

Ted Hand Re-elected SBE President

The results of the SBE election of officers and directors are in. Ted D. Hand, CPBE, 8-VSB, AMD, ATSC3, DRB, was re-elected for a second one-year term as president, which commenced on Sept. 11, 2024. Ted is a member of SBE Chapter 45 Charlotte (North Carolina), and an SBE Fellow Member. He has been an SBE member since 1981. He has served in a variety of national roles since 2002.

Re-elected to vice president is Kevin Trueblood, CBRE, CBNT (Chapter 90 Southwest FL), for a second one-year term. Kevin previously served as SBE treasurer. Kevin has also served as SBE secretary and served one year on the Board of Directors.

Geary S. Morrill, CPBE, AMD, CBNE (Chapter 91 Central Michigan), has been elected treasurer. Geary has served on the SBE Board of Directors since 2019 and completed a one-year term as secretary.

Shane Toven, CPBE, DRB, CBNE (Chapter 43 Sacramento), has been elected to his first term as SBE secretary. He completed his third two-year term as a director, first being elected in 2018.

Elected to serve two-year terms on the board of directors, which also began Sept. 11 are:

- David Antoine, CBRE, CBNT; Chapter 15 New York City; Bronx, NY
- Greg Dahl, CPBE; Chapter 96 Rockford; Rockford, IL
- Dustin Hapli, CBNE; Chapter 26 Chicago; Buffalo Grove, IL

- Jeff Juniet, CBTE; Chapter 42 Central Florida; Orlando, FL
 - Sam Wallington, CPBE; Chapter 103 Nashville; Columbia, TN
 - Fred Willard, CPBE, 8-VSB, ATSC3, CBNT; Chapter 37 District of Columbia; Dunkirk, MD
- Antoine, Dahl and Willard were incumbents and were re-elected.

Those elected join the other six directors who have another year remaining in their terms:

- Terry Douds, CPBE; Chapter 52 Central Ohio; Lancaster, OH
 - Brad Humphries, CBT; Chapter 45 Charlotte; Charlotte, NC
 - Zhulieta Ibisheva, CBTE; Chapter 37 District of Columbia; Washington, DC
 - Charles "Ched" Keiler, CPBE, 8-VSB, ATSC3, CBNE; Chapter 53 South Florida; Deerfield Beach, FL
 - David Ratener, CPBE, CBNT; Chapter 16 Seattle; Kent, WA
 - Jeff Welton, CBRE; Chapter 100 Canada; Chester, NS
- Andrea Cummis, CBT (Chapter 15 New York City), continues to serve as immediate past president.



Hand

Ennes Educational Foundation Trust Awards Annual Scholarships

The Ennes Educational Foundation Trust has awarded five scholarships for 2024. The recipients were chosen from applications received by July 1, 2024, from the previous 12 months.

The Harold E. Ennes Scholarship, Robert D. Greenberg Scholarship, John H. Battison Founder's Scholarship and Gino Ricciardelli Scholarship are awarded to individuals interested in continuing or beginning their education in broadcast engineering and technology.

The Youth Scholarship is specifically for a graduating high school senior interested in broadcast engineering as a career. Each scholarship awarded this year is for \$3,000.

The Harold E. Ennes Scholarship recipient is Becky Meiers, CRO, from Sitka, AK. She grew up in Tallahassee, FL, and got her first job in radio at WVFS. Her career includes working at stations KBOO, KPAM, KFFP, and KCAW, and partnered with Common Frequency and Center for International Media Action. She plans to apply the scholarship to earn a Technologist Certification through NPR Distribution and attend the APRE Conference and NAB Show in 2025. She is currently building translators running on renewable energy in Southeast Alaska.

Receiving the Robert D. Greenberg Scholarship is Krystal Holland, CBT, from New York City, is working on her Master's in Information Technology at Pace University's Seidenberg School of Computer Science,

specializing in networking administration. Currently, she serves as a technical director at Spectrum News NY1. Her career includes work for the NHL, AMC Networks, and freelance work on "Madam Secretary," "Marvelous Mrs. Maisel," and "Billions." She is a

see [SCHOLARSHIPS](#), p. 14

ENNES

EDUCATIONAL
FOUNDATION TRUST™

IN THIS ISSUE

- 3 2025 Committee Chairs
- 4 Letter from the President
- 5 SBE Mentor Program
- 6 Certification Projects
- 8 AM Self-Inspection Guides
- 10 FM Regulatory Actions
- 12 PLC Project
- 14 Member Spotlight

Gear Up for Sports Remotes



Affordable Option: Bridge-IT II and ViA

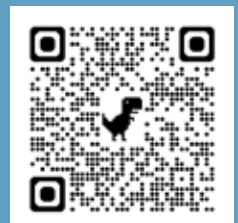
Gear up for summer and fall sports with Bridge-IT II - the ultimate affordable, high performance stereo IP audio codec and pair it with ViA, the sports remote broadcast dream machine. Both codecs support multiple network interfaces, hitless packet switching using SmartStream PLUS, Fuse-IP network bonding, plus connection backup.



Pro Option: Gateway 4 and ViA

Our pro option for covering sports includes the powerful Gateway 4 codec which supports 2 simultaneous stereo connections, or 4 mono connections. Gateway 4 includes dual NICs and dual AoIP ports, dual internal power supplies, plus multiple layers of redundancy with SmartStream PLUS, Fuse-IP and connection backup.

Features	Bridge-IT II	Gateway 4
Stereo, 2 x Mono	✓	✓
Triple mono, Stereo + Mono IFB, 2 x Stereo, 4 x Mono		✓
AoIP: AES67, SMPTE ST2110-30, Livewire +, Ravenna	✓	✓
AoIP: SMPTE ST2022-7, Ember+, WheatNet-IP, Dante		✓



Scan for more information

PRESIDENT

Ted Hand, CPBE, 8-VSB, AMD, ATSC3, DRB
Charlotte, NC
thand@sbe.org

VICE PRESIDENT

Kevin Trueblood, CBRE, CBNT
WGCU Public Media | Estero, FL
ktrueblood@sbe.org

SECRETARY

Shane Toven, CPBE, DRB, CBNE
ST Technologies | Antelope, CA
stoven@sbe.org

TREASURER

Geary Morrill, CPBE, AMD, DRB, CBNE
Alpha Media | Saginaw, MI
gmorrill@sbe.org

DIRECTORS

David Antoine, CBRE, CBNT
Broadcasters General Store | New York, NY
dantoine@sbe.org

