



The Society of Broadcast Engineers

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

June 2010

The next meeting of Chapter 80 SBE will be with the WBA/SBE Summer Engineering Clinic at Wisconsin Dells on Wednesday June 23.

Chairman's Corner

Welcome to our eNewsletter!

Our June meeting of Chapter 80 will be on Wednesday, June 23, 2010 with the WBA/SBE Summer Engineering Clinic at Chula Vista Resorts, Wisconsin Dells – Mark your calendars and plan to attend! Register and make your hotel reservations now. For information: <http://www.wi-broadcasters.org>

Our May meeting of Chapter 80 was held on Tuesday, May 18 at the Out O'Town Club in Kaukauna. The meeting included our Chapter elections. Congratulations to our new Chapter Chairman, Tim Laes, Chief Engineer with Midwest Communications. Our new Vice-Chairman is Steve Konopka, engineer for WPNE TV/FM. Steve Brown continues as Treasurer, and Keith Kintner was elected as Secretary.

A special thanks to Geoff Steadman, President of 25-Seven Systems, Inc. for the May program, "A Brief History of Time Compression." The program was informative and included a demonstration of their latest equipment. For further information: www.25-seven.com A special thanks to Geoff for the presentation and Buck Waters with Broadcasters General Store for hosting the luncheon. For more about Broadcasters General Store, www.bgs.cc



As you are aware, the Newsletter is now switched over to an electronic version. We are still missing email addresses for a few of our members. We need your current email address if you wish to continue to receive our Newsletter. If you know of any member who is not receiving the new version, please send us their email address. The Newsletter will also be posted on our website, and archive copies, as well as other Chapter 80 and SBE information are also available.

Upcoming events:

Tuesday, July 20, 2010 – Chapter 80 Summer Picnic – TBA

Friday, August 27, 2010 – Chapter 80 hosts the Taste of NAB 2010 Roadshow at the University of Wisconsin Oshkosh. Watch for details!

I have enjoyed serving as your Chapter Chair the past few years, and look forward to assisting the new officers as we move ahead. Thank you!

I look forward to seeing you on Wednesday June 23, 2010 at the WBA/SBE Summer Engineering Clinic at Chula Vista Resorts in Wisconsin Dells!

Regards,


Keith M. Kintner



Mark Bartolotta
Regional Sales Manager

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From the remarks of Commissioner Clyburn, 35th Annual Community Radio Conference, "Key Initiatives for the Future of Community Broadcasters".

"I am also optimistic that Congress will act to permit the licensing of new community stations under extremely flexible FM translator-type protection standards.

Should Congress pass the Local Community Radio Act, we could realize a unique opportunity to license a great number – many hundreds - of new low powered community oriented radio stations." Read more:

http://hraunfoss.fcc.gov/edocs_public/attachmatch/DO_C-298738A1.pdf (fcc.gov)

FCC ANNOUNCES JUNE 25 BROADCAST ENGINEERING FORUM One of the goals of the National Broadband Plan is to evaluate the reallocation of spectrum from the broadcast television bands, including rule-makings regarding service areas, distance separations, channel-sharing, and other mechanisms to achieve its spectrum reallocation goals.

The topics for discussion will be (1) Cellularization of Broadcast Architecture, (2) Methodologies for Repacking the TV Band; (3) Improvements in VHF Reception; and (4) Advancements in Compression Technology. Following these working sessions, each group will publicly report on its preliminary findings and recommendations with respect to its assigned topic.

ONLINE: <http://reboot.fcc.gov/live/>

FCC Consumer Task Force announced two initiatives that will help the FCC determine the broadband (fcc.gov)

speeds consumers are getting in their homes and on their mobile devices, a key recommendation in the National Broadband Plan.

In the first of these initiatives, the FCC is asking today for 10,000 volunteers to participate in a scientific study to measure home broadband speed in the U.S. Specialized hardware will be installed in the homes of volunteers to measure the performance of all the country's major Internet service providers across geographic regions and service tiers. The FCC is partnering with SamKnows Limited in this effort, the same firm that successfully conducted a similar test in the United Kingdom.

Next, the FCC's Consumer and Governmental Affairs Bureau is issuing a Public Notice today to look at ways to measure mobile broadband speed. More and more consumers are using mobile wireless devices to access the Web, sometimes as a primary Internet connection. The Public Notice asks for input on the best ways to measure mobile broadband speeds, the ways that speed measurements can be used to help improve service, and the information consumers should have about the speed of mobile broadband coverage.

