



Society of Broadcast Engineers Chapter 24 Newsletter Madison, Wisconsin

September 2010

Next Meeting

Thursday, September 16



DANE COUNTY EMERGENCY PLANNING

David Janda, Assistant Director of the Dane County Emergency Management office will lead a discussion of pending improvements the Dane County warning system. David is looking for input, guidance and opinions from the local broadcast community on proposed updates and changes to the current system. He will also introduce one of the consultants hired by Dane County to assist with this project. If you are involved in EAS this will be an important interactive meeting.

Chapter 24 will provide
Pizza & Soda - 6:00 PM
WISC Conference Room B
7025 Raymond Road
Madison, WI

Meeting and Program at 7:00 PM
WISC Conference Room B
7025 Raymond Road
Madison, WI

Park in front parking lot; enter via front lobby entrance.

Guests are welcome to join us!

2010 Broadcasters Clinic

Now is the time to register for the 2010 Broadcasters Clinic. Check out the program agenda by clicking on the "Broadcaster Clinic" button on the front page of the Chapter 24 web site at <http://www.sbe24.org>.



To Register on-line go to the Wisconsin Broadcasters Association web site

go to <http://www.wi-broadcasters.org/wba/index.php/events/broadcasters-clinic/>.

This year the National SBE will be holding their National Meeting and Awards Dinner at the Clinic. If you plan on attending the Wednesday evening Awards Dinner you'll need a separate \$15 ticket (not included with Clinic registration). To purchase that ticket please visit the National SBE web site at https://ssl18.pair.com/sbe/cgi-bin/sbe_event_reg.pl?goto=form&ec=72 or call the National SBE at 317-846-9000.



Here's the top ten reasons to attend the Clinic:

- 10. Its late October (26th thru 28th) and your Summer rush is over
- 9. The very best sessions in one place since NAB
- 8. Door prizes and the latest

- technology on the Exhibit Floor
- 7. Nuts N Bolts on Tuesday evening
- 6. The food (OK, that one might be a stretch)
- 5. Rub elbows with the National SBE Officers, Board, and Committee Members
- 4. The neat free gift in your registration packet
- 3. Free Parking
- 2. Live Mobile DTV demonstration transmitted on a Madison TV station
- 1. It beats spending the night inside a broken transmitter.

See you there!



In this Issue

Meeting Minutes.....	2
Spectrum.....	3
Amateur Radio News.....	4
Captioning.....	5
Antennas.....	5
Certification Dates.....	6



Coming Up

- Wed., Oct. 27 Broadcasters Clinic –
- Wed., Nov. 17 Utah Scientific – HD Master Control
- Thurs., Dec. 16 Holiday Party – Fitzgerald's



Chapter Contacts

Chapter Leadership

Chair

Fred Sperry, ECB-OC
W: 608-264-9806
fred.sperry@ecb.org

Vice Chair

Bill Hamilton, Wisconsin Eye
W: 608-316-6850 Ext. 305
Bill.Hamilton@wiseye.org

Secretary

Mike Norton, WPT
W: 608-264-9807
mnorton@ecb.state.wi.us

Treasurer

Kevin Trueblood
Wisconsin Public Radio
kevin.trueblood@wpr.org

Past Chair

Dennis Baldrige
W: 608-489-3999
baldrige@mwt.net

Committee Appointees

Program Committee

Steve Paugh 277-5139
volunteers needed for
program committee

Membership / Newsletter Editor

Paul Stoffel
paul.stoffel@wpt.org

Sustaining Membership

Fred Sperry
608-264-9806
fred.sperry@ecb.org

Certification & Education

Jim Hermanson
services@jimhermanson.com

Frequency Coordination

Tom Smith
608-263-2174
smithtc@wpt.org

National SBE Chapter Liaison

Leonard Charles
W: 608-271-4321
F: 608-271-1709
lcharles@wisctv.com



Meeting Minutes

from the August 2010 Business Meeting

On Tuesday, August 18, 2010, Chapter 24 of the Society of Broadcast Engineers held their monthly meeting at WISC-TV in Madison, Wisconsin. There were 10 members present, 7 who were certified.

The meeting was called to order by Treasurer Kevin Trueblood at 7:13pm. The meeting minutes from July, as published in the August Newsletter, were approved on a motion by Tom Smith and a second by Leonard Charles. Treasurer Kevin Trueblood then reported the chapter bank balance to be at a positive level. There was no newsletter or sustaining membership report available.

