# The Society of Broadcast Engineers



# Fox Valley Wisconsin SBE Chapter 80 PO Box 1519 Appleton, WI 54912-1519

November 2015

Like us on FaceBook -<u>facebook.com/sbe80</u>

Our website <a href="mailto:sbee0.org">sbe80.org</a>
Twitter: @sbechapter80

Our next SBE Chapter 80 meeting will be at the Out O; Town club on November 17<sup>th</sup> at noon. Our program will be on bonded cellular presented by Terry Johnston and Kurt Caruthers of LiveU

### Chairman's Corner

### Greetings Everyone,

Members and guests are welcome at our upcoming Chapter 80 meeting. After several months of tour and convention meetings, we return to our home base at Out O' Town Club in Kaukauna on Tuesday, November 17, 2015 at 12:00 noon. Our guest presenters are Terry Johnston and Kurt Caruthers of LiveU, whose topic will be the latest update on bonded cellular ENG solutions.



Regards, Steve Konopka Our last meeting was integrated with the 2015 Broadcaster's Clinic on October 24th in Madison, where Chapter 80 proudly accepted the 2015 Award for Best Chapter Website and Best Social Media Site for 2015! We again extend congratulations to our

coordinator Mike Steele and a thank you to our members who contributed to this highly recognized effort.



# **Upcoming meetings and events:**

Nov 15th Local chapter elections voting deadline. Vote now!

Nov 17th EAS NPT test in Wisconsin. <u>Add the NPT event code to your decoder before the 17<sup>th</sup>!</u> No December program.

The January 2016 program is by Martin Juven at Digigram. A description of the program is coming. The February 2016 program is by Mike Galli of ImmediaTV. A description of that program is coming as well.

# **Chapter 80 Elections**

We have unopposed candidates in three of the four categories:

Mark Hoenecke (Wausau) for Chairman,

Stu Muck (Fond du Lac) for Vice Chairman, and

Steve Brown for Treasurer.

We have two candidates for Secretary:

Mark Heller (Two Rivers) and

Bill Moede (Appleton).

We will be sending out the election ballots via "Survey Monkey", an on line data collection method. We felt this would be the best way to collect this information this year. Ballots will be sent to each current verified member to vote. The explanation message will be sent to all e mail addresses on record.

<u>Deadline Sunday November 15th</u>

success of the test:

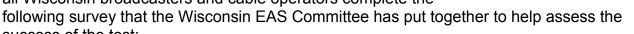
Steve Brown

# National Periodic Test here in Wisconsin Tuesday November 17<sup>th</sup>

Wisconsin Broadcasters and Cable Operators,

Less than 1 week from today will be the FEMA IPAWS EAS test.

Following the test, the Wisconsin EAS Committee requests that all Wisconsin broadcasters and cable operators complete the



**FEMA** 

https://www.surveymonkey.com/r/HM26QTS

- The survey is only 10 questions long, and you will likely skip some questions that don't apply to you.
- The last question in the survey is open-ended for you to leave any general comments on the test.
- You can use the "Previous" button on each page to go back and review/change an answer; the survey is not final until you click "Done" at the end.
- This free survey is limited to the first 100 responses, so respond ASAP after the test to be included.
- The survey is set up to accept multiple surveys from the same respondent, in case you had different conditions at your various operations requiring a separate survey completion with different answers.

Also, if you have any lingering questions, please see the FAQ below.

Some of the information below is new, so all will benefit from reading through these

FAQs.

Drop me a line if you have any unanswered questions beyond these FAQs.

Gary Timm, Broadcast Chair

Wisconsin EAS Committee GTEAS@sbcglobal.net

# November 17, 2015 FEMA IPAWS Regional Test - Wisconsin FAQ Sheet

Here are the answers to some questions regarding the Nov. 17 IPAWS NPT test.

Q1: When is the test and what EAS Event Code will be used?

On Tuesday, November 17, 2015, FEMA will originate a test message containing the National Periodic Test (NPT) EAS Event Code at 3:20 p.m. CST.

Q2: Will my EAS unit air the alert at exactly 3:20:00 p.m.?