Gregory Dahl, CPBE

Second Opinion Communications | Rockford, IL
gdahl@sbe.org

Terry Douds, CPBE

WOUB Public Media | Lancaster, OH
tdouds@sbe.org

Dustin Hapli, CBNE

Willis Tower | Buffalo Grove, IL
dhapli@sbe.org

Brad Humphries, CBT

Beasley Media Group | Charlotte, NC
bhumphries@sbe.org

Zhulieta Ibisheva, CBTE

NBCUniversal | Washington, DC
zibisheva@sbe.org

Jeff Juniet, CBTE

Cox Media Group | Orlando, FL
jjuniet@sbe.org

Charles "Ched" Keiler, CPBE, 8-VSB, ATSC3, CBNE

E Three Services; WPLG | Deerfield Beach, FL
ckeiler@sbe.org

David Ratener, CPBE, CBNT

Salem Media | Seattle, WA
dratener@sbe.org

Sam Wallington, CPBE

Educational Media Foundation | Columbia, TN
swallington@sbe.org

Jeff Welton, CBRE

Nautel | Chester, NS
jwelton@sbe.org

Fred Willard, CPBE, 8-VSB, ATSC3, CBNT

Univision | Washington, DC
fwillard@sbe.org

IMMEDIATE PAST PRESIDENT

Andrea Cummis, CBT, CTO

Key Code Media | West Orange, NJ
acummis@sbe.org

SBE NATIONAL STAFF

James Ragsdale | Executive Director
jragsdale@sbe.org

Megan E. Clappe | Certification Director
mclappe@sbe.org

Cathy Orosz | Education Director
corosz@sbe.org

Chriss Scherer, CPBE, CBNT
Member Communications Director
cscherer@sbe.org

Debbie Hennessey
Sustaining Membership Manager
dhennessey@sbe.org

Scott Jones | Database Manager
kjones@sbe.org

RJ Russell, CPBE, ATSC3, CBNT
Frequency Coordination Manager
rjrussell@sbe.org

The Signal is published bimonthly by the Society of Broadcast Engineers, Inc., 9102 North Meridian Street, Suite 150, Indianapolis, IN 46260. ©2024 Society of Broadcast Engineers, Inc. Editorial content and design: Chriss Scherer, 317-762-9723, cscherer@sbe.org. Advertising: Debbie Hennessey, dhennessey@sbe.org, 317-846-9000 SBE is a registered trademark of the Society of Broadcast Engineers.

SBE National Office
317-846-9000 www.sbe.org

SBE Committee Chairs Named for Coming Year

All officers and directors chair at least one SBE national committee. In some cases, a committee is chaired by someone not currently serving on the board. Here are the current SBE committee chair assignments.

Committee	Committee Chair
Awards	Terry Douds
By-Laws	Dustin Hapli
Certification	Ralph Hogan
Chapter Liaison	Jeff Juniet
EAS	Brad Humphries
Education	Geary Morrill
Electronic Communications	David Antoine
Fellowship	Vinny Lopez
Finance	Andrea Cummis
Frequency Coordination	Bob Weller
Government Relations	Ched Keiler
International	Zhulieta Ibisheva
Membership	Fred Willard
Mentoring	Pierre Jaspas
Nominations	Jeff Welton
Publications	Sam Wallington
Social Networking	Kevin Trueblood
Sustaining Membership	Gregory Dahl
Technologies	Shane Toven

SBE Election Board of Tellers

Chapter 25 • Indianapolis

Members of Chapter 25 served as the SBE Board of Tellers in the recent SBE election. Left to right: John Kocur, CBTE; Terry VanBibber; Josh Heymig and Bill Cherry. Thanks for serving.



Certification Question



CERTIFIED

Answer on page 6

Where should the FCC EAS Handbook be located?

- A. transmitter site
- B. control room
- C. control point
- D. newsroom



LETTER FROM THE PRESIDENT

By Ted Hand, CPBE, 8-VSB, AMD, ATSC3, DRB
SBE President
president@sbe.org

Forward to the Second Term

Greetings from North Carolina. We are into our second term with new officers and new board members. Kevin Trueblood was reelected as the Society's vice president, Geary Morrill has moved from Secretary to Treasurer, and Shane Toven is our new Secretary. I want to welcome our new board members. Dustin Hapli from Chapter 26 is from Buffalo Grove, IL, Sam Wallington from Chapter 103 calls Columbia, TN, his home, and we welcome back Jeff Juniet from Orlando, FL. I would like to thank Jason Ornellas, Mark Heller and Thomas McGinley for their service on the board. You will be missed.

In the election just passed, we had a strong outcome of voters, which is very good to see. I would like to make note that the Society primarily uses electronic balloting and will send paper ballots to any member who requests one or for those members without a valid email on file with the SBE. Let me add that the Society has no problem with sending paper ballots, but I must say here, the Indianapolis National Office mailed 332 paper ballots. Only 38 of them made it back to Indianapolis. I am curious to know what happen to the other 294. Material, printing, and postage cost about \$5 per mailed ballot. The board and I are charged with keeping society costs down, and I feel like this was \$1,660 lost money. Again, we are glad to mail paper ballots, but it would be nice to get them all back. I want to express that this is *my* opinion and not that of the board or the staff. If you feel I'm wrong here, talk to me about it, not them.

To the New Term

As the Board and I move into our new terms, I would like to thank them all for their work over the last year. The new committee chairs look forward to expanding and working for the good of their committees. A list of new committee chairs for the 2024-2025 term are listed in this issue of *The Signal*.

I feel we had a good Fall Membership meeting in Madison in September. The Midwest Regional Broadcasters Clinic is always a good trip, and it is good to see SBE members from the upper Midwest. The new officers and board members were installed, and we moved ahead on 2025 issues. We installed three new SBE Fellows this

year: Andrea Cummis of West Orange, NJ (Chapter 15), RJ Russell of Magnolia, DE (Chapter 18) and Conrad Trautmann of Trumbull, CT (Chapter 15). I congratulate all three for their service to SBE over the years.

We had a great list of award winners this year. The Robert W. Flanders SBE Engineer of the Year award was presented to James Dalke, CPBE, 8-VSB, AMD, CBNT, of Chapter 16 in Seattle, WA. The James C. Wulliman SBE Educator of the Year award recognized Larry Wilkins CPBE, AMD, CBNT, of Chapter 118, Montgomery, AL. The Technology Award was won by Telos for the EAS at the

Edge. There were many chapter awards also presented. Former SBE Executive Director John Poray, CAE, gave the evening keynote address, talking about the SBE's history as we celebrate 60 years since the organization was founded.

Meeting Members

I attended the Mount Wilson annual engineering gathering in Los Angeles this year. My thanks to Howard Fine for setting up the visit. RJ Russell and Bob Weller attended to discuss frequency coordination with the Department of Defense users in the 2 GHz band. Just a note to the membership: My trip used no SBE funds.

I also attended IBC in Amsterdam, the Netherlands in mid-September. It was good to show the SBE flag at this important annual broadcast convention. Again, I used no SBE funds for this trip. I am also planning a trip to Tashkent, Uzbekistan, in mid-October at the request and hospitality of Chapter 148 and Davit Robakidze. I will have pictures and details in my December letter.

Please remember, the SBE is always looking for mentors for the Mentor Program. If you have the time, please consider volunteering as one. If your time is limited, you can also serve as a subject matter expert and share your knowledge on a more limited basis. There's more about the Mentor Program covered in the Education Update in this issue. Contact the Indianapolis office for more information.

If you need anything, please contact the SBE staff at 317-846-9000 or via email. Addresses are available at sbe.org/contact. They are always ready to help you. If you have a comment or just want to say hey, I can be reached at president@sbe.org.



President Hand is sworn in for his second term as President. Regulatory Co-Counsel Noah Hock led the induction ceremony.

Want to be a mentor or a mentee?



Share your professional experience with someone who is newer to broadcast or multimedia technology. Get more info and join now:

sbe.org/mentor





EDUCATION UPDATE

By Geary Morrill, CPBE, AMD, DRB, CBNE
Chair, SBE Education Committee
gmorrill@sbe.org

A Salute to Mentorship

This October marks the eighth anniversary of the SBE Mentor Program. Designed to provide broadcast engineers who are new to the field a means to gain insight and work with a seasoned broadcast engineer who can share his or her acquired knowledge, SBE Board members Jeff Keith, CPBE, and Eric Schechter, CPBE, co-chaired the inaugural Mentor Committee in 2016.

On the launch of the program, then SBE President Jerry Massey, CPBE, 8-VSB, AMD, DRB, CBNT, said, "This program provides a fast-track for those SBE members who are new to broadcast engineering to gain practical insight and knowledge from some of our more experienced SBE members. Through this, we are able to tap the knowledge resource to grow an engineering talent resource."