A Public Notice asking for comment on the test plan was released in April 2010 and can be found at http://hraunfoss.fcc.gov/edocs_public/attachmatch/DA-10-670A1.pdf. (fcc.gov)



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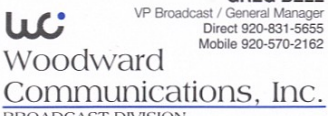
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CHAPTER 80 ELECTED AND APPOINTED OFFICERS 2010-2011


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Past Chairman	Keith Kintner	UWO	920-424-7357	kintner@uwosh.edu
Board of Dirs/SBE Liaison	Keith Kintner	UWO	920-424-7357	kintner@uwosh.edu

The **2009 Year End Certification Report** was presented to the SBE Executive Committee at its meeting in Orlando, FL on January 23rd. This year the Certification Committee did a full review of the question database. The committee is in the process of rewriting questions to replace the outdated questions. Some end-of-year National summaries from the report are as follows.

- New Certification Total: 464
- Recertification Total: 290
- Life Certification Total: 44
- Exam Failure Total: 150
- Exam No Show Total: 19
- CertPreview Total Purchases: 359
- Employer Letters: 49
- New SBE Members From Certification: 48
- Certification Publications Purchases
- Television Operators Handbooks 6th Edition: 1
- Television Operators Handbooks 7th Edition: 279
- Radio Operators Handbooks: 125

(SBE chapter 24)

The SBE Chapter 80 Newsletter is published monthly. Members are welcome to contribute articles or ideas. Please have your submissions in by the 4th of the month to Dave Driessen or Bill Tessman

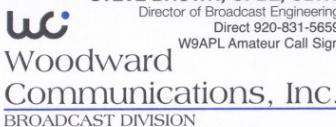


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In FCC Rule Making Proceeding, ARRL Supports Employee Participation in Drills In March 2010, the FCC released a Notice of **Proposed Rule Making** (NPRM) (WT Docket No 10-72) that proposed to amend the Part 97 rules -- specifically 97.113(a)(3) -- governing the Amateur Radio Service. The new rules would provide that, under certain limited conditions, **Amateur Radio operators may transmit communications on behalf of their employers during government-sponsored emergency and disaster preparedness drills.** While current rules provide for Amateur Radio use during emergencies, the rules prohibit communications where the station licensee or control operator has a pecuniary interest, including communications on behalf of an employer, except for government-sponsored drills for which a waiver has been granted. The NPRM asked for comments from interested parties.

As such, on May 24, the ARRL filed its initial comments and on June 7, filed its reply comments. The ARRL's filings reflect the position by the Board of Directors at its January 2010 meeting.

While the ARRL said in its comments that it supports the FCC's proposal to "facilitate Amateur Radio operations during government-sponsored emergency preparedness and disaster readiness drills and tests," it advocates that the drills and exercises in which Amateur Radio licensee-employees may transmit communications on behalf of their employers "need not and should not be limited to Government-sponsored emergency communications drills and exercises. Instead, all bona fide emergency communications drills and exercises involving Amateur Radio should be subject to the same regulatory requirements.

”

<http://www.arrl.org/news/in-fcc-rule-making-proceeding-arrl-supports-employee-participation-in-drills>

(ARRL)

Storm Spotting in Green Bay

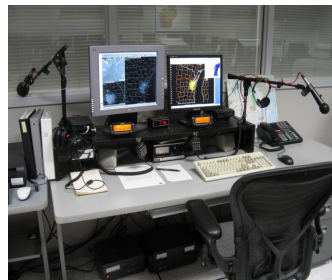
What is a Storm Spotter? Storm spotters are volunteers who help their community and NOAA's National Weather Service by keeping an "eye on the sky" during severe weather. Our spotters contact the NWS via phone, amateur radio, or the internet, keeping our forecast staff updated with the latest weather information from their location. Anyone over the age of 15 years old can become a spotter. If you would like to become a severe weather spotter for [northeast or north-central Wisconsin](#), you must attend the training presented by NWS Green Bay.

Every spring, 20-25 classes are held across northeast and north-central Wisconsin. To remain a spotter in good standing, you must attend refresher courses at least once every four years--every one or two years is preferred. The 90 minute training seminar is fast paced and filled with information.

For additional information concerning the spotter program, contact your local emergency manager or NWS Green Bay Warning Coordination Meteorologist Jeff Last (jeff.last@noaa.gov).