No, FEMA reports from past regional tests a delay to air of 20 to 90 seconds, so the test might not air until 3:21:30 p.m. or later. Bear in mind that IPAWS alerts are not "push" alerts, so your EAS unit won't receive the alert at exactly 3:20:00 p.m.; rather, IPAWS alerts are "pull", meaning your station or cable system won't air the alert until your EAS unit happens to poll the IPAWS server for messages and that timing depends on the polling interval set in your EAS unit. This might make it difficult for TV stations in particular to "schedule" the running of the test, other than a rough window when the test will automatically interrupt programming.

# Q3: Does my EAS unit need any special programming to air this test?

Yes, this test requires that radio and television stations and cable systems make a minor configuration change to their EAS equipment to receive and process the NPT message from the IPAWS system. FEMA requests that EAS units be programmed to immediately rebroadcast the NPT message upon receipt, just as the President's actual EAS message would be handled. Easy-to-follow instruction sheets are available for each type of EAS unit to do this programming; if you need programming information, contact Gary Timm, Wisconsin EAS Broadcast Chair: GTEAS@sbcglobal.net

Q4: How long will the test last on-air?

FEMA reports that past tests have taken about 53 seconds to air, from the first data burst to the last data burst.

Q5: Do we know the test message that FEMA will use?

Yes, this will be the script of the test message sent by FEMA: "This is a National test of the Emergency Alert System. This is only a test. Broadcast and cable operators in your area have developed this system in voluntary cooperation with FEMA, the FCC and local authorities to keep you informed in the event of an emergency. If this had been an actual emergency an official

message would have followed the alert tone. This concludes this National test of the Emergency Alert System."

Q6: Will this IPAWS audio message be delivered to EAS units in the same way as the audio message aired in the Wisconsin RMT tests that are originated via IPAWS?

No, it will not. Wisconsin IPAWS-delivered RMT messages contain the URL of the audio file; your EAS unit then uses that URL to go out on the Internet and retrieve the MP3 audio file for insertion into the Wisconsin RMT. For this IPAWS NPT test, FEMA has chosen the alternate method of actually embedding the audio file into the IPAWS CAP message itself. This will likely be the first time any Wisconsin station or cable system has aired embedded audio, so keep this in mind when evaluating how the test went at your facility. If for some reason your EAS unit has difficulty with the embedded audio file, the EAS unit will default to using its internal text-to-speech capability to create the audio message; take note if this happens in order to include this detail in your survey response.

### Q7: Is there a chance that this test could be cancelled?

Yes. Shortly before the test, FEMA will check with both the National Weather Service (NWS) and Wisconsin Emergency Management (WEM). If there is any in-progress weather or emergency event and either NWS or WEM requests that the test be cancelled in Wisconsin, FEMA will not include the Wisconsin EAS Location Code in this test. If the test is cancelled in Wisconsin, there will be no make-good, it will just be dropped and not run at any other time.

# Q8: Must our station or cable system carry this test?

No, local radio and television stations and cable systems are not required to participate in the test; however, broad voluntary participation will be very helpful to FEMA in evaluating how the test message propagates throughout the region.

Q9: Will my station or cable system be cited by the FCC or FEMA if I fail to carry the test or have issues carrying the test?

No, this test is completely voluntary and is taking place in a no-fault environment. There is no FCC regulatory liability for stations that choose not to participate, nor any consequences based on distribution success or failure.

# Q10: Is this test intended to replace the RWT and/or the RMT?

No, FEMA notes that since this test is voluntary, it is not intended to replace the Required Weekly Test (RWT) or the Required Monthly Test (RMT); however, if your station does successfully air the NPT test, FCC rules allow that you could then forego running the RWT test that week.

### Q11: Is there a way to report how the test went at my facility?

Yes, the Wisconsin EAS Committee has prepared an online survey that we request all broadcasters and cable operators complete after the test. The URL of that survey is: https://www.surveymonkey.com/r/HM26QTS

Visit the FEMA website with some additional information:

http://www.fema.gov/media-library-data/1433778365921-90e4f7b828e3c8296a3441256ef494d1/IPAWS\_Supported\_Testing\_Fact\_Sheet\_06052015.pdf

# **Certification Application Deadlines Approaching**

# 2015 EXAM SESSION APPLICATION DEADLINE SBE Certification Exam Dates Announced

The SBE offers 15 different certifications across several disciplines of broadcast engineering and master control operations. Exam dates for the remainder of 2015 and all of 2016 have been announced. Choose the right exam period for you and submit your application by the date indicated. For more information and applications, visit the Certification page on the SBE website.