In practice, mentor/mentee pairings are encouraged to communicate (by voice or video conference) on a regular planned basis, with the understanding a mentee may need to reach out between scheduled talks. In all but a few instances, the participant pair are not located in the same city. This arrangement worked especially well during the pandemic when personal meetings were discouraged in most locales.

The inaugural mentorship class consisted of 32 mentees and 18 member mentors. While pairings were initially set for one year, a few have been officially renewed annually, while others have stayed in touch informally. The mentor-mentee pairing is also an important component of the Technical Professional Training Program that launched January 2021.

In March 2022, the Mentor Program grew to exceed 100 participants, consisting of 49 mentors and 60 mentees – with 29 of the latter being participants in TPT training.

An additional level of mentoring was also created to provide specific expertise and insight as a resource to the mentor and his/her mentee. Now in its second year, the current Subject Matter Expert pool of 19 was developed by then Mentor Committee Chair Chris Tarr, CPBE, AMD, DRB, CBNE, and Education Director Cathy Orosz so that "Everyone Can Be A Mentor." These experts aren't assigned to any singular mentee long-term, but rather can be engaged by a primary mentor

to enhance their mentees experience in areas they might not have expertise in. Together these seasoned mentors can give something back to the next generation, and for the mentee, it's an ideal opportunity to gain inside knowledge and understanding that could otherwise take years to accumulate.

Heading into its ninth year, the SBE Mentor Program now has 104 participants: 41 mentors and 63 mentees, including 21 TPT mentees, nine of which joined this program year. For those considering becoming a mentor, there are increased need for those with a television background, as well as an acute need for mentors in the large markets of San Francisco, New York and Boston.

Among the committee's most recent efforts has been completion of a best prac-

tices document that provides guidance to participants. When SBE Mentor Committee Chair Pierre Jaspas, CSTE, was asked for his thoughts on the program, he said, "Mentorship is the invisible hand that shapes destinies. It's a partnership where wisdom and fresh ambition unite, forging paths to personal and professional greatness. Through mentorship, experience is transformed into a legacy, and potential is nurtured into achievement with the reward of seeing mentees excelling professionally."

More information on the SBE Mentor and Technical Professional Training Programs is available online (sbe.org/mentor and sbe.org/tpt), or by contacting SBE Education Director Cathy Orosz (corosz@sbe.org, 317-846-9000).

Mentor	Location
Matthew Anderson	Simi Valley, CA
Kevin Brooks	Farmington, MO
Greg Buchwald	Crystal Lake, IL
Stan Carter	Bogue Chitto, MS
Jeffrey Caudell	Seguin, TX
Isaiah Chavez	Largo, FL
Alan Colwell	Toledo, OH
Chuck Condron	Cordova, TN
James Corbin, II	McKinney, TX
Tom Dailey	Morrison, CO
Nelson T. Durfey	Coweta, OK
Andy Gladding	Brooklyn, NY
Michael Graziano	New Haven, CT
Dustin G. Hapli	Buffalo Grove, IL
Kirk A. Harnack	Nashville, TN
David Harris	Asheville, NC
Josh Heymig	Indianapolis, IN
Hal Hostetler	Tucson, AZ
Thomas Hurley	Pittsburgh, PA
Sajjad Hussain	Richmond, BC

Doug Irwin	Burbank, CA
Mark Jahnke	Lexington, SC
Pierre Jaspas	Miami, FL
Chuck Kelly	Noblesville, IN
Chris Lapp	Chatham, ON
James Leedham	Omaha, NE
John Mackey	Beaverton, OR
Tom McGinley	Missoula, MT
David Morgan	Norfolk, VA
Geary Morrill	Saginaw, MI
Mark Persons	Brainerd, MN
Ron Schacht	Redfield, SD
Arthur Smith	Temple, TX
Joe Snelson	Spring, TX
Charles E. Stutsman	Norfolk, VA
Christopher Tarr	Mukwonago, WI
John Van Milligan	Lakewood, CO
Len Watson	Wheaton, IL
George Werl	Minneapolis, MN
David C. Wright	Chapel Hill, NC
Tim Wright	Chicago, IL

Education Almanac

Webinars by SBE

- Oct. 10: Indoor Production Lighting for Broadcast Engineers – Part 4
- Oct. 17: Advanced Tactics for Cloud-Based Large Data Transfer
- Oct. 24: Using Network Analyzers in MoM Proofs
- Dec. 12: 2024 Workbench Tips, sponsored by SCMS

sbe.org/webinars

SBE Ennes Workshops

- Oct. 21: Wichita, KS
- Contact the SBE to arrange an SBE Ennes Workshop in your area.

sbe.org/ennes_workshop



For more information on any SBE education program click the Education tab at sbe.org, or contact Education Director Cathy Orosz at the SBE National Office at 317-846-9000 or corosz@sbe.org.



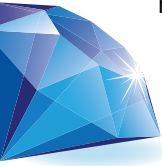
CERTIFICATION UPDATE

By Megan E. Clappe
SBE Certification Director
mclappe@sbe.org

Certification Projects Continue to Progress

The countdown has begun for seizing the opportunity offered by the SBE Diamond Project! In honor of the SBE's 60th anniversary, the Certification Committee is excited to present this special reinstatement program for expired certifications in 2024.

If your certification lapsed before January 1, 2023, but you've continued working in the industry, you may be eligible to have your certification reinstated without the need to retake an SBE certification exam. This initiative is a fantastic chance to renew your credentials without the need to retake the exam.



Applicants are required to complete the Diamond Project application and provide it with either a resume or a letter to the certification committee stating what he/she has done in broadcast engineering since the applicant's SBE certification expired. All SBE Certifications are included in the reinstatement program.

For more details and to access the application, go to sbe.org/diamondproject. Don't miss out on this exclusive opportunity to update your professional qualifications. The program ends Dec. 31, 2024.

CertPreview Update in Final Development Phase

The long-awaited launch of the revised SBE CertPreview is in sight. The new web-based CertPreview is undergoing its final test and checks. Once complete, the new version will replace the CD and downloadable versions.

The current version is incompatible with Macs, and over time, download and installation issues have been discovered overall. The new version eliminates all of that.

The updated platform is accessible from any device that can access the internet – Mac, PC, tablet, or phone – making it easier than ever for users to engage with the software. Furthermore, the SBE's

Certification Committee will be able to implement real-time updates without the need for users to download new versions. When questions are added or updated to CertPreview, those changes will be instantaneous to users.



The updated CertPreview features a sample SBE certification exam with 50 questions. The sample test can be taken multiple times, and the question pool will vary with each attempt, reflecting a range of topics. While CertPreview offers a solid preview of what to expect on the certification exams, it is important to note that the actual exams encompass a much bigger question pool.

To optimize your preparation, consider using the CertPreview as a tool to identify areas needing improvement. Following up with targeted study materials will enhance your readiness. Remember, most SBE exams are open-book, allowing you to use notes and internet resources during the test.

For those who recently purchased the downloadable version, a trade-in program will be offered. Details and eligibility are being determined.



