



The Society of Broadcast Engineers

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

September 2018

Like us on FaceBook -[facebook.com/sbe80](https://www.facebook.com/sbe80)

Our website sbe80.org

Twitter: @sbechapter8

Our next SBE Chapter 80 meeting will be at the Out O Town Club on Tuesday September 18th at noon. Our program will be by Dan Weiner Sales Engineer for Corning Optical Communications . Our program is “Fiber 101” This will be an interactive presentation. We will start with a summary of the fundamentals of fiber optic systems and their uses in today’s business world.

Congratulations to our own Steve Brown elected to the SBE board of Directors

Our thanks to WLUK for hosting our site picnic in August



Upcoming events

2018 Broadcasters Clinic October 16-18 at the Madison Marriott West

National EAS test September 20th.

CHAPTER 80 ELECTED AND APPOINTED OFFICERS

Chairman	Steve Brown	WHBY WAPL WKSZ WZOR	920-733-6639	sbrown@wcinet.com
Vice Chairman	Bill Moede	Cumulus	920-230-0809	Bill.Moede@cumulus.com
Imm Past Chair	Mark Hoenecke	WPT	715-845-1319	Mark.Hoenecke@ecb.org
Secretary	Bill Hubbard	UW Green Bay	920-465-2510	hubbardw@uwgb.edu
Treasurer	Mark Hoenecke	WPT	715-845-1319	Mark.Hoenecke@ecb.org
Program Chairman	John Pfankuch	Heartland Video Systems	920-893-4204	jpgfankuch@hvs-inc.com
Membership Chairman	Mark Friedman	Retired	920-336-3541	m48dat@yahoo.com
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	920-490-2688	dave.dr99@gmail.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	Broadcast Field Services	(920) 788-7435	flashgun99@yahoo.com
Board of Dirs/SBE Liaison	Mike Hendrickson			mhendrickson@sbe.org

2018 Broadcasters Clinic

One thing is for sure, broadcast technology doesn't stand still, and neither can you. Please join us for the **2018 Broadcasters Clinic**. The 2018 Broadcasters Clinic Agenda along with the Early Bird registration is attached for your consideration.

We are all very busy, BUT consider investing your time in YOU and your future. Your ROI in yourself may be the most profitable investment you ever make! I am confident that you will return from the Broadcasters Clinic recharged and ready to make the future happen.

To take advantage of the early bird rate and register for the 2018 Broadcasters Clinic, to be held October 16-18 at the Madison Marriott West, click [here](#).

On behalf of the Clinic Committee, thank you for your dedication to this industry, and we look forward to seeing you soon.

Please let me know how I can best be of assistance to you!

Linda Baun

Vice President

Wisconsin Broadcasters Association

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Look ahead at upcoming opportunities to take a [certification exam](#) in your area with the local chapter.

If you would like to take an exam but are not able to make it during these sessions, please contact Megan Clappe to ask about special proctoring.

Certification Exams The deadline to apply to take the SBE certification exam at your local chapter in June is April 21. Register today at sbe.org/certification.

Below is the upcoming certification exam schedule

Exam Dates	Location	Application Deadline (to SBE National Office)
November 2-12, 2018	Local Chapters	September 24, 2018

When you are ready to take an SBE exam, please fill out the appropriate application and send it into the SBE National office (see address below). You will be notified once your application has been approved. Approximately 3 weeks before the exam time, your local certification chairman will receive a list of applicants in his/her area. He/she will then contact those applicants to schedule a date, time and place for the exams. The exams will be mailed back to the National office for grading. The pass/fail grades will then be mailed directly to the applicants.

You may mail, email or fax your applications to:
Megan E. Clappe, Certification Director
9102 N. Meridian St. Suite 150
Indianapolis, IN 46260
317-846-9120 Fax

mclappe@sbe.org

National WEA/EAS Test

Wisconsin Broadcasters and Cable Operators,

Next week Thursday, September 20, will be the National WEA/EAS Test.

1:18PM CDT: FEMA will send the WEA test using the Presidential Alert function.

1:20PM CDT: The EAS Test will use the EAS Event Code NPT (National Periodic Test)

FEMA has established a special webpage with a Fact Sheet and 27 FAQs on the test:

www.fema.gov/Emergency-Alert-Test

If you still have questions, write: FEMA-National-Test@fema.dhs.gov

Some highlights of the FAQs:

