak Dinner**
September 15

To register, phone or mail this form along with your check made payable to UW-Extension to: Registration Office, Wisconsin Center, 702 Langdon Street, Madison, WI 53706. Phone: (608) 262-7942.

This information is collected to enhance the programming efforts of University of Wisconsin-Extension and is voluntary.

BIRTHDATE: Month Day Year

☐ Hispanic ☐ White or Other

☐ 100 Professional, technical and managerial occupations
☐ 700 Other Occupations

Please advise us at time of registration if you are handicapped and desire special accommodations. Requests are kept confidential. UW-Madison provides equal opportunities in employment and programming including Title IX requirements.

1987 Program Committee

Don Borchert, WHA Radio and TV, Madison, WI

Stephen Brown, WLTE, Minneapolis, MN

John Freberg, WXRT, Chicago, IL

Vern Killon, KRVN, Lexington, NE

Wil Koeller, WTMJ, Milwaukee, WI

Gary Mach, UW-Green Bay, WI

Harry Priester, WLS, Chicago, IL

Among the many exhibitors at the 1987 Broadcast Engineering and Management Seminar will be the following:

AGFA-GEVAERT
ALLIED BROADCAST
EQUIPMENT
AMPEREX CORPORATION
AMPEX CORPORATION
AUDIO BROADCAST GROUP
AVC SYSTEMS, INC.
AVONIX
BOYD ASSOCIATES
BRADLEY BROADCAST
SALES
BRIDGEWATER
PROFESSIONAL SOUND
BROADCAST AUDIO
CORPORATION
BROADCAST
ELECTRONICS, INC.
COLORGRAPHICS
SYSTEMS, INC.
DATA WORLD
E.E.V., INC.
ELECTRONIC INDUSTRIES
EMMONS ASSOCIATES, INC.
ENTERPRISES, INC. OF
WISCONSIN
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.
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SYSTEMS
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QUANTEL
RAM BROADCAST
SYSTEMS, INC.
ROSCOR CORPORATION
SONY CORPORATION OF
AMERICA
STRAIGHT WIRE AUDIO
TEKTRONIX, INC.
TELESCRIPT
3M CORPORATION
TODD COMMUNICATIONS
VIDEO IMAGES

— AND MORE —

General Conference Information

DATES

Monday through Thursday, September 14 through 17, 1987

LOCATION

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

FEE

\$185—Broadcast Engineering and Management Seminar. Fee covers program materials, 4 continental breakfasts, 4 luncheons, 4 break refreshments and 3 evening receptions with hot hors d'oeuvres. The Tuesday evening dinner is optional at an additional charge of \$12.

\$135—Broadcast Engineering Technical Sessions only (September 14, 15, 16). Fee covers program materials, 3 continental breakfasts, 3 luncheons, 3 break refreshments and 2 evening receptions with hot hors d'oeuvres. The Tuesday evening dinner is optional at an additional charge of \$12.

You are entitled to an 80% refund if cancellations are received prior to September 7, 1987. 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 August 27, 1987, while discounted rooms are being held for the Seminar. Please specify that you are attending the **Broadcast Engineering and Management Seminar**.

CREDIT

Seminar enrollees can earn the following Continuing Education Units (CEUs) from the University of Wisconsin: **Broadcast Engineering and Management Seminar**, 3.6 CEUs; **Broadcast Engineering Technical Sessions only**, 2.8 CEUs.

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.