



July 2014

A map of Westborough, MA, showing the location of Kroll's West Restaurant Cocktails. The restaurant is marked with a red pin and labeled "Kroll's West Restaurant Cocktails" in red text, with the subtitle "Longtime American eatery & sports bar" in black text. It is located at the intersection of Lombardi Ave and Brookwood Dr. Other nearby locations include Red Lobster to the northwest, Green Bay Distillery to the southeast, and Sammy's Pizza & Restaurant further south. Major roads shown include Route 41 (orange) and Route 32 (yellow). Various street names are visible, such as S Locust St, Briquet St, S Ridge Rd, Thorndale St, Liberty St, Victory Blvd, S Norwood Ave, S Maple Ave, S Chestnut St, S Broad St, 5th St, 9th St, 11th Ave, 13th Ave, 14th Ave, Gross Ave, Biemeret St, Langlade Ave, and Spence St. Other landmarks include a fire station (red building icon) and a police station (blue building icon).

SBE Chapter 80 Newsletter

Upcoming Events

August 19th – Picnic in Wausau. Host site will be WHRM thanks to Mark Hoenecke and the recently retired Dean Andrewjeski

September 16th – Werner Electric on FLIR handheld infrared thermography, Out O'Town Club, Kaukauna

October 21-24 – Broadcasters Clinic, Madison Marriott West

The Broadcasters Clinic: Do you know the latest on the TV Spectrum Auction? Are you interested in the testing that's been done exploring the possibility of an all-digital AM band? These cutting edge subjects and a lot more will be covered in depth at this year's Broadcasters Clinic. You'll want to reserve your seat early so you don't miss out on the latest industry technology advances and updates, as well as a strong vendor exhibit floor. It's the next best thing to attending the annual NAB conference, and its right here in Madison.

Mark your calendar now for October 21st, 22nd, and 23rd at the Madison Marriott West. We look forward to seeing you there. *Leonard Charles SBE24*

2014 - 2015 Certification Exam Schedule

The following certification exam dates will take place with the local SBE Chapter Certification Chairmen. If you live in an area where there isn't a local chapter, we can find an alternate means of taking the exam.

<u>EXAM DATES</u>	<u>APPLICATION DEADLINE</u>
August 8-18, 2014	June 6, 2014
November 7-17, 2014	October 6, 2014
February 6-16, 2015	December 31, 2014
June 5-15, 2015	April 10, 2015
August 7-17, 2015	June 5, 2015

Click [HERE](#) for the certification applications. If you have any questions contact the Certification Director, [Megan Clappe](#).

Certification - Frequently Asked Questions

Q. What is the passing score for the certification exams?

- A. Certified Television Operator (CTO) - 90%
- Certified Radio Operator (CRO) - 90%
- Certified Broadcast Technologist (CBT) - 70%
- Certified Broadcast Networking Technologist (CBNT) - 70%
- Certified Video Engineer (CEV) - 70%
- Certified Audio Engineer (CEA) - 70%
- Certified Broadcast Television Engineer (CBTE) - 70%
- Certified Broadcast Radio Engineer (CBRE) - 70%

The following certification exams are scored combining the multiple choice questions and essay question.

- Certified Broadcast Networking Engineer (CBNE) - 84%
- Certified Senior Television Engineer (CSTE) - 84%
- Certified Senior Radio Engineer (CSRE) - 84%
- 8-VSB Specialist (8-VSB) - 84%
- AM Directional Specialist (AMD) - 84%
- Digital Radio Broadcast Specialist (DRB) - 84%

Q. What happens if I don't pass?

A. You can retake the exam for a \$25 fee as early as the next scheduled exam session. Applicants are only notified whether they passed or failed an exam. Scores are not given out to anyone.

Q. How long will it be once I've taken the test before I know the results?

A. That answer varies depending on the type of test you have taken. An exam that doesn't include an essay question can be graded and the results sent back within a couple days of receiving it at the SBE National office. If there was an essay included with the exam, those grades may take longer. (The essays are sent to members of the National Certification Committee for grading.)

For information on how the exams with essays are graded, see this Signal article.

Check out this Signal article that has a sample essay question and answer.