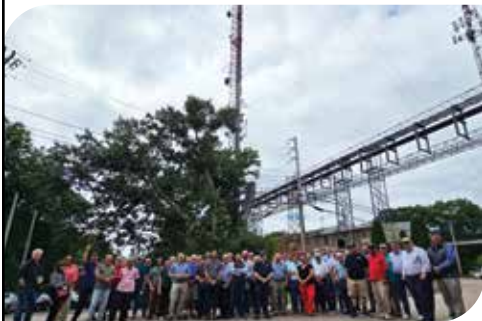
Answer from page 3

The answer is C

A copy of the FCC's *EAS Handbook* must be located at normal duty positions or EAS equipment locations when an operator is required to be on duty and be immediately available to staff responsible for authenticating messages and initiating actions. Separately, broadcast stations are no longer required to have a copy of their EAS state plan on file.

Chapter Check

It's no secret that chapter meetings have better attendance when food is provided. Several chapters hold annual picnics in the summer as well. Here are some chapter picnic photo from recent meetings.



▶ Chapter 59 • Kansas City

Chapter 59 Kansas City met on August 7 at the American Tower site in Independence, MO. American Tower hosted and provided lunch.



◀ Chapter 11 • Boston

Chapter 11 Boston held its first annual (hopefully) barbecue at the American Tower site in Needham Heights.



▶ Chapter 60 • Richmond

Chapter 60 Richmond held a picnic 23 Sesame Street. VPM Media Corporation hosted the space, and SCMS sponsored the picnic.




◀ Chapter 15 • New York City

Chapter 15 New York City held its summer barbecue on June 20.

SBE Certification Achievements

CONGRATULATIONS



LIFE CERTIFICATION	<p>Certified Professional Broadcast Engineer (CPBE) James Corbin, II, McKinney, TX - Chapter 67 Dennis Eversoll, Lenexa, KS - Chapter 59</p> <p>Certified Professional Broadcast Engineer (CPBE) 8-VSB Specialist (8-VSB) ATSC 3 Specialist (ATSC3) Timothy Stoffel, Reno, NV - Chapter 139</p>	<p>Certified Professional Broadcast Engineers and Certified Senior Broadcast Engineers who have maintained SBE certification continuously for 20 years, are at least 59½ years old and are current members of the SBE may be granted Life Certification if so requested. All certified who have retired from regular full-time employment and are at least 59½ years old may be granted Life Certification if they so request. If the request is approved, the person will continue in his/her current level of certification for life.</p>
CERTIFIED PROFESSIONAL BROADCAST ENGINEER	<p>Fletcher Garrett, Chicago, IL - Chapter 26</p>	<p>Applicants must have 20 years of professional broadcast engineering or related technologies experience in radio and/or television. The candidate must be currently certified on the Certified Senior Broadcast Engineer level.</p>
JUNE EXAMS	<p>Certified Senior Radio Engineer (CSRE) Kevin Potter, Walland, TN - Chapter 113</p> <p>Certified Video Engineer (CEV) Seamus Butcher, Somerville, MA - Chapter 11</p>	<p>Certified Broadcast Networking Engineer (CBNE) Mark Wittkoski, Coopersville, MI - Chapter 102</p> <p>Certified Broadcast Networking Technologist (CBNT) Edmund Hatch, Woodbridge, VA - Chapter 37 Thomas Missell, Bloomington, IN - Chapter 25 Robert Thompson, Grand Rapids, MI - Chapter 102</p>
AUGUST EXAMS	<p>Certified Senior Television Engineer (CSTE) Craig Fincher, Fort Worth, TX - Chapter 67</p> <p>Certified Broadcast Radio Engineer (CBRE) Matthew Higdon, Inglewood, CA - Chapter 47 William Staffan, Cincinnati, OH - Chapter 33</p>	<p>Certified Broadcast Television Engineer (CBTE) Gregory Balos, Moreno Valley, CA - Chapter 131 Jathniel Coronado, Los Angeles, CA - Chapter 131</p> <p>Certified Broadcast Networking Technologist (CBNT) Ava Day, Harrisburg, PA - Chapter 41 Darrin Frazier, Dale City, VA - Chapter 37 Courtney Hardy, Canton, OH - Chapter 70 Stephen Hoover, Pittston, PA - Chapter 2 Maximilian Vokoun, Gilbert, AZ - Chapter 9 Certified Broadcast Technologist (CBT) Mark Wendell, Van Nuys, CA - Chapter 47</p>
SPECIAL PROCTORED EXAMS	<p>Certified Broadcast Radio Engineer (CBRE) Justin Beltre, San Francisco, CA Joseph Yaeger, East Concord, NY</p>	 <p>Got your SBE Certification pin? sbe.org/pins</p>
CERTIFIED RADIO OPERATOR (CRO)	<p>Alec Barlow, Pingree Grove, IL</p>	
DIAMOND PROJECT	<p>Certified Professional Broadcast Engineer (CPBE) Paul Burnham, Poughkeepsie, NY - Chapter 58</p> <p>Certified Broadcast Networking Engineer (CBNE) Randall Hisle, APO, AP - Chapter 54</p>	<p>Certified Broadcast Television Engineer (CBTE) Randall Hisle, APO, AP - Chapter 54</p> <p>Certified Broadcast Networking Technologist (CBNT) Brad Jurrens, Chicago, IL - Chapter 109</p> <p>These applicants' certifications expired before Jan. 1, 2023. They recertified through the Diamond Project by completing the special application. sbe.org/diamondproject</p>
RECERTIFICATION Applicants completed the recertification process either by re-examination, point verification through the local chapters and national Certification Committee approval and/or met the service requirement.	<p>Certified Professional Broadcast Engineer (CPBE) John Bisset, Summerville, SC - Chapter 107 Debbie Jones, Corona, CA - Chapter 131 Marshall Rice, Troy, IL - Chapter 55</p> <p>Certified Professional Broadcast Engineer (CPBE) 8-VSB Specialist (8-VSB) AM Directional Specialist (AMD) Arthur Clardy, III, Lafayette, LA - Chapter 72</p> <p>Certified Senior Television Engineer (CSTE) Damon Prentice, Memphis, TN Gregg Richwine, Des Moines, IA - Chapter 109</p> <p>Certified Broadcast Networking Engineer (CBNE) Arthur Clardy, III, Lafayette, LA - Chapter 72 William Sewell, Norfolk, VA - Chapter 54</p> <p>Certified Broadcast Radio Engineer (CBRE) AM Directional Specialist (AMD) Robert Hailey, Tampa, FL - Chapter 39</p> <p>Certified Broadcast Radio Engineer (CBRE) Digital Radio Broadcast Specialist (DRB) Ralph Brancato, Festus, MO - Chapter 15</p>	<p>Certified Broadcast Radio Engineer (CBRE) Ernesto De La Rosa, Sr., Apodaca, NL Keith O'Malley, Chesapeake, VA - Chapter 54 Mark Voris, Omaha, NE - Chapter 74</p> <p>Certified Broadcast Television Engineer (CBTE) John Garmendi, Old Bridge, NJ - Chapter 15 Brandon Graham, Largo, FL - Chapter 39</p> <p>Certified Broadcast Television Engineer (CBTE) 8-VSB Specialist (8-VSB) Daniel Brown, Natick, MA - Chapter 11</p> <p>Certified Video Engineer (CEV) Michael Liebman, Brooklyn, NY - Chapter 15</p> <p>Certified Broadcast Networking Technologist (CBNT) Michael Baker, Norfolk, VA - Chapter 54 Daniel Brown, Natick, MA - Chapter 11 Robert Hailey, Tampa, FL - Chapter 39 Michael Liebman, Brooklyn, NY - Chapter 15</p> <p>Certified Broadcast Technologist (CBT) Francis Bobro, Jr., Scenery Hill, PA - Chapter 20 Isaiah Chavez, Largo, FL - Chapter 39 Todd Hausser, South Beloit, IL - Chapter 24 Mindy Hoffman, New York, NY - Chapter 15 Robert Holden, Powell, TN - Chapter 113 John Lorentz, New York, NY - Chapter 15 Wilson Middleton, Spokane, WA - Chapter 21 Mike Modney, Edmonton, AB Canada Kira Parker, South Burlington, VT - Chapter 115 Kevin White, Richland, WA - Chapter 51 Stephen Zelenko, Pittsburgh, PA - Chapter 20</p> <p>Certified Television Operator (CTO) Relah Eckstein, Tarazana, CA Clifford Pickell, Memphis, TN Philip Spina, Lake Worth Beach, FL</p> <p>Certified Radio Operator (CRO) Jennifer Abney, Tucson, AZ - Chapter 9 David Baker, Bettendorf, IA</p>

