

The University of Wisconsin-Extension

## **29TH ANNUAL BROADCASTERS' CLINIC**

September 27, 28 and 29, 1983

Madison, Wisconsin



The University of Wisconsin-Extension

REGISTRATION AND CONTINENTAL

BROADCAST ENGINEER

NEERING

EXHIBIT

SATELLITE EARTH TERMINALS AND

USING SCA'S ON FM-APPLICATIONS / ENGI-

RECEPTION, CASH BAR AND EQUIPMENT

offers the

**PROGRAM** 

7:45 am

2:45

3:30

4:30

## 29TH ANNUAL BROADCASTERS' CLINIC

Tuesday, September 27, 1983		

	BREAKFAST	
9:00	INTRODUCTION AND WELCOME	Don Borchert, Director of Engineering, WHA Radio and Television, Madison, WI. H. Richard Hiner, General Manager, WHA-TV, Madison, WI
9:30	MICROWAVE PATH STUDIES	Donald L. Markley, Consulting Engineer, Peoria, IL
10:15	BREAK	₹
10:30	TLC FOR AM ANTENNA SYSTEMS	Doug C. McDonell, Broadcast Engineering Consultant, Madison, WI
11:15	FCC UPDATE	Garrett Lysiak, FCC, St. Paul, MN George Sklom, FCC, Chicago, IL
12:00	LUNCHEON AND ADDRESS: TAMING TECH- NOLOGY—A SURVIVAL KIT FOR BROADCAST- ERS	Robert Stow, Director of Production Systems Analysis, CBS Television, New York, NY
2:00 pm	HOW TO BE A BROADCAST ENGINEER AND KEEP YOUR FAMILY TOO	Mark Durenberger, Director of Technical Development, Hubbard Broadcasting, St. Paul, MN

THE

ville, WI

Earth, MN

Rick Evans, Communications Consulting Engineers, Theins-

Mike Hendrickson, Group CE, Hedberg Broadcasting, Blue

# Wednesday, September 28, 1983

7:45 an	CONTINUING REGISTRATION AND CONTINENTAL BREAKFAST	A STATE OF THE STA
8:30	AUTOMATED AUDIO TEST SYSTEMS	Robert Metzler, Tektronix Inc., Beaverton, OR
9:15	REBUILDING THE WFMT CHICAGO STUDIOS	James S. Addie, Chief Engineer, WFMT, Chicago, IL
10:00	BREAK	
10:30	PLANNING, DESIGN, AND CONSTRUCTION OF BROADCAST FACILITIES	Frank W. Rees, Jr., Frank Rees Associates, Oklahoma City, OK
11:15	BROADCAST LOGS: ROLL YOUR OWN	Garrett Lysiak, FCC, St. Paul, MN
12:00	LUNCHEON AND ADDRESS: EVOLVING TECH- NOLOGIES AND THEIR EXPECTED IMPACT ON THE BROADCAST INDUSTRY	Bernie Lechner, Advanced Development Project Leader, RCA, Princeton, NJ
2:00 pm	DIGITAL AUDIO EARTH STATIONS	Dr. Chuck Windett, Scientist, Scientific-Atlanta, Atlanta, GA
2:45	USING HY-COM NOISE REDUCTION IN FM BROADCASTING	Bill Sacks, President/Chief Engineer, Straight Wire Audio, Arlington, VA
3:30	POWER TUBE REBUILDING AND OPERATION	John Sullivan, President, Econco Broadcast Service, Woodland, CA
4:15	RECEPTION, CASH BAR AND EQUIPMENT EXHIBIT	
6:00	DINNER (Optional)	
8:00	BROADCAST ENGINEERING FORUM (NUTS AND BOLTS SESSION)	Moderator: Stephen Brown, WCCO-FM, Minneapolis, MN

## Thursday, September 29, 1983

7:45 am	CONTINENTAL BREAKFAST		
8:30	IMPEDANCE MATCHING AND TERMINATIONS IN AUDIO CIRCUITRY DESIGN	Jim Brown, Chief Engineer, Bridgewater Sound, South Holland, IL	
9:15	CONTEMPORARY AUDIO INTERFACING IN THE BROADCAST ENVIRONMENT	Craig Connally, President, NEOTEK, Chicago, IL	
10:00	BREAK		
10:30	NEW UHF TELEVISION EXCITER IMPROVE- MENTS	William A. Resch, Engineering Development, Harris Corporation, Quincy, IL	
11:15	BATTERIES FOR ENG/EFP	Anton Wilson, Anton Bauer Company, Inc., Shelton, CT	
12:00	LUNCHEON AND ADDRESS: SEARS TOWER PROJECT	Warren Shulz, Chief Engineer, RKO/WFYR, Chicago, IL	
2:30 pm	ADJOURNMENT	Goodbye until next year. See you at the 1984 30th Annual Broadcasters' Clinic!	

