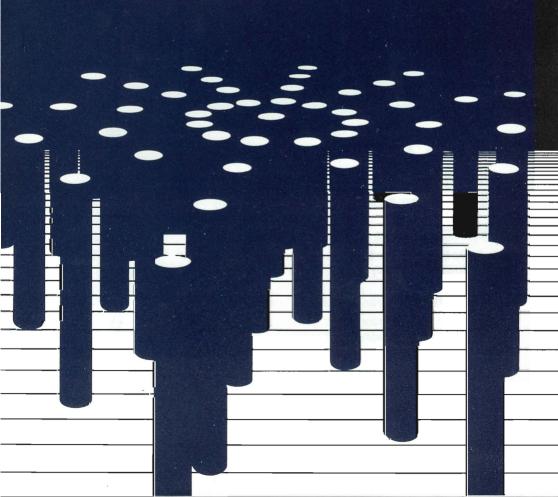


# BROADCASTERS' CLINIC

October 16-19, 1989 Madison, Wisconsin

Supported in part by Radio World and TV Technology



# The University of Wisconsin proudly presents...the 35th Annual

# **BROADCASTERS' CLINIC 1989**

A quality conference for the motivated Broadcast Engineer...

#### New and Improved Format and Fee Structure!

#### **MONDAY, OCTOBER 16**

Morning General Broadcast Engineering Sessions

Afternoon Concurrent Workshops Including Management

Evening Our Famous "Pizza-Engineering Forum"

#### **TUESDAY, OCTOBER 17**

All day Technical Sessions (Radio)

Evening Equipment Exhibits

#### **WEDNESDAY, OCTOBER 18**

Morning Technical Sessions (Radio and Television)

Afternoon Equipment Exhibits

Evening Engineering Forum (Nuts and Bolts)

#### **THURSDAY, OCTOBER 19**

Morning 'til? Technical Sessions (Television)

#### REGISTRATION:

We hope you can be with us for the entire conference. However, you may register for any two or three days you choose.

#### AND MORE...

Watch for more information and program updates in Radio World & Television Technology.

Wom Bould

# PROGRAM: BROADCASTERS' CLINIC 1989

#### **MONDAY, OCTOBER 16**

7:45 am Registration and Continental Breakfast

9:15 General Broadcast Engineering Sessions

The Educated Technologist Citizen

Mark Durenberger, Director of Network Development

WCCO Sports Networks, Minneapolis, MN

A Practical Approach to Getting the Greatest Benefits from NRSC

William Ammons, CRL Systems, Tempe, AZ

FMX™: Consumer and Professional Applications

Thomas Keller, Broadcast Technology Partner, Springfield, IL

12:15 pm Luncheon

1:30 - 4:30 Concurrent Workshops

Antenna Systems for Radio

Don Markley, D.L. Markley & Associates Ralph Evans III. Ralph Evans & Associates

John Saddler, Federal Communications Commission

Technical Management

John Commuta, President, Market-Line

FX 50: The FM Exciter with Audio Performance that

Rivals CD Specifications

Ed Anthone, Design Engineer, Broadcast Electronics

7:30 Our Famous Pizza-Engineering Forum

Mark Durenberger

#### **TUESDAY, OCTOBER 17**

7:45 am Registration and Continental Breakfast

9:00 Engineering Sessions: Radio

Where Are You? Use the Global Positioning System Garrett Lysiak, President, Owl Engineering, St. Paul, MN

Off-Premises Monitoring and Remote Control Via Satellite Peter Burk, President, Burk Technology, Teppell, MA

Do Folded Di-Poles Really Work? (discussion based on experience)

Lawrence Behr, President, L.B.A. Group, Greenville, NC

950 MHz Aural STL/TSL Systems (including alternatives in

congested areas)

Jeff Nordstrom, Allied Satellite

12:15 Luncheon

1:30 Engineering Sessions: Radio

ISDN: Its Impact on the Broadcast Engineer

A presentation by AMERITECH

Satellite Communications for Broadcast: A Ku Band Update

John Brimrose Mark Durenberger Ray Connover RCA/GE Americom

And More . . .

4:30 Equipment Exhibits Open

Reception and Cash Bar

#### WEDNESDAY, OCTOBER 18

7:45 am Registration and Continental Breakfast

9:00 Engineering Sessions: Radio and Television

Integrating Leading Edge Technology in Current Audio Production

Bill Mullin, Operations Manager, Pyramid Audio

Compact Disc: Theory and Maintenance

Denon America, Parsippany, NJ

Utilizing CAD for Broadcast Applications Kahn, Phillips & Associates, Oak Park, IL

PC-Controllable Automated Video Measurements

Mel Infanzon, TEKTRONIX

And More . . .