As had been mentioned last month there was no information heard back regarding the status of Madison Video Repair. Kevin relayed the Sustaining Membership report from Fred Sperry that stated the Chapter continues to hold steady at 20 sustaining members.

Program Committee Chair Steve Paugh noted that some future presentations remain in flux. Currently the September upcoming program is to be by ~~Utah Scientific on master control switcher systems~~ [changed to Dane County Emergency Management], followed by the Broadcasters Clinic in October; November tentatively holds a program by ~~Mayah Communications~~ [changed to Utah Scientific on master control switcher systems]. Watch the chapter web site for changes and firm dates

Frequency Coordinator Tom Smith said that there was no local coordination activity, and that the FCC has a recent Notice of Proposed Rulemaking related to the 7 and 13 GHz band related to backhauls for broadband providers. There was no Certification and Education report available.

As National Liaison, Leonard Charles noted that S.2881 (FCC Commissioners' Technical Resource Enhancement Act) received the Senate committee recommendation that it pass the full Senate; it's possible the Senate will take it up for a vote before the session is over. The SBE National election ballots are due back by August 26th. Members were informed about registration for a free EAS webinar on August 19th that covers Next Generation EAS. Leonard also encouraged all Chapter 24 members to attend the Broadcasters Clinic and SBE National meeting, held right here in Madison on October 26 – 28th. Entertainment at the annual awards reception and dinner will be by "Sticks and Bones," an all-SBE member band.

In old business, Kevin Trueblood reported that the Chapter rebate check has been sent back to the National office to be applied to the three scholarship funds. Kevin also announced that Chapter 24 will receive recognition for winning national awards for the Best Regional Conference and Best Chapter Newsletter at the SBE National meeting. A sympathy card was circulated for the passing of Don Borchert. Leonard Charles then talked about the desire of the WBA to create a fellowship to honor Don Borchert for his many years of dedication to the Broadcasters Clinic. All four SBE chapters in Wisconsin will be approached for their participation in creating this fellowship, to allow funding for attendance at the event.

There were no announcements or tech tips, and the meeting was adjourned at 7:28pm. Kevin turned over the meeting to Steve Paugh, who gave his presentation on Loudspeakers: Part 4.

Submitted by Mike Norton, Secretary

FCC SEEKS MORE BROADCASTER SPECTRUM

>>> by Tom Smith

On August 5th, the FCC released a Notice of Proposed Rulemaking and a Notice of Inquiry concerning various microwave issues and spectrum. The Notice of Proposed Rulemaking concerns the use of broadcast auxiliary spectrum for broadband back haul usage, licensing additional "auxiliary links" to a primary microwave link and allowing adaptive modulation standards to allow for bandwidth reduction to compensate for signal fading. The Notice of Inquiry concerns efficiency standards in rural areas, Part 101 antenna standards and other issues concerning Part 101 of the Rules.

TV broadcasters would be directly affected by the proposed rule that would allow fixed microwave stations, carrying non broadcaster traffic, to share the 6875-7125 MHz band and the 12.7 to 13.2 GHz band. TV broadcasters already share this band with cable providers. Cable companies have used the 12.7-13.2 GHz band for distribution of their signals from their headends to outlying systems. That use is being phased out in favor of fiber-optic cables, except for some small rural systems. For broadcasters, the biggest issue is how these proposed rules would affect mobile operations such as news ENG operations. The FCC did offer broadcasters one rule change that could be to their advantage; allowing broadcasters to license their studio to transmitter

link in any fixed microwave band. Currently broadcasters can use the other fixed microwave bands for intercity links and other links they may need to get a signal to the studio, but they must use a broadcast auxiliary band frequency to get to the transmitter. They have two exceptions, they are the 17.7-18.58 and the 21.2-23.6 GHz bands which broadcasters are able to share with all other fixed service licensees.

The so-called auxiliary link proposal could allow a licensee for a fixed-link station to operate, on a secondary basis, a number of low-powered links on the same frequency from the main transmitter site. This would create a small-point to multi-point system for distribution.

In the Notice of Inquiry, the Commission is proposing to allow fixed links in rural areas to use lower payloads on their carriers, such as 4 or 16 QAM, instead of 64 QAM. This allows for longer paths or lower power. They are also proposing the use of smaller antennas to allow for less loading on towers and reduced objection by the public when towers are zoned. They did note the current requirements for the use of Category "A" antennas over Category "B" antennas to reduce interference. The final part of the inquiry is a request for any other information on how Part 101 rules could be changed to better use the various fixed microwave bands.