## REGISTRATION FORM

## BROADCASTERS' CLINIC

T43-5044-0277

September 27, 28 and 29, 1983; Sheraton Inn and Conference Center; Madison, Wisconsin

Social Security Number:	Phone: ( )	
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Payment enclosed: \$\B\$5 registration fee \$\B\$12 optional dim		

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

UW-Extension provides equal opportunities in employment and programming including Title IX requirements.

The University of Wisconsin-Extension offers the

## **29TH ANNUAL BROADCASTERS' CLINIC**

#### **ABOUT THE CONFERENCE**

The University of Wisconsin-Extension proudly presents the 29th annual Broadcasters' Clinic—long considered a "must" within the industry for broadcast engineers eager to remain on the leading edge of their profession.

Broadcasters' Clinic 1983 features the most impressive array of speakers, topics and exhibits to date. Two dozen leading engineers, technologists, researchers and administrators from around the country will address a number of topics of vital concern to the broadcast engineer: dealing with emerging technologies; interpreting recent FCC decisions; designing broadcast facilities; and understanding state-of-the-art research in the field of broadcast engineering.

The popular "nuts and bolts" broadcast engineering forum will return in an expanded format this year. Industry exhibits will be even more extensive. You won't want to miss the 1983 Broadcasters' Clinic!

#### **GENERAL CONFERENCE INFORMATION**

DATES: Tuesday, Wednesday and Thursday, September 27, 28 and 29, 1983.

LOCATION: All conference sessions will be held at the Sheraron Inn and Conference Center, 706 John Nolen Drive, Madison,

Wisconsin.

FEE: \$85. Fee covers program materials, 3 continental breakfasts, 3 luncheons, 3 break refreshments and 2 evening

receptions with hot hors d'oeuvres. The Wednesday evening dinner is optional for an additional charge of \$12.00. You are entitled to an 80% refund if conference cancellations are received prior to September 20, 1983. 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 Sheraton Inn and Conference Center, 706 John Nolen Drive,

Madison, Wisconsin, 53713. Phone (608) 251-2300. We suggest that you make your reservations before September 1, 1983, while discounted rooms are being held for the conference. Please specify that you are attending Broadcasters'Clinic. If you are handicapped and desire special accommodations, please advise us at least two weeks

before the conference. Requests will be kept confidential.

CREDIT: A total of 2.2 Continuing Education Units (CEUs) can be earned from the University of Wisconsin-Extension by

individuals attending the conference.

INFORMATION: For further conference information, contact Don Borchert, Director of Engineering, WHA Radio and Television,

Vilas Communication Hall, 821 University Avenue, Madison, Wisconsin 53706. Phone: (608) 263-2157

#### PROGRAM COMMITTEE

Don Borchert, WHA Radio and Television, Madison, WI Elmo Reed, Post Corporation, Green Bay, WI Warren Shulz, WFYR, Chicago, IL Ray Hernday, WTMJ, Milwaukee, WI Stephen Brown, WCCO-FM, Minneapolis, MN Harry Priester, WLS-FM, Chicago, IL John Freberg, WXRT, Chicago, IL

### **EQUIPMENT EXHIBITORS**

Among the organizations exhibiting at the 1983 Broadcasters' Clinic are the following:

ADDA Allied Broadcasting Ampex Corporation Andrew Corporation Anton Bauer AVC Systems Avonix Bridgewater Sound Broadcast Electronics, Inc. Color Video Services Delta Electronics Econco Electronic Industries Emmons Associates Enterprises, Inc. Flanner Pro Audio Full Compass Systems Grass Valley

Harris Corporation

International Tapetronics

Mark Persons Associates McCurdy Radio Industries Mike Dyer Microprobe Electronics NEOTEK RCA Broadcast Roscor Scientific-Atlanta Select Sound Skyline Communications Sonv Sound Technology Straight Wire Audio Tektronix, Inc. The Huff Company Todd Communications Victor Duncan Video Images Video Midwest 3-M Corporation

Don Borchert

