

BROADCAST ENGINEERING AND MANAGEMENT SEMINAR

(Formerly BROADCASTERS' CLINIC) October 7-10, 1985

Supported in part by Radio World and TV Technology

THE UNIVERSITY OF WISCONSIN PROUDLY OFFERS...

. . . the 31st Annual BROADCAST ENGINEERING AND MANAGEMENT SEMI-NAR (formerly BROADCASTERS' CLINIC), long considered a "must" within the industry for broadcast engineers eager to remain on the leading edge of their profession.

The 1985 Broadcast Engineering and Management Seminar is carefully planned to meet the often overlapping needs of broadcast engineering rechnical and management personnel. The program agenda for the four day seminar is intentionally varied to permit the professional broadcast engineer to come in contact with research and technical advances in many areas of broadcast engineering. We believe that it is vital that the well-informed broadcast engineer of the mid-1980's be aware of research trends and developments in all facets of our rapidly growing profession.

The program for Monday, October 7, will primarily emphasize broadcast engineering management issues, although the day's sessions are flexibly designed to accommodate the needs and interests of broadcast engineers at all levels. Seminar talks and case study presentations will be geared to assist the broadcast engineer in effectively meeting the growing challenges of communicating with station management, supervising staff engineers, and handling the increasing variety of complex decision-making challenges that face engineering management today.

The program for Tuesday through Thursday, October 8 through 10, will emphasize technical issues including state-of-the-art engineering research, emerging technologies, and a wide variety of other topics. The highly popular FCC Update panel and the Nuts and Bolts session moderated by Steve Brown will also return this year. Industry exhibits will be extensive and varied.

Plan to attend the University of Wisconsin Broadcast Engineering and Management Seminar, this year supported in part by Stevan B. Dana, publisher of Radio World and TV Technology. Help us celebrate our 31st year of valuable education and service to the broadcast engineering profession.



GENERAL CONFERENCE INFORMATION

DATES

Monday through Thursday, October 7 through 10, 1985.

LOCATION

All sessions of the Broadcast Engineering and Management Seminar will be held at the Holiday Inn Southeast, Highway 12 and 18 at 1-90, Madison, Wisconsin, 53704. Phone: (608)222-9121.

FEE

BROADCAST ENGINEERING AND MANAGEMENT SEMI-NAR - \$175. 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.

BROADCAST ENGINEERING MANAGEMENT Session only (October 7) - \$65. Fee covers program materials, a continental breakfast, luncheon, break refreshments and an evening reception with hot hors d'oeuvres.

BROADCAST ENGINEERING TECHNICAL Sessions only (October 8, 9, 10) - \$125. 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 October 1, 1985. 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 1-90, Madison, Wisconsin, 53704. Phone: (608) 222-9121. We suggest that you make your reservations before September 20, 1985, while discounted rooms are being held for the seminar. Please specify that you are attending 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 MANAGEMENT Session only, 0.8 CEU; 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.

PROGRAM: BROADCAST ENGINEERING AND MANAGEMENT SEMINAR

Monday, October 7, 1985

7:45 a.m.	Registration and Continental Breakfast		
9:15	Introduction and Welcome to the Engineering Management Seminar Don Borchert, Director of Engineering, WHA Radio and Television, Madison, WI		Problem Solving Through Engineering Management Case Studies H. Richard Hiner, Director of Navy Broadcasting Services, Washington, D.C. John Cummuta, General Manager, WCFL, Chicago, IL
9:30	Changing Roles for Engineering Managers Larry Busse, Executive Vice President, Gillett Communications, Nashville, TN		
10:30	Introduction to Problem Solving Through the Case Study Method H. Richard Hiner, Director of Navy Broadcasting Services, Washington, D.C.	2:30	
12:00 p.m.	Luncheon and Address: Instinctive Management John Cummuta, General Manager, WCFL, Chicago, IL		
		4:30	Reception, Cash Bar and Equipment Exhibits

Tuesday, October 8, 1985

7:45 a.m.	Continuing Registration and Continental Breakfast	12:00	Luncheon and Address:
9:15 9:30	Introduction and Welcome to the Broadcast Engineering Technical Seminar Don Borchert, Director of Engineering, WHA Radio and Television, Madison, WI More Applications of Time-Delay Spectrometry		Current Broadcast Transmission Alternatives John Patterson, Engineer, Midwestern Relay Cd., Milwaukee, W1
		2:00 p.m.	AM Stereo Proof of Performance Techniques Al Resnick, Chief Engineer, WLS-AM, Chicago, IL
	Jim Brown, Chief Engineer, Bridgewater Sound, South Holland, IL	2:45	Advancements in Applications Utilizing Small Format Camera Tubes
10:15	Break		Jerry Cohen, Product Manager, Sony Broadcast, New York, NY
10:30	Principles of Operation of Digital Audio Computers Jim Woodworth, National Sales Manager, Compusonics, Denver, CO	3:30	Non-Ionizing Radiation: Meeting the ANSI Standard Donald L. Markley, Consulting Engineer, Peoria, IL
11:15	FCC Update	4:30	Reception, Cash Bar and Equipment Exhibits
	Garrett Lysiak, FCC, St. Paul, MN George Sklom, FCC, Chicago, IL	6:00	Dinner (Optional)