The names of the rulemaking and inquiry are:

WT Docket No. 10-153; The rulemaking is Amendment of Part 101 of the Commission's Rules to

Facilitate the Use of Microwave for Wireless Backhaul and Other Uses and to Provide Additional Flexibility to Broadcast Auxiliary Service and Operational Fixed Microwave Licensees

WT Docket No. 06-106; Request for Interpretation of Section 101.141(a)(3) of the Commission's Rules Filed by Alcatel-Lucent, Inc., *et al.*

WT Docket No. 07-121; Petition for Declaratory Ruling Filed by Wireless Strategies, Inc. Request for Temporary Waiver of Section 101.141(a)(3) of the Commission's Rules Filed by Fixed Wireless Communications Coalition

The full notice can be found at (http://www.fcc.gov/Daily_Releases/Daily_Business/2010/db0805/FCC-10-146A1.pdf) and the short version in the Federal Register can be found at (<http://edocket.access.gpo.gov/2010/pdf/2010-20785.pdf>). Comments are due on October 25th and replies are due on November 22nd.

Token Creek
MOBILE TELEVISION

John Salzwedel
President

501 Moravian Valley Road, Waunakee, Wisconsin 53597
Phone: (608) 849-4965 Fax: (608) 849-4035 Cell: (608) 235-9632
Web Page: www.tokencreek.com E-Mail: john@tokencreek.com

WISC-TV
CBS

MADISON





Amateur Radio News

compiled by Tom Weeden, WJ9H

- The amateur radio station at the National Hurricane Center (NHC) in Miami, WX4NHC, activated the Hurricane Watch Net (HWN) on Monday, August 30, as Hurricane Earl threatened the British Virgin Islands and Anguilla. The HWN was deactivated later that day as Earl pulled away from lands and moved more out into the open ocean. Hurricane Earl was expected to remain a major hurricane for several days as it traverses just off the US East Coast.

When active WX4NHC monitors the Hurricane Watch Net on 14.325 MHz. Secondary HF frequencies are 7.268 MHz and 3.950 MHz +/- QRM, should propagation be lost on 20 meters.

- An Oklahoma town has agreed that its radio interference ordinance does not apply to ham radio operators after intervention by the American Radio Relay League (ARRL). A ham in Midwest City (suburban Oklahoma City) was notified that he “was in violation of the ordinance as the result of radio frequency interference appearing in a neighbor/complainant’s home electronic equipment. The licensed radio amateur was ordered to remedy the problem in one day, under penalty of a sanction assessed against the real property of the radio amateur.”

On July 21, ARRL General Counsel Chris Imlay, W3KD, notified Midwest City officials that only the FCC is empowered to regulate such matters. Imlay asserted, “The City in fact has absolutely no jurisdiction whatsoever over radio frequency interference. Such regulation is exclusively within the jurisdiction of the Federal Communications Commission and all regulation of

radio transmission and interference phenomena is preempted by Federal law.” Two weeks later, Midwest City Assistant City Attorney Randal D. Homburg sent an e-mail to the ham to let him know “the previously delivered notice is hereby rescinded [sic]. There will be no citations issued and thus, the issue is moot.”

(Chris Imlay is also General Counsel to SBE.)

(Excerpts from the American Radio Relay League’s <<http://www.arrl.org>> and VoIP Hurricane Net <<http://voipwx.net>> web sites)




WMTV
MADISON

615 Forward Drive
Madison, WI 53711
608-274-1515
www.nbc15.com

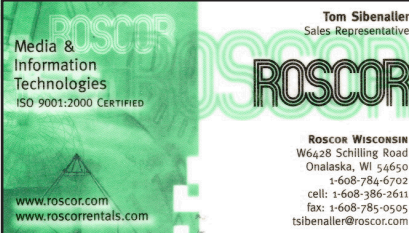


midwest
MEDIA GROUP
IDEAS. INSIGHT. INNOVATION.

