



The Society of Broadcast Engineers

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

December 2016

Like us on FaceBook -[facebook.com/sbe80](https://www.facebook.com/sbe80)
Our website sbe80.org
Twitter: @sbechapter80



Our next SBE Chapter 80 meeting will be the annual evening Christmas meeting on December 20th. Our speaker will be Don Hutchison. who will present his second book "Hunters, Loggers & Bootleggers". *From the web site:*

It started in 1885 when an adventurous young farmer from New London, Wisconsin, trekked north by rail to become a lumberjack. A love of the woods and waters near Florence, Wisconsin, would become a family tradition that continues to this day.

More than just the places have been the people who are memorable—the relationships of caring, sharing and love that have developed between family members, neighbors and friends from all walks of life.

And the stories—from the logging and hunting camps near Florence to the tales of farmers and bootleggers who hailed from New London—have been passed down from generation to generation. Many of the stories were passed on by my dad, Alton E. Hutchison, to whom this book is dedicated. He was the second generation lumberjack and hunter and leader of "Hutch's Gang." And, as he would say at the conclusion of each story... "It's the truth, by God!"

-Tom Hutchison

To get the book:

<http://www.hvsproductions.com/links/documents/HuntersLoggersBootleggersorderform2.pdf>

Chairman's Corner

Seasons' Greetings fellow Chapter 80 members,

By the time you receive this month's newsletter, it seems Winter has settled on our area. Here's hoping that all your outside & tower work has been completed! I'll be pleased to toast to that at our annual evening holiday party and meeting at the Out o' Town Club in Kaukauna, on Tuesday, December 20, with a social hour at 6:00 PM and dinner at 7:00 PM. Spouses and significant others are most welcome, and help to give this event a festive atmosphere not found at our regular noon meetings. Our program this year features Tom Hutchinson, former General Manager of WLUK TV. Tom spoke to our chapter back in 2010 and has since written a book about life in Wisconsin, *Hunters, Loggers & Bootleggers*. Please plan to attend this always-enjoyable evening!

Chapter 80 Election of Officers ballots are being emailed to our members and may be returned to our Secretary, Bill Moede, electronically to bmoedereplay@gmail.com or brought in person to the December 20 meeting. All ballots will be tallied at the meeting; ballots received after the meeting will not be counted. Thank you for participating in our Chapter 80 election.

A big "thank you" also to our appointed Chapter 80 Chairs who have served us this past year: Dave Driessen, Mark Friedman, Bill Hubbard, Steve Konopka, Tim Laes, Stu Muck, John Pfankuch, Jim Sams,

Mike Steele, and Bill Tessman.

SBE has a new Facebook page called "SBE Chapters," designed to highlight activities of individual chapters. Please check it out!

SBE is currently having a 20% off sale on archived webinars through January 2, 2017; go to <http://www.sbe.org/sections/WebinarsbySBE.php> for details. The 20% discount will be factored at checkout.

The SBE Mentor program has been active for two months. If you are willing to serve as a mentor or are interested in becoming a mentee, please contact Chriss Scherer, SBE Member Communications Director at cscherer@sbe.org and let him know.

Thank you all for your friendship and participation in Chapter 80 this past year. I wish you a meaningful holiday season and prosperous new year!

Mark Hoenecke

Upcoming Chapter 80 Programs

December Annual Christmas party

SBE Gift Certificates Available

Looking for a gift idea for a broadcast engineer, or maybe want to provide your significant other with a gift idea for yourself? SBE gift certificates are available in the denomination of your choice, redeemable at the [SBE Store](#) (SBE logo items) and the [SBE Book Store](#). Call Carol Waite at the SBE National Office at 317-846-9000, Monday-Friday between 8:30 a.m. and 4:30 p.m. ET to order yours. Certificates will be emailed to you.

CHAPTER 80 ELECTED AND APPOINTED OFFICERS

| | | | | |
|---------------------------|---------------|-------------------------|--------------|--|
| Chairman | Mark Hoenecke | WPT | 715-845-1319 | Mark.Hoenecke@ecb.org |
| Vice Chairman | Stu Muck | Muck Broadcast Services | 920-960-0045 | mbsfdl@yahoo.com |
| Past Chairman | Steve Konopka | WPNE TV/FM | 920-336-3541 | skonopka@ecb.org |
| Treasurer | Steve Brown | WHBY WAPL WKSZ WZOR | 920-733-6639 | sbrown@wcinet.com |
| Secretary | Bill Moede | | | bmoedereplay@gmail.com |
| 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 | taes@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 | 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 | WPNE TV/FM | 920-336-3541 | skonopka@ecb.org |
| Board of Dirs/SBE Liaison | Keith Kintner | UWO | 920-424-7357 | kintner@uwosh.edu |



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.

Below is the upcoming certification exam schedule

Exam Dates Location Application Deadline

| | | |
|---------------------|--------------------|--------------------|
| February 3-13, 2017 | Local Chapters | December 31, 2016 |
| April 25, 2017 | NAB Show Las Vegas | March 17, 2017 |
| June 2-12, 2017 | Local Chapters | April 21, 2017 |
| August 4-14, 2017 | Local Chapters | June 5, 2017 |
| November 3-13, 2017 | Local Chapters | September 25, 2017 |

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

Certification Exam Application Deadline is Dec. 31



Have you been thinking about upgrading your certification level? Or, maybe work towards your first SBE certification? The next opportunity to take an SBE Certification exam at your local chapter is Feb. 3-13, 2017. The application deadline is Dec. 31, 2016.

[Applications for all levels of SBE certification](#) are available at the

SBE website.

