



The Society of Broadcast Engineers

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

December 2015

Like us on FaceBook - [facebook.com/sbe80](https://www.facebook.com/sbe80)
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Our next SBE Chapter 80 meeting will be at the Out O; Town club on December 15th at 6:30PM in the evening. Our guest speaker will be Rob Riordan of Nsight

Chairman's Corner

Greetings Everyone,

I hope you have had a nice Thanksgiving, and the festivities continue with our Chapter 80 Annual Holiday Gathering to be held on Tuesday evening, December 15th, 2015 at the Out 'O Town Club in Kaukauna. Members, guests, spouses and significant others are welcome, gathering at the bar at 6:30 PM. We will enjoy our meal at about 7:15, followed by a short business meeting and our program.

We are fortunate to have guest speaker Rob Riordan of Nsight. Please see his attributes in this newsletter.

At this time I wish to thank all of our committee members and all of you for your support and assistance during my chairmanship term which now comes to an end. We will be introducing our new Officers at the meeting.

Our last meeting was held on November 17th where we enjoyed a very educational program by Terry Johnston, Senior Field Applications Engineer of LiveU Inc., whose topic was bonded cellular ENG solutions.

Regards,
Steve Konopka

Upcoming meetings and events:

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.



Robert H. Riordan

Rob Riordan, executive vice president and director of corporate development for Nsight, is a dynamic speaker and lively commentator on emerging technologies in the telecommunications world. In his role he looks six months to six years ahead of where the company is today.



When Rob is not working on mergers, acquiring new markets and spectrum or interfacing with investment bankers, he spends much time researching potential technologies and their role at Nsight. Through his studies of Mobile IP, for example, Nsight became the first company in the US to provide the service.

This knowledge combined with his 30 years of telecom experience allows Rob to speak on a number of subjects. As a member of the National Speakers Association, he has traveled the globe through speaking engagements during the last ten years. Past topics include Wireless: Friend or Foe, Wireless Internet Futures, and National Issues from a Small Company Perspective. In addition to various state telecommunications meetings, Rob has spoken on behalf of the Wireless Communications Association, Broadband Wireless Forum, OPASTCO, Telecoms and IT Brand Building and Development Forum in London, UK the Broadband Fixed Wireless Access World Congress in Rome, Italy, Femtocells Asia and Femtocells World Summit just to name a few.

His community involvement includes immediate past president of the board of directors for the historical Meyer Theatre, on the board of directors for the New North, on the board of directors for Relevant Radio and has served as chairman for the City of Green Bay Chamber of Commerce board of directors. In addition to being past Chairman of OPASTCO, he has served on and chaired industry committees for USTA, WSTA, CTIA, RCA and WCA.

Rob has four children and three grandchildren and lives in Green Bay with his wife, Cathy. He is a graduate of the University of Wisconsin – Platteville

Certification Deadlines Approaching

December 31st is the deadline to register to take an exam during the 2016 exam session. Access all of the applications on the SBE website.

What certification level is right for you? Check out the qualifications for the different levels [here](#).

Want a little more time to study? Below is a list of the upcoming exam sessions that will take place at your local chapter.

2016 EXAM SESSION	APPLICATION DEADLINE
February 5-15	December 31, 2015
June 3-13	April, 19, 2016
August 5-15	June 3, 2016
November 4-20	September 30, 2016

If you have any questions contact the Certification Director, [Megan Clappe](#).

Is January 1 Your SBE Recertification Deadline?

SBE [Certifications](#) are valid for five years and then holders can recertify for additional five-year periods. Some come due on January 1 while others are due on July 1. Be sure to check your certification card to see when you are due to recertify. If you have any questions about the process, see the recertification information on the SBE website, or contact [Megan Clappe](#), SBE certification director, at the SBE National Office, 317-846-9000.

[More >](#)

CHAPTER 80 ELECTED AND APPOINTED OFFICERS

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Certification Chairman	Jim Sams	Retired	920-822-5951	jsams@netnet.net
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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

A Gift For You: SBE Webinars at a Discount

Members of the SBE can purchase one of the three webinars below for only \$29 from now until Monday, January 4. That is a \$20 discount!

["Chief Operator Responsibilities - What should I be doing?"](#)

This training covers the responsibilities of the Designated Chief Operator. The licensee of each AM, FM, TV or Class A TV broadcast station must designate a person to serve as the station's chief operator (FCC Rules 73.1870). Depending on the type of facilities, there are varying requirements as to who this person may be and their responsibilities.

["Transmitter Maintenance Checklist"](#) This webinar 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.

["IP Networking - Part 1 - the OSI Model and Layers"](#)

This webinar focuses upon 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.

Video of the Month: A remarkable new transmission technology

<https://www.youtube.com/watch?v=RXJKdh1KZ0w>



Featured SBE University Course - Computer Networking for Broadcast Engineers

[Computer Networking for Broadcast Engineers](#) written by Paul Claxton, CPBE, CBNE, is available to SBE members at a special rate of \$79 from now until January 4, 2016.