NED WHITE
REGIONAL SALES MANAGER

316 N. Milwaukee St. #567
Milwaukee, WI 53202

Tel 414.266.2226 x26
Fax 414.266.2181
Cell 414.397.9556
ned@mwmg.com
www.mwmg.com



Media & Information Technologies
ISO 9001:2000 CERTIFIED

Tom Sibenaller
Sales Representative

ROSCOR

ROSCOR WISCONSIN
W6428 Schilling Road
Onalaska, WI 54650
1-608-784-6702
cell: 1-608-386-2611
fax: 1-608-785-0505
tsibenaller@roscor.com

www.roscor.com
www.roscorrentals.com



FULL COMPASS
PRO AUDIO | VIDEO | A/V | LIGHTING

8001 TERRACE AVE. | MIDDLETON, WI 53562
p: 608.831.7330 | f: 608.831.6330
order line: 800.356.5844
fullcompass.com

KEVIN PECKHAM
Product Manager
Ext. 1356
peckham@fullcompass.com

PRO AUDIO VIDEO A/V LIGHTING



FOX 47
WMSN • MADISON

7847 BIG SKY DRIVE
MADISON, WISCONSIN 53719
(608) 833-0047 • FAX (608) 833-5055

maney-logic LLC

Custom micro controller electronics & firmware.
Specialized controllers and interfaces.


Madison WI
608-277-8001
maney-logic.com



James D. Daniels, Jr. (J.D.)
District Sales Manager
Digital Video Division

JVC Professional Products Company

16206 Hunter Court 800.851.2020, ext. 7679 Branch
Orland Hills, IL 60487-7410 630.851.0130 Branch Fax
jdaniels@jvc.com 708.460.1451 Regional
www.jvc.com/pro 708.460.4476 Regional Fax
630.248.5185 Cell



27
abc

WKOW
Madison

5727 Tokay Boulevard
Madison, Wisconsin 53719

(608) 274-1234
Fax: (608) 274-9514



Gepco
INTERNATIONAL, INC.

Rick Thompson
Central Regional Manager

1770 Birchwood Avenue
Des Plaines, IL 60018-3006
Office: 847-795-9555 ext.21
Mobile: 847-942-7990
Fax: 847-795-8770
E-mail: rick.thompson@gepco.com
www.gepco.com



BELDEN
SENDING ALL THE RIGHT SIGNALS

Don Heinzen
Sales Representative

Direct: 608.848.2001
don.heinzen@belden.com

9001 Hawks Reserve Lane
Unit 103
Verona, WI 53593
Office: 608.848.2001
Fax: 608.848.2001
www.belden.com

CONGRESS PROPOSES NEW CAPTIONING BILL

>>> by Tom Smith

A bill has been passed in the House of Representatives that would expand closed captioning and descriptive video requirements for both broadcasters and those providing video to the internet. The bill would also expand other requirements to video and web based services to better accommodate the disabled including making various functions of the internet such as voice over IP. The bill would require all video devices to display closed captioning, program guides to be easy to navigate by those with disabilities including provide audible tools for the blind to use on screen program guides.

There would be some exemptions to the requirements for small program providers. The laws would take some time to be phased in. The bill requires that the FCC file reports on the current status of the requirements proposed in the bill and there are timelines, covering several years, for the implementation of most of the items in the bill. The bill's number is H.R. 3101 and it's 72 pages can be found at (http://frwebgate.access.gpo.gov/cgi-bin/getdoc.cgi?dbname=111_cong_bills&docid=f:h3101eh.txt.pdf.) The bill still has to be passed by the Senate to become law.

NAB RELEASES ANTENNA PAPERS

>>> by Tom Smith

On August 17th, the NAB released a report on the subject of indoor antennas for TV reception. The report contained a number of papers on various antenna designs, on matching the antennas to transmission lines and on receiver electronics. The report is 131 pages. The designs for many of the antennas drew their concepts from cell phone and microwave antennas and the designs did look very similar to those that appear in microwave and wireless system design journals. The paper can be found at (<http://www.nabfastroad.org/NABHigh-performanceIndoorTVantennaRpt.pdf>). The designs and theories in the papers may give members in the broadcast community some new thoughts on indoor reception issues and their possible cures.



<http://sbe.org/CertPreview.php>

Thanks to Leonard Charles for maintaining the Chapter 24 web site and to Steve Paugh for mailing the meeting reminder postcards.