- This will be the 4th National EAS test, and the 1st National WEA test.
- The script of the EAS message is given, and is to last about 1 minute.
- The script of the WEA message is given, as well as shown on a phone in a photo.
- Users cannot opt out of the Presidential message, so most cellphones will receive this test.
- More than 100 carriers, including the major carriers, participate in WEA.
- WEA is only capable of sending the message in English at this time.
- There is no charge to receive this or any WEA message, and WEA does not collect any personal data nor track your location; it is strictly a message broadcast with no return data path.
- It says carrier towers will rebroadcast the test for 30 minutes. So if you put your phone on Silent mode while in an air studio, you should be able to exit that mode by 2:00PM CDT and not have the audible test alert tone on your phone.
- Also note that FCC rules prohibit a received WEA message from interrupting an active voice or data session, but you will likely receive the test alert once you finish the voice or data session.
- If circumstances, such as a major weather event, cause the IPAWS National Test to be postponed, the backup date is Wednesday, October 3, 2018.
- The public can provide feedback to FEMA on the test. FAQ #26 lists 8 data points FEMA would like included with any report. Send to: FEMA-National-Test@fema.dhs.gov
- The EAS Test will include Spanish in the IPAWS message. If your EAS unit is set for Spanish, it will relay the Spanish message if you receive the IPAWS message before receiving a Legacy EAS over-the-air message.
- Even WEA-capable cellphones that are not activated with a carrier will receive this test of the Presidential WEA code.
- Even if you have your cellphone set to Silent Mode, the phone may still make the loud WEA alert tones when the test is received. It depends on the model of cellphone you have whether Silent Mode also silences the WEA alert tones. If your air talent has a cellphone in the studio, you may want to advise them to turn the phone off from 1:15PM – 2:00PM CDT on test day.

As a reminder, these are the ETRS filing deadlines:

- ETRS Form 2 must be submitted by 11:59PM EDT on Test Day, September 20, 2018.
- ETRS Form 3 must be submitted on or before November 5, 2018.
- ETRS webpage: <https://www.fcc.gov/general/eas-test-reporting-system>

Gary Timm, Broadcast Chair
Wisconsin EAS Committee

Update FEMA Security Certificates by Sept. 24, 2018

*From Larry Wilkins, CPBE
Chair, SBE EAS Advisory Group*

As a reminder to all engineers, the Federal Emergency Management Agency (FEMA) will update one of its security certificates on Sept. 24, 2018.

Security certificates allow EAS decoders to use the digital signature in the CAP message to verify that the message came from an authorized authority, and that it wasn't changed between the originator and EAS participants' equipment. These certificates expire periodically. FEMA currently uses a chain of five certificates for alert validation, one of which expires at 11:55 p.m. EDT on Sept. 24, 2018 (Sep 25 03:55:36 2018 UTC).

Monroe-Electronics and Sage Alerting Systems have both issued updates to their EAS units.

DASDEC users: A field service bulletin and CA file are available from the Digital Alert Systems website at digitalalertsystems.com/resources_fsb.html. All DASDEC and One-Net customers should download the field service bulletin for instructions, and install the new CA file.

Sage Endec users should visit sagealertingsystems.com for complete information on downloading and installing the file in their units.

Engineers are also reminded that FEMA has scheduled a national EAS test on Thursday, Sept. 20. It will be sent at 2:20 p.m. EDT. The test will be fed via IPAWS.

Be aware that preceding the EAS test to broadcasters, FEMA will send a Wireless Emergency Alert (WEA) test message to all WEA capable wireless devices throughout the entire United States and territories. That message will be sent at 2:18 p.m. EDT.

National EAS Test Scheduled for Sept. 20

The Federal Emergency Management Association (FEMA) has announced that a National EAS test will be sent on Thursday, Sept. 20, 2018. There is a difference between this test and the two previous tests. At 2:18 p.m. Eastern Daylight Time (EDT), FEMA will send a Wireless Emergency Alert (WEA) test message to all WEA capable wireless devices throughout the entire United States and territories. Immediately following the WEA nationwide end-to-end test, at 2:20 p.m. EDT, FEMA will conduct a live test of the Emergency Alerting System (EAS). All EAS participants are required to participate in this nationwide test. The EAS message will be disseminated via the Integrated Public Alert and Warning System (IPAWS).

Stations are encouraged to verify that their EAS units are communicating correctly with the IPAWS server. Review your station logs (which should be checked once each week by the chief operator) to ensure you are receiving the Required Weekly Test (RWT) from IPAWS. This RWT is fed every Monday at 11:00 a.m. local time. Contact your equipment representative for details on setting up your EAS decoder to properly receive and relay the National test.

EAS participants are reminded that they are required to register with the EAS Test Reporting System (ETRS) and must complete the filing of ETRS Form One on or before Aug. 27, 2018. Then on or before 11:59 p.m. EDT, Sept. 20, 2018, EAS participants must file the day-of-test information sought by ETRS Form Two. On or before Nov. 5, 2018, EAS participants must file the

detailed post-test data sought by ETRS Form Three.