The purpose of this course is to give the student an introduction to the fundamental concepts of computer networking. The course will cover computer topologies (both physical and logical), media types, the OSI model, and local area networking. It will cover some legacy material but is primarily about Ethernet, TCP/IP and other current computer networking protocols. Hardware such as switches and routers will be covered and software such as VLAN, VPN, and NAT as well. Some basic troubleshooting, security, and administrative procedures will also be reviewed. The course is meant as an introduction, covering many subjects at a high level in order to assist the broadcaster in passing the Certified Broadcast Networking Technologist exam. There are several quiz questions at the end of each chapter to help the student ensure he/she understands the material.

This online course has 15 chapters, and includes graphics, a glossary, quiz questions, and a final exam. Subjects include physical media, physical network topologies, logical network topologies, the open systems interconnection model and data encapsulation, network devices, Internet protocols, routing and more.

This course is beneficial to those who wish to embark on self-study preparation for the SBE Certified Broadcast Networking Technologist® CBNT certification exam in a structured approach or one who desires an understanding of the basics of computer networking.

11/17/15 FEMA IPAWS NPT test report

Thanx much to those who completed our survey on the 11/17/15 FEMA IPAWS NPT test. It was a largely successful test in Wisconsin, with only a few isolated issues, which I will follow up on today.

There were 79 responses, representing 143 broadcast stations and 1 cable system.

- 89% (70 stns) auto-forwarded the test.

- 5% (4 stns) held the test and manually forwarded it when programming allowed.

- 5% (4 stns) test was received, but management elected to not forward the test.

- 1 station did not receive the test on any source - under investigation.

Auto-forwarded tests aired in the window from 3:20:28PM to 3:22:40PM.

Manually-forwarded tests aired in the window from 3:21:43PM to 3:34:31PM.

- 75% (58 stns) received the test first via IPAWS.

- 21% (16 stns) received the test first via Legacy EAS.

- 2 stations received the test only via Legacy EAS, not IPAWS - under investigation.

- 1 station did not receive the test on any source - under investigation. (as noted above)

- 84% (62 stns) said IPAWS audio quality was acceptable.

- 12% (9 stns) said Legacy EAS audio quality was acceptable.

- 4% (3 stns) said IPAWS audio was less than acceptable - under investigation.

- No stations reported that their EAS unit used text-to-speech for the audio.

In the last open-ended Comment question, there was much praise on the audio quality of the test and how well the test went overall. Again, thank you all for your time in completing the survey and participating in this test.

Gary Timm, Broadcast Chair

Wisconsin EAS Committee



SBE HAMnet - an Alternate Way to Stay in Touch

SBE HAMnet, the Society of Broadcast Engineers' "Chapter of the Air," was developed more than 25 years ago for those SBE members not in close proximity to a local SBE chapter but could communicate via amateur radio. Since then, it's become a great way for members, including those active in local chapters, to be in touch with one another, discuss technical broadcast issues and techniques, and get the latest information on SBE programs and activities.

The High Frequency (HF) HAMnet takes place on the second Sunday of every month at 2400 GMT. Hal Hostetler, CPBE, WA7BGX, of Tucson, AZ, has served as net control since almost the beginning of the program. The published frequency is 14.205 MHz. Occasionally that frequency is busy and participants need to move up, no more than 10 kHz, to find the SBE meeting.



On the first and third Mondays of each month at 9:00 p.m. US Eastern Time (6:00 p.m. Pacific Time), SBE HAMnet is on the Internet Repeater Linking Project (IRLP). The IRLP is a method of connecting different repeaters across the country and the world via the Internet. The net control station connects to the Denver, CO, IRLP reflector, which allows other repeaters and the Echolink system from all over the world to connect to it, creating a net that all can hear from their local repeater or computer.

SBE member Jack Roland (KEØVH), CBRE, AMD, CBNT, who developed the idea of using the IRLP as another way to get SBE members together, said, "We came up with the idea for this net because the SBE HF 'Chapter of the Air' is not always accessible by HAMS who cannot erect HF antennas, and because of the HF band's susceptibility to HF radio propagation characteristics." For more information about the IRLP net and how to participate, go to <http://www.ke0vh.com/net/net.html> or, you can contact Jack Roland, KEØVH, net control at ke0vh@q.com. The HF SBE HAMnet and IRLP HAMnet are official functions of the Society of Broadcast Engineers.

Want to receive an email reminder the day before, and the hour before, each monthly SBE HAMnet broadcast (HF or IRLP)? Members of the SBE may contact Scott Jones at the SBE National Office at kjones@sbe.org or 317-846-9000. Provide Scott with the email address you wish to use and he'll add you to the list to receive timely email reminders.

Photo courtesy of Jack Roland, CBRE, AMD, CBNT (KEØVH).

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