



# The Society of Broadcast Engineers

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

**September 2011**

## Chairman's Corner

Welcome to our eNewsletter!

Our next meeting of Chapter 80 will be on Tuesday, September 20th, 2011 at noon at the Out O' Town Club in Kaukauna. The September program, at the Out-O-Town Club, will be an "Instant Replay" of the NFL Frequency Coordination Program, which was part of the NFL Back to Football event at Lambeau field on September 8th 2011. We'll share the frequency coordination process from start to finish and what it takes to achieve a successful radio frequency coordinated event. Joe Kamenick, John Pfankuch, Bill Hubbard & yours truly, will host the program. Please mark your calendars now and plan to attend.

Our August meeting of Chapter 80 was a trip to the past centered on a DVD showing the history of an old GE facility near Syracuse called Electronics Park. It was a large manufacturing site where GE made a lot of consumer electronics, FM transmitters and some other types of equipment between the 40s and the 80s. It was an interesting 35-minute video. Gary Mach brought equipment catalogs from those same times to help spur memories. Thanks Gary for the Fantastic literature.



Please be prepared for a brief discussion on SBE Ch.80 Annual Elections, we'll be looking for nominations at the September 20th meeting and hold the election at the November meeting.

The Newsletter will also be posted on our website <http://www.sbe80.org> , and archive copies, as well as other Chapter 80 and SBE information are available as well.

Purchase Kwik Trip Gas Cards to benefit SBE Chapter 80!. See page 4

### Upcoming events:

Tuesday, October 11 thru Thursday, October 13, 2011 – SBE/WBA Broadcasters Clinic, Madison Marriot West Middleton, Wi. Details and registration: [www.wi-broadcasters.org](http://www.wi-broadcasters.org)

Tuesday, November 15, 2011 – SBE Chapter 80 – TBA

Tuesday, December 20, 2011 – SBE Chapter 80 Holiday party

I look forward to seeing you on Tuesday, September 20th, 2011 at our Chapter 80 meeting at the Out O' Town Club in Kaukauna.

Regards,

Timothy J Laes

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*Still need to renew your SBE membership? Renew now using our easy [automated SBE renewal system](#).*



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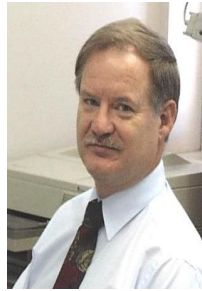
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**SBE Announces National Board of Directors Election Results (August 26, 2011)**

The SBE announces the results of the 2011 election for the national board of directors. Ralph Hogan, CPBE, DRB, CBNT was elected as the society's president. Hogan is the director of engineering for KJZZ, KBAQ, SunSounds of Arizona, in Tempe, Ariz.



Ralph Hogan, CPBE, DRB, CBNT is the president-elect of the SBE. The new board members will take office on Sept. 28 at the SBE National Meeting.

Others serving one-year terms as officers, which begin on Sept. 28 are:

- ▲ Vice President - Joe Snelson, CPBE, 8-VSB, vice president of engineering at Meredith Corporation in Las Vegas, Nev.
- ▲ Secretary - James Leifer, CPBE, director of engineering & IT at Clear Channel South Florida in Miami, Fla.
- ▲ Treasurer - Jerry Massey, CPBE, 8-VSB, AMD, DRB, CBNT, corporate regional engineer and DoE at Entercom Communications in Greenville, S.C.

Serving two-year terms on the board of directors, which also begin in Sept. 28 are:

- ▲ Raymond Benedict, CPBE, director of spectrum engineering at CBS in Washington, D.C.
- ▲ Paul J. Burnham, CPBE, field support manager

at Communications e2v Inc. in Poughkeepsie, N.Y.

- ▲ **Mark Heller, CPBE, CTO, president/GM/chief engineer at WTRW Inc./WGBW Radio in Two Rivers, Wis.**
- ▲ Charles "Ched" Keiler, CPBE, 8VSB, CBNT, director of engineering at Reach Communications in Fort Lauderdale, Fla.
- ▲ David Priester, CPBE, director of the Ithaca College technical operations in Ithaca, N.Y.
- ▲ Gary Stigall, CPBE, chief technology officer at TV Magic in San Diego, Calif.

