32ND ANNUAL
University of Wisconsin

BROADCAST ENGINEERING
AND MANAGEMENT SEMINAR
(Formerly BROADCASTERS' CLINIC)

September 15-18, 1986

Supported in part by
Radio World and TV Technology
The University of Wisconsin
Proudly Presents . . . the 32nd annual

BROADCAST ENGINEERING AND MANAGEMENT SEMINAR
(formerly Broadcasters Clinic)

By whatever name you choose to call this conference, the most important thing to remember is that it is the goal of the University of Wisconsin and "Radio World" and "TV Technology" to offer up-to-date management philosophies and significant technical information to broadcast engineers.

I have never been more enthusiastic about our program content and the quality of the speakers who will be with us during our 1986 seminar.

The program for Monday, September 15, is dedicated entirely to engineering management issues and supervisory situations. The instructors are Dick Hiner, John Cummuta, and Jim Loupas.

The technical sessions begin on Tuesday, September 16, and continue on September 17 and 18. Please look over the agenda carefully and I think you will agree our speakers list resembles the "Who's Who in Broadcast Engineering." Technical subjects include RF Radiation, DTTR standards, the impact of international agreements, contract engineering, the digital studio, solid-state radio and television transmitters, NTSC advancements, and many more current topics of interest.

I hope you are making plans to be with us in September, and don't forget to bring along your GREAT IDEAS for the "Great Ideas Giveaway."

Don Borchert
Program: Broadcast Engineering and Management Seminar

MONDAY, SEPTEMBER 15

7:45  Registration and Continental Breakfast

9:15  Introduction and Welcome
      Don Borchert, Director of Engineering, WHA Radio and Television

9:30  Broadcast Engineering Management Philosophies
      H. Richard Hiner, Director of Navy Broadcasting, Washington D.C.

10:15 Break

10:30  Modern Management Techniques
      John Cummata, General Manager, WCFL, Chicago, Illinois

12:00 Luncheon. “Congratulations! You Are Our New Chief Engineer”
      Jim Loupas, President, James Loupas Associates, Houston, Texas

2:30  Problem Solving through Engineering Management Case Studies and Role Playing
      Dick Hiner and John Cummata

4:30  Reception...Cash Bar...
8:30  Equipment Exhibits

TUESDAY, SEPTEMBER 16

7:45  Registration and Continental Breakfast

9:15  Introduction and Welcome
      Don Borchert, Director of Engineering, WHA Radio and Television

9:30  Is There Life After the Television Stereo Revolution?
      Jim Brown, President, Sound Engineering Associates, Chicago, Illinois

10:15 Break

10:30  RF and Microwave Safety Standards
      Burton Gran, VP, Holaday Industries, Eden Prairie, Minnesota

11:15 The Digital Studio of Tomorrow
      Mike Connell, Engineering Specialist, Quantel, Stamford, Connecticut

12:00 Luncheon. “Surprise! International Agreements will Affect You”
      Wallace Johnson, President, ABES, Arlington, Virginia

2:00  Oh My God! The FCC is Here... A mock inspection.
      Role playing by:
      Garrett Lysiak, FCC, Saint Paul
      George Sklom, FCC, Chicago
      George Werl, Chief Engineer, KQRS, Minneapolis

3:00- Reception...Cash Bar...
8:30  Equipment Exhibits

6:00  Dinner (Optional)

7:30  FCC Forum
      With Garrett Lysiak, George Sklom and Bill Borgman
WEDNESDAY, SEPTEMBER 17

7:45 Continuing Registration and Continental Breakfast

8:30 Field Engineering and Contract Services
Mark Persons, Mark Persons and Associates, Brainerd, MN
Jim Loupas, James Loupas and Associates, Houston, TX

9:15 High Power Transmitters Utilizing FET Switching Mode Technology
Kevin Rodgers, Engineer, Nautilus Maine, Inc., Bangor, Maine

10:00 Break

10:15 Compact Disc Technology Comes of Age for Broadcasters
Bill Sacks, President, Straight Wire Audio, Arlington, Virginia

11:15 Optimizing Your SCA Transmissions
Eric Small, President, Modulation Sciences, Brooklyn, New York

12:00 Luncheon - "Television System Advancements"
Charles W. Rhodes, Researcher, North American Philips Laboratories, Briarcliffe Manor, New Jersey

2:00 Get the Boom Out: Acoustics for Broadcast Studios
A. Bruce Jacobs, Director of Engineering, Prairie Public TV, Fargo, North Dakota

2:45 Designing Antenna Systems to Comply with the New RFR Standards
Don Markley, Consulting Engineer, Peoria, Illinois

3:30 Reception...Cash Bar...
8:30 Equipment Exhibits

7:30 Broadcast Engineering Forum (Nuts and Bolts Session)
Stephen Brown, Moderator, Chief Engineer, WLTE, Minneapolis, MN

