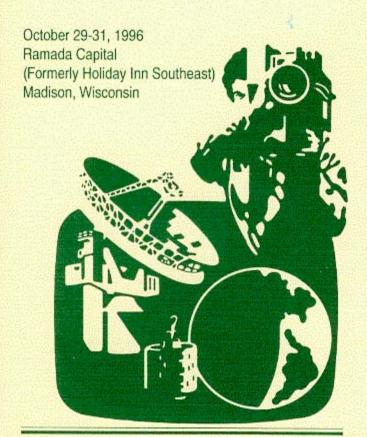
Presenting the 42nd Annual

# BROADCASTERS CLINIC

and

Upper Midwest Regional SOCIETY OF BROADCAST ENGINEERS MEETING



### **BROADCASTERS CLINIC 1996**

We are pleased to present the program agenda for the 1996 conference. The papers reflect a very broad spectrum of current technologies. As you review the various presentations we hope you will find subjects of interest to you.

The Program Planning Group

## **TUESDAY, OCTOBER 29**

TUESDAT, UCTUBER 29		
7:45 a.m.	Registration and Continental Breakfast	
9:15	Advanced Digital FM Exciter Technology David Hershberger, Principal Engineer Continental Electronics Corp., Dallas, TX	
10:00	Digital Demodulation of Commercial Broadcasting Greg Buchwald Motorola, Schaumberg, IL	
10:45	Break	
11:00	Applying Digital Networking Techniques to Single and Multiple Site Remote Transmitter Plant Operations John E. Leonard, Jr., Director of Broadcast Site Control Gentner Communications Corp., Salt Lake City, UT	
Noon	Luncheon Address - Broadcast Station Security Neil Purtell FBI, Madison, WI	
1:30 or 2:00 p.m.	What Is The FCC Doing To You Now?  Donald L. Markley, Engineering Consultant Peoria, IL	
2:45	Digital Workstation Backup-Price vs. Functionality Jim Thomason Harris, Quincy, IL	
3:30	Break	
3:45	New Opportunities Available to Short Spacing - FM Allocations Doug Vernier, Engineering Consultant V-Soft Communications, Cedar Falls, IA	

4:30	Fanir	ment	Exhibits
7.50	Lyun	micht	CAMBUILS

#### 7:30 Engineering Forum

Steve Brown, Ken Dixon & Gary Mach

# WEDNESDAY, OCTOBER 30

7:45 a.m.	Registration and Continental Breakfast
8:30	An Antenna Is An Antenna Is An Antenna Robert Surette, Manager RF Engineering Shively Labs, Bridgton, ME
9:15	Evolving Transport Technology Robert Raasch Masters Engineering Group Ltd., Big Bend, WI
10:00	Equipment Exhibits
1:30 p.m.	From NTSC To Digital Television & How We Got There Charles W. Rhodes, Consultant Upper Marlboro, MD
2:15	Telco Remote Audio on POTS v,34 and ISDN Lynn Distler Comrex Corporation, Acton, MA
3:00	Break
3:15	Power Utility Interference Rick Krakau Wisconsin Power & Light, Madison, WI
4:00	Store And Forward Satellite Technologies What Can And Cannot Be Expected From Satellite Digital Audio Digital Video Compression Jeff Nordstrom Harris Broadcast Products, Richmond, IN John Skaggs Wegener Communications, Duluth, GA
6:30	Reception
7:30	Upper Midwest Regional Meeting of the Society of Broadcast Engineers Followed By EAS Local Plan - Case Studies Hosted by SBE Chapter 24, Madison, WI

# THURSDAY, OCTOBER 31

7:45 a.m. Continental Breakfast 8:30 4:2:2 Serial Component Digital Production Switcher Doug Buterbaugh, Marketing Manager -Switching Products Philips Broadcast Television Systems, Simi Valley, CA 9:15 Introduction To Betacam SX Michael Taylor Sony 10:00 Break 10:15 D-5 HD Cost Effective Production Quality **HD-DVTR Using 4:1 Compression** Phil Livingston, Director of Product Management Panasonic Broadcast & Television, Secaucus, NJ 11:00 A Treatise On Serial/Analog Conversion Robert L. Zuelsdorf, Senior Design Engineer Ensemble Designs, Grass Valley, CA Luncheon Noon Stacked Antenna Considerations For HDTV 1:15 Conversion Ernest H. Mayberry, Antenna Design Leader Dielectric Communications, Raymond, ME 2:00 A Report From The Field On The Performance Of Diacrode 60 **KW UHF Television Transmitter** Timothy P. Hulick, PhD. Acrodyne Industries, Blue Bell, PA **ATV Systems For The UHF Broadcaster** 2:45 Mark A. Aitken, Director Comark, Chalfont, PA 3:30 Transmitter Facilities Design And **Construction For Digital Television** LDL Communications, Louisville, CO 4:15 Adjournment... See you at Broadcasters Clinic 1997