Upon hearing the election results, President-elect Hogan said, "I look forward to serving the Society and continue the excellent efforts the SBE has made in certifying, educating and networking broadcast engineers."

The national board of directors of the SBE is responsible for the development of policy and determines the programs and services the society provides to its more than 5,100 members. Those elected will begin their terms on September 28 during the SBE Membership Meeting. They will join the other six directors who have another year remaining in their terms as well as immediate past president, Vincent Lopez, CEV, CBNT.

The SBE National Meeting will be held in conjunction with the Ohio Broadcast Engineering Conference and the Ohio Association of Broadcasters. The event will take place in the Crowne Plaza Hotel and The Greater Columbus Convention Center in Columbus, Ohio. (Sbe.org)



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**CHAPTER 80 ELECTED AND APPOINTED OFFICERS 2010-2011**

Chairman	Tim Laes	WGEE WIXX WNCY WROE	920-435-3771	tlaes@new.rr.com
Vice 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
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Program Chairman	Bill Hubbard	UW Green Bay	920-465-2510	hubbardw@uwgb.edu
Membership Chairman	Al Kilgore	WRVM	920-842-2839	akilgore@wrvm.org
Sustaining Memberships	Greg Tadyshak	WBAY-TV	920-438-3258	gtadyshak@wbay.com
Frequency Coord. < 1 GHz	Tim Laes	WGEE WIXX WNCY WROE	920-435-3771	tlaes@new.rr.com
Frequency Coord. > 1 GHz	Joe Kamenick	KAMENITECH, 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	UWGB	920-465-2572	samsj@uwgb.edu
Chapter 80 Webmaster	Jim Jensen	Retired	920-850-2633	jim@bjensen.net
EAS Coordinator	Steve Konopka	WPNE TV/FM	920-336-3541	skonopka@ecb.org
Past Chairman	Keith Kintner	UWO	920-424-7357	kintner@uwosh.edu
Board of Dirs/SBE Liaison	Keith Kintner	UWO	920-424-7357	kintner@uwosh.edu

**HEATHKIT IS BACK In The Kit Business!**

In late August, Heathkit will debut their new line of Do-it-Yourself kits for common around-the-house items. The first kit will be a Garage Parking Assistant (GPA). The Garage Parking assistant kit lets you build your own system that



uses ultrasonic sound waves to locate your car as it enters the garage. The system signals to the driver using LED lights mounted on the wall when the car is detected and in the perfect spot for parking.

The GPA-100 kit consists of two primary assemblies - The LED Display in kit form and the pre-assembled ultrasonic range module.

The kit will include everything you need to

*The SBE Chapter 80 Newsletter is published monthly. Members are welcome to contribute articles or ideas. Please have your submissions in by the 4<sup>th</sup> of the month to Dave Driessen or Bill Tessman*

complete the project except a soldering iron and hand tools.

Next on the market will be a Wireless Swimming Pool Monitor kit followed by many more. We will be releasing Garage Parking Assistant kit (GPA-100) in late September and soon after the Wireless Swimming Pool Monitor kit will be available.

Heathkit wants to continue to bring to its customers interesting, unique Heathkit products. Heathkit is interested in learning what types of products kit builders would like to build. Kit builders can submit their suggestions through this website.

<http://www.heathkit.com>

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**Purchase Kwik Trip Gas Cards to benefit SBE Chapter 80!**

We have been looking for an easy and hassle free fund raiser for the Chapter so we can avoid asking you all for cash donations. This one might do the trick.

The Chapter will make available to all members Kwik Trip Gas and Gift cards usable at any Kwik Trip gas station / convenience store. These are located in Green Bay, Appleton, Oshkosh and most communities in Wisconsin where our members live and work. You just buy the card with cash or a check made out to SBE Chapter 80, and use it to fill your vehicle or buy groceries at the local Kwik Trip. The Chapter gets 10% of your purchase as a charitable contribution. Simple as that. You pay \$50 for a card and get \$50 in gas or goods. The Chapter gets a \$5 contribution. With all the gas we all buy, this can add up to real money over the course of the year.

All you need to do is stop at a Kwik Trip instead of your normal stop. You can pay at the pump with these cards and never enter the store if that is your preference.

