SBE President Jim Leifer has announced that Mark Richer, President of the Advanced Television Systems Committee (ATSC), will be the keynote speaker at the 2018 SBE National Awards Dinner. The ATSC is an international, non-profit organization developing voluntary standards for digital television including the ATSC 3.0 suite of standards for next generation television. The SBE National Awards Dinner is the closing event of the SBE National Meeting, this year held in conjunction with the Media Resource Expo in Danvers, MA, just outside of Boston, on October 3.

Richer will also take part in that afternoon’s live webcast of the SBE Annual Membership Meeting. Leifer will discuss with him ATSC 3.0 standards, testing and implementation.

Richer first joined the ATSC after 16 years with the Public Broadcasting Service (PBS) where, as Vice President of Engineering & Computer Services, he was responsible for development of new technologies for PBS and its member stations, design of audio/video systems, and management of information technology operations.

Richer was a recipient of the Broadcast & Cable Technology Leadership Award in 2007, the 2010 recipient of the National Association of Broadcasters Engineering Achievement Award for Television and the 2018 EDGE Award for Excellence in Innovation from America’s Public Television Stations. He is a Fellow of the Society of Motion Picture and Television Engineers (SMPTE) a Senior Member of the Institute of Electrical and Electronics Engineers (IEEE) and serves on the FCC Technology Advisory Council. He has been a member of the SBE since 1995.

SBE National Meeting events begin on Tuesday, Oct. 2 with meetings of the national SBE Certification Committee and the SBE Board of Directors. On Wednesday, Oct. 3, activities include the annual SBE Fellows Breakfast (invitation-only), activities that include the annual SBE Fellows Breakfast (invitation-only), and the ATSC’s Richer to Keynote SBE National Awards Dinner.

Mark Persons was exposed to broadcast engineering at an early age. His father began working as a broadcast engineer in the 1920s. Throughout his 50+ year career, Persons helped to build 12 new commercial AM and FM radio broadcast stations for clients as well as countless other rebuilds and upgrades. Recently retired, Persons and his wife Paula are mentoring four broadcast engineers. It is Mark’s way of giving back to the industry that kept him employed for over half a century.

SBE Announces National Award Winners

The 2018 SBE National Awards, which recognize excellence and achievement by individual members, SBE chapters and Sustaining Member companies, have been announced. The two highest individual awards are the Robert W. Flanders SBE Engineer of the Year and the James C. Wulliman SBE Educator of the Year.

The Robert W. Flanders SBE Engineer of the Year award is presented to a member who has excelled in his or her career while furthering the mission of the SBE. Candidates are nominated by their peers. The winner of the award for 2018 is Mark Persons, CPBE, AMD, CBNT, of Brainerd, MN. Persons is a current member of SBE Chapter 17.

The recipient of the James C. Wulliman SBE Educator of the Year award is recognized for outstanding service and excellence in sharing knowledge through teaching other broadcast engineers. The winner of the 2018 James C. Wulliman SBE Educator of the Year award is Jeff Welton, CBRE, in Hackett’s Cove, NS. Welton is the sales manager for the central region of the US at Nautel and has been a presenter at many Ennes Workshops conducted by the SBE across the country.

See AWARDS, p. 9

See NATIONAL MEETING, p. 8

IN THIS ISSUE

4 Letter from the President
5 Need to Know: ATSC 3.0
6 Show Your Certification
8 Membership Drive Success
10 What’s Next for C-Band
12 Smarter Smart Speakers
14 Member Spotlight
TERADEK LINK PRO

Bonded Cellular WiFi Router

Blazing-fast Internet and maximum 4G/LTE redundancy so you can stream, browse and broadcast wherever you go.

2.4 / 5GHz WiFi
600 ft Range

Portable Power
Gold & V-mount

6x Modems
3G / 4G / LTE

linkpro.teradek.com
2018 SBE Compensation Survey

The SBE conducted its third compensation survey in April and May. The survey goal is to provide practical information to SBE members about individual compensation (salary and benefits) based on the typical mix of broadcast or multimedia involvement, market size, and job title category.

We asked if respondents received a raise in the last year, and if so, how much, and to report benefits received. We also asked about contract engineering rates and practices.

Respondents were asked if they held any broadcast- and media-related professional certifications. We also compared salaries of respondents with and without SBE Certification and reported the results. That chart is shown here.

The survey report is available on the SBE website. You will need your SBE website login to access the page. Also, the PDF report is password protected. The password is noted on the download page.

2018 Chapter Engineers of the Year

In conjunction with the SBE National Awards program, SBE members who are honored by chapters as a chapter engineer of the year are automatically entered into consideration for the Robert W. Flanders SBE Engineer of the Year award. Nine people were selected by chapters for the local honor.

- Marty Hadfield, CPBE; Ch. 16 Seattle
- Mark Persons, CPBE, AMD, CBNT; Ch. 17 Minneapolis
- Aaron Diezman, Ch. 32 Tucson
- Lawrence Montenegro; Ch. 38 El Paso
- John Hovanec, CSRE, AMD, DRB, CBNT; Ch. 70 Northeast Ohio
- Dave Diressen; Ch. 80 Fox Valley

Each honoree will receive a certificate and will be featured in the next issue of The Signal.

THE TELOS ALLIANCE®

EXPERIENCE A FULLY INTEGRATED AOIP ENVIRONMENT

CLOUD VIRTUALIZATION AUDIO DELAYS
SURROUND SOUND AUDIODELAYS WATERMARKING
CLOUD CONSOLES OBM WORKFLOWS DTS VISUAL RADIO
AUDIO PROCESSING CODECS IMMERSIVE
HYBRIDS INTERCOM DOLBY
CONSOLES AES67 PHONES
ROUTING AES3 AES31 AES67 PHONES
INTERCOM AES31 AES67 PHONES
LIVEWIRE+ AES67 PHONES
REAL-TIME UP MIXING AES31 AES67 PHONES
VIRTUAL RADIO LOUDNESS MANAGEMENT IMMERSIVE
VOICE WORKSTATION PLUGINS AIOIP
VIRTUAL AUDIO AUTOMATION IMMERSIVE
5.1+4 MULTICHANNEL FILE BASED ROUTING TDM
VIRTUAL AUDIO INTEGRATION IMMERSIVE
87.000 QUICKTIME DOLBY
SMPTE 2110 IMMERSIVE
20.000 IMMERSIVE
AES67 PHONES
5.1+4 IMMERSIVE
THE TELOS ALLIANCE®
telosalliance.com
A Day of Discussion, a Wealth of Ideas

It’s that time again where the summer heat is on. There are a lot of exciting things happening, but I want to focus on one item in particular. On June 9, the SBE held a strategic planning conference in Indianapolis. To give you some sense of the scope and breadth, we had 35 SBE members, including SBE chapter representatives and the SBE Board of Directors. I want to thank everyone who attended for their time and candid interaction.

