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 Cummata, 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 – “Digital Audio Basics for Radio”
   Bill Sacks, President, Straight Wire Audio, Arlington, Virginia
11:15 Choosing Capacitors for Audio Quality
   Charles M. Bates, Chief Engineer, International Tapetronics/3M, Bloomington, Illinois
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

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
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 Mamarie, 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 Knudt, 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!
Registration Form
Broadcast Engineering and Management Seminar
September 14, 15, 16, 17, 1987
Holiday Inn Southeast, Highway 12 and 18 at I-90
Madison, Wisconsin 53704
(608) 222-9121

Social Security Number: ________________________________
(Not mandatory—used only to ensure accessibility and accuracy of your educational record.)

Name: __________________________________________________________________________

Phone: (_____) __________________________
area code daytime number evening number

Title: __________________________________________________________________________

Organization / Station: _____________________________________________________________

Business Address: ________________________________________________________________
street city / state / zip

Payment Enclosed:
☐ $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.

SEX: ☐ Female ☐ Male

BIRTHDATE: Month _____ Day _____ Year ______

HERITAGE: ☐ American Indian ☐ Asian ☐ Black
  ☐ Hispanic ☐ White or Other

OCCUPATIONAL AREA:
☐ 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 Borcherdt, 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
LARGAN COMMUNICATIONS EQUIPMENT, INC.
LE BLANC & DICK COMMUNICATIONS, INC.
MARK PERSONS & ASSOCIATES
MICROPROBE ELECTRONICS, INC.
NEC AMERICA, INC.
PANASONIC PHILIPS TELEVISION SYSTEMS
PRO AUDIO GENERAL STORE, INC.
PINZONE COMMUNICATIONS EQUIPMENT, INC.
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.

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