Ennes Scholarship Advances a Career

Recent graduate shares her thoughts on receiving an Ennes Educational Foundation Trust Robert D. Greenberg Scholarship in 2023

By Faith Pierce

I am a new graduate from Berklee College of Music online. The music production master's program focuses on advanced techniques in recording, mixing, and mastering. I also found the program to be extremely well-rounded including classes in vocal production, audio for visual media, and music business. I was most fascinated to learn about architectural, acoustic, and audio system design for studios as your recording and listening environment has a major influence on the quality of work you create. I became a better engineer, producer, and mixer as a result of the program.

As a current morning show producer for iHeartMedia, I've been able to directly apply these concepts to my work, elevating the show's presence for listeners and overall success. In the future, I hope to continue growing my career in broadcast with iHeartMedia and expanding my talents to other areas of audio such as sound for film. The Robert D. Greenberg Scholarship assisted me in the cost of tuition so that my ability to pay was not a barrier to my potential to learn. My master's degree has given me an abundance of new tools, and thanks to the Society of Broadcast Engineers, I am thrilled to put them into practice in my career.



Pierce

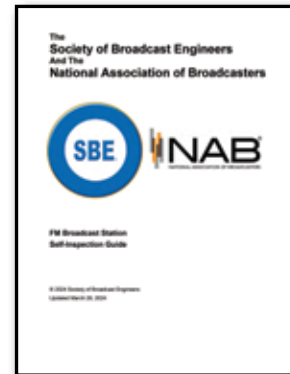
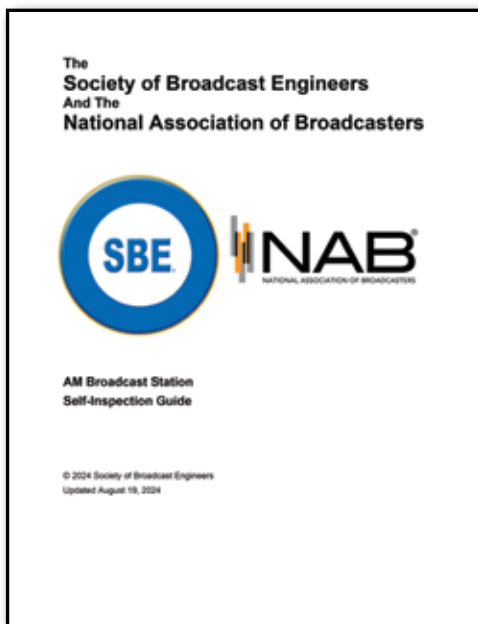
SBE Releases Broadcast Station Self-Inspection Guide for AM Stations

The SBE has released the latest addition to the Broadcast Station Self-Inspection Guides. The new Guide covers AM broadcast stations. The SBE released the FM and TV Guides in April 2024. The SBE partnered with the National Association of Broadcasters (NAB) to produce the Guides. These Guides are designed to aid stations and Alternative Broadcast Inspection Program (ABIP) inspectors in evaluating a broadcast station's compliance with FCC rules and regulations.

The Guides are being developed to replace the FCC Self-Inspection Checklists that were

first released in the 1990s, but had not been updated for nearly 15 years. While the previous Checklists only provided references to rules, the new SBE Guides include recommended practices for stations to establish policies and procedures for their own sta-

tions to ensure overall regulatory compliance. The SBE Government Relations Committee, chaired by Charles "Ched" Keiler, CPBE, 8-VSB, ATSC3, CBNE, formed a working group of SBE members in April 2022 to begin reviewing and updating the Guides. Additional Guides for other broadcast services are under review and will be released later. SBE President Ted Hand, CPBE, 8-VSB, AMD, ATSC3, DRB, said, "The SBE is proud to offer the next edition of the Self-Inspection Guides. There was great interest in the AM version at the 2024 NAB Show, and I commend the Committee for its work in producing this version." The Guides are available for download from the SBE website under the Legislative/Regulatory and Resources tabs. They are free to SBE members.



SBE WEBxtra

The SBE Chapter of the Web

The SBE WEBxtra is presented monthly, usually on the third Monday of the month. It's a chance to learn more about an SBE project or member benefit, career advancement, some interesting technology and more. It's like a virtual chapter meeting presentation.

Viewing the SBE WEBxtra qualifies for SBE recertification points as well.

Sponsorships are available.

sbe.org/webxtra



SBE Board Approves By-Laws Updates

At the SBE Board of Directors meetings in April and September, two amendments were proposed for the SBE By-Laws. Both were adopted by the Board.

At the April 2024 Board meeting, Article II, Section 3(f) was added to the By-Laws.

(f) Any Officer or Board member may be suspended for a period or expelled for cause, such as violation of any of the By-Laws or Canons of Ethics of the Society or for conduct prejudicial to the best interests of the Society. Such suspension or expulsion shall be by $\frac{3}{4}$ of the vote of the full membership of the Board of Directors, with the exception of the vote of the person proposed for suspension or expulsion. At least 15 days before a vote may be taken for the suspension or expulsion of an Officer or a Member of the Board of Directors, a statement of the charges against them and a notice of the time when and place where the Board of Directors proposes to take action must be sent to such Officer or a Member of Board of Directors by registered mail at their last recorded address; such Officer or a Member of Board of Directors shall be given an opportunity to present a defense at the time and place mentioned in the aforesaid notice. The outcome of the vote will not affect the membership status of said person.

Article II, Section 3(a) was amended to make it congruent with Section 3(f) on the vote requirement from being unanimous to requiring a $\frac{3}{4}$ majority vote. Pronouns (he) were also changed to be more inclusive (they/them). The changes are noted in **blue bold** text.

(a) Any Member may be suspended for a period or expelled for cause, such as violation of any of the By-Laws or Canons of Ethics of the Society or for conduct prejudicial to the best interests of the Society. Such suspension or expulsion shall be by **$\frac{3}{4}$ of the vote** of the full membership of the Board of Directors, with the exception of the vote of the person proposed for suspension or expulsion if **they** be a Member of the Board of Directors. At least 15 days before a vote may be taken for the suspension or expulsion of a Member, a statement of the charges against **them** and a notice of the time when and place where the Board of Directors proposes to take action must be sent to such Member by registered mail at their last recorded address; such Member shall be given an opportunity to present a defense at the time and place mentioned in the aforesaid notice.

SBE By-Laws require any changes to be communicated to the membership by mail or electronic means, which is the purpose of this article.

At the September 2024 Board meeting, Arti-

Chapter Check

Each year, the SBE encourages all chapters to recognize one of their own with the SBE chapter engineer of the year award. The SBE national office provides a plaque for the chapter to present. In 2024, seven chapters selected recipients. The recipients are automatically entered into consideration for the Robert W. Flanders SBE Broadcast Engineer of the Year Award.

