



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

**June 2017**

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Our next SBE Chapter 80 meeting will be at **WEDNESDAY, JUNE 14 – WBA SUMMER CONFERENCE ENGINEERING DAY** at the Blue Harbor resort in Sheboygan WI

### **2017 Summer Engineering Workshop**

the 2017 Summer Engineering Workshop at the WBA Convention in Sheboygan is this week. The event is Wednesday June 14<sup>th</sup> at the Blue Harbor resort on the lake shore.

While on line registration is now closed, onsite registration will be open that day. The cost is \$50 for the day which includes all sessions, meals, and evening events.

### **Chapter 80 Site Picnic**

The warm weather is here so it is time once again to plan the upcoming SBE Chapter 80 annual summer picnic. WLUK, Channel 11 in Green Bay was kind enough to offer us the use of their Packer Party House for a second year in a row. Everyone liked that site last year and it certainly was a good fit for our group. The address is 1249 Shadow Lane which parallels, but is one block north of, Lombardi Ave in Green Bay. Make sure to bring a guest as everyone had fun last year at this event.

The picnic is scheduled for the third Tuesday of July which is the 18<sup>th</sup>. It starts at noon and goes until we are kicked out by security. Of course they will have to wake us up from our naps first.

As in previous years the chapter provides the hamburgers, brats, soda, water and other necessities for which we ask a \$5 donation on the day of the picnic. The rest of the food is a potluck arrangement where members volunteer to bring side dishes like baked beans, potato salad, a dessert or anything else you can think of that goes well at a picnic.

Let me know if you can make it so we know how much food to have there. Also let me know if you are able to bring a side dish. We have had some favorites every year that really add to the party.

Let me know if you have any questions about this. It ought to be a great time.

John Pfankuch

## CHAPTER 80 ELECTED AND APPOINTED OFFICERS

Chairman	Mark Hoenecke	WPT	715-845-1319	Mark.Hoenecke@ecb.org
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Board of Dirs/SBE Liaison	Mike Hendrickson			<a href="mailto:mhendrickson@sbe.org">mhendrickson@sbe.org</a>

### Modulation Fundamentals is Next RF101 Series Webinar

Modulation Fundamentals, which is Module 5 of the eight-part SBE RF 101 series, will be held Thursday, June 15, from 2:00 to 3:15 p.m. EDT. This live webinar will cover the basics of the various modulation methods used in broadcasting. Discussion begins with an overview of the communications model and progresses to modulation definition, classes of amplifiers and efficiency; analog modulation principles of AM & FM; digital modulation principles; IBOC Radio; Digital TV; bit error rate function; forward error correction; constellation and eye diagrams; and signal and noise. Join us for **RF101: Broadcast Terrestrial Transmission Systems; Module 5 - Modulation Fundamentals**, taught by Dennis Baldrige, CPBE, 8-VSB, AMD, DRB, CBNT.

Modules six through eight of the SBE RF101 series will be presented in July, August and September. Archived versions of modules one through four are available at the SBE website.

- \* Introduction to Radio Frequency (RF) , Available on Demand
- \* Transmission Lines, Available on Demand
- \* Towers, Antennas, and Transmission Systems, Available on Demand
- \* Antenna Gain - Feed-line Loss, Available on Demand
- \* Modulation Fundamentals, to be presented June 15, 2017
- \* AM, FM, TV RF Propagation, to be presented July 20, 2017
- \* RF Transmitter Measurements, to be presented August 24, 2017
- \* FCC Regulations, to presented September 21, 2017



Baldrige is the creator and presenter of the SBE RF101: Terrestrial Transmission Systems course. A Senior member of the SBE, he is a 30-plus year veteran of the broadcast engineering field and is owner of contract engineering firm, Baldrige Communications, LLC. Baldrige also serves as an inspector for the FCC Alternate Inspection Program of the Wisconsin Broadcasters Association, holds a M.A.E. and teaches science courses for Upper Iowa University.

[Register Now](#) for Module 5 online at the SBE website. Cost for SBE members is \$57. The non-member cost is \$87.

[More >](#)

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](http://sbe.org/certification).