I will have a number \$50 and \$100 cards available at our next meeting. If you want a special order of different denominations or possibly a larger amount, we can make special arrangements. I will also have a list of all Kwik Trip locations so you can find a location convenient to you.

This is a super easy way to support the Chapter and its activities at no extra cost to you! So please consider buying a few cards and using them. Once you see how easy it is, you may well purchase one or two a month. If a number of our members do this, we can easily fund the annual Don Borchert Fellowship Fund contribution and maybe even our annual picnic or other worthy activities. Please consider trying this! Thank you.

Steve Brown  
Treasurer, Chapter 80

**SBE 2011 EXAM  
DATES LOCATION  
APPLICATION DEADLINE**

If you have any questions, please contact the Certification Director, Megan Clappe or our Chapter 80 certification chairman Jim Sams Help your professional society "Raise the Bar" by recruiting a new member

**2012 SBE Certification Exam Dates**

Each year the SBE Certification Committee establishes four, ten-day exam periods when exams are held locally and proctored by volunteer SBE chapter certification chairmen or their qualified designees. Exams may also be taken at the NAB Show in Las Vegas, held in April each year. Exams may also be scheduled at other times during the year if the established exam periods to meet the needs of interested individuals.

The schedule of exam periods and application deadlines through 2012 include:

Exam Dates	Location	Application Deadline
October 23, 2011	AES Convention, New York, N.Y.	Pre-registration/on-site
November 4-14, 2011	Local Chapters	September 6, 2011
February 3-13, 2012	Local Chapters	December 31, 2011
April 17, 2012	NAB Show, Las Vegas, Nev.	March 23, 2012
June 1-11, 2012	Local Chapters	April 13, 2012
August 3-13, 2012	Local Chapters	June 1, 2012
November 2-12, 2012	Local Chapters	September 14, 2012

Information about the various certifications available from the SBE and registration information is available at the SBE website.

## **Fixed Service Operators In 7 and 13 GHz May Degrade Mobile ENG Reliability**

The FCC released on August 9, 2011 a [Report and Order, Further Notice of Proposed Rulemaking, and Memorandum Opinion and Order regarding WT Docket 10-153](#). This was also an item on the agenda of the FCC open meeting on August 9. The document on the FCC website states, "The steps we take will remove regulatory barriers that today limit the use of spectrum for wireless backhaul and other point-to-point and point-to-multipoint communications. We also make additional spectrum available for wireless backhaul - as much as 650 megahertz - especially in rural areas, where wireless backhaul is the only practical middle mile solution. By enabling more flexible and cost-effective microwave services, ... deployment of fourth-generation (4G) mobile broadband infrastructure across America."

The FCC decision to permit fixed service (FS) operators to occupy the 6875-7125 MHz and 12700-13100 MHz bands currently used for Fixed and Mobile Broadcast Auxiliary Service (BAS) and Cable TV Relay Service (CARS) in rural areas where those bands are not currently licensed to TV mobile pickup stations was no surprise to the SBE. It was a decision that the FCC had already made more than a year ago. The SBE board was well-aware that the FCC prejudged this matter. Even so, in SBE's three written submissions to the FCC in this docket and in an extensive in-person meeting with numerous technical staff members of the FCC last fall, the SBE explained the technical reasons why this was an unworkable proposal for broadcasters. While the decision, as expected, provides difficult challenges for mobile ENG at news or sporting events that occur in areas outside the normal market areas for TV pickup stations, the decision was not as bad as it could have been.

In March 2010, the FCC delivered the National Broadband Plan (NBP) to Congress. Section 5.5 of the NBP included the following recommendation as one of the means of expanding broadband access in the United

States: "Increase the flexibility, capacity and cost-effectiveness of spectrum for point-to-point wireless backhaul services. ... The FCC should revise Parts 74, 78 and 101 of its rules to allow for increased spectrum sharing among compatible point-to-point microwave services." At this point, it was clear that the FCC intended to permit FS stations to occupy Part 74 spectrum.

The FCC initially proposed to simply allow FS operators to share the 7 and 13 GHz bands with broadcasters. The SBE comments explained why this was not workable, and strongly opposed the proposal. Other broadcast industry filers, surprisingly, took the position that such shared operation could work under certain circumstances.