We spent the day working through many items that are important to SBE members. Some of the conversations and action points are around our membership growth and how we can continue to grow new memberships. As the Association for Broadcast and Multimedia Technology Professionals, how are we doing at recruiting our brethren in the industry and what strategically can we do to provide member benefits to current and future members? There was lengthy discussion on the youth memberships and how we can grow this area as well. As you know, the Mentor Program has had some good growth in the last year, and we want to support this. Another topic of discussion was providing new and better tools for our membership. There were many more topics, and we spent a long 12-hour day to develop many ideas.

In April, the board created a strategic planning committee to work with me on these action items to present to the board at the National Meeting in Boston this October. I want to thank Kevin Trueblood, Wayne Pecena and Jason Ornellas for being a big part of this effort.

Work on the Hill

The strategic planning conference is not the only recent activity. On May 22, the SBE attended a meeting with the FCC on the 3.7-4.2 GHz spectrum.

In April, the FCC issued a public notice of a temporary freeze on applications for new or modified fixed satellite service earth stations and fixed microwave stations operating in the 3.7-4.2 GHz band, the C-Band downlink. The notice also established, as a limited exception to the freeze, a 90-day window allowing existing entities that now own Fixed Satellite Service earth stations to register or license them if not currently licensed or registered. During that 90-day window, earth station users of this band can also modify currently licensed or registered earth stations.

The FCC explained that the purpose of the freeze is to preserve the status quo in the C-Band pending FCC action in its open inquiry into "the possibility of permitting mobile broadband use and more intensive fixed use of the band" pursuant to Docket 18-122.

On May 22, SBE General Counsel Chris Imlay and I attended a meeting at the FCC along with SBE Sustaining Member Mark Johnson from LinkUp Communications. The result of the meeting was an FCC public notice that created a 90-day extension to the filing window, to Oct. 17, 2018, from July 18, 2018. The FCC also waived the coordination report requirement for the duration of the freeze.

I can say that when we have the opportunity to work with the FCC they are receptive. The SBE and the FCC have had a long and positive relationship, and I am happy to report that this relationship continues. We look forward to the next meeting in Washington where we can make a difference for our members.
Do I Really Need To Know That?

Determining the scope of an SBE education program can often be a daunting task, beginning with determining an overall topic, identifying a subject matter expert (SME) or team experts to present the content, and finally development of the right content for the program. ATSC 3.0 or Next Gen TV is one such topic that was easy to identify. It is clearly going to become part of the broadcast engineer’s knowledge base. As your SBE Education Committee is focused on professional development programs, your SBE Certification Committee is developing the ATSC 3.0 specialist certification. Whether for skill development or certification, what does the broadcast engineer really need to know about ATSC 3.0?

ATSC 3.0 is expected to bring an entirely new definition to broadcast television as conventional over-the-air (OTA) broadcast merges with broadband internet. These technologies converge to form a platform that is flexible and scalable to meet changing needs of the viewer and future technology advances. 4K Ultra HD video images enhanced with high dynamic range (HDR), multi-channel personalized immersive audio, and increased channel capacity frequently top the broadcast capability advantage list. Robust mobile device reception with multiple streams of content provide more of the broadband internet experience to the viewer. In fact, the viewer may not really know how his content is received, whether via OTA, via broadband, or even a combination of the two, especially for interactive content. The end result is the viewer is provided the desired content when he wants the content, and displayed on the device of his choosing. The common use of the Internet Protocol (IP) for transport allows this convergence with a significant change in the concept of the future broadcast station technical facility. ATSC 3.0 may also provide significant capability enhancement not seen in broadcast television today. More complex implementation features might include:

- On-Demand linear viewing support
- Digital Rights Management (DRM) controlled conditional access (subscription or pay-per-view)
- Enhanced emergency alerting with location geo-targeting

And new business and service opportunities are likely to be developed as applications are developed in the marketplace. These applications may be profit-focused for the commercial broadcasters or service-focused for the non-commercial educational broadcaster. The overall goal of ATSC 3.0 is to provide a system that is flexible, adaptable, and future-proof as technology and viewer demands change.

The sheer scope of ATSC 3.0 is daunting. It is clear that any professional development offered will be a multi-part series with the potential end not clearly in sight. Plentiful theoretical information and limited real-world information are available. The Advanced Television Standards Committee (ATSC) has published the standard documents that are the basis for the theory of operation on how things should work. My goal is for the SBE to blend just the right level of theoretical operation defined by the standards, while capturing real-world implementation aspects from test environments such as those in Cleveland and Phoenix, or the single-frequency network (SFN) implementation effort in Dallas.

The ATSC 3.0 System Layers provide an excellent outline for a forthcoming webinar-based education program that begins with a system overview and continues with focus on the Physical Layer. The Physical Layer is the foundation to ATSC 3.0 OTA operation that is based on OFDM modulation utilizing Low Density Parity Check (LDPC) forward error correction with a range of possible coding rates and constellation formats. Different multiplexing modes may be incorporated through a concept of Physical Layer Pipes (PLP) to support different content delivery applications balancing coverage (robustness) and stream capacity (throughput) within the overall channel capacity (bandwidth). There is a lot ahead to be learned and significant aspects to be remembered.

Keep in mind that it is “not how much you learn, but how much you remember that counts”, according to Ted Waddington, Ph.D. at Psychology Today. Techniques that help you remember include regular review, repetition, and don’t try to learn too much. Information learned that is not reviewed will go quickly away, even within 60 minutes. Repetition is a key to long term retention. And keep in mind that you can attempt to learn too much in one sitting, so complex topics must be broken into manageable or memorable portions. With this in mind, you can expect the daunting scope of ATSC 3.0 to be broken into manageable and rememberable portions, and yes, some repetition along the way.

Look for the initial webinars associated with the ATSC 3.0 or Next Gen TV this fall. Your SBE membership with SBE MemberPlus gives you access to all the latest SBE webinars, as well as the entire webinar on-demand library at no additional cost. Don’t have SBE MemberPlus? You can upgrade your membership at any time.

Your SBE Education Committee wants to know your professional development needs. Tell us your thoughts on current and future programs, lend your advice and guidance to your SBE Education Committee to help establish the right mix of educational content to meet your professional development needs.
CERTIFICATION UPDATE
By Megan Clappe
SBE Certification Director
mclappe@sbe.org

What Are You Waiting For? Stand Out to Employers!

With so many layoffs and reorganizations in the broadcasting field you might be thinking about how you can stand out to current or future employers. One way is to become SBE certified. How do you become certified? Read on and find out. First let’s start with a quick background of how SBE Certification came to be.

The Society of Broadcast Engineer’s Program of Certification began more than 40 years ago as a way to recognize and raise the professional status of broadcast engineers by providing a standard of professional competence. It has become recognized in the industry as the primary method of verifying the attainment of educational standards. All SBE Certifications are based on eligibility for the years of work in the broadcast industry.