Filers can access ETRS by visiting the ETRS page of the Commission's website at www.fcc.gov/general/eas-test-reporting-system. Instructional videos regarding registration and completion of the ETRS Forms are available on the ETRS page.

2018 SBE Election Results

President:

Jim Leifer, CPBE, Tewksbury, MA

Vice President:

RJ Russell, CPBE, Middletown, DE

Secretary:

Wayne Pecena, CPBE, 8-VSB, AMD, DRB, CBNE, College Station, TX

Treasurer:

Jim Bernier, CPBE, CBNE, Alpharetta, GA

Elected to two-year terms as directors are:

Stephen J. Brown, CPBE, CBNT Appleton, WI - Chapter 80

Roz Clark, CPBE, CBNT Clearwater, FL Chapter 39

Kirk Harnack, CBRE, CBNE Nashville, TN Chapter 103

Vinny Lopez, CEV, CBNT Syracuse, NY Chapter 22

Tom McGinley, CPBE, AMD, CBNT Missoula, MT Chapter 16

Shane Toven, CBRE, CBNT Laramie, WY Chapter 48

Broadcasters Clinic

Are your personnel ready should there be a security breach at your facility?

Check out the panel discussion session on Wednesday, October 17th at 9:15 am.

If you don't attend any other session for the rest of the year, this session you won't want to miss!!!!

- What are the issues in DC that station engineers should be aware of and watching?
- Where are we on HD Radio, Preventing Next Tower Disasters and Radio Technology?
- Do you know about AWARN the most advanced emergency alerting system? Need information or want to learn more on ATSC 3?

We are happy to provide to you the opportunity to meet with the very BEST industry vendors. You will have exclusive time to meet with them and find out the latest in technology.

Join us as we tackle the above questions and much more October 16-18 at the Madison Marriott West for the award-winning Broadcasters Clinic. Complete agenda along with speaker information is attached.

If you haven't signed up...get your registration in SOON!

Note the Madison Marriott West hotel deadline is **5pm on September 24th**. Registration for hotel can be accessed by clicking [here](#)

Registration can be found [here](#).

This event is well worth your consideration and time!

Your friends in Wisconsin look forward to seeing you.

Please let me know how I can best be of assistance to you!

Linda Baun

Vice President

Wisconsin Broadcasters Association

Advanced RF 201 Series: Module 4: Transmitter Site Grounding



David Brender of the Copper Development Association (CDA) will present [Transmitter Site Grounding](#), the fourth module of the SBE RF 201 webinar series. The webinar will be held live on Wednesday, Sept. 26, from 2:00 p.m. to 3:30 p.m. ET.

Module 4 covers the elements of a building's wiring, bonding and grounding (including lightning protection) that pertain to proper operation and improved up-time at communications facilities at little cost. The presentation provides some basic theory and concentrates on actual experiences at broadcast facilities where grounding and lightning protection were of paramount importance in maintaining system availability.

Brender's duties with CDA includes directing and managing its building wire and power quality initiatives, research activities, National Electrical Code and IEEE activities, among others.

The cost is \$59 for SBE members and \$89 for non-members. SBE MemberPlus members participate in the webinar for FREE. Registration is required. [Click here to register](#).

Completion of this SBE webinar qualifies for one credit, identified under Category I of the Recertification Schedule for SBE Certifications.

[More >](#)

FCC Announces Oct. 11-12, 2018 Annual Tower Training Workshop

The FCC Wireless Telecommunications Bureau will host its annual workshop on the [environmental compliance and historic preservation review process](#) required for the construction of wireless communications facilities. The training will include information relevant to the construction of all new communications towers and the co-location of communications equipment on existing towers and other structures.

This workshop will take place on Thursday, Oct. 11, 2018, from 9:00 a.m. to 5:00 p.m. EDT, and Friday,

Oct. 12, 2018, from 9:00 a.m. to 1:00 p.m. EDT in the Commission Meeting Room at FCC Headquarters; 445 12th Street, SW; Washington, DC. The workshop will also be webcast.

The workshop is open to the public. You may attend in person or through the webcast; preregistration is encouraged for both. Pre-register by submitting your name and affiliation in an email to [Maira Delao](#) no later than Oct. 8, 2018.

