The Society of Broadcast Engineers



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

March 2017

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Our website <u>sbe80.org</u>

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Our next SBE Chapter 80 meeting will be at the Out O Town Club at noon March 21th.

Greetings fellow Chapter 80 members,

At this time we seem to be stuck between spring and winter weather, just when we get accustomed to warmer days, cold weather comes back with a vengeance. Last month we met at the Out o' Town Club without a formal program. Nine members present enjoyed a good meal and plenty of discussion ranging from things at work to industry issues. Our program chairs have been working on lining up a March speaker, but as of this writing it is not finalized. Please do plan to attend our March meeting either way, as there is always something to be gained and the roads should be no obstacle for safe travel.

SBE's latest Webinar, "Introduction to IP Networking Standards & the Physical Layer" will begin the first of five parts at 1:00 PM on Tuesday, March 28th. SBE members can save 20% by registering for all five sessions up front.

Our annual SBE membership drive has begun. Recruit a new member earns you a \$5 reduction on your 2018 renewal fee and automatic entry to win prizes.

SBE members can get a free NAB Show exhibit pass by using the SBE partner code EP04 (E P zero four) when registering.

Please do plan to attend our next meeting at the Out o' Town Club on Tuesday, March 21St at noon. Who knows, there might be some corned beef and cabbage left!

Regards,

Mark Hoenecke

CHAPTER 80 ELECTED AND APPOINTED OFFICERS

Chairman Vice Chairman	Mark Hoenecke Stu Muck	WPT Muck Broadcast Services	715-845-1319 Mark.Hoenecke@ecb.org 920-960-0045 mbsfdl@yahoo.com
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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 <u>MBSFDL@yahoo.com</u>
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
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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	Mike Hendrickson		mhendrickson@sbe.org

Fundamentals of IP Networking Starts March 28

Wayne Pecena, CPBE, 8-VSB, AMD, DRB, CBNE returns with an updated and expanded Fundamentals of IP Networking webinar series, beginning with Part 1 on March 28 at 2 p.m. ET.

The five-part series serves as an introduction to an intermediate level of exposure of the topic IP networking. The series allows attendance at an individual presentation of interest or the entire five-part series as a "crash" course in IP Networking.

Part 1- Introduction to IP Networking Standards & the Physical Layer 90-minute session serves as an introduction for the parts that follow and will focus on understanding the IEEE, IETF, and OSI standards found today in an Ethernet-based IP network. Physical layer exposure will focus on application and integration of the various Ethernet standards.

Part 1 - Intro to IP Networking Standards & the Physical Layer - Tuesday, March 28

Part 2 - Ethernet Switching Fundamentals and Implementation - May 9

Part 3 - IP Routing and Internetworking Fundamentals - June 20

Part 4 - Building a Segmented IP Network Focused On Performance & Security - July 25

Part 5 - Cybersecurity Fundamentals & Securing the Network - August 29

All parts will be from 2:00 p.m. - 3:30 p.m. ET

Click here to register for Part 1.

<u>Click here to register</u> for the complete five-part series \$228 for members and \$348 for non members. This special offer reflects a 20 percent discount on the individual session pricing. These prices only apply to complete five-part package purchases.

Spectrum Repacking Searchable Clearinghouse

In an effort to facilitate the exchange of information between broadcasters as to the scope of the repack, NAB asked television stations, whether repacked or not, to provide information regarding their pre- and post-auction channels. This information was provided directly by stations, and NAB has no way of verifying its accuracy. Additionally, because not all stations have submitted this information, this data is not complete. We will continue to update this information as more stations provide data until the FCC releases a public notice setting forth official channel assignments for repacked stations. (nab.org)

https://www.nab.org/repacking/clearinghouse.asp

Five channels are in the list for the Green Bay market, however there are two stations not listed with an RF channel above 37 meaning at least 7 stations in this area (including Sturgeon Bay) of 8 stations that are being moved as far as we know. Most listed stations are in Phase 3 deadline but one is in phase 9. The public notice will give more exact information as well as the dates stations must shut down their old channel. Stations will also fine out if they are a 'linked' station where they will have to coordinate with other stations on their testing and start up dates. I have also looked at some nearby markets. I am surprised at the number of stations below RF channel 37 that are being moved to a new channel (dd)

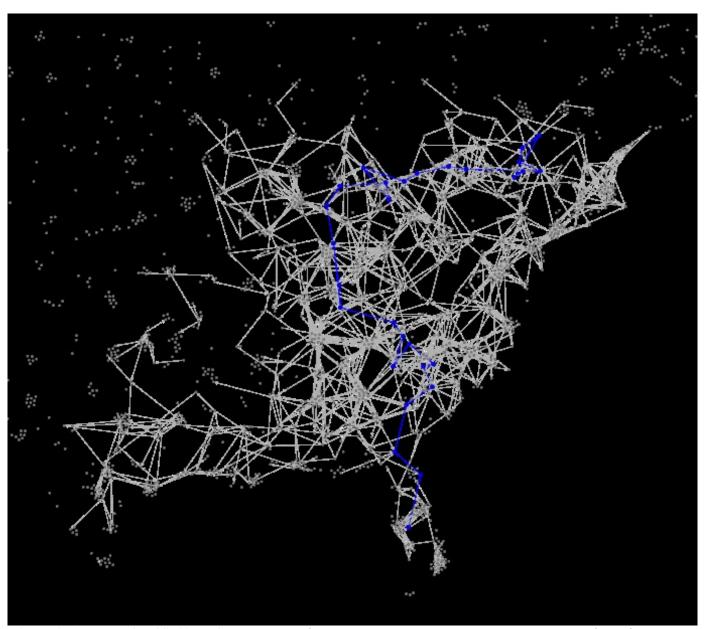


Figure 1: An example of linking. Stations are nodes in gray, arcs connecting stations represent a dependency. Nodes in blue are stations involved in a 29-station daisy chain. (fcc)

Look ahead at upcoming opportunities to take a <u>certification exam</u> 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, <u>Megan Clappe</u>.