2015-16 Exam Dates	Location	Application Deadline
Nov. 6-16, 2015	Local Chapters	Oct. 2, 2015
Feb. 5-15, 2016	Local Chapters	Dec. 31, 2015
April 19, 2016	NAB Show, Las Vegas	March 18, 2016
June 3-13, 2016	Local Chapters	April 15, 2015
Aug. 5-15, 2016	Local Chapters	June 3, 2016
Nov. 4-20, 2016	Local Chapters	Sept. 30, 2016

Click <u>HERE</u> for the certification applications. If you have any questions contact the Certification Director, <u>Megan Clappe</u>.

# FCC Field Director, Board Inductions Highlight SBE Annual Membership Meeting

Charles Cooper, acting field director at the FCC's Enforcement Bureau, was a guest speaker at last

week's SBE Annual Membership Meeting. Cooper discussed the coming changes to the FCC field office structure and enforcement efforts by the FCC against pirate radio operations.

The meeting was also highlighted by the induction of the 2015-16 SBE national officers and directors. Jerry Massey, CPBE, 8-VSB, AMD, DRB, CBNT was installed as the 29th president of the SBE. Massey is corporate regional engineer southeast U.S. at Entercom Communications in Greenville, SC.



The one-hour meeting was webcast live from the Madison (WI) Marriott West Hotel. The <u>video archive</u> of the meeting is available at the SBE website. The meeting was part of the SBE National Meeting, held in conjunction with the Broadcasters Clinic, sponsored by the Wisconsin Broadcasters Association and the SBE chapters of Wisconsin.

#### CHAPTER 80 ELECTED AND APPOINTED OFFICERS

Chairman	Steve Konopka	WPNE TV/FM	920-336-3541	skonopka@ecb.orgn
Vice Chairman	Tim Laes	WGEE WIXX WNCY WROE	920-435-3771	tlaes@new.rr.com
Treasurer	Steve Brown	WHBY WAPL WKSZ WZOR	920-733-6639	sbrown@wcinet.com
Secretary	Keith Kintner	UWO	920-424-7357	kintner@uwosh.edu
Program Chairman	John Pfankuch	Heartland Video Systems	920-893-0204	jpfankuch@hvs-inc.com
Membership Chairman	Mark Friedman	WPNE TV/FM	920-336-3541	mfriedman@ecb.org
Sustaining Membership	Stu Muck	Muck Broadcast services	920-960-0045	MBSFDL@yahoo.com
Frequency Coord. < 1 GHz	Tim Laes	WGEE WIXX WNCY WROE	920-435-3771	tlaes@new.rr.com
Frequency Coord. > 1 GHz	Bill Hubbard	UW Green Bay	920-465-2510	hubbardw@uwgb.edu
Newsletter Editor	Dave Driessen	WGBA WACY	920-494-2626	ddriessen@nbc26.com
Certification Chairman	Jim Sams	Retired	920-822-5951	jsams@netnet.net
Chapter 80 Webmaster	Mike Steele	WHBY	920-831-5605	msteele@wcinet.com
EAS Coordinator	Steve Konopka	WPNE TV/FM	920-336-3541	skonopka@ecb.org
Board of Dirs/SBE Liaison	Keith Kintner	UWO	920-424-7357	kintner@uwosh.edu

# IP Network Troubleshooting - Part 2 Webinar is Nov. 19

Wayne Pecena, CPBE, 8-VSB, AMD, DRB, CBNE, will lead an SBE webinar on "IP Network Troubleshooting - Part 2," Thursday, Nov. 19 from 12 to 1:30 p.m. ET (note the change in time). This webinar is part two of a multi-part troubleshooting series. Participants should have knowledge of basic IP network fundamentals, physical layer verification techniques, Ethernet switch errors, or have attended part one of this webinar series.