<http://www.crh.noaa.gov/grb/?n=spotters>

Amateur Radio Operations at NWS Green Bay - WX9GRB



Amateur radio spotters provide valuable weather reports to the NWS Green Bay office during severe weather. Several volunteer net controllers, lead by Christian Reynolds (KC0ARF), staff the amateur radio desk at the NWS Green Bay office--WX9GRB (above, left)--and stay in contact with spotters across northeast and north-central Wisconsin. The 80 ft tower is home to the antennas. (NOAA.gov)



**2010 SUMMER CONFERENCE
ENGINEERING SESSION AGENDA**

Society of Broadcast Engineers Summer Engineering Workshop The Wisconsin Broadcasters Association –The one day engineering event is on June 23rd at Chula Vista Resort in Wisconsin Dells.

8:40 AM - 4:30 PM Engineering Sessions Location: Upper Dells

The morning sessions will cover a wide range of IP topics. We will investigate communicating with, controlling and monitoring your transmitter site from anywhere in an IP world. Then we'll build on last year's popular networking security session. This year we'll investigate elevated IP security risks both inside and outside your IP network.

Morning Session Speakers:

- * 8:40am: Opening Remarks, Michelle Vetterkind, WBA President & CEO
- * 8:45am: Tony Peterle, Technical Support Manager, WorldCast Systems Inc.
- * 9:30am: Steve Dinkel, Director of North American Sales, Burk Technology
- * 10:15am: Break
- * 10:30am: David Kieper, Manager of Network and Infrastructure Services, UW-Green Bay
- * 11:15am: Peter Kretche, Senior Network Systems Administrator, UW-Green Bay
- * 12:00pm: Lunch

Lunch Sponsored By:Nautel

After Lunch we will delve into the evolution of CAP and Next Generation EAS, in particular to the State of Wisconsin. Our State Emergency Communications Committee has been working on CAP distribution in our State and its time to get you involved in that process. In addition we will hear from EAS equipment manufacturers on their philosophy of incorporating CAP into our EAS systems. There will also be Next Generation EAS equipment demonstrations to help you determine how your station will get there.

Afternoon Session Speakers:

- * 1:00pm: Gary Timm, Broadcast Chair, Wisconsin EAS Committee
- * 1:35pm: Harold Price, President, SAGE Alerting Systems
- * 2:10pm: Jim Gorman, Owner, Gorman Redlich
- * 2:45pm: Break
- * 3:00pm: Art Leisey, Owner & Director of EAS, Trilithic
- * 3:35pm: Jim Heminway, VP and GM of Monroe Electronics (DASDEC)
- * 4:10pm: Patrick Gannon, President & COO, Warning Systems, Inc.
- * 4:45pm: End of Sessions
- * 5:00pm: Exhibits and Reception

<http://www.wi-broadcasters.org/wba/index.php/events/summer-conference/summer-conference-engineering-agenda/>

(The WBA)

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WISCONSIN 2010 EAS SCHEDULE

DAY/DATE	TIME	COMMENT.....
W 6 Jan	0850	Routine Monthly Test initiated by NOAA
R 14 Jan	1259	
M 18 Jan	1459	
T 26 Jan	1059	
W 3 Feb	2350	Routine Monthly Test initiated by WEM
R 11 Feb	1459	
M 15 Feb	1059	
T 23 Feb	1259	
W 3 Mar	0850	Routine Monthly Test initiated by NOAA
R 11 Mar	1059	
M 15 Mar	1459	
T 23 Mar	1259	
W 31 Mar	1059	
W 7 Apr	2350	Routine Monthly Test initiated by ECB
R 15 Apr	1059	
M 19 Apr	1459	
T 27 Apr	1259	
W 5 May	0850	Routine Monthly Test initiated by NOAA
R 13 May	1059	
M 17 May	1259	
T 25 May	1459	
W 2 Jun	2350	Routine Monthly Test initiated by WEM
R 10 Jun	1459	
M 14 Jun	1259	
T 22 Jun	1059	
W 30 Jun	1459	

The SBE Certification Committee has established the following exam dates. Choose the exam period that is best for you.

Exam Dates	Location	Application Deadline
August 6-16, 2010	Local Chapters	EXTENDED - June 14, 2010
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

[Click here for more information about SBE Certification.](#)

The newest version of **SBE CertPreview™** is available as an instant download or as a CD that will be mailed to you to install onto your computer.

