



BROADCASTERS CLINIC

And

UPPER MIDWEST REGIONAL SOCIETY OF BROADCAST ENGINEERS MEETING

October 12-14, 2004

The Marriott West • Madison, Wisconsin

BROADCASTERS CLINIC 2004

TUESDAY, OCTOBER 12

7:45 a.m. **REGISTRATION & CONTINENTAL BREAKFAST**

9:15 **Virtual Combined Studio Tour**

Tim Wright

Chicago Clear Channel

10:00 **Digital Audio Router and Control**

Al Salci

SAS (Sierra Automated Systems)

10:45 **BREAK**

11:00 **Ins and Outs of 0's and 1's**

Bill Ghold

Moseley Associates

Noon **LUNCHEON**

1:30 p.m. **IBOC Extended Uses**

Tim Bealor

Broadcast Electronics

2:15 **Split Combining**

Dave Agnew

Harris Corporation

3:00 **BREAK**

3:15 **Panel Discussion - Real World HD Radio, continued**

Andy Laird - WTMJ

Tom Ray - WOR

4:30 **EQUIPMENT EXHIBITS ARE OPEN (Everybody is welcome)**

7:30 **Engineering Nuts & Bolts**

Vern Killion

Steve Brown

WEDNESDAY, OCTOBER 13

7:45 a.m. **REGISTRATION & CONTINENTAL BREAKFAST**

8:30 **RF Exposure Field Measurements**

Bob Johnson

NARDA

9:15 **Trade Secrets of a Guy with a Network Analyzer**

Jeremy Ruck

DL Markley & Associates

10:00 **EQUIPMENT EXHIBITS OPEN**

(Lunch is available in Exhibit Hall)

1:30 p.m. **Advances in Coax, Twisted Pair and Fiber**

Steve Lampen

Belden Wire & Cable

2:15 **Broadcasters Guide to MXF - The NEW File Format for Video and Metadata**

John Shike

Snell & Wilcox

3:00 ***BREAK***

3:15 **Fiber for Long Haul Networking**

Doug Alexander

Charter Business Systems

4:00 **Synchronous FM Broadcasting: A New Approach**

Chuck Kelly

Broadcast Electronics

6:00 ***RECEPTION***

7:00 **Upper Midwest Regional Society of Broadcast Engineers Meeting**

Tower Tech Safety

Winton Wilcox

Com Train LLC

THURSDAY, OCTOBER 14

- 7:45 a.m. ***Registration & Continental Breakfast***
- 8:30 **Next Generation SNG (IP Transmission)**
Darrell Tanno
Hughes Satellite
- 9:15 **Enhanced VSB & The Latest DTV Receiver Technology**
Wayne Luplow
Zenith Electronics
- 10:00 ***BREAK***
- 10:15 **Consumers View of DTV**
Joe Tynen
American TV
- 11:00 **HD and SD SDI Waveform Monitoring and Testing**
Tom Freeman
Tektronix
- Noon ***LUNCHEON***
- 1:15 p.m. **P2 It's All About Partners & Process**
Phil Livingston
Panasonic Broadcast & Television Systems
- 2:00 **HD and XD Cameras and Imaging**
Bill Fleming
Sony
- 2:45 **Monitoring High Power DTV Transmission Lines**
William A. DeCormier
Dielectric Communications
- 3:30 **Digital Antenna System**
Emmis

Adjournment... THANKS AND SEE YOU NEXT YEAR !