Wednesday, October 9, 1985

7:45 a.m.	Registration and Continental Breakfast	12:00 p.m.	Luncheon and Address:
8:30	Building an AM Directional Antenna from Scratch Mark Persons, President, M.W. Persons and Associates,		Dealing with Non-RF Interference Mark Durenberger, Director of Technical Development, Hubbard Broadcasting, St. Paul, MN
	Brainard, MN	2:00	Methods of AM/FM Technical Measurements:
9:15	Making the Directional Array Play Doug C. McDonell, Broadcast Engineering Consultant,		Avoiding Errors Garrett Lysiak, Engineer in Charge, FCC, St. Paul, MN
	Madison, WI	2:45	Multi-Station FM Broadcast Antennas
10:00	Break		Ron Fisk, Principal Engineer, Harris Broadcast, Quincy, IL
10:15		3:30	Service and Maintenance of Audio Cart Machines Dave Montgomery, Technical Service Manager, International Tapetronics/3M, Bloomington, IL
		4:30	Reception, Cash Bar and Equipment Exhibits
11:15	Practical Tips on OP AMP Use in Your Console Bill Sacks, President/Chief Engineer, Straight Wire Audio, Arlington, VA	6:30	Broadcast Engineering Forum (Nuts & Bolts Session) Stephen Brown, Moderator, Chief Engineer, WLTE, Minneapolis, MN

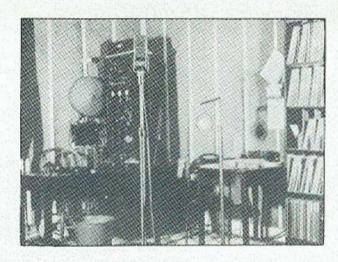
Thursday, October 10, 1985

7:45 a.m.	Continental Breakfast	11:15	Fiber Optic Applications for Non-Telephony
8:30	Advancements in Stereo Generation for Television Audio Geoff Mendenhall, Vice President, Engineering,		Services Mike Galli, Engineer, Grass Valley Group, Grass Valley, CA
	Broadcast Electronics, Inc., Quincy, IL	12:00 p.m.	
9:15	Review of SMPTE RS-422 Interface and its Impact on the Broadcast Industry Ray Dulye, Senior Support Product Engineer, AMPEX		The Broadcast Engineer and AT&T Steve Eliason, Senior Account Executive, AT&T Communications, Minneapolis, MN
	Corporation, Redwood City, CA	2:00	System Design for Stereo Television Operation
10:00	Break		James Swick, Engineer, WTTW, Chicago, IL.
10:15	Practical Transmitter Conversion for Television Stereo John Shipley, Product Manager, RCA Broadcast, Camden,	3:00	Adjournment

During the past 30 years, Broadcasters' Clinic has provided significant management information and technical updating for the broadcast engineer. This will continue to be the goal of the University of Wisconsin. The 1985 Broadcast Engineering and Management Seminar welcomes the support of Stevan B. Dana, publisher of Radio World and TV Technology.

Don Borchert





1985 PROGRAM COMMITTEE

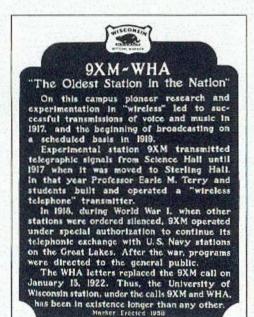
Don Borchert, WHA Radio and TV, Madison, WI Steven Brown, WLTE, Minneapolis, MN John Freberg, WXRT, Chicago, IL Ray Hernday, WTMJ, Milwaukee, WI Gary Mach, UW-Green Bay, Green Bay, WI Harry Priester, WLS-FM, Chicago, IL Warren Shulz, WFYR, Chicago, IL

Among the many exhibitors at the 1985 Broadcast Engineering and Management Seminar will be the following:

3M CORPORATION ALCOA-NEC AMPEX AUDIO BROADCAST GROUP AUDIO-SONICS CORPORATION AVC SYSTEMS AVONIX, INC. BRADLEY BROADCAST SALES BRIDGEWATER SOUND BROADCAST AUDIO CORPORATION BROADCAST ELECTRONICS, INC. EEV, INC. EMMONS ASSOCIATES ENTERPRISES, INC. FULL COMPASS HARRIS BROADCAST INTERNATIONAL TAPETRONICS

LENCO, INC.
M.W. PERSONS AND ASSOCIATES
MICROPROBE ELECTRONICS
PRO AUDIO GENERAL STORE
RCA BROADCAST
ROSCOR CORPORATION
SKYLINE COMMUNICATIONS
SONY BROADCAST
TEKTRONIX, INC.
TODD COMMUNICATIONS, INC.
VICTOR DUNCAN
VIDEO IMAGES
VIDEO MIDWEST

...and many more!!



REGISTRATION FORM

Broadcast Engineering and Management Seminar

October 7, 8, 9 and 10, 1985 Holiday Inn Southeast, Highway 12 and 18 at I-90, Madison, Wisconsin 53704/(608) 222-9121

Social Security Number:	To register, phone or mail this form along with your check made payable to UW-Extension to: Registration Office, The Wisconsin Center, 702 Langdon Street, Madison, WI 53706. Phone (608) 262-7942.		
Phone: ()	This information is collected to enhance the programming effonts of University of Wisconsin—Extension and is evoluntary. 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		
Payment Enclosed: Broadcast Engineering and Management Seminar, October 7, 8, 9, 10 – \$175 Broadcast Engineering Management Session only, October 7 – \$65 (A-86-8400-0276) Broadcast Engineering Technical Sessions only, October 8, 9, 10 – \$125 (A-86-8400-0277) Optional Top Sirloin Steak Dinner, October 8 – \$12	This program is supported in part by funds administered through UW-Extension of part of a coordinated statewide Extension program. Please white is at time of regionation if you are handicapped and desire special accommodations. Requests will kept confidential. UW-Extension provides equal opportunities in employment and improveming including Title IX regularization.		