Entry-Level Certifications
Certified Television Operator (CTO) and Certified Radio Operator (CRO). These two certifications are targeted to the entry-level, non-technical pool of applicants filling board operator and master control positions in today’s radio and television marketplace and include the opportunity to be tested and certified.

Certified Broadcast Technologist (CBT). This exam will consist of either AM/FM or TV questions. Content of these questions will consist of electronic fundamentals, FCC rules pertaining to operating tolerances and safety.

Certified Broadcast Technologist (CBT). If you hold a valid FCC Amateur Extra Class license or a valid General Class license and have two continuous years or three out of the last five years work experience in broadcast engineering or a related technology, you can apply for the CBT certification without taking the exam.

Certified Broadcast Networking Technologist (CBNT). This certification is designed for persons who wish to demonstrate a basic familiarity with networking hardware as utilized in business and audio/video applications in broadcast facilities. This exam will consist of questions on network topologies and layouts, common network protocols, wiring standards and practices, maintenance, troubleshooting and connectivity issues and challenges unique to broadcast-based networks.

5-Year Certifications
The following certifications require a minimum of five years’ experience of broadcast engineering or experience in a related field. You may substitute the years of experience to supplement the year requirement (see acceptable substitutions below).

Certified Audio Engineer (CEA), Certified Video Engineer (CEV), Certified Broadcast Radio Engineer (CBRE) and Certified Broadcast Television Engineer (CBTE). These exams consist of questions regarding safety, problems, operation practices and theory.

Certified Broadcast Networking Engineer (CBNE). This exam is for experienced broadcast professionals having significant experience in IP networks and associated storage and playout technologies deployed in radio and television operations.

10-Year Certifications
Certified Senior Radio Engineer (CSRE) and Certified Senior Television Engineer (CSTE). This exam will consist of more advanced questions regarding safety, problems, operation practices and theory.

For the 5-year or 10-year certifications you may substitute the years of experience by holding a state registered professional engineer’s license, a bachelor’s degree, an associate degree or years of related accredited education can be substituted, year for year (up to 4 years).

20-Year Certification
Certified Professional Broadcast Engineer (CPBE). This certification requires 20 years of professional broadcast engineering or related technologies experience in radio and/or television. Educational credits will not be counted towards the 20 years. There isn’t an exam associated with this certification. However, the applicant must first be certified on the senior level in order to apply for the CPBE.

To apply you must fill out the application and include three letters of reference. Two must be from a Certified Professional Broadcast Engineer, certified senior engineer or state-registered professional engineers. At least one other letter of reference must be from a person who has supervised your work. However, if he or she is certified at one of the above-mentioned levels, that reference will be counted as two letters. In addition to the application and letters of reference you must submit a resume and a statement showing why you believe your professional experience, educational background and training qualifies you for certification.

Your application will then go for review to your SBE local chapter certification chairman and then to the National Certification Committee.

Specialist Certifications
Certified 8-VSB Specialist (8-VSB), Certified AM Directional Specialist (AMD) and Certified Digital Radio Broadcast Specialist (DRB). These certifications were created by the National Certification Committee to establish a benchmark of individual strengths. In order to apply for the Specialist exams you must first be certified on the 5-year, 10-year or 20-year level.

All SBE certifications are valid for a period of five years. At which time you will need to re-certify by professional credits. These credits will be valid from the 5-year period of your certification. Credits can be obtained by continuing your education, working in the broadcasting field, attending seminars, SBE meetings, active membership in SBE or other national technical broadcasting societies.
Employer Notification

When you apply for certification, you have the option to request a letter be sent to your employer from the SBE president. This letter states 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 field. (Certification applicants can request the employer letter when they complete the certification or recertification application.) The employer letter is only sent when the applicant passes an exam. To apply for any of these certifications please complete an application from the SBE website (sbe.org/certification) or you may call the National office to request an application at 317-846-9000. Exams are given year round at your local chapter during exam sessions.
THE Signal
sponsored by Kathrein USA, SBE Annual Membership Meeting (webcast live), sponsored by Blackmagic Design, Dielectric, DVEO, Drake Lighting, IMT Vislink, Lawo and Technical Broadcast Solutions.

The SBE Annual Awards Reception, sponsored by Comrex, is followed by the SBE National Awards Dinner, sponsored by Telos Systems. Presentation of the society’s major awards will be made, including the SBE Fellow Award to Jerry Massey, CPBE, 8-VSB, AMD, DRB, CBNT of Greenville, SC. Also to be presented are, the Robert W. Flanders SBE Broadcast Engineer of the Year, James C. Wulliman SBE Educator of the Year, the SBE Technology Award to a Sustaining Member company and the Best Technical Article, Book or Program by an SBE member.

SBE chapters will be presented with awards recognizing achievement for Best Chapter Communications, Best Regional Educational Event, Greatest Member Growth, Highest SBE Certified Chapter and Highest Meeting Attendance.

The SBE National Meeting is being held in conjunction with the Media Resource Expo. Our host is SBE Chapter 11 of Boston. MRE is a one-day annual trade show and technical educational event that attracts professionals in broadcast, film, instructional media and communication, along with manufacturers, resellers and integrators. The SBE will have a booth during the show, sponsored by Technical Broadcast Solutions.

The SBE National Meeting and the MRE will be held at the Doubletree by Hilton Boston North Shore Hotel in Danvers, MA. The hotel is located 19 miles north of downtown Boston and Logan Airport. Registration for the MRE is required but free to SBE members if they register in advance. Tickets for the SBE National Awards Reception and Dinner ($16) are available through the SBE website, www.sbe.org and by telephone, Monday - Friday from 8:30 a.m. to 4:30 p.m. ET at 317-846-9000. There is no registration or fee to attend the Annual Membership Meeting.

Accommodations at the Doubletree can be reserved by calling 978-777-2500. The SBE has a limited number of rooms reserved at the discounted rate of $149. Rooms are on a first come, first-served basis, so don’t wait too long.

The SBE National Meeting and MRE are open to anyone interested in media technology. We invite SBE members, especially those in the New England area, to take advantage of this opportunity and attend all of the events on October 3.

NATIONAL MEETING from p. 1

SBE Annual Membership Meeting Webcast
If you aren’t able to attend the SBE National Meeting in person, do the next best thing and tune in to the live webcast of the Annual SBE Membership Meeting. It takes place from 3:30 to 4:30 p.m. ET (12:30 p.m. - 1:30 p.m. PT) on Wednesday, October 3.

Hosted by SBE President Jim Leifer, the program will include updates on the latest developments with SBE education, certification and frequency coordination. Leifer will lead a special interview segment with Mark Richer, President of ATSC, about the latest developments with ATSC 3.0 and NextGenTV. The newly elected national officers and directors of the SBE Board of Directors will be inducted.