[More >](#)

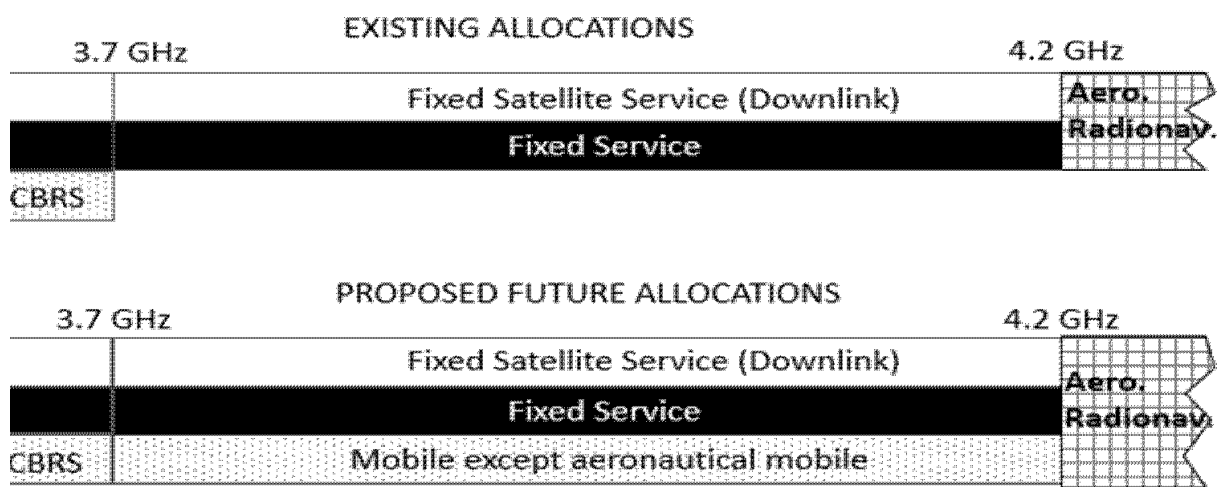
FCC issues NPRM for sharing of C band satellite band. *Some Highlights...*

Federal Communications Commission (Commission or FCC) adopts a Notice of Proposed Rulemaking <https://www.gpo.gov> (NPRM) to pursue the joint goals of making 3.7–4.2 GHz band spectrum available for new wireless uses while balancing desired speed to the market, efficiency of use, and effectively accommodating incumbent Fixed Satellite Service (FSS) and Fixed Service (FS) operations in the band.-

-- America's appetite for wireless broadband service is surging. And while mobile traffic is surging in sections of the United States, many communities still lack access to meaningful broadband connectivity. More intensive use of spectrum can allow wireless operators to fill in gaps in the current broadband landscape. Additional spectrum must be identified, however, if the Commission is to seize the 5G future and meet the connectivity needs of all Americans-

---A reexamination of the full-band, full-arc coordination policy is appropriate in light of the Commission's goal to maximize spectrum efficiency and use in the 3.7–4.2 GHz band including more intensive terrestrial use of the band. Accordingly, the Commission proposes that for purposes of interference protection, earth station operators will be entitled to protection only for those frequencies, azimuths, and elevation angles and other parameters reported as in regular use (i.e., at least daily)

Figure 1: 3.7-4.2 GHz Band Existing and Proposed Future Allocations and Use



FCC issues a NRPM that would reimburse LPTV and FM station for repack costs

We tentatively conclude that LPTV and TV translator stations (collectively referred to herein as LPTV/translator stations) are eligible for reimbursement if (1) they filed an application during the

Commission's Special Displacement Window and obtained a construction permit, and (2) were licensed and transmitting for at least 9 of the 12 months prior to April 13, 2017, as required by the REA.

- We also tentatively conclude that we will reimburse LPTV/translator stations for their reasonable costs to construct the facilities authorized by the grant of the station's Special Displacement Window application, but will require stations to reuse existing equipment and take other measures to mitigate costs where possible.
- With respect to FM broadcast stations, we tentatively conclude that both full power FM stations and FM translators that were licensed and transmitting on April 13, 2017,

CBNE qualifies as host certification for SBE Specialists

The certification committee recently approved the Certified Broadcast Networking Engineer as an applicable host certification for the SBE Specialist certifications.

Specialist certifications were created to establish a benchmark of individual strengths. Currently SBE offers, 8-VSB, AM Directional and Digital Radio Broadcast Specialist. The upcoming ATSC 3.0 certification will also be a Specialist.

If you are interested in any of the above mentioned certifications, you must first hold a 5, 10 or 20-year certification. Then you may apply to take a Specialist certification.

Learn more about SBE Certifications [here](#).

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

ATSC 3.0/Next Gen TV Series Continues October 17

The ATSC 3.0/Next Gen TV Series continues on **October 17** with **Module 2: Overview of the Physical Layer** presented by Luke Fay, Sr. Manager Technical Standards at Sony Electronics. This presentation will cover the scope of the physical standards, the architecture of physical layer, its functional descriptions and the mandatory modes of operation, followed by a few optional technologies and a summary.

[Click here to register.](#)

[Click here](#) for more information on this series.

Look for future announcements for Modules in this series.

Support the Companies That Support Chapter 80!

SBE Sustaining Members would like your business! Please consider them first when making purchasing decisions.

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