Noon Equipment Exhibits Open

6:30 Engineering Forum

Moderator: Ken Dixon, WHA Television

#### **THURSDAY, OCTOBER 19**

7:45 Registration and Continental Breakfast

9:00 Engineering Sessions: Television

Television Station Automation

David Bird, Broadcast Television Systems

How Expansion and Contraction Can Cause Problems in Rigid

Coaxial Transmission Line (discussion of solutions)

Andrew Corporation

Multi-Channel UHF Antenna Systems

Ernest Mayberry, LDL Communications, Laurel, MD

The D2 Format: Field Reports

William Carpenter, AMPEX Corporation

12:15 Luncheon

??? Adjournment . . . See you next year!

# **REGISTRATION FORM**

Broadcasters' Clinic 1989 (0280)

October 16-19, 1989 Holiday Inn Southeast, Highway 12 and 18 at I-90 Madison, Wisconsin 53704 (608) 222-9121 I will attend: (Please check) ☐ Mon. ☐ Tues. ☐ Wed. ☐ Thur. Fees: \$100 (Any two days) \$135 (Any three days) \$160 (All four days) Amount enclosed: \$ Social Security No: \_ (Not mandatory—used only to ensure accessibility and accuracy of your educational record.) Title: Organization/Station: Business Address: street city/state/zip Phone: ( )\_\_\_\_ daytime number/evening number area code Mail this form and your check, made payable to UW-Madison, 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-Madison and is voluntary. 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 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

OPI-89

including Title IX requirements.

### 1989 PROGRAM COMMITTEE

Don Borchert, University of Wisconsin-Madison John Freberg, WXRT, Chicago, IL Vern Killion, KRVN, Lexington, NE Wil Koeller, WTMJ, Milwaukee, WI Gary Mach, University of Wisconsin-Green Bay Doug McDonell, Technical Consultant, Madison, WI Ray Topp, Rochester, MN

Among the many exhibitors at the 1989 Broadcasters' Clinic will be the following:

A & D CARTRIDGE REBUILDINGS ALLIED BROADCAST EQUIPMENT AMPEREX CORPORATION AMPEX CORPORATION AUDIO PRECISION, INC. AUDIO TECHNOLOGIES, INC. **AUTOMATIC FIRE PROTECTION** AVONIX **BROADCAST COMMUNICATIONS** BROADCAST ELECTRONICS, INC. BROADCASTERS GENERAL STORE BTS BROADCAST SYSTEMS E.E.V., INC. FULL COMPASS SYSTEMS, LTD. HARRIS BROADCAST GROUP INTERNATIONAL TAPETRONICS CORPORATION LDL COMMUNICATIONS M/A-COM, MAC, INC. MICROWAVE RADIO CORPORATION **MOTOROLA** NEC AMERICA, INC. PANASONIC BROADCAST SYSTEMS RAM BROADCAST SYSTEMS RADIATION SYSTEMS, MARK ANTENNA DIVISION ROSCOR CORPORATION SKYLINE COMMUNICATIONS SOUND TECHNOLOGY SONY CORPORATION OF AMERICA THE TAPE COMPANY TEKTRONIX, INC. 3M CORPORATION TODD COMMUNICATIONS VIDEO IMAGES

- AND MORE -

## **GENERAL CONFERENCE INFORMATION**

#### DATES

Monday through Thursday, October 16 through 19, 1989

#### LOCATION

All sessions of the **Broadcasters' Clinic 1989** will be held at the Holiday Inn Southeast, Highway 12 and 18 at I-90, Madison, Wisconsin, 53704. Phone: (608) 222-9121.

#### FEE

\$100 - Any two days

\$135 - Any three days

\$160 - All four days

Fee covers program materials, continental breakfasts and luncheons as indicated, refreshment breaks, the Pizza-Engineering forum, and two evening receptions with hot hors d'oeuvres (cash bar).

You are entitled to an 80% refund if cancellations are received prior to October 9, 1989. 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 25, 1989, while discounted rooms are being held for the Seminar. Please specify that you are attending the **Broadcasters' Clinic 1989**.

#### CREDIT

Conference enrollees can earn up to 2.8 Continuing Education Units (CEUs) from the University of Wisconsin.

#### INFORMATION

For further conference 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 offered by UW-Madison in cooperation with UW-Extension.