REGISTRATION FORM BROADCASTERS CLINIC 2004

October 12-14, 2004

I will attend: (Please check)

Tuesday Wednesday Thursday

Fees: \$130 (Any two days) \$150 (All three days)

Amount enclosed: \$ _____

Name: _____

Organization/Station: _____

Business Address: _____

street

city/state/zip

Phone: () _____

area code

daytime number/evening number

Email Address: _____

Mail this form and your check made payable to Broadcasters Clinic:

Don Borchert
1955 Oakland Avenue
Sun Prairie, WI 53590

To register by phone,
please call 1-800-236-1922 or fax to 608-256-3986
or register at www.wi-broadcasters.org

2004 PROGRAM COMMITTEE

Kent Aschenbrenner, WTMJ, Inc., Milwaukee, WI
Don Borchert, Madison, WI
Craig Bluschke, UW Engineering
Stephen Brown, WLTE - CBS Radio, Minneapolis, MN
Mark Burg, WLAX-TV, La Crosse, WI
Gordon Carter, WFMT Radio, Chicago, IL
Leonard Charles, WISC-TV, Madison, WI
Greg Dahl, Rockford, IL
Ken Dixon, Verona, WI
Cliff Groth, NewRadio Group, Fort Atkinson, WI
Vern Killion, KRVN Radio, Lexington, NE
Vicki Kipp, ECB, Madison
Gary Mach, Green Bay, WI
Kevin Ruppert, WISC-TV, Madison, WI
Tom Smith, WHA TV, Madison, WI
Art Williams, WBAY-TV, Green Bay, WI

EXHIBITORS

Among the many exhibitors at the BROADCASTERS CLINIC 2004 are:

A P T	Gorman Redlich Mfg. Co.	Quantel
Acrodyne	Harris Broadcast	Quartz Electronics
AEQ Broadcast	Heartland Video Systems	Radio Systems
Alpha Audio and Video	Hewlett Packard Co.	Ram Broadcast Systems
Andrew Corporation	Ikegami Electronics	RF Technology
APHEX	Jampro Antennas	Rhode & Schwarz
Armstrong	JK Audio	Roscor Corporation
Audemat - Aztec	Joseph Electronics	Ross Video
Axcera	Kathrein	Scott Studios
Belden Wire Cable	Kintronic Labs, Inc.	Serial Scene
Brainard-Nielson	Leader	Snell & Wilcox
Broadcast Electronics, Inc.	LeBlanc Broadcast, Inc.	Sony Electronics, Inc.
Broadcast Microwave Services	Leitch	Spencer Technologies
Broadcast Richardson	Link	St. Paul Tower
Broadcasters General Store	Loral Skynet	Switchcraft
Canon	Media First	Tektronix
Chyron Corporation	MidWest Media	Teranex
Clark Wire & Cable	Microwave Radio Communications	Thales Components
Continental Electronics	Midwest Sales	Thomcast Multi-Media
Data Media	Miranda Technologies	Triveni Digital
Dielectric Communications	N-Systems (NSI)	Trompeter Electronics
Discreet Logic USA	Norlight Teleport Chicago	Tron Tek
Enco Systems	Nucomm	Utah Scientific
Ensemble Designs	NVision	V-Soft
ERI-Electronics Research	Panasonic Broadcast	Video Tek
Evertz	Parkervision	Wave Communications
Fuji Photo	Philips Broadcast TV	Weather Central, Inc.
Gepeco International, Inc.	QEI	Wireready
		And More . . .

GENERAL INFORMATION

DATES

Tuesday through Thursday, October 12-14, 2004

LOCATION

All sessions of the Broadcasters Clinic 2004 are held at the Marriott-West, located at 1313 John Q. Hammons Drive, Madison, WI, Phone number: 608-831-2000.

FEE

\$130 - Any two days

\$150 - 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). Vegetarian meals can be requested by calling the WBA office at 1-800-236-1922, by October 1, 2004

You are entitled to an 80% refund if cancellations are received prior to October 1, 2004. 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 Marriott-West. The hotel telephone number is 608-831-2000. We suggest that you make your reservations before September 15, 2004, while discounted rooms are being held for the seminar. Please specify that you are attending the **Broadcasters Clinic 2004**. For a list of surrounding hotels, visit: www.sbe24.org.

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 or visit: www.sbe24.org.