To tune in, go to the SBE website, sbe.org and click on the webcast link.

Thanks To Our National Meeting Sponsors

Kathrein
SBE Booth

Dielectric

Drake Lighting

DVEO

IMT Vislink

Technical Broadcast Solutions, Inc

Awards Reception

Comrex

Broadcast Reliable

Awards Dinner

The Telos Alliance

The Doubletree by Hilton Boston North Shore in Danvers, MA

Membership Drive Brings 62 New Members

The 2018 SBE Membership Drive, which carried the theme “Get Ahead With the SBE,” brought in 62 new members. Each member who recruited a new member was entered into a drawing to win prizes donated by several SBE Sustaining Members and the SBE.

The Grand Prize winner, who receives an expense-paid trip to the SBE National Meeting in Danvers, MA, this October, is Donald Ohse of Midwest City, OK. All the prize winners are listed to the right.

Thanks to the SBE Sustaining Members who donated prizes for the Membership Drive this year.

Recruiters also earned $5 off their 2019 dues renewal for each new member he or she recruited. SBE members who recruited three or more new members will receive an upgrade to SBE MemberPlus in 2019.
New Members
Membership

Davicom Cortex 360

site management industry. The Cortex 360 Site Management System is based on the latest hardware processors running an embedded Linux operating system, which incorporates 30 years of experience and knowledge in the remote site management industry.

Chapter and Individual Awards

Chapters are the lifeblood of the SBE, and 2018 marks the fifth year that the Chapter Engineer of the Year Award has highlighted the achievements of members within their chapters. This year, six chapters selected their own award recipients. Each winner will be presented with a special certificate and be recognized nationally on the SBE website and in a future issue of The Signal. The six chapter winners also were automatically nominated for the national Robert W. Flanders SBE Engineer of the Year Award. The 2018 national winner, Mark Persons, represented Chapter 17 as its Chapter Engineer of the Year Award winner.

The 2017 Broadcasters Clinic in Wisconsin has won for Best Chapter Regional Educational Event. Chapter 16 in Seattle, WA, has won for Best Chapter Communication.

Rob Sobol of Hilights has won the award for Best Technical Article, Book or Program by an SBE member for NOC, NOC. Who’s There in

Statistical Awards

Greatest Growth in New Members
Class A: Chapter 57, Rochester, NY
Chapter Chairman, Gregory Carter, CBT, CBNT
Class B: Chapter 118, Montgomery, AL Chapter Chairman, Wiely Boswell, CBRE, CBNE

Most Certified Chapters
Class A: Chapter 115, Southern Idaho Chapter Chairman, Thomas Kettwig, CBT
Class B: Chapter 131, Inland Empire, Chapter Chairman, Wayne Murphy, CPBE, CBNE and Certification Chairman Paul Claxton, CPBE, CBNE

Highest Member Attendance
Class A: Chapter 145, Magic Valley, Chapter Chairman, Thomas Lowther, CSRTE, CBNT
Class B: Chapter 79, Austin, TX Chapter Chairman, Ed Rupp, CBTE, CBNT

Nominations for the 2019 awards will open in February.

Class awards are determined using the median chapter size as of Dec. 31, 2017, as the dividing line between Class A (fewer than the median) and Class B (more than the median).
FCC Drops the Next Shoe on the C-Band

It is refreshing, after many years of watching FCC open meetings, to finally have the document that the FCC is considering in hand well before the meeting occurs. Frankly, it didn’t mean much to have a short summary of what the FCC was deciding on and no real idea of the contents. The FCC’s newer policy is to release draft documents a couple of weeks in advance of the open meeting on which those items are calendared. So we know what is coming up in advance of the meeting and what the rationale is for the proposed rules or orders that are being considered. A win for government in the sunshine at long last.

As I write this, just before July 4, the FCC has released a proposed order and notice of proposed rulemaking in Docket 18-122, which it labels “Expanding Flexible Use of the 3.7 to 4.2 GHz Band.” The open meeting to consider this NPRM was planned for July 12, but the NPRM is pretty much in final form now. It continues the FCC’s effort to make mid-band spectrum in the 3.7-4.2 GHz band available for “expanded flexible use,” focusing on “mechanisms for clearing for mobile use” and considering whether to allow “point-to-multipoint use on a shared basis in portions of the band.”

Another purpose of the NPRM is to “collect information from FSS earth stations and space stations to provide a clear understanding of the operations of current users.”

Sound ominous? It is. It is a very, very rapid follow-up to the notice of inquiry in the 2017 “Mid-band Docket,” which began an evaluation of which bands between 3.7 GHz and 4.2 GHz can be made available for “flexible use” (which for this purpose should be defined as “5 GHz wireless broadband”) and which directly threatened the C-Band receive-only dishes.

The SBE has taken the position that C-Band receive-only dish registration is an absolute good. It would help identify the vast numbers of C-band dishes that are in active use all the time. It would, says the Commission, entitle the registrant to interference “while also planning to “increase the intensity of terrestrial use in the band.” Paragraph 15 of the NPRM says: “The record, however, reflects that the Commission lacks sufficient information regarding incumbent operations, including those of earth station licensees and registrants, and that correct usage data is vital to any action regarding modified use of the band. Specifically, commenters claim that in addition to the 4,700 earth stations registered or licensed in the International Bureau Filing System (IBFS), there is a significant number, possibly thousands, of unregistered receive-only earth stations that must be protected under any Commission action concerning the 3.7-4.2 GHz band.”

So you can see how important it still is to register these dishes, show the FCC plainly how many there actually are, and what their geographic distribution is. The SBE will tell the Commission what data we have, but we all have to pull together on this. The FCC says it “proposes to protect incumbent earth stations from harmful interference” while also planning to “increase the intensity of terrestrial use in the band.” It asks how to define the appropriate class of incumbents for protection. For C-Band earth-station registrants, the FCC proposes to define incumbent stations as earth stations that: (1) were operational as of April 19, 2018; (2) were licensed or registered (or had a pending application for license or registration) in the IBFS database as of Oct. 17, 2018; and (3) have timely filed information in response to the Commission’s public notice collecting information on operations of earth stations in the 3.7-4.2 GHz band.

The comment date is to be determined, but it will be some time after mid-September of this year. Speak now or forever hold your peace.
FOCUS ON SBE
By John L. Poray, CAE
SBE Executive Director
jporay@sbe.org

Seventy Chapters Earn Quality Chapter Status

In 2019, One Will Be Named Chapter of the Year

Each year the SBE returns a portion of the membership dues paid by members to the chapters in which those members belong. The chapters have to qualify for the rebate, as we call it, by having at least five meetings during the calendar year and documenting those meetings to the national SBE office.

In 2017, 70 chapters qualified for Quality Chapter status and the SBE paid a total of more than $36,000 to them. Chapters typically use the money to help run their own operations. Expenses can include website hosting fees, printing, postage, sometimes meals for chapter meetings or social events, and other things. Having the rebate allows most chapters not to have to charge their own dues, avoiding that administrative burden, and instead, concentrate on producing successful meetings and other chapter functions.