Below is the upcoming certification exam schedule

**Exam Dates Location Application Deadline**

<b>August 4-14, 2017</b>	<b>Local Chapters</b>	<b>June 5, 2017</b>
<b>November 3-13, 2017</b>	<b>Local Chapters</b>	<b>September 25, 2017</b>

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

## IP Routing and Internet Networking Fundamentals is Next Up in The Fundamentals of IP Networking Webinar Series

Part 3 of The Fundamentals of IP Networking Series will be held live on June 20 from 2 p.m. to 3:30 p.m. ET. Wayne Pecena, CPBE, 8-VSB, AMD, DRB, CBNE presents this five-part series, oriented as an introduction to an intermediate level exposure to IP networking.

Part 3 focuses on understanding IP routing and applying concepts in practical internet networking by exploring the foundation and protocols of Layer 3 of the OSI model. Specific topics to be covered include understanding the role of routed protocols, IP addressing (subnetting), IP routing protocol section, and the role of layer three protocols such as ICMP and ARP.

The Fundamentals of IP Networking series focuses on understanding underlying technology, standards and protocols utilized in a modern, Ethernet-based IP network in the broadcast technical facility. Parts one and two are available on-line at the SBE website. Parts four and five will be presented in July and August.

- \* Part 1: Introduction to IP Networking Standards & Physical Layer - On Demand
- \* Part 2: Ethernet Switching Fundamentals and Implementation - On Demand
- \* Part 3: IP Routing and Internet Networking Fundamentals, June 20, 2017
- \* Part 4: Building a Segmented IP Network Focused Upon Performance & Security, July 25, 2017
- \* Part 5: Cybersecurity Fundamentals & Securing the Network, August 29, 2017

Pecena is the assistant director for educational broadcast services in the Office of Information Technology at Texas A&M University. In this position, he serves as the director of engineering of TTVN: The Enterprise Videoconference and Data Network serving the Texas A&M University System and Public Broadcast stations KAMU-TV and KAMU-FM serving the Brazos Valley area. He has more than 35 years of broadcast telecommunications experience and holds BS and MS degrees from Texas A&M University.



[Register Now](#) for Module 3 at the SBE website. SBE member price is \$57. The price for non-members is \$87.

[Click here to register 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.

[More >](#)

## **WBA Media Technology Institute Lite/Engineering Day**

Date: June 13, 2017

Time: 10:00 AM - 5:30 PM

Location: Blue Harbor Resort, Sheboygan, WI

The WBA Summer Conference in Sheboygan will feature a special one-day version of the Media Technology Institute designed to assist engineers in maintaining transmission systems, station compliance with the FCC, and reviewing critical skills and relationships.

### **Instructors**



Terry Baun



Bill Hubbard

## **Agenda**

### **TUESDAY, JUNE 13 Technology Institute Lite**

10:00 AM: Welcome with Michelle Vetterkind, WBA President & CEO

Welcome and Discussion of Schedule with Terry Baun

10:15 AM: What can you expect to do as a Broadcast/Media Technologist?

11:00 AM: RF Fundamentals for Radio/TV

Noon: Lunch

1 PM: Basic FCC Compliance

2 PM: People and Relationships – Why does this matter?

3 PM Break

3:15 PM Scenario exercise/group activity – Putting it all together

5 PM Reception

### **WEDNESDAY, JUNE 14 – JOIN WBA SUMMER CONFERENCE ENGINEERING DAY**

9 AM: The TV Repack: What Will Wisconsin Look Like?

9:45 AM: A LPFM Case Study

10:30 AM: Break

10:45 AM: AES67 and Livewire+ Tech Refresher and Compliance Update

11:30 AM: HVAC, Clear the Air

12:15 PM: Engineer's Lunch

1:30 PM: A Refresher on Cellular Technology

2:15 PM: Ask a Manager (Panel Discussion)

3:15 PM: Break

3:30 PM: Roundtable discussions on repack, Raspberry Pi and other fillings, social media audience, and engineering liability

5 PM: WBA Exhibits, Reception and Dinner


**Underwriting for the Media Technology Institute is provided by the Wisconsin Broadcasters Association and Midwest Communications.**

**\*PLEASE NOTE THAT SPACE IS LIMITED AND IS FIRST COME – FIRST SERVED\***

[Please click here for more information on the WBA Summer Conference.](#)

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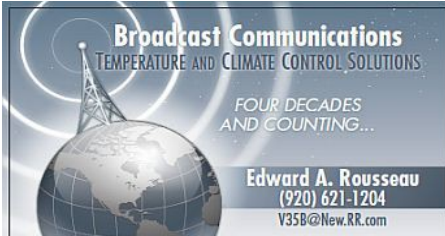




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