The University of Wisconsin-Extension

29TH ANNUAL BROADCASTERS’ CLINIC

September 27, 28 and 29, 1983    Madison, Wisconsin
The University of Wisconsin-Extension

offers the

29TH ANNUAL BROADCASTERS' CLINIC

PROGRAM

Tuesday, September 27, 1983

7:45 am  REGISTRATION AND CONTINENTAL 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 TECHNOLOGY—A SURVIVAL KIT FOR BROADCASTERS
        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

2:45    SATELLITE EARTH TERMINALS AND THE BROADCAST ENGINEER
        Rick Evans, Communications Consulting Engineers, Theinsville, WI

3:30    USING SCA'S ON FM—APPLICATIONS / ENGINEERING
        Mike Hendrickson, Group CE, Hedberg Broadcasting, Blue Earth, MN

4:30    RECEPTION, CASH BAR AND EQUIPMENT EXHIBIT
Wednesday, September 28, 1983

7:45 am  CONTINUING REGISTRATION AND CONTINENTAL BREAKFAST

8:30  AUTOMATED AUDIO TEST SYSTEMS

9:15  REBUILDING THE WFMT CHICAGO STUDIOS

10:00  BREAK

10:30  PLANNING, DESIGN, AND CONSTRUCTION OF BROADCAST FACILITIES

11:15  BROADCAST LOGS: ROLL YOUR OWN

12:00  LUNCHEON AND ADDRESS: EVOLVING TECHNOLOGIES AND THEIR EXPECTED IMPACT ON THE BROADCAST INDUSTRY

2:00 pm  DIGITAL AUDIO EARTH STATIONS

2:45  USING HY-COM NOISE REDUCTION IN FM BROADCASTING

3:30  POWER TUBE REBUILDING AND OPERATION

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

Robert Metzler, Tektronix Inc., Beaverton, OR

James S. Addie, Chief Engineer, WFMT, Chicago, IL

Frank W. Rees, Jr., Frank Rees Associates, Oklahoma City, OK

Garrett Lysiak, FCC, St. Paul, MN

Bernie Lechner, Advanced Development Project Leader, RCA, Princeton, NJ

Dr. Chuck Windett, Scientist, Scientific-Atlanta, Atlanta, GA

Bill Sacks, President/Chief Engineer, Straight Wire Audio, Arlington, VA

John Sullivan, President, Econco Broadcast Service, Woodland, CA
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 IMPROVEMENTS
       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
September 27, 28 and 29, 1983; Sheraton Inn and Conference Center; Madison, Wisconsin

Social Security Number: ___________________________ Phone: (________) ________
(Not mandatory - used only to ensure accuracy and accuracy of your educational record)

Name: _________________________________________

Title: __________________________________________

Organization/Station: ____________________________

Business Address: ________________________________

Payment enclosed: □ $85 registration fee □ $12 optional dinner on Wednesday, Sept. 29

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 Sheraton 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 Priest, 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
Sony
Sound Technology
Straight Wire Audio
Tektronix, Inc.
The Huff Company
Todd Communications
Victor Duncan
Video Images
Video Midwest
3-M Corporation

Don Borchert