In 2019, the SBE, for the first time, will recognize one chapter as the SBE Chapter of the Year. The annual award will go to a chapter that is judged best, overall. Criteria will include holding quality meetings on a regular basis, serving a high percentage of media technical professionals in the community, has a high percentage of members attending chapter events and has a high percentage of members who are SBE certified. Also included in the criteria will be quality communication with its members and how the chapter sets itself apart by holding one or more special educational activities each year, such as a special educational event, holiday dinner, chapter picnic, scholarship program, or makes visits to schools to discuss careers in broadcast engineering, etc.

Chapters will not nominate themselves, but be judged instead using a two-phase process. First, chapters will be compared statistically using data from the national office. The statistics will measure many of the specific items mentioned above based on Dec. 31, 2018, data. This phase will generate a group of finalists of roughly ten percent of the total number of SBE chapters. The second phase will be more subjective, judging the special events and the quality and variety of programs provided to local members. Judging of the second phase will be done by members of the national Board of Directors, recusing themselves when their own chapter is being judged. The winning chapter will be recognized during the spring SBE Membership Meeting, held during the annual NAB Show in Las Vegas.

Why recognize a single chapter each year? Just two reasons. To recognize those members who have made the chapter a success, and to provide other chapters with an outstanding example from which to build their own chapter.

Below is a list of chapters that attained Quality Chapter status during 2017 and received a cash rebate from the national SBE in June of this year. Our congratulations to them and to their leadership.

<table>
<thead>
<tr>
<th>Chapter</th>
<th>Chair</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 Northeastern Pennsylvania</td>
<td>Joseph Glynn, CPBE</td>
</tr>
<tr>
<td>3 Kansas</td>
<td>Robert Locke, CPBE, CBNT</td>
</tr>
<tr>
<td>7 Jacksonville</td>
<td>Craig Butler, CSRTF</td>
</tr>
<tr>
<td>9 Phoenix</td>
<td>Robert Reymont, CPBE</td>
</tr>
<tr>
<td>14 Connecticut Valley</td>
<td>Frederick Krampits, CPBE, CBNT</td>
</tr>
<tr>
<td>15 New York City</td>
<td>Jeffrey Smith, CPBE, Jon Kasprick, CBRE, DRB, CEA</td>
</tr>
<tr>
<td>16 Seattle</td>
<td></td>
</tr>
<tr>
<td>17 Minneapolis</td>
<td>Joseph Conlon</td>
</tr>
<tr>
<td>21 Spokane</td>
<td>Jerry Olson, CSRE</td>
</tr>
<tr>
<td>22 Central New York</td>
<td>Thomas McNicholl, CBTE, Richard Wood</td>
</tr>
<tr>
<td>24 Madison</td>
<td>Gordon Carter, CPBE, DBR, CBNT</td>
</tr>
<tr>
<td>26 Chicago</td>
<td></td>
</tr>
<tr>
<td>32 Tucson</td>
<td>Robert Nemitz, CBNE</td>
</tr>
<tr>
<td>33 Southwestern Ohio</td>
<td>James Stitt, CPBE</td>
</tr>
<tr>
<td>34 Albuquerque</td>
<td>William Harris, CPBE, AMBD, CPNT</td>
</tr>
<tr>
<td>35 Kentucky</td>
<td>Jerry May, CPBE</td>
</tr>
<tr>
<td>36 San Diego</td>
<td>Anthony McDavid</td>
</tr>
<tr>
<td>37 District of Columbia</td>
<td>Kent Kramer, CBRE</td>
</tr>
<tr>
<td>38 El Paso</td>
<td>Jose Castro</td>
</tr>
<tr>
<td>39 Tampa Bay Area</td>
<td>Dustin Hapl, CBNE</td>
</tr>
<tr>
<td>40 San Francisco</td>
<td>Arthur Lebermann, CPBE</td>
</tr>
<tr>
<td>41 Central Pennsylvania</td>
<td>Randall Miller, CBT, CBNT</td>
</tr>
<tr>
<td>42 Central Florida</td>
<td>Randy Woods</td>
</tr>
<tr>
<td>43 Sacramento</td>
<td>Robert Hess, CPBE</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Chapter</th>
<th>Chair</th>
</tr>
</thead>
<tbody>
<tr>
<td>44 Shreveport</td>
<td>Troy Jones</td>
</tr>
<tr>
<td>45 Charlotte</td>
<td>Brad Humphries</td>
</tr>
<tr>
<td>46 Baltimore</td>
<td>James Richardson</td>
</tr>
<tr>
<td>47 Los Angeles</td>
<td>Matthew Anderson, CBRE</td>
</tr>
<tr>
<td>48 Denver</td>
<td>Shane Toven, CBRE, CBNT</td>
</tr>
<tr>
<td>49 Central Illinois</td>
<td>Gary Galenzier</td>
</tr>
<tr>
<td>51 Tri-Cities</td>
<td>Jack Blum</td>
</tr>
<tr>
<td>52 Central Ohio</td>
<td>John Olen</td>
</tr>
<tr>
<td>53 South Florida</td>
<td>Carlos Sanchez, CPBE</td>
</tr>
<tr>
<td>54 Hampton Roads</td>
<td>Chris Gunntnfn</td>
</tr>
<tr>
<td>55 St. Louis</td>
<td>Terrence Dupuis, CBRE, CBNT</td>
</tr>
<tr>
<td>56 Tulsa</td>
<td>Donald Dobbs, CBTE</td>
</tr>
<tr>
<td>57 Rochester</td>
<td>Gregory Carter, CBT, CBNT</td>
</tr>
<tr>
<td>58 Northeast</td>
<td>Nolan Stephany, CSRTF</td>
</tr>
<tr>
<td>59 Kansas City</td>
<td>Michael Rogers</td>
</tr>
<tr>
<td>66 Fresno</td>
<td>Jaime Gonzalez</td>
</tr>
<tr>
<td>67 North Texas</td>
<td>William Ryan</td>
</tr>
<tr>
<td>68 Birmingham</td>
<td>Darrell McCallis, CBRE, CEA, CEV, CBNT</td>
</tr>
<tr>
<td>69 Alamo Area</td>
<td>Christopher Anderson</td>
</tr>
<tr>
<td>70 Northeast Ohio</td>
<td>Blake Thompson, CBNT</td>
</tr>
<tr>
<td>72 New Orleans</td>
<td>Ernest Kain</td>
</tr>
<tr>
<td>74 Midland</td>
<td>Kevin Faris</td>
</tr>
<tr>
<td>76 Eugene</td>
<td>Dennis Hunt</td>
</tr>
<tr>
<td>78 Blue Ridge</td>
<td>Daniel Ullmer</td>
</tr>
<tr>
<td>79 Austin</td>
<td>Edward Rupp, CBTE, CBNT</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Chapter</th>
<th>Chair</th>
</tr>
</thead>
<tbody>
<tr>
<td>80 Fox Valley</td>
<td>Stephen Brown, CPBE, CBNT</td>
</tr>
<tr>
<td>85 Central Western</td>
<td>Brian Ryel, CBTE</td>
</tr>
<tr>
<td>88 West Palm Beach</td>
<td>Steve Billing</td>
</tr>
<tr>
<td>90 Southwest Florida</td>
<td>Kevin Trueblood, CBRE, CBNT</td>
</tr>
<tr>
<td>91 Central Michigan</td>
<td>Gary Bliveau</td>
</tr>
<tr>
<td>96 Rockford</td>
<td>Ben Pfeiferer</td>
</tr>
<tr>
<td>102 Grand Rapids</td>
<td>Glenn Gunntnfn, CSTE, CBNT</td>
</tr>
<tr>
<td>103 Nashville</td>
<td>James Campbell, CPBE</td>
</tr>
<tr>
<td>105 Houston</td>
<td>Thomas Daniels, Jr., CPBE</td>
</tr>
<tr>
<td>109 Des Moines</td>
<td>Jon Strom, CBTE</td>
</tr>
<tr>
<td>111 Huntsville</td>
<td>Davison Spindel</td>
</tr>
<tr>
<td>112 Western Wisconsin</td>
<td>Todd Zscheurnetz, CBTE</td>
</tr>
<tr>
<td>113 Knoxville</td>
<td>Robert Holden, CBT, CTO</td>
</tr>
<tr>
<td>115 Southern Idaho</td>
<td>Thomas Kettwig, CBG</td>
</tr>
<tr>
<td>118 Montgomery</td>
<td>Wacky Boswell, CBRE, CBNE</td>
</tr>
<tr>
<td>122 Youngstown</td>
<td>Richard Foley</td>
</tr>
<tr>
<td>124 North Oregon</td>
<td>Everett Helm, CPBE</td>
</tr>
<tr>
<td>131 Inland Empire</td>
<td>Wayne Murphy, CPBE, CBNE</td>
</tr>
<tr>
<td>133 Buffalo</td>
<td>Raymond Felckowski</td>
</tr>
<tr>
<td>141 Medford</td>
<td>David Katz</td>
</tr>
<tr>
<td>145 Magic Valley</td>
<td>Thomas Lowther, CSRTF, CBNT</td>
</tr>
</tbody>
</table>
Ensure Smart Speakers Can Play Your Station

