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 Transmitting 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 Buechtling, 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?  
Larry 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!
REGISTRATION FORM
BROADCAST ENGINEERING AND
TELECOMMUNICATIONS SEMINAR

October 18-20, 1988  A-86-8400-0280
Holiday Inn Southeast, Highway 12 and 18 at I-90  Fee: $135
Madison, Wisconsin 53704
(608) 222-9121

Soc. Sec. No.: ________________________________
(Not mandatory—used only to ensure accessibility and accuracy of your educational record.)

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Mail this form and your check for $135, made payable to UW-Extension, to: Registrations/105, Wisconsin Center, 702 Langdon Street, Madison, WI 53706. To register by phone, please call: (608) 262-7942.

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

SEX: □ Female □ Male
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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.

OPI-88
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
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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.