Q. Once I pass an exam, what then?

A. You will receive a card and certificate of certification in the mail. Your certification is valid for five (5) years. SBE will also notify your employer, or anyone else you designate, of your certification if you request at the time of application.

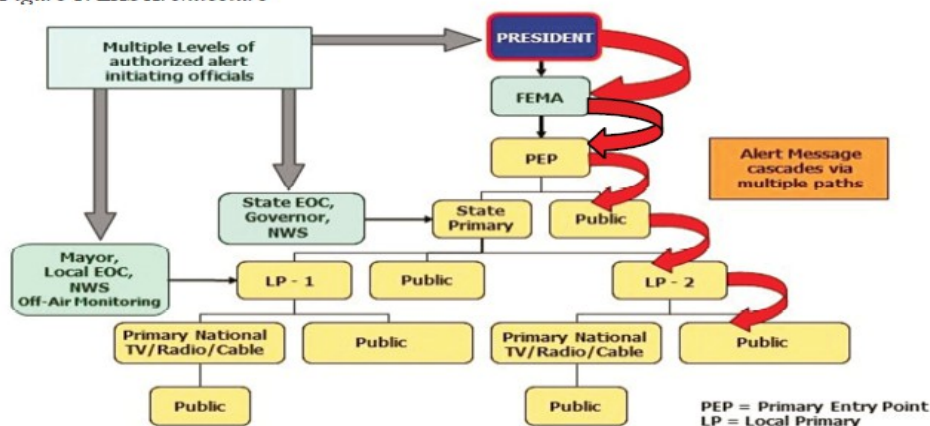
Q. How do I list my certifications

A. Check out this chart to better explain how to list your certifications.

For a complete list of SBE Certification FAQ's visit the SBE website (sbe.org)

FCC Proposes to modify EAS system. On June 25th, the FCC adopted a Notice of Proposed Rulemaking (http://transition.fcc.gov/Daily_Releases/Daily_Business/2014/db0630/FCC-14-93A1.pdf) concerning the Emergency Alert System. It covers two issues with the EAS systems: national alerts and presidential messages and tests, header codes and visual and audio accessibility. Based on the results of the national test that took place on November 9, 2011, the FCC is proposing a number of rules and changes to the EAS system. They include a nationwide location header code, a national periodic test header code, immediate retransmission of national alerts and tests (no store and forward) and electronic filing of the results of a national test to the FCC. The FCC is also proposing that each state plan provide the FCC a computer readable form of each station's monitoring assignments including primary backup paths. The FCC also wants EAS equipment manufacturers to clean up their programming to eliminate shortcuts in header codes which may cause the decoder to ignore some header codes and not recognize incoming messages. To deal with accessibility issues, the FCC is proposing that video crawls be of legible font, be at a readable crawl speed, not run off the screen, not block important visual information and run for the duration of the EAS activation. For audio, they are proposing that any audio in the alert convey identical or at least comparable text to the crawl. Comments will be due 30 days after publication in the Federal Register, with replies due 15 days after. (Tom Smith sbe24)

Figure 1. EAS Architecture



CHAPTER 80 ELECTED AND APPOINTED OFFICERS 2011-2012

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
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Program Chairman	Bill Hubbard	UW Green Bay	920-465-2510	hubbardw@uwgb.edu
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	Joe Kamenick	KAMENTECH, LLC	715-359-7088	jckamenick@peoplepc.com
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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

2014 Leadership Development Course The 2014 SBE Leadership Development Course will take place Tuesday-Thursday, August 12th-14th in Atlanta, Georgia at the Hyatt Place Atlanta Airport-South. This professional development course is a three-day intensive study of successful leadership and management designed specifically for broadcast engineers. Visit the Leadership Development Course page on the SBE website. The course fee is \$599 for members of the SBE and \$650 for non-members. Direct questions to Kristin Owens, SBE Education Director, at kowens@sbe.org.

The Fox Valley Wisconsin Chapter of the Society of Broadcast Engineers is proud to announce the selection of Tim Laes as the Chapter 80 “Engineer of the Year”.

Tim is the Director of Engineering for Midwest Communications of Green Bay, a group owner of over 60 radio stations in several states in the region. In his role, he has helped the company in all stages of acquiring, building, rebuilding and repairing studio and transmitter facilities in many markets. This often requires long hours, many travel miles and time away from home and family.