The term “smart speaker” has moved from a catchy buzzword to an everyday reality for an increasing amount of Americans. Currently, 20% of the US population owns a smart speaker and 80% of those are the Amazon Echo.

At the same time as the rise of smart speaker, consumers are finding fewer choices for in-home devices with traditional AM/FM tuners. Considering the top use for smart speakers is to listen to music, it’s easy to see how the smart speaker is quickly becoming the replacement for traditional AM/FM radio in the typical American home.

For a long time we controlled the user experience, and it was simple. Turn on the radio, tune to the right frequency, and there’s your audio.

The problem now is we have to rely on third-party gatekeepers to play our station streams. For listeners, it means they may not get what you’ve asked for and can lead to a frustrating experience at best and a lost listener at worst. It would be like tuning a radio to 95.1 and getting the 95.7 from two states over.

Smart speakers like the Echo natively support radio streaming through the TuneIn app. TuneIn is a longtime stream aggregate service that has become a “one stop shop” for finding and listening to radio station streams. You just tell Alexa to play WGCU and she’ll find and play the station stream as long as it’s available on TuneIn.

So how do you make sure your listeners hear your stream when they ask for it? Here are a few tips to make sure your station comes up correctly when requested.

In the Alexa app be sure the listener sets his home address. This will provide a location for the device. So if you live in Marietta, GA and have not provided the SBE national office with an email address, they will receive your ballots through the mail. An email test message was sent on July 6, and the ballot link was sent to valid email addresses on July 20. Reminder emails will also be sent.

For members who received a paper ballot in the mail, your ballot must be received in the SBE National Office by 4:30 p.m. ET on Aug. 22.

If you have not yet cast your vote, do so today.

SBE National Election: Vote by August 22

The annual election of SBE officers and directors is currently underway. Up for election are all four officers for one-year terms and half the 12 directors for two-year terms.

All ballots are due by 4:30 p.m. EDT on Aug. 22. Voting is via the election website, except for those members who have opted out of electronic voting this year or who have not provided the SBE national office with an email address. They will receive their ballots through the mail. An email test message was sent on July 6, and the ballot link was sent to valid email addresses on July 20. Reminder emails will also be sent.

For members who received a paper ballot in the mail, your ballot must be received in the SBE National Office by 4:30 p.m. ET on Aug. 22.

If you have not yet cast your vote, do so today.

SBE Election Candidate Slate

Directors: (top six vote getters will be elected):
- Stephen J. Brown, CPBE, CBNT; Chapter 80 Fox Valley; Appleton, WI
- Roswell Clark, CPBE, CBNT; Chapter 39 Tampa Bay Area; Clearwater, FL
- Kirk Harnack, CBRE, CBNE; Chapter 103 Nashville; Nashville, TN
- Gary Kline, CBT; Chapter 5 Atlanta; Atlanta, GA
- Vinny Lopez, CEV, CBNT; Chapter 22 Central New York; Syracuse, NY
- Thomas R. McGinley, CPBE, AMD, CBNT; Chapter 16 Seattle; Missoula, MT
- Jason Ornellas, CBRE, CRO; Chapter 43 Sacramento; Sacramento, CA
- Shane Toven, CBRE, CBNT; Chapter 48 Denver; Laramie, WY
- Daniel N. Whealy, CBTE; Chapter 96 Rockford; Sumner, IA

Officers:
- President: James Leifer, CPBE; Chapter 11 Boston; Andover, MA
- Vice President: RJ Russell, CPBE; Chapter 18 Philadelphia; Middletown, DE
- Secretary: Wayne Pecena, CPBE, 8-VSB, AMD, DRB, CBNE; Chapter 99 Bryan, TX
- Treasurer: Jim Bernier, CPBE, CBNE; Chapter 5 Atlanta; Alpharetta, GA

For members who received a paper ballot in the mail, your ballot must be received in the SBE National Office by 4:30 p.m. ET on Aug. 22.

If you have not yet cast your vote, do so today.
Member Spotlight: Maria Dudzak

Maria with her buddy Lincoln and Lincoln’s buddy Taylor the Tiger. Her other cat, Cisco, was out visiting kitty friends.

Member Stats

SBE Member Since: 2013
Certifications: CBT
Chapter: 89 Alaska
Employer: KRBD
Position: Morning Edition Host/Program Director
Location: Ketchikan, AK

I'm Best Known For: Singing, acting and devotion to my cats.