In response to the comments filed, the FCC in a later Public Notice soliciting comment, proposed only to permit FS stations to operate in the 7 and 13 GHz bands in rural areas outside the service areas of all TV pickup licenses. In response, the SBE noted that broadcasters often operate TV pickups pursuant to Section 74.24 of the rules outside the licensed service areas and that news and sporting events happen where they happen and there must not be limitations on the ability of broadcasters to do mobile ENG. FCC has now decided to prohibit FS paths from crossing the service areas of TV pickup authorizations. It also requires FS to coordinate with TV pickup licensees pursuant to the formal Part 101 coordination procedures. This is unworkable because of the real-time need for TV pickups to be used ubiquitously and at unpredictable times. FCC claims that it has addressed this by excluding FS on a nationwide basis from two 25-megahertz channels each in the 7 GHz band (6975-7025 MHz) and the 13 GHz band (13150-13200 MHz). This will supposedly accommodate TV pickup stations covering events that occur outside the license areas of local BAS and CARS operations. That is an insufficient amount of spectrum to accommodate all BAS, CARS and LTTS licensees at a given event, and merely serves to concentrate FS stations in segments of both bands outside those 50 megahertz segments.

## **SBE RF Safety Course Announced For Oct. 18**

The SBE comments reflected the technical reality of the use of these allocations. The FCC claims that it has protected incumbent BAS users. It has not done that. Yet, the SBE advocacy effort did have some positive effect on the outcome of this proceeding. The FCC states, "The record indicates that it is not feasible to allow FS to share spectrum with mobile and temporary fixed TV pickup operations in areas where mobile and temporary fixed TV pickup operations are licensed." It held that, while BAS fixed and mobile operations share spectrum in the same geographic areas, the sharing that exists today would not be practicable if it were not guided by informal agreements among local market participants. The SBE frequency coordination program thus was acknowledged to be critical to sharing in the BAS allocations at 7 and 13 GHz.

The FCC also concluded that it was not feasible to adopt band segmentation as a means of segregating fixed and mobile operations into designated sub-bands of the 7 and 13 GHz bands, which would have had a much more profound effect on these BAS allocations than the proposal that was adopted.

**The SBE strongly encourages members to ensure that all receive sites, both fixed and TV pickup, appear on station FCC authorizations. Otherwise, stations run the risk of receiving interference with little grounds for a defense to stop it.**

There remain some substantial concerns with this docket. The FCC Further NPRM asks about the use of smaller antennas for use in these bands, and other topics that could seriously degrade the reliability of mobile ENG in the 7 and 13 GHz bands. It is anticipated that the SBE will file further comments in response to the NPRM. (Sbe.org)

The society is pleased to announce that the next SBE RF Safety Course will take place on Tuesday, October 18. The SBE RF Safety Course provides an overview of RF radiation issues and practices for broadcasters, including transmitter sites, ENG and SNG trucks, remote operations, RF hazard protection equipment, biological effects of RF radiation and more.

This training course is unique in comparison to other RF safety courses. The SBE RF Safety Course is taught by Richard Strickland, a renowned expert in the subject area. Because Strickland personally prepares content covered, he is able to fine-tune courses while in progress, so all students comprehend. Students who take the SBE RF Safety Course fully understand and can apply the skills learned to future real-world situations. Visit the [SBE Safety Course page for more information](#).

(Sbe.org)

## **2011 Broadcasters Clinic & Upper Midwest Regional Society of Broadcast Engineers Meeting October 11-13, 2011**

*Madison Marriott West Hotel, Middleton, WI*

### **AGENDA**

#### **TUESDAY, OCTOBER 11**

7:45 AM: Registration & Continental Breakfast  
9:00 AM: Content Delivery to All Consumer Devices, Jeff Littlejohn, Clear Channel Radio  
9:45 AM: A New Approach to Solid-State High-Power FM Amplifiers, Timothy Anderson, Harris Corporation  
10:30 AM: Break  
10:45 AM: FM Directional Antenna Systems; Making the Impossible Possible, Bob Surette, Shively Labs  
11:30 AM: Cooling Technologies for High Power FM Transmitters, Jeff Welton, Nautel  
12:15 PM: Lunch  
1:45 PM: Audio Processing That Sounds Correct All The Time! Cornelius Gould, Telos  
2:30 PM: Creative Use of FM Translators and Boosters, Doug Vernier, V-Soft Communications  
3:30 PM: Break  
3:45 PM: Remotes Are Changing John Bisset, Tieline  
4:30 PM: Exhibits Open/Reception  
7:30 PM: Nuts & Bolts