October 2010 Chapter 24 Newsletter Deadline: Friday, October 1 paul.stoffel@wpt.org edited using Adobe InDesign CS4



Heartland Video Systems
Heartland Video Systems, Inc.
1442 Pilgrim Road
Plymouth, WI 53073
Tel (800) 332-7088
(920) 893-4204
Fax (920) 893-3106
mbart@hvs-inc.com
www.hvs-inc.com
www.hvs-dtv.com

Mark Bartolotta

DIGITAL SOLUTIONS
Broadcast/Professional



Wisconsin Public Television
821 University Ave.
Madison WI 53706

www.wpt.org
Phone 608.263.2121
Fax 608.263.9763

SCHARCH LLC
AVaya * Lucent Technologies * AT&T
Business Communications Service since 1983

1105 Middleton St., Madison, WI 53717
Tel: 608 831-2266 or 800 831-2266
www.scharch.net

Stan Scharch
stan@scharch.net



Brian Stumpf
Regional Sales Manager - Midwest USA

1266 Gils Way
Cross Plains, WI USA
53528-8837
Tel: (608) 798-9578
Cell: (608) 345-2544
Fax: (608) 798-9577
bstumpf@rossvideo.com
www.rossvideo.com

SOUND DEVICES
Portable, Professional Audio

Sound Devices, LLC
300 Wengel Drive
Reedsburg, WI 53959 USA
Toll-Free: (800) 505-0625
HQ: +1 (608) 524-0625
Fax: +1 (608) 524-0655
www.sounddevices.com



ALPHAVIDEO
the visual communications experts
BROADCAST SYSTEMS GROUP

Bryan Nelson, CTS
Integrated Systems Sales

7711 Computer Avenue / Edina, MN 55435-5494
direct: 952.841.3304 / cell: 612.819.7913 / phone: 952.896.9898 / fax: 952.896.9899
bryan@alphavideo.com / www.alphavideo.com



1355 Armour Blvd.
Mundelein, IL 60060-4401
(800) CABLE-IT
(847) 949-9944
Fax: (847) 949-9595
e-mail: sales@clarkwire.com
www.clarkwire.com

CLARK
WIRE & CABLE

Antenna System Specialist

TV		Troubleshooting
FM		Sweep Testing
AM		Infrared Testing

www.ResonantResults.com
Richard Wood (608)839-3950

Certification Exam Session Dates

For more information about SBE Certification, contact Jim Hermanson, services@jimhermanson.com, Chapter 24 Certification Chair, or contact Megan Clappe, Certification Director at the SBE National Office at (317) 846-9000, or mclappe@sbe.org.

EXAM DATES	LOCATION	APPLICATION DEADLINE
November 5-15, 2010	Local Chapters	September 17, 2010
February 4-14, 2011	Local Chapters	December 31, 2010
April 12, 2011	NAB Convention	March 25, 2011
June 3-13, 2011	Local Chapters	April 15, 2011
August 5-15, 2011	Local Chapters	June 3, 2011
November 4-14, 2011	Local Chapters	September 16, 2011

SBE Board of Directors Election Results

The results are in from the annual election of SBE officers and directors. All four officer positions and six of the 12 director seats were being contested. Vincent Lopez, CEV, CBNT of Syracuse, N.Y. was re-elected to a second term as national president. Lopez is Director of Engineering for WSYT-TV, WNYS-TV, which are stations of the Sinclair Broadcast Group.

Elected to one year terms as officers include:

President: Vincent A. Lopez
 Vice President: Ralph Hogan
 Secretary: Ted Hand
 Treasurer: Andrea Cummis

Elected to two-year terms on the Board of Directors were:

Timothy Anderson
 Ralph Beaver
 Gary Kline
 Gary Liebisch
 Scott Mason
 Jeff Smith

The national Board of Directors of SBE is responsible for the development of policy and determines

the programs and services the Society provides to its more than 5,200 members. Those elected will begin their terms on October 27 during the Annual SBE Membership Meeting. They will join the other six directors who have another year remaining in their terms as well as immediate past president, Barry Thomas.



<http://sbe.org/CertPreview.php>



http://www.sbe.org/cert_index.php



<http://www.sbe.org/SBEUniversity.php>



CHAPTER 24 SUSTAINING MEMBERS

Thanks to all our Sustaining Members

Alpha Video

Belden, Inc.

Full Compass Systems

Heartland Video Systems

GEPCO International, Inc.

JVC Professional Products Company

maney-logic

Midwest Media Group

Resonant Results, Ltd.

Roscor Wisconsin

Ross Video

Scharch Electronics

Sound Devices, LLC

Token Creek Productions

WISC-TV 3

WMTV-TV 15

WKOW-TV 27

WMSN-TV 47

Wisconsin Public Television

© 2010 by SBE Chapter 24, Inc. Views expressed herein do not necessarily reflect the official positions of the Society, its officers, or its members. SBE Chapter 24, Inc. regrets, but is not liable for, any omissions or errors. The Chapter 24 Newsletter is published twelve times per year. Other SBE Chapters are permitted to use excerpts if attributed to the original author, sources, and SBE Chapter 24.