Q. What do you value most about your SBE involvement?
A. The support and sense of belonging. I appreciate the on-demand classes and look forward to completing more RF and IT courses as a SBE MemberPlus.

Q. What got you started in broadcast engineering?
A. Necessity. We haven't had an on-site engineer for many years. I'm pretty handy and like to be helpful. I'm still learning, but the 2013 ABA Engineering Academy with Larry Wilkins was a great crash course that gave me just enough skills to be dangerous.

Q. Who was your mentor?
A. Matt Holmes who was one of the first engineers I met at KRBD. Our phone system died and we had a call-in show the next morning. Overnight he rigged something with a touch-tone phone, and miscellaneous items. He showed me you can fix anything with creativity and imagination.

Q. Do you have a nickname?
A. Some call me “The Soggy Songstress of Swing.” I tend to sing mostly jazz standards and it rains a lot in Ketchikan. An average of 162 inches a year.

Q. What’s something most people don’t know about you?
A. At the age of 33 I went back to college to study voice and theater. I even lived in the dorms with 18-year-olds. It’s never too late to pursue what you love.

In Memoriam

Gino Ricciaardelli, CPBE
Member #117
1922 - 2018
Charter Member Fellow Member
WELCOME TO THE SBE

NEW MEMBERS

Jonathan Abrams - Clearwater, FL  
William Acevedo - Birmingham, AL  
Brandon Bouche - Garner, NC  
Victoria Brace - Clearwater, FL  
Christopher Brown - Highlands Ranch, CO  
Jim R. Burt - Durango, CO  
Peter Chapman - Glendale, CA  
Noah J. Chelliah - Grand Forks, ND  
Michael Daniels - Grand Island, NY  
Tom Colburn - Carmichael, CA  
Brian P. Conley - Pittsburgh, PA  
Jeff Couch - Moore, OK  
Louis S. Creamer, III - Columbus, GA  
Genaro D. Felicelda - Kent, WA  
Sarah Fishman - Brooklyn, NY  
Tim Foley - Las Vegas, NV  
Beau M. Foster - Reidsville, NC  
James B. Gerds, III - Traverse City, MI  
Gregory E. Gochenour - W. Lafayette, IN  
Felipe Gonzalez - Camarillo, CA  
David Grims - Baltic, SD  
William Harrison - Alexandria, VA  
Tina K. Hill - Grand Rapids, MI  
Brynna R. Hutchison - Tacoma, WA  
Michael Jocson - Millilani, HI  
Kasey Johns - Austin, TX  
Ernest L. Jones - Kennesaw, NC  
George Khall - Glendale, CA  
Jacob Killman - Clearwater, FL  
Kurt Kohnen - San Diego, CA  
Ian Liuetti-Fedun - Rockville Centre, NY  
Chuck Loesch - Leander, TX  
Jerry A. Maltezo - Millilani, HI  
Ray A. Manzano - Millilani, HI  
Emily K. Mason - Warrensville, NC  
Joshua P. McComas - Santa Clarita, CA  
Graham McCormick - Millilani, HI  
Reiley McDonnell - Clearwater, FL  
Charles Meisch - High Ridge, MO  
Ahmed Hassan Mohammed - Giza, Egypt  
James Moyer - West Hartford, CT  
Ashley S.P. Nayaragam - Chennai, Tamilnadu, India  
Daniel J. Nelson - Sioux Falls, SD  
Rick A. Olson - Bend, OR  
Shawn Osting - Goode, VA  
Brian J. Payne - Columbus, SC  
Mark Payne - Minneapolis, MN  
Christopher Pearson - North Miami, FL  
Todd Pleva - Nashville, TN  
Brian M. Porreca - Pasadena, CA  
Steven Pulido - Richmond, TX  
Dannie Raghunath - New York, NY  
Angel Ramos - Spring Valley, CA  
Adam Read - Forest, VA  
Jared Rickier - Nampa, ID  
Landis Schrock - Clearwater, FL  
Larry Shields - Cincinnati, OH  
Michael Shiroma - Millilani, HI  
Michael S. Sturgeon - Dedham, MA  
Alexander S. Summar - Los Angeles, CA  
Nathan W. Tate, Jr. - Andalusia, AL  
Leonard Venezia - Copiague, NY  
Dickson A. Villa - Millilani, HI  
Laa Wigen - Millilani, HI  
Raymond Wilke - Arbitus, MD  
Anthony D. Zishka - Indianapolis, IN  
Tony ZunMalone - Los Summit, MO

NEW STUDENT MEMBERS

Isaiah B. Audrey - Lakewood, WA  
Luciana I. Berrera - Federal Way, WA  
Nigel A. Boyd-Martin - Tacoma, WA  
Job Calzonci - Houston, TX  
Jesse Cook - Calgary, AB  
Connor Crookshank - Bonney Lake, WA  
Victrora J. Crumbly - Tacoma, WA  
Sambhu P. Das - Tyler, TX  
Jeffrey C. Dela Cruz - Tacoma, WA  
Francesco DeSantis - Calgary, AB  
Christopher S. Eastman - Kent, WA  
Andy Forbes - Orlando, FL  
Brett A. Fry - Calgary, AB  
Zach T. Goffeney - Indianapolis, IN  
Branson O. Gustafson - Puyallup, WA  
Caden W. Hunt - Spanaway, WA  
Mason S. Jennings - Puyallup, WA  
Panopol Kaewprie - Calgary, AB  
Donghyum Kim - Calgary, AB  
Tyler A. Lindahl - Orting, WA  
Martin W. Papst - Calgary, AB  
Keith Fercez P. Pastor - Calgary, AB  
Sebastian R. Sanders - Parkland, WA  
James M. Sanders - Calgary, AB  
Destiny S. Sharp - Lacey, WA  
Percy D. Stewart - Lacey, WA  
George Wan - Calgary, AB  
Kyle T. Whittfeldt - Tacoma, WA  
Fridnito J. White - Tacoma, WA

NEW YOUTH MEMBERS

Mitchell J. Sulkowski - North Tonawanda, NY

RETURNING MEMBERS

Max E. Anduze - Tampa, FL  
Aaron A. Archuleta - Boise, ID  
Thomas C. Ballister - Trumann, AR  
Daniel P. Cogger - Raleigh, NC  
Mark J. Corless - Menifee, CA  
Ryan Corwin - Rochester, MN  
James C. Curtjif - Fredericksburg, VA  
Joseph M. Fleming - Midlothian, VA  
William W. Ford, III - Lynchburg, VA  
Mitch S. Glider - Merrick, NY  
Darrell Gordon - Raleigh, NC  
David W. Harrison - Upper Marlboro, MD  
Kyle McGuire - Gig Harbor, WA  
Frank J. Mestre - Doral, FL  
Lawrence A. Montenegro - El Pase, TX  
Ian R. Owens - West Palm Beach, FL  
Ian L. Perry - Nampa, ID  
James D. Robinson - Coral Springs, FL  
Erwin N. Roman - Cordova, TN  
Jenal D. Roseter - Brooklyn, NY  
Donald R. Russell, Jr. - Madison, WI  
Thomas J. Sinkowski, Jr. - Warren, MI  
Luis Marcelo Soto - Cypress, TX  
Mark Wilhelm - Roanoke, VA