## WEDNESDAY, OCTOBER 12

7:45 AM: Registration & Continental Breakfast  
8:30 AM: Using Tower Design Codes to Your Advantage, David Davies, Consolidated Engineering Incorporated  
9:15 AM: We're Still Out There, Jim Roop, The FCC Chicago Field Office (Invited)  
10:00 AM: Exclusive Exhibit Time  
11:00 AM: Lunch  
1:30 PM: RF Safety, Jeremy Ruck, D.L. Markley & Associates, Inc.  
2:15 PM: Case Histories in Lightning Protection and Grounding, David Brender, Copper Development Association Inc.  
3:00 PM: Break  
3:15 PM: Are Your Antennas Prepared for the Worst Rich Wood, Resonant Results  
4:00 PM: When a 2000 Foot Tower Collapses, What's Next, Ron Viste, WEAU-TV  
5:30 PM: Dinner  
7:00 PM: SBE All Chapter Meeting and Program (open to everyone)

## THURSDAY, OCTOBER 13

7:45 AM: Registration & Continental Breakfast  
8:30 AM: BER Testing Circular Polarization for Mobile DTV, John Schadler, SPX  
9:15 AM: Taking Control of MPEG Transport Streams, David Wood, Ensemble Designs  
10:00 AM: Break  
10:15 AM: OLED What is it? Gary Mandle, Sony  
11:00 AM: The CALM Act, ITU-R BS.1770 Revisited, Thomas Lund, TC Electronics  
12:00 Noon: Lunch  
1:15 PM: The One Man News Crew: Cellular Wireless for ENG Applications, Cahit Akin, Mushroom Networks, Inc.  
2:00 PM: Time to Get Serious with Interactive TV, Stuart Lipoff, IP Action Partners Inc.  
2:45 PM: Can Broadcasters Play a Role in Broadband Evolution, Greg Herman, SpectrumEvolution.org

field.

Certification applicants can request the employer letter when filling out the certification or recertification application

The employer letter is **only** sent when the applicant passes an exam.

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

### NEW SBE University Course Television Video and Audio - a Ready Reference for Engineers

A new course on SBE University, Television Video and Audio - a Ready Reference for Engineers, was developed by [Randy Hoffner](#). Hoffner is retired from ABC Broadcast Operations and Engineering West Coast. The purpose of this course is to give the television engineer a solid grounding in the various aspects of video and audio for television, and to serve as a reference to the pertinent standards. The course provides an overview of video and audio for television, from the dawn of analog television broadcasting to today's digital television transmission. It is specifically aimed at television in the U.S., although, where appropriate, other world television systems are mentioned.



#### Subjects in this online, on-demand course include:

NTSC Video and Transmission, Component Video, Analog Resolution and Aspect Ratio, Digital Video, Digital Scanning Formats, Other SD and HD Video Characteristics, Baseband Signal Interfaces, Video Compression for DTV, Video Storage, Analog Audio, Digital Audio, Digital Audio Compression for Television and Audio Storage.

[More Info and Registration](#)

### SBE University Course Television Video and Audio - a Ready Reference for Engineers

A new course on SBE University,



Something you may consider when you apply for certification is your option to request that a letter be sent to your employer from the SBE President. This letter would state that you have obtained a level of SBE Certification.

While the certification itself looks good on a resume, this letter "steps it up" to acknowledge your efforts for career improvement in the broadcast engineering



**NEW SBE University Course**  
**The New Lifecycle of Media - IP and File Based**  
**Architecture and Workflows**

Gary Olson, Principal of GHO Group LLC, is the author of a new course on SBE University titled The New Lifecycle of Media - IP and File Based Architecture and Workflows. The intent of this course is to review the entire IP and file based architecture, the changes in workflows and the broad spectrum of technologies that make up the environment. The transition to an IP infrastructure supporting file based broadcast and production came about more quickly and completely than any of the other recent changes in the broadcast and production industry. The course will show how this is a transition that is dependent on people, process and technology.