Tim has been an active SBE member since 1996, serving as a local frequency coordinator for the Chapter since then and also holding the office of Chapter Chairman from 2010 to 2012. He is currently Vice Chairman of Chapter 80 and serves on the Executive Committee. Tim is also an active supporter of Chapter 80's fund raising activities.

Tim still manages to find time to generously extend assistance to smaller broadcasters who may not have an engineer of their own, repairing sick transmitters and audio consoles and nursing otherwise neglected stations back to health. He is generous about sharing his knowledge with others and does so with humility and a sense of humor. Tim (W9EE) also is an Extra Class Amateur Radio Operator and enjoys his ham radio hobby when time permits, especially on 40 and 160 meters. Tim serves two local area ham clubs as a volunteer examiner too.

Tim has been married to wife Lori for 19 years and has three children at home: Reanna (16), Caden (14), and Cash (9).
Congratulations Tim!



SBE Regulatory Update Supreme Court rules in favor of Broadcasters. June 25, 2014 - The U.S. Supreme Court today ruled 6-3 in favor of Broadcasters and against the Internet service, Aereo. The Court's decision, "reverses a lower court ruling denying broadcasters' injunction against the [Aereo] service," according to a report by Broadcasting & Cable. Broadcasters asserted that Aereo was violating copyright by delivering TV station signals remotely over the Internet without compensating content providers.

The court ruled that Aereo provides a public performance, not a private one, as Aereo had asserted. "The statute makes clear that the fact that Aereo's subscribers may receive the same programs at different times and locations is of no consequence. Aereo transmits a performance of petitioners' works "to the public," Justice Breyer wrote for the majority.

Job posting: The State of Wisconsin Educational Communications Board (ECB) is seeking a skilled and seasoned Media Telecommunications Technician for a position based at Rib Mountain in Wausau. ECB, in partnership with Wisconsin Public Television and Wisconsin Public Radio, provides interconnect and transmission facilities for these important broadcast and safety services throughout the state. For more information on ECB, please visit <http://www.ecb.org/>. Wausau job posting deadline has been extended to July 21st http://wisc.jobs/public/job_view.asp?annoid=75870&jobid=75385

The Case of the naked tower

<http://www.radioworld.com/article/the-case-of-the-naked-towe>

Advanced IP Networking: Addressing the Network of Networks The Advanced IP Networking Webinar series continues with part 4: Addressing the Network of Networks on Thursday, July 24 at 2 p.m. ET. This webinar will build upon the previous webinars in this series by developing an IP addressing scheme for the segmented or layer network architecture developed throughout the series. A focus upon efficient use of public IPv4 address space will be provided in addition to integration of private IPv4 address space.

Fee for SBE Members is \$49. Fee for non-members is \$80. Register on-line at the SBE website. Direct questions to Kristin Owens via email or by phone at (317) 846-9000.

Are You Qualified for CPBE and Don't Know It?

While there are many SBE members certified to the highest and most prestigious level within the organization - Certified Professional Broadcast Engineer (CPBE), we find many members actually qualify for this but fail to realize it! Read on and it may surprise you to find that you are eligible to apply.

An important aspect of the CPBE qualification process is that there isn't an additional examination. The CPBE certification is based upon your many years of experience and references from your peers.

There are two ways to initially qualify. If you already hold Certified Senior Radio Engineer (CSRE) or Certified Senior Television Engineer (CSTE), then you simply need some paperwork to show that you meet the criteria. If you are not currently certified as a CSRE or CSTE, you need to first sit for either the radio or television senior level exam. Once you hold a senior certification, and have the requisite qualifications as outlined below, you may then apply for CPBE. The second way you may qualify to apply for the CPBE is if you hold a state Professional Engineers license in electrical engineering.