NEW ASSOCIATE MEMBERS

Richard N. Macris - New York, NY  
Zeb Navarro - Oceanside, CA

RETURNING STUDENT MEMBERS

Charles T. Wooten - Panama City, FL

RETURNING SENIOR MEMBERS

Namakakkalani T. Pereira - Fircrest, WA

2018 Ennes Workshops

Plan to attend one near you

Three SBE Ennes Workshops are on the calendar for the remainder of 2018. Ennes Workshops were created to bring affordable education to SBE members locally. These programs feature multiple topics and speakers that provide television and radio engineers with the latest information in broadcast and media technology.

The SBE and the Nebraska Broadcasters’ Association present an Ennes Workshop on Wednesday, Aug. 15, in Lincoln, NE. Topics include: Radio and Television Transformed; Tower Safety; Nex Gen TV; NAB EAS Plan; Grounding and Lightning Protection.

The SBE and the Missouri Broadcasters’ Association and the Kansas Association of Broadcasters present an Ennes Workshop on Tuesday, Aug. 21, in Overland Park, KS. Topics include: Proper Wiring Techniques for Broadcasters; Tower Safety; Grounding and Lighting Protection; Workbench Topics; and Cybersecurity/Physical Security.

For the second year, the SBE will hold an Ennes Workshop during the Indiana Broadcasters Association conference in Indianapolis on Nov. 1.

Registration information for these workshops is listed on the SBE website. Two of them are being held this month, so register now.

Questions? Contact Education Director Cathy Orosz at 317-846-9000 or corosz@sbe.org. Interested in hosting an Ennes Workshop in 2019? Contact Cathy Orosz at 317-846-9000 or corosz@sbe.org.

sbe.org/education/wkshp

WEBINARS BY SBE

Webinar: Advanced RF

The SBE’s Advanced RF Webinar Series RF 201 kicked off in June with Module 1 – FM Transmitters, presented by Chris Tarr, CSRE, AMD, DRB, CBNE, of Entercom. Module 2 – FM Antenna Systems, presented by Tom Silliman, PE, president ER1, was held in July. If you were not able to participate in the live presentations, the archived versions are now available online.

Plan now to participate in the rest of the series. Mark your calendar for RF 201: Module 3 – AM Directional Antenna Systems, presented by Tom King, President and CEO, Kintronic Labs, Thursday, August 30.

The cost is $59 for SBE members and $89 for non-members. SBE MemberPlus members participate in the webinar for free. Register at sbe.org/webinars.

Watch for announcements about additional SBE Advanced RF Series webinars and a new series beginning in September: ATSC 3.0/Next Gen TV.

The archive of the SBE Transmitter Site Safety webinar presented by Jeff Welson, CBRE, of Nautel on June 14, is now available at the SBE website. SBE MemberPlus members can access it for free. The fee for SBE members with traditional membership is just $59. The fee for non-members is $89.

2018 Ennes Workshops

Plan to attend one near you

Three SBE Ennes Workshops are on the calendar for the remainder of 2018. Ennes Workshops were created to bring affordable education to SBE members locally. These programs feature multiple topics and speakers that provide television and radio engineers with the latest information in broadcast and media technology.

The SBE and the Nebraska Broadcasters’ Association present an Ennes Workshop on Wednesday, Aug. 15, in Lincoln, NE. Topics include: Radio and Television Transformed; Tower Safety; Nex Gen TV; NAB EAS Plan; Grounding and Lightning Protection.

The SBE and the Missouri Broadcasters’ Association and the Kansas Association of Broadcasters present an Ennes Workshop on Tuesday, Aug. 21, in Overland Park, KS. Topics include: Proper Wiring Techniques for Broadcasters; Tower Safety; Grounding and Lightning Protection; Workbench Topics; and Cybersecurity/Physical Security.

For the second year, the SBE will hold an Ennes Workshop during the Indiana Broadcasters Association conference in Indianapolis on Nov. 1.

Registration information for these workshops is listed on the SBE website. Two of them are being held this month, so register now.

Questions? Contact Education Director Cathy Orosz at 317-846-9000 or corosz@sbe.org. Interested in hosting an Ennes Workshop in 2019? Contact Cathy Orosz at 317-846-9000 or corosz@sbe.org.

sbe.org/education/wkshp
MARK YOUR CALENDAR

Ennes Workshop
Overland Park, KS
Aug. 21, 2018  sbe.org/education/EnnesKS
Webinar: Advanced RF Series
Online
Aug. 30, 2018  sbe.org/webinars
SBE National Meeting
Boston, MA
Oct. 2 - 3, 2018  sbe.org
WBA Broadcasters Clinic
Madison, WI
Oct. 16 - 18, 2018  wi-broadcasters.org
Ennes Workshop
Indianapolis
Nov. 1, 2018  sbe.org/education/wkshp
SBE Certification Exams
Local Chapters
Nov. 2 - 12, 2018  sbe.org/certification
Application deadline Sept. 24
SBE RF Safety Course
Online
Nov. 15, 2018  sbe.org/webinars
SBE Certification Exams
Local Chapters
Feb. 1 - 11, 2019  sbe.org/certification
Application deadline Dec. 31

MARK YOUR CALENDAR

Have a new job? Received a promotion?
Send your news to Chriss Scherer at cscherer@sbe.org.

Rich Redmond
Rich Redmond is president – managing director, international at GatesAir, Cincinnati.

Carl W. Davis, Jr., CPBE
Carl W. Davis, Jr., CPBE, has been awarded the 2018 NCAB Hall of Fame Award from the North Carolina Association of Broadcasters.

John Landry, CSRE
John Landry, CSRE, is chief operating officer/general manager at Sugar River Media/WCFR-AM/FM, Springfield, VT

LiveShot
Real-time ENG that goes beyond bonded cellular Live, two-way, HD video and audio over IP

Local TV Station
Newsgathering
WDAY goes further with Comrex LiveShot. For everything from local news to sports coverage, LiveShot’s size and versatility makes it easy to do more.

The mobility that LiveShot provides is incredible. We can do a shoot at the drop of a hat. It’s made my job as a news director better, it’s made our reporters better, and it’s made our programming better.

- Jeff Nelson, News Director

Want an in-depth look at WDAY’s setup?
Watch the case study at www.comrex.com/liveshot/wday

COMREX
1-978-784-1776
WWW.COMREX.COM