▼ **Chapter 15
New York City**
Herb Squire, CSRE



▼ **Chapter 22 • Central New York**
Alan Jurison, CPBE, AMD, DRB, CBNE (I), receives his plaque from Chapter Chair Tom McNicholl, CBTE.



▲ **Chapter 38 • El Paso**
Mario Jimenez (I) receives his plaque from Chapter Chair Jose Castro.

▼ **Chapter 16 • Seattle**

James Dalke, CPBE, 8-VSB, AMD, CBNT (I) receives his plaque from Chapter Chair Brian Walker.



▲ **Chapter 17
Central Minnesota**
Taylor Barker (I) receives his plaque from Chapter Chair Mike Davison, CBNT .



▲ **Chapter 70 • Northeast Ohio**
Tracey Liston (r) receives his plaque from Chapter Chair Blake Thompson, CBNT.

▼ **Chapter 148 • Eastern Europe**
Davit Robakidze, CBTE, CTO



OBSTRUCTION LIGHTING ELEVATED



DRAKEWAY ENTERPRISES INC.

V2 HIGH INTENSITY SYSTEM

- ▶ GROUND-BASED POWER AND CONTROL COMPONENTS
- ▶ LIGHTWEIGHT FLASH HEADS
▶▶▶ REDUCED TOWER LOADING
- ▶ TOUCH SCREEN INTERFACE
- ▶ OPTIONAL PULL-OUT SCREEN
- ▶ IR COMPLIANT
- ▶ SBE PRESENTATIONS ZOOM OR LIVE

DRAKELIGHTING.COM | 800-732-9526



LEGAL PERSPECTIVE

By Coe Ramsey, Patrick Cross and Noah Hock
SBE Regulatory Counsels
cramsey@sbe.org, pccross@sbe.org, nhock@sbe.org

Recent Regulatory Actions Affecting FM Broadcasters

The broadcast technical and regulatory landscape is in constant flux, with ever-present inquiries, proposals and rule changes with the potential to alter broadcast operations on any number of levels. FM broadcasters have seen several such actions both pending and enacted in the past several months with the potential to impact their operations in particular.

Comments Mixed on Proposal for New FM Station Class A10

In June of this year, the FCC received a Petition for Rulemaking by Commander Communication Corporation urging the creation of a new FM station class A10. However, FCC-solicited comments on the recent proposal have been mixed.

The A10 Petition is reportedly meant to replace a Mississippi radio broadcaster's 2013 Petition for Rulemaking to create a new FM class C4 and argues that, if adopted, it will bring long-awaited improvements to the FM radio service while minimizing any interference concerns. The Petition proposes that the new Class A10 would allow a maximum facility of 10,000 watts at an antenna height above average terrain of 100 meters, and unlike the prior C4 proposal, which would have applied only to stations in Zone II, the A10 proposal would instead apply to all radio stations across the country.

Like the C4 proposal before it, however, the Petition has garnered mixed responses. Many commenters supported the proposal as a way to improve FM radio service, particularly in rural areas. However, comments in opposition raise concerns over potential interference risks, possible detrimental ramifications for LPFM and FM translators, and the likelihood that creating an A10 Class could increase the FM noise floor and degrade FM radio's overall quality. Various consulting engineers and firms – including Cohen, Dippell and Everist, P.C., T.Z. Sawyer Technical Consultants, and V-Soft

Communications – filed comments in the proceeding, with several expressing skepticism whether many stations would even qualify for the proposed class A10. Others, including NAB, have further taken the position that the Petition lacks critical information necessary to meaningfully assess the benefits and harms of the proposal and, in the absence of such information, encourage the Commission to carefully consider the possibility of increased interference attendant to permitting the proposed A10 class to be deployed nationwide.

The comment window on the Petition has now closed, and there is no specified timeline for the FCC to take further action.

Proposed FM Digital Power Increase Still Pending

Over the last several years the FCC has also been considering the possibility of increasing permitted power levels for digital FM broadcasts, though final action in the proceeding is still pending.

For more than a decade now, FM broadcasters have been permitted to implement digital broadcasts – transmitted in addition to a station's existing analog signal – via in-band/on-channel (IBOC) digital radio. Despite the promise of digital FM broadcasting, adoption – both within the broadcast industry and among consumers – has been slower than many had hoped. This ultimately led NAB, Xperi, and NPR to petition the FCC to (1) make more generous the formula currently used to determine the power levels of certain digital FM stations and (2) provide blanket authorization for digital FM radio stations to use asymmetrical sidebands (which in turn could help some stations obtain increased power levels).

The Commission has now received multiple rounds of public comments on this proposal, nearly all of which have been favorable. However, the most recent comment window – which was opened at the behest of a Petition for Clarification filed by NAB, Xperi, and NPR – only closed approximately four months ago. Thus, although the FCC has yet to issue a formal decision in the proceeding, proponents of the power increase petition remain hopeful that the FCC will act relatively soon.

The Fruits of Recent FCC Actions are Beginning to be Seen

The results of two recent FCC actions are beginning to be seen in broadcasters' communities.

At the end of last year, the FCC opened an application window – the first since 2013 – for new low power FM station construction permits. Since then, the Commission has been steadily granting many of these applications, and FCC licensing records suggest that, across the hundreds of new LPFM construction permits that have been awarded thus far, dozens of new LPFM stations have already been successfully constructed and licensed. Broadcasters can expect to see (and indeed may already be seeing) these new stations firing up in communities nationwide.

Additionally, in April the FCC authorized FM broadcasters, on an experimental basis, to use FM booster stations to air geotargeted content (e.g., news, weather, and advertisements) for up to three minutes during each broadcast hour – sometimes called zonecasting. The new rules went into effect in May, and GeoBroadcast Solutions (the proponent of the technology underlying such “program originating FM booster stations”) has announced that multiple stations in various markets have begun the process of deploying geotargeted boosters. At the same time, the underlying FCC proceeding remains ongoing as the Commission considers “permanent” rules for zonecasting.

SBE Sustaining Member National Meeting Sponsors

Thank you for your support.

Membership Meeting



Fellows Breakfast

Exhibit Booth Drawing



Awards Reception & Dinner





FOCUS ON THE SBE

By James Ragsdale
SBE Executive Director
jagsdale@sbe.org

A Return to Madison, WI and the Midwest Regional Broadcasters Clinic

The SBE National Meeting made a return to Madison, WI, in September. We held our events in conjunction with the Midwest Regional Broadcasters Clinic, a collaborative effort between the engineers of the Wisconsin Broadcasters Association and the Minnesota Broadcasters Association. The Clinic, started 68 years ago, has been rebranded to reflect its reach. The event was well attended, with participants from at least 34 states, as well as from Canada, Germany, and the Republic of Georgia.

The Clinic has been a popular and successful regional event for many years, and we were pleased to be a part of it this year. Our thanks to the Board of the Wisconsin Broadcasters Association, President Michelle Vetterkind, and Vice President Kyle Geissler, as well as the Minnesota Broadcasters Association, President Wendy Paulson, and Director of Operations & Member Services Tim Hyde. Also, to the Clinic Committee, chaired by SBE member Jim Steinhart and to the four chapters of Wisconsin and their chairs: Russ Awe, Chapter 24 Madison; Chris Tarr, CPBE, AMD, DRB, CBNE, Chapter 28 Milwaukee; Matthew Converse, CBRE, Chapter 80 Fox Valley; and Todd Zschernitz, Chapter 112 Western Wisconsin; as well as Chapter 17 Central Minnesota, chaired by Michael Davison, CBNT, for hosting us.