THURSDAY, SEPTEMBER 18

7:45 Continental Breakfast

8:30 Reliability in Solid State Television Transmitters
Jerry E. Smith, General Manager, Thomson-LGT, Medford, New Jersey

9:15 "CCD Technology"
Larry Thorpe, Director of Camera Product Advancement, SONY Broadcast Corporation

10:00 Break

10:15 Practical Applications of Elliptical Polarization for UHF Television and Other Broadcast Services
Gaeza Di Enes, Senior Research Engineer, Andrew Corporation, Upland, California

11:15 D - 1 DTTR Report
Fred Remley, Chairman, SMPTE Working Group, University of Michigan

12:00 Luncheon - The "Great Idea" Giveaway
Mark Durenberger, Director of Technical Development, Hubbard Broadcasting, Saint Paul, Minnesota

2:30 Adjournment...Goodbye 'til next year!
REGISTRATION FORM
Broadcast Engineering and Management Seminar
September 15, 16, 17, 18, 1986
Holiday Inn Southeast, Highway 12 and 18 at I-90,
Madison, Wisconsin 53704  (608) 222-9121

Social Security Number: ____________________________________________
(Not mandatory — used only to ensure accessibility and accuracy of your educational record)

Name: ____________________________________________

Phone: ____________________________________________
area code  daytime number/evening number

Title: ____________________________________________

Organization/Station: ____________________________________________

Business Address: ____________________________________________
street

city/state/zip

Payment Enclosed:
☒ $185 - Broadcast Engineering and Management Seminar
  September 15, 16, 17, 18. (A-86-8400-0280)
☒ $135 - Broadcast Engineering Technical Sessions only
  September 16, 17, 18. (A-86-8400-0281)
☒ $12 - Optional Top Sirloin Steak Dinner
  September 16.

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.

This information is collected to enhance the programming efforts of University of Wisconsin-Extension 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
☐ 200 Clerical Occupations
☐ 300 Sales Occupations
☐ 400 Service Occupations
☐ 500 Agricultural, fishery, forestry and related occupations
☐ 600 Processing, machine trades, benchwork, structural, transportation and mining occupations
☐ 700 Other Occupations ____________________________________________

Please advise us at time of registration if you are handicapped and desire special accommodations. Requests will be kept confidential.

UW-Madison provides equal opportunities in employment and programming including Title IX requirements.
1986 Program Committee

Don Borchert, WHA Radio and TV, Madison, WI
Stephen Brown, WLTE, Minneapolis, MN
John Freberg, WXRT, Chicago, IL
Wil Koeller, WTMJ, Milwaukee, WI
Gary Mach, UW-Green Bay, WI
Harry Priester, WLS, Chicago, IL

Among the many exhibitors at the 1986 Broadcast Engineering and Management Seminar will be the following:

AGFA-GEVAERT
ALLIED BROADCAST EQUIPMENT
AMPEREX CORPORATION
AMPEX CORPORATION
AUDIO BROADCAST GROUP
AVC SYSTEMS, INC.
AVONIX
BOYD ASSOCIATES
BRADLEY BROADCAST SALES
BRIDGEWATER PROFESSIONAL SOUND
BROADCAST AUDIO CORPORATION
BROADCAST ELECTRONICS, INC.
COLORGRAPHICS SYSTEMS, INC.
DATA WORLD
E.E.V., INC.
 ELECTRONIC INDUSTRIES
EMMONS ASSOCIATES, INC.
 ENTERPRISES, INC. OF WISCONSIN
FIDELIPAC CORPORATION
FULL COMPASS SYSTEMS, LTD.
HARRIS BROADCAST GROUP

INTERNATIONAL TAPETRONICS CORPORATION
LARCAN COMMUNICATIONS EQUIPMENT, INC.
LE BLANC & DICK COMMUNICATIONS, INC.
MARK PERSONS & ASSOCIATES
MICROPROBE ELECTRONICS, INC.
NEC AMERICA, INC.
PANASONIC
PHILIPS TELEVISION SYSTEMS
PRO AUDIO GENERAL STORE, INC.
PINZONE COMMUNICATIONS PRODUCTS, INC
QUANTEL
RAM BROADCAST SYSTEMS, INC.
ROSCOR CORPORATION
SONY CORPORATION OF AMERICA
STRAIGHT WIRE AUDIO
TEKTRONIX, INC.
TELESCRIPT
3M CORPORATION
TODD COMMUNICATIONS
VIDEO IMAGES
General Conference Information

DATES
Monday through Thursday, September 15 through 18, 1986

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

FEE
$185 - BROADCAST ENGINEERING AND MANAGEMENT SEMINAR. 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 $12.00.

$135 - BROADCAST ENGINEERING TECHNICAL Sessions only (September 16, 17, 18). 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 $12.00.

You are entitled to an 80% refund if cancellations are received prior to September 8, 1986. 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 August 28, 1986, while discounted rooms are being held for the Seminar. Please specify that you are attending the 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 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.