### REGISTRATION FORM **BROADCASTERS CLINIC 1996**

October 29-31, 1996

I will attend: (Please check)
☐ Tuesday ☐ Wednesday ☐ Thursday
Fees: \$135 (Any two days) \$165 (All three days)
Amount enclosed: \$
Name:
Organization/Station:
Business Address:
street
city/state/zip
Phone: ( )
area code daytime number/evening number  Social Security No.:  Not mandatory - used to ensure accessibility and accuracy of your educational record.
Mail this form and your check made payable to
Broadcasters Clinic:
Don Borchert
1955 Oakland Avenue

To register by phone, please call 608-255-2600 or fax to 608-256-3986.

Sun Prairie, WI 53590

#### **GENERAL INFORMATION**

#### DATES

Tuesday through Thursday, October 29-31, 1996

#### LOCATION

All sessions of the **Broadcasters Clinic 1996** are held at the Ramada Capital Conference Center, Highway 12 and 18 at I-90, Madison, Wisconsin 53704. Phone 608-222-9121.

#### FEE

\$135 - Any two days \$165 - All three days

Fee covers program materials, continental breakfasts and luncheons as indicated, refreshment breaks, and an evening reception with hot hors d'oeuvres (cash bar).

You are entitled to an 80% refund if cancellations are received prior to October 15, 1996. 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 Ramada Capital Conference Center, Highway 12 and 18 at I-90, Madison, Wisconsin 53704. Phone 608-222-9121. We suggest that you make your reservations before October 1, 1996, while discounted rooms are being held for the seminar. Please specify that you are attending the **Broadcasters Clinic 1996**.

#### CREDIT

Continuing Education Units (CEU's) provided by University of Wisconsin Engineering Professional Development.

#### **INFORMATION**

For further conference or exhibitor information, contact Don Borchert, 1955 Oakland Avenue, Sun Prairie, Wisconsin 53590. Phone 608-837-3462.

#### 1996 PROGRAM COMMITTEE

Don Borchert, Madison, WI
John Bimrose, Microspace, Raleigh, NC
Craig Bluschke, UW Engineering
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Ken Dixon, WHA Television, Madison, WI
Mark Durenberger, Teleport Minnesota, Minneapolis,
MN

Jim Hermanson, WKOW-TV, Madison, WI Vern Killion, KRVN Radio, Lexington, NE Wil Koeller, WTMJ, Inc., Milwaukee, WI Gary Mach, University of Wisconsin, Green Bay, WI Elmo Reed, Retired, Green Bay, WI Blaine Webster, WLIT Radio, Chicago, IL

#### **EXHIBITORS**

Among the many exhibitors at the BROADCASTERS CLINIC 1996 are:

Ice Krackers

3M Center A&D Cartridge Rebuilding Acrodyne Industries Advanced Broadcast Systems Andrew Corporation APT-Audio Pro Technology Arrakis Systems Audio Broadcast Group Avid Technology Avonix Video Systems **Broadcast Communications** Broadcast TV Systems Broadcasters General Store C-Cor Electronics CCA Electronics Comark Communications Comsat RSI, Mark Antennas Continental Electronics Dielectric Communications Dorrough Electronics Dytec Electronic Industries Emmons Associates Fuji Photo Film Fujinon Full Compass Systems Gepco International

Gorman-Redlich Mfg.

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ITS Corporation Joseph Electronics LDL Communications Leitch Litton Communications Midwest Electronic Sales Associates Mobile Media Odetics Broadcast Panasonic Broadcast & TV Pinnacle Systems Ram Broadcast Systems RF Systems Richardson Electronics Roscor Wisconsin Secore Electronics Shively Labs Skyline Communications Society of Broadcast Engineers Sony Electronics Spencer Technologies Switchcraft Tektronix Tektronix - Grass Valley TFT Video Images Videotek Weather Central

Wireready Newswire Systems