The SBE Annual Membership Meeting, one of the primary events of the National Meeting, is posted to the SBE YouTube Channel. The membership meeting featured the induction of the 2024-2025 Board and recognition of outgoing members of the Board. SBE President Ted Hand discussed the ongoing project that the SBE has undertaken creating Broadcast Station Self-Inspection Guides. In the spring, the SBE announced the creation of the FM and TV guides. In September, we released the AM Guide. The membership meeting also included updates on the Society's education and certification programs, membership and finances.



The new Board of Directors were sworn in during the Membership Meeting.

The national SBE Board of Directors governs the Society, overseeing and determining programs and allocating resources that benefit SBE members. This past election the ballot fielded eight candidates, and though only six director seats were available, all eight would have made productive contributions. We thank all the candidates who ran for office and who were willing to serve if elected. The SBE is fortunate to have so many dedicated members who voluntarily serve at all levels of the organization.

Ted Hand returns as president and previously served on the Board as vice-president, treasurer, secretary and as a director, as well as

a past chair of the Frequency Coordination Committee. He is active with Chapter 45 in Charlotte and stays connected to his previous chapter in Norfolk, VA.

Returning as the vice president is Kevin Trueblood, CBRE, CBNT, of Chapter 90 Southwest Florida; Estero, FL. Kevin is associate general manager for technology & operations for WGPU Public Media and operates a broadcast technology contracting service. Kevin served the society as a local chapter chair for several years and joined the Board of Directors in 2017. In 2019 he was appointed as secretary, then served as treasurer, and since last year as vice president. Prior to moving to Florida, he worked in engineering at Wisconsin Public Radio. He was active in Chapter 24 in Madison where he served as chapter chair and treasurer.



Former SBE Executive Director John Poray provided the Awards Dinner keynote.

Elected as treasurer is Geary Morrill, CPBE, AMD, CBNE. Geary previously served as SBE secretary. He also served the society in leadership roles in Chapter 91 Central Michigan since its 1984 chartering, as an officer and as certification chair for the past decade. Geary also currently serves as chair of the SBE Education Committee, overseeing the continued growth in Webinars by SBE. Geary served as chair of Michigan Association of Broadcasters Engineering Committee and on the program committee of the five-state Midwest Broadcast & Multimedia Technology Conference, held in Columbus, Ohio.

Shane Toven begins his first term as SBE secretary. Shane has been in the field of broadcast engineering for over 30 years. His experience spans the gamut from small community broadcasters, to large nationwide networks. He understands the needs of broadcasters, and the specific challenges they face.

As you can see, our SBE officers have many years of experience in broadcast engineering as well as in SBE leadership roles. They are joined by 12 directors, six of whom were elected this summer and six others who return to serve the second year of their two-year terms.

Completing the Board will be Andrea Cummis, CBT, CTO, who will serve another term in the role of immediate past president. Andrea also serves as the chair of the Finance Committee. Andrea was recently elected to the membership grade of Fellow by the SBE Board of Directors, the highest membership level in the SBE. Andrea is active in Chapter 15 New York City. Andrea is the principal architect of Key Code Media, West Orange, NJ, and became an SBE member in 1996. She has served on the SBE Board of Directors as president, vice president, treasurer and as a director several times.

I hope that I was able to see some of you at the National Meeting in Madison, but if you weren't able to be there, please watch the Annual Membership Meeting webcast on the SBE YouTube Channel (sbe.org/youtube).



ENGINEERING PERSPECTIVE

Lynn Duke
Contract Engineer
lduke@sbe.org

PLCs In Custom Broadcast Applications

I retired in 2020, after 51 years in radio engineering. I was fortunate enough to work for some of the largest AM and FM stations on the West Coast: RKO General, Beasley, Infinity, CBS Radio and Entercom. I held positions from staff engineer to market chief. I currently do part-time work for several stations in Los Angeles.

One thing I ran into repeatedly was commercial equipment that did almost what we wanted, but not quite. Specifically, I'm referring to equipment installed at transmitter sites to handle switching between main and backup transmitters, antennas and audio sources. So often, the available devices do the basic functions, but not everything we would want.

Over the years, we ended up building a lot of custom equipment using CMOS logic and mechanical relays. Although this equipment was reliable and did what we wanted, it also involved custom circuit boards and a lot of tedious point-to-point wiring. One of my concerns was what would happen with this equipment after I was no longer there to maintain it. The custom boards were compli-

eral languages. PLCs are reliable and rugged. They can have logic inputs and outputs that are opto-isolated and A to D inputs for sampling voltages, currents, temperatures and other parameters. They are available with dry relay contact outputs for switching significant amounts of current. Some of the more recent versions can be controlled via web interfaces and HUIs on touchscreens.

Learning PLCs

I learned how to program PLCs using the free online videos from companies like Automation Direct. Although the practices are specific to PLCs, they are easy to learn and once you understand a few basic concepts, it's simple enough to make them do

or FM coaxial relays and transmitter on/off controls. They also handle automatic transmitter failover, call-out alarm reporting, dummy load fan control, interlocks and modulation monitor RF sample switching. Some of these switchers include features that prevent switching to a transmitter that isn't working properly or isn't ready, eliminating some possible off-air time.

The audio switchers also handle the basic switching functions between STL feeds and emergency source equipment and automat-



The front panel, rear panel, and interior of Lynn's PLC transmitter controller.

ic failover. The STL feeds are monitored for audio silence as well as failure of the actual RF or IP link. One of the features I have included is logic that determines if the problem with an STL audio source is really the link or just a "dead air event" caused by operator error or an automation problem at the studio. This helps to avoid

what you want.

I began by learning a programming language called Ladder Logic. Ladder Logic is commonly used in diagrams for electrical systems and

some unnecessary source switching.

One feature I feel is important in transmitter site equipment is the ability to enable or disable automatic failover features via remote control. It's ironic when something designed to help a station recover from an equipment failure creates a failure because the automatic functions can't be disabled.

When designing equipment for mission critical on-air systems, it's important to verify that it does what's intended. For this reason, thorough offline testing before custom equipment is put into service is part of the process.

Since PLCs are commonly used in industrial applications, are relatively inexpensive and have proven themselves reliable, the chances are good they will be around for some time to come. Because PLC programming is easy to learn, there is less likelihood that the devices I am building now will become unusable or obsolete once I am fully retired and not here to deal with it.

cated, and in a lot of cases hard for someone to understand if they weren't involved in the design.

In 2016 I began researching how programmable logic controllers are used in industry and how they might be applied to solve problems in broadcasting. PLCs have been the tool of choice for controlling large industrial systems for a long time. This includes assembly lines, air conditioning facilities, traffic signals and subways. PLCs are manufactured by many different companies and are readily available. They come in different form factors and can be programmed using sev-

appliance. It allows you to program control and monitoring functions on a common PC, using objects that look and behave like relay coils, switch contacts, counters, comparators and timers. Once the design is finished, the software I use compiles the program to Boolean Code and uploads it to run on the control module.