After your application to take an exam has been approved, the SBE national office will arrange for your local chapter SBE certification chair, or his or her qualified designee, to proctor your exam. If you don't live near an active SBE chapter, the national office will work with you to arrange for a proctor in your area. For specific information about the [SBE certifications available](#), see the SBE website, your local certification chair or contact [Megan Clappe](#) at the SBE National office at 317-846-9000.

SBE INTRODUCES

RF101: Broadcast Terrestrial Transmission Systems Course

[RF101: Broadcast Terrestrial Transmission Systems](#) course is an introductory survey of the RF fundamentals needed to successfully monitor a broadcast facility. The course is targeted to those with minimal or no background in RF and/or are relatively new to the field. It will also serve as a refresher for more seasoned engineers. Many come to the field of Broadcasting from varied backgrounds such as IT, electronic technicians or military vets, and find themselves immersed in the complexity of a broadcast facility needing to understand and work with the RF end of the system. This multi-module course will present an overview of RF needed to understand the basics and make informed decisions. RF101 modules will be presented in eight 1-1½ hour webinars, with the first, "Introduction to Radio Frequency (RF)," being presented on January 26, 2017 at 2 pm ET.

RF101: Broadcast Terrestrial Transmission Systems Course Modules

1. Introduction to Radio Frequency (RF)
2. Transmission Lines
3. Towers, Antennas, and Transmission Systems
4. Antenna Gain - Feed-line Loss

5. Modulation Fundamentals
6. AM, FM, TV RF Propagation
7. RF Transmitter Measurements
8. FCC Regulations

Instructing and the creator of the RF101: Terrestrial Transmission Systems course is Dennis Baldrige, CPBE, 8-VSB, AMD, DRB, CBNT, a veteran of the broadcast engineering field for more than 30 years. Baldrige is a Senior member of the SBE, holds an FCC Lifetime General License (formerly a First Class FCC License) and Amateur Radio Extra Class License (K0DB). He also holds a M.A.E. and teaches science courses for Upper Iowa University. As owner of Baldrige Communications, LLC, he works as a contract engineer and has also authored articles for Radio Guide. Baldrige serves as an inspector for the FCC Alternate Inspection Program of the Wisconsin Broadcasters Association.



Upon completion of the entire course, attendees will be able to 1) Understand the basic characteristics of RF and electromagnetic radiation; 2) Describe different types of transmission lines, antennas, and their characteristics; 3) Understand the fundamentals of RF propagation; 4) Understand modulation and different modern modulation methods; 5) Describe various components used in RF communications systems; 6) Explain the basic characteristics of RF transceiver systems; 7) Define common terms used to characterize RF systems; 8) Understand how to perform a range of basic RF measurements; 9) FCC regulations pertinent to maintaining a broadcast facility.

Module 1 of RF 101: Broadcast Terrestrial Transmission Systems is Jan. 26

This first webinar, Introduction to Radio Frequency (RF), will include the following topics: Definition of RF and Electromagnetic radiation and spectrum, Electric and magnetic fields, The Inverse Square Law and Attenuation of EM waves, Frequency bands and RF wave characteristics, Units of power: dB and dBm, History of RF, and Safety issues introduction: Exposure and limits.

Registration for each module will be done separately. To [register for Module 1](#), visit the Education/Webinars page at the SBE website.

The completion of this webinar from Webinars by SBE qualifies for 1 credit, identified under Category I of the Re-certification Schedule for SBE Certifications.

If you have questions regarding this webinar, contact John Poray via [email](#) or by phone at 317-846-9000.



Holiday Sale on SBE Webinars is Now On

SBE members will be able to access most SBE webinars for 20% off the regular registration price through January 2. For example, the member cost for many of the webinars is normally \$55. During the sale, they are just \$44. Webinars that were originally presented free to members, are still free! The on-demand webinars are archived versions of live webinars presented over the past several years. Topics vary and include programs on radio and television engineering, IT and IP technology for broadcasters, RF safety and others. Below are just some of the webinars available.



[Importance of Proper Grounding](#)
[IP Network Security Part 1](#)
[Transmitter Maintenance Checklist](#)
[AM Directional Antenna Modeling](#)
[IP Networking, part 1 - the OSI Model and Layers](#)
[Advanced IP Networking-The Network of Networks \(Part 1\)](#)
[Update on ATSC 3.0: What it Will Mean to Broadcasters](#)
[Managing of your Contract Engineer Business](#)
[Recent Updates to the AC 70/7460-1L for Tower Lighting](#)
[Streaming Radio: a Tutorial for Broadcasters](#)
[2016 RF Safety Course](#)
[TV White Space Devices & Wireless Microphones](#)
[IPv6 for Broadcasters](#)
[AM Ground Systems](#)

To access the [SBE webinars](#), go to the SBE website, click on the Education tab, SBE Webinars and then the SBE On-demand Webinars page. Click on the desired webinar and register. The discounted price will appear in the registration process. Non-members continue to pay the full non-member rate. Want to be a member? [Click here for information](#) about membership or, go to the [SBE member application](#). You can access the webinars 24/7/366.

[More >](#)

Quick Cuts

* [New SBE Facebook Group](#)

It's called SBE Chapters, and we encourage you to post photos of your chapter events.



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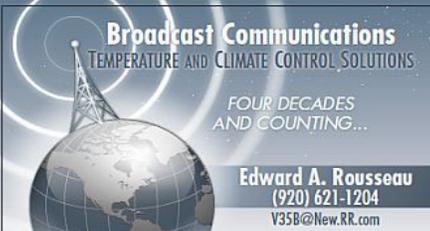
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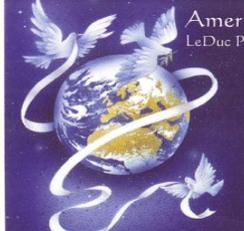


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