RF101: Broadcast Terrestrial Transmission Systems Course Continues with Module 3 - Towers, Antennas, and Transmission Systems

The eight-part SBE RF101: Broadcast Terrestrial Transmission Systems is well underway!

Mark your calendar for Thursday, April 13 at 2 p.m. for Module 3 - Towers, Antennas, and Transmission Systems. Module 3 covers these topics: Transmission systems block diagram; common RF system components; antennas and terms; isotropic radiator; dipole and polarization; wavelength versus antenna size; variations on the dipole; and antenna gain introduction.

It's not too late to take advantage of the entire series! Modules 1 and 2 are now available on demand. All modules will be available on demand after the LIVE presentation. The cost is \$57 for members or SBE and \$87 for non-members.

This course is targeted to those with minimal or no background in RF and/or are relatively new to the field. This eight-part series serves as a refresher for more seasoned engineers.

Instructing the SBE RF101 course is Dennis Baldridge, CPBE, 8-VSB, AMD, DRB, CBNT, a veteran of the broadcast engineering field for more than 30 years. Baldridge 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 (KoDB). He also holds a M.A.E. and teaches science courses for Upper Iowa University. As owner of Baldridge Communications, LLC, he works as a contract engineer and has also authored articles for Radio Guide. Baldridge serves as an inspector for the FCC Alternate Inspection Program of the Wisconsin Broadcasters Association.



Mark your calendar and plan on participating in the complete eight-part series of the SBE RF101 Webinar Series Course Modules:

- 1. Introduction to Radio Frequency (RF) On Demand
- 2. Transmission Lines On Demand
- 3. Towers, Antennas, and Transmission Systems April 13, 2017, 2 p.m.
- 4. Antenna Gain Feed-line Loss May 18, 2017, 2 p.m.
- 5. Modulation Fundamentals June 15, 2017, 2 p.m.
- 6. AM, FM, TV RF Propagation July 20, 2017, 2 p.m.
- 7. RF Transmitter Measurements August 24, 2017, 2 p.m.

Click here to register for Module 3, Towers, Antennas and Transmission Systems, April 13.

If you have questions regarding this webinar, contact Education Director <u>Cathy Orosz</u> or by phone at 317-846-9000.

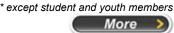
SBE Membership Drive Begins Today

The Society of Broadcast Engineers, the Association for Broadcast and Multimedia Technology Professionals, provides the path to success in your career. Help a colleague develop his or her career path by recruiting a new member during the SBE 2017 Membership Drive. For each member you recruit between today, March 1 and May 31, your name will be entered into the prize drawing, and you'll receive \$5 (up to \$25) off your 2018 dues renewal* for each new member.



One lucky recruiter will win the Grand Prize, a trip to the 2017 SBE National Meeting and Rocky Mountain Audio Video Expo (AVX) in Denver, CO, Oct. 25-26. The prize includes airfare for one from within the Continental US and two nights stay at the Crowne Plaza Denver International Airport Hotel. Other prizes include technical equipment, logo wear and gift certificates. For more details and official rules, visit the SBE website.

SBE Sustaining Members, there is still time for you to participate and support the member recruitment effort by donating a prize. Contact Chriss Scherer to contribute your prize.



SBE Membership Meeting, Reception Set for NAB Show

For those planning to attend the 2017 NAB Show in Las Vegas, be sure to include the SBE Membership Meeting and the reception that follows in your show schedule. The meeting will begin at 5:15 in Room N256 of the Las Vegas Convention Center. SBE President, Jerry Massey will preside over the meeting that

will include recognition of chapter certification chairs who have reached incremental service milestones, as well as news and information about SBE programs and regulatory advocacy efforts conducted on behalf of SBE members.

The first 125 people in attendance will receive a special SBE logo memento and everyone in attendance will be eligible to win prizes, including a Blackmagic Design ATEM Television Studio HD switcher, a \$250 gift card from Fry's Electronics, three \$25 dinner gift cards and two SBE logo hats, all courtesy of membership meeting sponsor Blackmagic Design.

Immediately following the membership meeting at 6:15 p.m., will be the annual SBE Reception. Free beverages and appetizers will be provided, compliments of our reception sponsors

The reception location will be near the SBE Membership Meeting room. The reception is open to SBE members, their guests and friends of the SBE. Watch for future editions of SBE-news and *The Signal* for updates.

Note! The SBE Membership Meeting, reception and exhibit booth have moved to the second floor of the North Hall of the Las Vegas Convention Center this year, following the move of the NAB Broadcast Engineering and Information Technology Conference to the North Hall second floor meeting rooms.

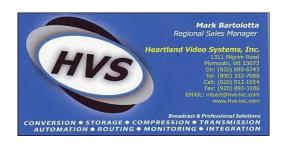
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SBE Sustaining Members would like your business! Please consider them first when making purchasing decisions.

















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