Successful troubleshooting of any system relies on applying a logical approach with knowledge of the technology involved, and maybe a little luck when experience is lacking. This webinar will focus on utilizing protocol analysis to troubleshoot performance abnormalities of an IP network in a LAN environment. A focus will be placed upon understanding and applying protocol analysis utilizing the open-source protocol analyzer, Wireshark.

#### **Webinar Outline**

Re-Cap & Review of Part 1 Takeaways
Layer 3 Routing Verification
Understanding ping and traceroute Shortcomings
Getting Started with Protocol Analysis using Wireshark
Understanding Wireshark Views
How to Capture Network Traffic - Where to Capture Network Traffic?

Pecena is the assistant director of educational broadcast services in the Office of Information Technology at Texas A&M University. In this position, he serves as the director of engineering of TTVN: The Enterprise Videoconference and Data Network serving the Texas A&M University System and public broadcast stations KAMU-TV and KAMU-FM serving the Brazos Valley area.

Webinar registration fee is \$49 for SBE members and \$80 for non-members. Register online or call the SBE National Office at 317-846-9000. Completion of this webinar qualifies for one credit, identified under Category I of the Recertification Schedule for SBE Certifications. More information about the webinar is available at the SBE website.



Do you or someone you work with need some additional education on a technical or regulatory topic? Many helpful subjects are available in the SBE library of archived webinars and courses. SBE members get discounted prices and some are free. Below are several that might interest

you. For the full list, visit the SBE website, Education page.

#### **Webinars**

2015 RF Safety Course presented by Richard Strickland, RF Safety Solutions

Designed for broadcast station personnel, including chief and assistant chief engineers, transmitter site engineers, ENG and SNG maintenance personnel and management who need an understanding of RF safety issues and regulations.

SBE Members \$95; Non-Members \$150

### Transmitter Maintenance Checklist presented by Steve Fluker, CBT

Covers the regular tasks that should be performed at a tower site. While maintenance of the transmitter itself is important, keeping accurate and up-to-date logs and records is paramount to maintaining the entire site. SBE Members \$49; Non-Members \$80

### HD Radio Advancements and Trends presented by Alan Jurison, CSRE, AMD, DRB, CBNE

Reviews some of the newest HD Radio features (Artist Experience, Data Services) and implementation of HD Radio in the automotive space. An overview for non-engineering managers, it also provides a lower-level technical discussion for engineers.

SBE Members: FREE; Non-Members: \$49

TV White Space Devices & Wireless Microphones presented by Joe Snelson, CPBE, 8-VSB

The FCC now allows unlicensed wireless devices to operate in vacant or TV White Space channels and accommodates unlicensed microphone use. This is an overview of what the FCC has authorized for unlicensed devices and how this impacts the daily operations.

SBE Members: FREE, thanks to Shure; Non-Members: \$49

<u>IP Network Troubleshooting - Part 1</u> presented by Wayne Pecena, CPBE, 8-VSB, AMD, DRB, CBNE Focuses on applying a logical approach to troubleshooting an IP network in a LAN environment with a basic understanding of IP networking principals by following the data flow layers of the OSI model. Focus is placed on utilization of techniques and use of common open-source tools to identify and isolate network connectivity and performance abnormalities.

SBE Members \$49; Non-Members \$80

<u>Chief Operator Responsibilities - What Should I Be Doing?</u> presented by Dennis Baldridge, CPBE, 8-VSB, AMD, DRB, CBNT

Licensees of AM, FM, TV or Class A TV broadcast stations must designate a person to serve as the station's chief operator (FCC Rules 73.1870). Depending on the type of facility, there are varying requirements as to who this person may be and their responsibilities. Updated in 2015 to include recent changes and updates.

SBE Members: \$49; Non-Members: \$80

### **SBE University Course**

Computer Networking for Broadcast Engineers, written by Paul Claxton, CPBE, CBNE

This course provides the student an introduction to the fundamental concepts of computer topologies (both physical and logical), media types, the OSI model and local area networking. This course will assist the broadcaster in passing the SBE Certified Broadcast Networking Technologist exam. Includes quiz questions.