The SBE CertPreview™ sample test software will give users an idea of what to expect on SBE certification exams. Each certification level on the software will have approximately 100-150 sample questions that users can take as a 50 multiple choice question sample exam.

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**If you purchased the previous version of SBE CertPreview™ between January 1, 2010 and June 1, 2010, you are eligible for a complimentary upgrade to the new SBE CertPreview™ for the exams that you purchased between this time period. You must contact SBE to receive this upgrade.

If you have questions on SBE Certifications or SBE CertPreview™ please contact the Certification Director, Megan Clappe.

(sbe.org0)

Computer Networking for Broadcast Engineers

The SBE has released a new course in its SBE University series of on-line, on-demand web courses. Computer Networking for Broadcast Engineers provides the student with 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 will be as well. Some basic troubleshooting, security, and administrative-procedures will also be discussed. The course is designed to serve as an introduction and should serve to assist the broadcaster in passing the SBE Certified Broadcast Networking Technologist exam. There are several quiz questions at the end of each chapter to help the student gauge his or her understanding of the material.

This course was written for SBE by Paul Claxton, CPBE, CBNT, IT management specialist and project engineer with the American Forces Network Broadcast Center in Riverside, California. Mr. Claxton is a retired US Navy Master Chief Petty Officer and has been an SBE member for more than ten years. He is active in the Society as current and past SBE Chapter 131 chairman and certification chairman. He holds certifications from Novell, Microsoft, CompTIA, and SANS in various computer networking, security and administration areas and has presented IT subject papers at the NAB's Broadcast Engineering Conference.

The table of contents for the course includes:

1. Introduction
2. Physical Media: Copper, Wiring Standards Fiber, Optic, RF and Connectors
3. Physical Network Topologies: Bus, Ring, Star, Mesh, Cellular and Hybrid

4. Logical Network Topologies: Bus and Ring and Connection Types
5. The Open Systems Interconnection Model and Data Encapsulation
6. Introduction to Network Devices: Repeaters, Transceivers, Hubs, Switches, Routers and Spanning Tree Protocol
7. Ethernet and Network Interface Cards
8. Internet Protocols (IP), Addressing and Subnetting, and DNS Servers
9. Routing and Route Discovery, and Network Address Translation
10. Troubleshooting Procedures, Hardware and Software Tools and Equipment
11. Virtual Local Area Networks (VLANs) and Virtual Private Networks (VPNs)
12. Security Principles
13. Data Backup
14. Documentation
15. Glossary

The completion of any SBE University course qualifies for 1 credit, identified under Category I of the Recertification Schedule for SBE Certifications. The cost of the course for members of SBE is just \$99.

The rate for non-members is \$119. This is an on-line course available to anyone, 24 hours a day/365 days each year. You work at your own pace and have the freedom to go back and forth through the course as often as you like. You may take as long as you wish to complete the course.

Registration for the course is available on-line at the SBE website using VISA, MasterCard or American Express. You may also order by telephone by calling the SBE National Office at (317) 846-9000 between 8:30 am and 4:30 pm ET, Monday through Friday. (sbe.org)

Officer Candidates The SBE national Nominations Committee has submitted a slate of candidates for this summer's Board of Directors election. The committee is chaired by Board Member, Jim Leifer, CPBE of Boynton Beach, Fla. Serving on the committee with Jim are Leonard Charles, CPBE, Madison, Wis., William Ryall, Portland, Maine and James Schoedler, CBNT, Denver, Colo.

Qualified SBE members may still be nominated by a voting member of SBE if accompanied by the endorsement of at least nine additional voting members. Nominations from the membership must be received by the SBE National Office no later than 4:00 pm, EDT, July 12. Nominees must be voting members (Regular, Senior, Life or the official representative of a Sustaining Member) in good standing (dues paid through March 31, 2011) and hold a

current SBE engineering level certification (CBT or higher) by July 12, 2010 and all through Board service if elected.

All four officer positions will be on the ballot as will six of the 12 director seats. Officer terms are for one year while director terms are for two years. Election ballots will be mailed from the National Office to voting members in good standing by July 27 and are to be returned so they are received by the National Office by August 26. Votes will be tabulated on the evening of August 26. Those elected will take office during the SBE National Meeting on October 27 in Madison, Wis. The National Meeting is being held in conjunction with the Wisconsin Broadcasters Clinic, presented by Chapter 24 of Madison and the Wisconsin Broadcasters Association.

(sbe.org)