Note, that at the CPBE level, there is no distinction between radio and television. Once you have qualified by holding a senior certification or a state PE, you will need to also qualify by having the required experience as follows:

- Twenty years of professional work *employment* experience within the broadcast technical industry. Education time does not count unless you hold a state issued registered Professional Engineer (PE) license (electrical engineering only). This counts towards four years of experience. If you hold a PE license and wish to not take the CSRE or CSTE exam, you may do so as long as you can verify that you have 20 years of experience in broadcast engineering or a related field.
- Evidence of sufficient knowledge in:
 - Maintenance
 - System design
 - Management/supervision of employees
 - Continuing education

All candidates must submit the following along with their application and payment:

- Two letters of reference from an SBE CPBE or senior certification holder or a PE per above
- One additional letter of reference from a person who has supervised your work
- If the supervisor you use is certified at the senior or CPBE level, then only two letters will be required as it can count for both categories.

While not required, SBE strongly recommends that a resume be attached to more easily verify your qualifications and years of employment experience. As members of the committee charged with evaluating applications, we can attest to the value of as much relevant information, particularly a resume that an applicant can provide.

Finally, the applicant should supply a brief written statement which explains why you believe your professional experience, educational background and training qualifies you for certification based on the published criteria.

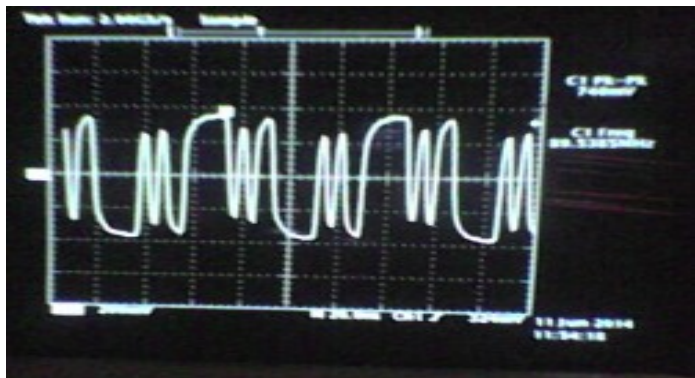
Currently the SBE has 743 individuals who have applied and qualified for certification at the CPBE level. Undoubtedly there are many of you among our membership and others who are at a place in their careers where you would qualify for CPBE certification. We urge you to apply if you meet the criteria.

Our wonderful certification staff is always happy to answer your questions and they can always refer to the Certification Committee for answers and further information if necessary.

This article previously appeared in the August 2013 issue of the Signal. The article was written by Hal Kneller, CPBE, AMD, DRB, CBNT and David Priester, CPBE both of the National Certification Committee.

For a complete list of SBE Certification FAQ's visit the [SBE website](#)

Picture of the month



ASI signal after 100ft of 8281 cable.

Android Apps presentation

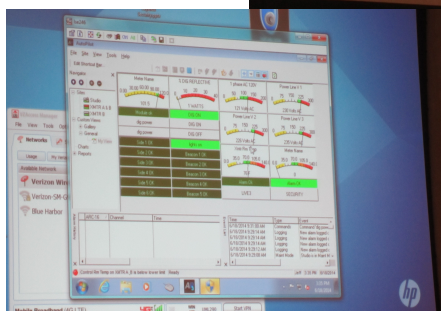
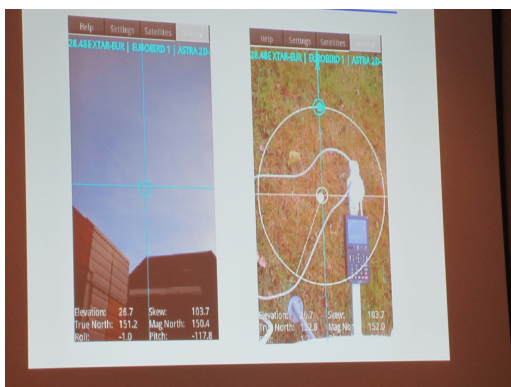
Thanks to all who attended the 2014 WBA-SBE Summer Engineering Workshop in Sheboygan. By request the Android Apps presentation has been posted on the front page of the Chapter 24 web site: <http://www.sbe24.org>.

Leonard Charles

WBA-SBE Broadcasters Clinic Program Chair

Madison, WI

Some pix from the summer engineering workshop



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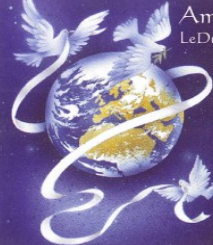
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