**This online, on-demand course will provide an understanding of:**

1. all the technical considerations that need to be taken into account in a file based architecture.
2. the changing roles and responsibilities engineers will have in designing and maintaining these new systems.
3. the new jobs / roles that are necessary in handling media in this architecture.
4. the changes in workflow and business processes.

**[More Info and Registration](#)**

**SBE CertPreview study guide (now with DRB)**



If you are taking or thinking about taking an SBE Certification exam, consider using the SBE CertPreview to aid in your exam preparation.

The [SBE CertPreview](#) is the only product endorsed by the SBE National Certification Committee as a way of studying for SBE Certification exams.

The SBE CertPreview will take you through a 50 multiple choice question exam and allow you to revisit your answers before you score the sample test.

Once you have scored the sample test you will be given a breakdown percentage of categories. You will also have the ability to go back to the questions contained within your sample test to see the correct answer.

You can take multiple sample tests and each time you will have a new mixture of questions. The software was designed to give examinees an idea of what to expect on SBE Certification exams. Everyone's knowledge is different and the actual multiple-choice exams are open book.

The SBE CertPreview is available for PC and Mac users and can be downloaded and installed onto your computer or you can purchase the CD to install later.

The sample tests are \$29 each for the download and \$33 each (+\$3 s/h) for the CD.

You may order [online](#) or contact the [SBE office](#) to order the SBE CertPreview.

**[DRB SPECIALIST NOW AVAILABLE ON CertPreview!](#)**  
The [Digital Radio Broadcast Specialist CertPreview](#) is now available for PC users.

(Mac version coming soon)

The Digital Radio Broadcast Specialist certification was designed to help evaluate an individual's ability to perform the necessary tasks to build and keep facilities operating properly. It will qualify an individual's knowledge of digital radio broadcasting including audio processing, studio-to-transmitter links and transmission of multi-channel digital program streams.



[FEMA IPAWS Virtual Roundtable - September 30](#) - 1:30 p.m. ET **FREE!**

FEMA IPAWS Special Event - Prepared & Ready: The Final Stretch Before the Nationwide EAS Test  
This roundtable discussion will involve a variety of topics and draft documents for feedback that will support updates to the EAS Best Practices Guide and Nationwide EAS Test Informational Toolkit. Some examples include:

- Television and Cable EAS Background Slate
  - Nationwide EAS Test Message Transcript Draft
  - Public Service Announcement Audio Sample
  - Nationwide EAS Test Data Reporting
  - Required Monthly Test Activities and Findings
- [More Info](#)

## Webinars available on-demand

[Managing a Project and Outside Contractors for Success](#)

[Creative Strategies for Translators and Boosters](#)

[KREX - The Real World of Disaster Recovery](#) - **FREE**, thanks to *Harris Corporation*

[Networking Technology for Broadcast Engineers, 2 part](#)

[Mathematics of Reliability](#)

[Event Frequency Coordination](#)

[Leadership Development Webinar Series, 3 part](#)

[Maximizing HD and 1080p/60 Cable Performance](#)

[Human Factors in Broadcasting](#)

[EAS Update](#) (recorded Aug 19)

[ATSC Mobile DTV](#)

[FCC Self-Inspection Checklist](#)

[Networking Technology for the Broadcast Engineer - Routing and Switching](#)



Online courses available on your time

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**2011 dates:**

**October 23, 2011** in New York City during the AES Convention

Pre-registration is available as well as on-site registration.

**November 4-14, 2011** at your local SBE chapter

You must send in your application to the National Office by September 16, 2011 in order to be registered for the exams.

**2012 dates:**

**February 3-13, 2012** at your local SBE chapter, applications are due by December 21, 2011

**April 17, 2012** held during the 2012 NAB Show in Las Vegas, applications are due by March 25, 2012

**June 1-11, 2012** at your local SBE chapter, applications are due by April 13, 2012

**August 3-13, 2012** at your local SBE chapter, applications are due by June 1, 2012

**November 2-12, 2012** at your local SBE chapter, applications are due by September 14, 2012

Make sure that you visit the SBE website to view the [suggested reference lists](#) for the SBE certification exams. A lot of the recommended books are available at a discount to SBE members through the [SBE bookstore](#).

# KRUD RADIO

BY Brian Wilson & Jim Tyler



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