



BROADCASTERS CLINIC

And

UPPER MIDWEST REGIONAL SOCIETY OF BROADCAST ENGINEERS MEETING

October 14-16, 2003

The Marriott West • Madison, Wisconsin

BROADCASTERS CLINIC 2003

Broadcasters Clinic 2003 welcomes the National SBE Board of Directors, the Officers, and Members.

— The Program Planning Group

TUESDAY, OCTOBER 14

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

9:15 **Planning For Digital Audio Infrastructure**

Jay Tyler

Wheatstone Corporation, New Bern, NC

10:00 **Maintaining Audio Quality in the IBOC Era**

Simon Factor

APT Audio Processing Technology, Los Angeles, CA

10:45 **BREAK**

11:00 **Motorola Symphony Digital Radio Chipset**

Motorola Semiconductor Products, Austin, TX

Noon **LUNCHEON SPEAKER - Regulatory Update**

Chris Imlay

SBE General Counsel

2:00 p.m. **Telelink Spread Spectrum and the Internet**

Bernie Wise

Energ-Onix, Valatie, NY

2:45 **A Planning Guide: Determining the Best IBOC Migration Path for Your AM or FM Station**

Keith Mullin

Harris Broadcast Communications, Mason, OH

3:30 **BREAK**

3:45 **Panel Discussion - Real World HD Radio**

Gordon Carter, WFMT Moderator

Panel - Illinois & Wisconsin HD Broadcasters

4:30 **ENGINEERING AWARD**

Thales Broadcast & Multimedia

Southwick, MA

4:45 **EQUIPMENT EXHIBITS ARE OPEN** (Everybody is Welcome)

6:00 **NATIONAL SBE BOARD MEETING (All SBE Members Welcome!)**

7:30 **The History of Microphones and Microphone Techniques**

Greg Silsby

Audio Technica, Stow, OH

WEDNESDAY, OCTOBER 15

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

8:00 **SBE FELLOWS BREAKFAST (SBE Fellows)**

8:30 **Pocket Recording for Broadcasting Using a PDA**

Tom Harle

Harris Broadcasting, Mason, OH

9:15 **Evaluating an AM Antenna System for Digital Capability**

Ron Rackley

du Treil, Lundin & Rackley, Inc., Sarasota, FL

10:00 ***EQUIPMENT EXHIBITS OPEN*** (Complimentary Lunch is available in Exhibit Hall for all Registered Attendees)

1:00 p.m. **New Advancements in Microphone Technology**

Greg Silsby

Audio Technica, Stow, OH

1:45 **Broadcasting in the Rest Of The World: Better, Worse, or Just Different**

Chuck Kelly, Director International

Broadcast Electronics, Quincy, IL

2:30 **Audio-Video Sync Measurements for Digital Transmission**

Vistek Electric, Maplewood, NJ

3:15 **New Developments in Coaxial Cable Design**

Steve Lampen

Belden Electronics, San Francisco, CA

4:00 **SBE MEMBERSHIP MEETING**

5:00 **NATIONAL SBE AWARDS RECEPTION**

6:00 **NATIONAL SBE AWARDS BANQUET**

Separate Admission Ticket Required

Contact the National SBE Office to Purchase a Ticket (317) 846-9000

THURSDAY, OCTOBER 16

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

8:30 **DTV Performance Data**

Jeremy Ruck

DL Markley & Associates, Peoria, IL

9:15 **OET-69, DTV Interference and Coverage**

Doug Vernier

V-Soft Communications, Cedar Falls, IA

10:00 **BREAK**

10:15 **Cable Carriage of Terrestrial DTV Broadcasts (PSIP)**

Gomar Thomas

Triveni Digital, Princeton, NJ

11:00 **Casper DTV Receiver Chipset**

Robert Rast

LINX Electronics, Palatine, IL

Noon **LUNCHEON**

1:15 p.m. **ATSC Distributed Transmission - Multiple On-Channel Transmitters**

Dave Hirshberger

Axcera, Lawrence, PA

2:00 **Blue Laser Optical Disk Recorder**

Craig Beardsly

Sony Electronics, Park Ridge, NJ

2:45 **Routing Systems of the Future**

Randy Hall

N-Vision, Grass Valley, CA

3:30 **RF Susceptibility of Microphones**

Jim Brown

Audio Systems Group

Adjournment . . . THANKS AND SEE YOU NEXT YEAR!

Broadcasters Clinic 2003 dedicated to Wil Koeller

REGISTRATION FORM

BROADCASTERS CLINIC 2003

October 14-16, 2003

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 608-255-2600 or fax to 608-256-3986
or register at www.wi-broadcasters.org

2003 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
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 2003 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 Commu- nications	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 14-16, 2003

LOCATION

All sessions of the Broadcasters Clinic 2003 are held at the Marriott-West, Madison, Wisconsin.

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).

You are entitled to an 80% refund if cancellations are received prior to September 29, 2003. 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 12, 2003, while discounted rooms are being held for the seminar. Please specify that you are attending the **Broadcasters Clinic 2003**.

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.

The Society of Broadcast Engineers - Madison and



The Wisconsin Broadcasters Association

Presents A One Day



Digital Production Clinic

at the Madison Marriott, Tuesday, October 14th, 2003

Vegas Video & Acid Pro

(9:00 a.m.-Noon)

by Michael Bryant

Director of Training and Consulting
Sonic Foundry

With VEGAS, Michael will demonstrate how to capture and non-destructively edit digital video on a PC and show users the compositing, multitrack audio and encoding features of this powerful editing software.

With ACID Pro, Michael will demonstrate the Pick, Paint, and Play interface to post score a video and frame accurately add music, sound effects and voice-over to the final production.

Come learn how to turn your PC into a multimedia production studio.

DS Nitris Workshop

(1:30-4:30 p.m.)

by Kane Petersen

Chief Technology Manager
Midwest Media Group

This Avid system provides the most comprehensive integration of tools for completing HD and SD projects with Media Composer-style editing.

Symphony advanced color correction, paint, graphics, character generation, advanced 3D compositing, special effects, image treatment, and project management - all within a single consistent interface.

The Avid DS Nitris system offers guaranteed real-time editing and effects - from DV25, to HD video, and up to eight simultaneous streams of uncompressed SD video.

Check out <http://www.sbe24.org/WBA-SBE-Shows/Clinic03.asp> for complete details.

\$45.00 for all day, both sessions. Lunch provided.

Contact the WBA at 608-255-2600/800-236-1922 to register.

See the latest equipment on the vendor exhibit floor following the afternoon session.

Registration Form

Name(s) _____

Organization _____

Address _____

Phone _____ Email _____

Please Return to:
Don Borchert
1955 Oakland Avenue
Sun Prairie, WI 53590

Amount Enclosed: _____