SBE Members: \$99; Non-Members: \$169

# Compensation Survey, Dues Increase Approved by Board

The SBE Board of Directors met Oct. 13 in Madison, WI. Among the decisions made was the approval to conduct a broadcast engineering compensation survey in 2016, category adjustments to the SBE National Awards Program, the location of the SBE National Meetings in 2016 through 2018 and adoption of the organization's budget for 2016.

The compensation survey is planned to be conducted in the late spring and will include technical positions in TV, radio and related areas. The changes to the national awards include several new categories, two categories that will be discontinued and several others that will be modified; all with the aim of better reflecting the technical broadcast media field and SBE chapter activities today.

Locations for upcoming SBE National Meetings were selected with Columbus, OH, the site chosen for 2016; Denver, CO, in 2017 and a location in the New England area in 2018.

The budget approved includes a \$7 increase in individual membership dues, the first increase in three years, effective January 1, 2016. Details of these and other Board actions will be published in the December issue of *The Signal*.



### **Reverse Auction Opening Prices**

			Opening Prices <sup>2</sup>		
DMA Rank	DMA <sup>1</sup>	Call Sign	Move Off-Air	Move to Low VHF	Move to High VHF
67	Charleston-Huntington, WV	WLPX-TV	161,575,200	121,181,400	64,630,080
67	Charleston-Huntington, WV	WOWK-TV	89,032,500	51,935,625	NA
67	Charleston-Huntington, WV	WPBO	138,699,900	104,024,925	55,479,960
67	Charleston-Huntington, WV	WQCW	191,742,300	143,806,725	76,696,920
67	Charleston-Huntington, WV	WSAZ-TV	177,039,000	132,779,250	70,815,600
67	Charleston-Huntington, WV	WTSF	103,309,200	77,481,900	41,323,680
67	Charleston-Huntington, WV	WVAH-TV	202,184,100	151,638,075	80,873,640
67	Charleston-Huntington, WV	WVPB-TV	109,797,300	82,347,975	43,918,920
68	Green Bay-Appleton, WI	WACY-TV	124,351,200	93,263,400	49,740,480
68	Green Bay-Appleton, WI	WBAY-TV	151,919,100	113,939,325	60,767,640
68	Green Bay-Appleton, WI	WCWF	119,007,900	89,255,925	47,603,160
68	Green Bay-Appleton, WI	WFRV-TV	152,650,800	114,488,100	61,060,320
68	Green Bay-Appleton, WI	WGBA-TV	124,395,300	93,296,475	49,758,120
68	Green Bay-Appleton, WI	WLUK-TV	91,654,740	53,465,265	NA
68	Green Bay-Appleton, WI	WLWK-CD	Not Needed	Not Needed	Not Needed
68	Green Bay-Appleton, WI	WPNE-TV	134,212,500	100,659,375	53,685,000

FCC releases Reverse Auction opening prices for Green Bay stations The actual price will likely be lower

# 2015 Clinic Wrap Up

The 2015 Broadcasters Clinic enjoyed the convergence of events surrounding the National SBE Meeting and the WBA Fall Board Meeting. The culmination of these events along with a strong session agenda and an impressive exhibit hall resulted in one of the most successful Clinics on record.

This year's Clinic brought together like minded attendees, speakers, VIPs, and vendors all highly focused on the profession of broadcast engineering. Session planning came from all four Wisconsin SBE Chapters; 24, 28, 80, and 112 with the administrative and financial support of the WBA. Over 300 people and 65 exhibitors from 24 states across the country converged on the Madison Marriott West for three days of exposure to and speculation on the future of broadcasting in all facets.

Once again the award winning Broadcasters Clinic proved why it is regarded as one of the top regional broadcast engineering conferences in the Country. Even the weather cooperated with amazing autumn colors all around the conference center.

2016 will be another busy year for the Clinic Committee starting with the day long Summer Engineering Workshop in conjunction with the WBA Summer Conference in La Crosse, WI on June 22. Then we look forward to the 60th year of the Broadcasters Clinic. Save those dates, October 11th thru the 13th at the Madison Marriott West. . by Leonard Charles, Clinic Chair

















# SBE Chapter 80 thanks our our fine sponsors for supporting our chapter