I have completed projects for several stations in Los Angeles, and we have been happy with the result. The transmitter and antenna switchers are very specific to each station's needs. They handle the basic functions like controlling AM RF contactors

Alabama Broadcasters Association • 2024
Sharon Tinsley 205-982-5001
Alabama Association for Radio & TV Broadcasters

American Amplifier Technology/Shively Labs • 1996
Steve Wilde 916-978-1899
Quality Broadcast Products

American Tower Corporation • 2000
Tiffany Yu 603-930-9091
Development/Construction/Management

ANCO Wireless • 2024
Scott Gordon 605-496-3475
Broadcast Tower Construction Maintenance

Aqua Broadcast • 2024
Brendan Loftly +44 203411 0387
COBALT FM Transmitters

Arkansas Broadcasters Association • 2024
Neal Glander 501-227-7564
Arkansas Association for Radio and TV Broadcasters

Barnfind-USA, Inc. • 2021
George Gonos 919-748-7373
Fiber Transport Solutions

Blackmagic Design • 2012
Terry Frechette 408-954-0500
Production Switchers, Digital Cameras, Routers, Video Editing and Monitoring, Color Correction, Video Converters

Bracke Manufacturing LLC • 2012
Patra Largent 949-756-1600
RF & Microwave Components

Broadcast Depot • 2018
Tim Jobe 305-281-7540
TV, Satellite, Radio, IP

Broadcast Devices, Inc. • 2015
Robert Tarsio 914-737-5032
Audio/RF Support Products

Broadcast Electronics Inc. • 1978
Perry Priestley 217-224-9600
Radio Equipment Manufacturer

Broadcast Software International • 2016
Marie Summers 541-338-8588
Radio Automation, Audio Logging

Broadcast Supply Worldwide • 1986
Brian Walker 800-426-8434
Audio Broadcast Equipment Supplier

Broadcasters General Store • 2004
Karyl Kerstin McBride 352-622-7700
Broadcast Audio Video Distributor

Burk Technology • 2019
Matt Leland 978-486-0086 x703
Transmitter Facility Control Systems

Cavell, Mertz & Associates Inc., a Division of Capitol Airspace Group, LLC • 2011
Gary Cavell 703-392-9090
Consulting Services

Comrex Corporation • 1997
Chris Crump 978-784-1776
Audio & Video Codecs & Telephone Interfaces

Continental Electronics • 1976
Dale Dalesio 412-979-3253
TV and Radio Transmitters

Crawford Broadcasting Company • 2021
Cris Alexander 303-481-1800
Media Company

CueScript • 2014
Michael Accardi 203-763-4030
Teleprompting Software & Hardware

Cumulus Media, Inc. • 2021
Conrad Trautmann 212-419-2940
Audio Media Company

Davicom, Division of Comlab, Inc. • 2014
Louis-Charles Cuierrier 418-682-3380 x512
Remote Site Monitoring and Control Systems

Dielectric • 1995
Cory Edwards 207-655-8131
Radio & TV Antenna Systems and Monitoring

Digital Alert Systems, LLC • 2005
Bill Robertson 585-765-1155
Emergency Alert Systems

Drake Lighting • 2015
Dave Sheppard 270-804-7383
FAA Obstruction Lighting - Medium and High Intensity

Econco • 1980
Debbie Storz 800-532-6626
530-662-7553
New & Rebuilt Transmitting Tubes

ENCO Systems Inc. • 2003
Samantha Bortz 248-827-4440
Playout and Automation Solutions

ERI - Electronics Research • 1990
Zachary Bailey 812-925-6000
Broadcast Antennas, Transmission Line, Filters/Combiners, Towers and Services

Floral Systems • 2008
Shawn Maynard 877-774-1058
Television Broadcast Automation

GatesAir • 1977
Mark Goins 513-459-3710
Radio/TV Transmitters, STL Codecs

Georgia Association of Broadcasters, Inc. • 2024
Allison Fulton 770-395-7200
Georgia Association for Radio & TV Broadcasters

Heartland Video Systems, Inc. • 2011
Dennis Klas 920-893-4204
Systems Integrator

Hitachi Kokusai Electric Comark • 2013
Jack McNulty 413-998-1523
Manufacturer Broadcasting Transmission Equipment

Indiana Broadcasters Association • 2019
Dave Arland 317-701-0084
Indiana Association for Radio & TV Broadcasters

Inovonics Inc. • 2012
Gary Lührman 831-458-0552
Radio Broadcast Equipment

Iowa Broadcasters Association • 2024
Lisa Reynolds 515-224-7237
Iowa Association for Radio and TV Broadcasters

Jampro Antennas Inc. • 2011
Alex Perchevitch 916-383-1177
DTV, FM-HD Radio, DVB-T/T2, ISDB-T, DAB

Kathrein USA Inc. • 1985
Les Kutasi 541-879-2312
Antennas for Broadcasting & Communications

Kentucky Broadcasters Association • 2024
Roger Gribbins 502-460-6712
Kentucky Association for Radio & TV Broadcasters

latakoo • 2021
Paul Adrian 214-683-0791
Media Workflow Automation

LBA Technology Inc. • 2002
Jerry Brown 252-757-0279 x228
AM/MW Antenna Equipment & Systems

Leeward Software • 2019
Nigel Brownett 310-405-0839
Manage. Monitor. Control

Linkup Communications Corporation • 2017
Mark Johnson 703-217-8290
Satellite Technology Solutions

LumenServe • 2023
Bear Poth 512-423-8323
Tower Lighting

LYNX Technik • 2007
Steve Russell 661-251-8600
Broadcast Terminal Equipment Manufacturer

Markertek • 2002
Adam June 845-246-2357
Specialized Broadcast & Pro-Audio Supplier

Maryland/DC/Delaware Broadcasters Association • 2024
Lisa Reynolds 919-714-7400
Maryland/DC/Delaware Association for Radio and TV Broadcasters

MASV • 2024
Jon Riis 613-299-4253
Large File Transfer

Michigan Association of Broadcasters • 2024
Dan Kelley 517-484-7449
Michigan Association for Radio and TV Broadcasters

Micronet Communications Inc. • 2005
Jeremy Lewis 972-422-7200
Coordination Services/Frequency Planning

Minnesota Broadcasters Association • 2024
Wendy Paulson 612-926-8123
Minnesota Association for Radio and TV Broadcasters

Missouri Broadcasters Association • 2024
Terry Harper 573-636-6692
Missouri Association for Radio & TV Broadcasters

Montana Broadcasters Association • 2024
Dewey Bruce 406-431-2139
Montana Association for Radio and TV Broadcasters

Moseley Associates Inc. • 1977
Bill Gould 805-968-9621 x785
Digital STLs for Radio and Television

MSWLab • 2024
Michael Wells 806-433-2923
Broadcast IT Consulting Engineer

MusicMaster • 2014
Jerry Butler 352-231-8922
Advanced Music Scheduling Solutions

National Association of Broadcasters • 1981
Industry Trade Association 202-429-5340

National Football League • 1999
Ralph Beaver 813-282-8612
Game Day Coordination Operations

Nautel Inc. • 2002
Jeff Welton 877-662-8835
Radio Broadcast Transmitter Manufacturer

Nebraska Broadcasters Association • 2024
Jim Timm 402-933-5995
Nebraska Association for Radio and TV Broadcasters

Nemal Electronics Int'l Inc. • 2011
Benjamin L. Nemser 305-899-0900
Cables, Connectors, Assemblies and Fiber Optic

New Mexico Broadcasters Association • 2024
Monica Armenta 505-881-4444
New Mexico Association for Radio and TV Broadcasters

North Carolina Association of Broadcasters • 2024
Lisa Reynolds 919-821-7300
North Carolina Association for Radio and TV Broadcasters

North Dakota Broadcasters Association • 2024
Beth Helfrich 701-471-9147
North Dakota Association for Radio and TV Broadcasters

Ohio Association of Broadcasters • 2024
Christine H. Merritt 614-228-4052
Ohio Association for Radio & TV Broadcasters

Orban Labs, Inc. • 2011
Mike Pappas 480-403-8300
Audio Processing AMFMTV

Potomac Instruments • 1978
Zachary Babendreier 301-696-5550
RF Measurement Equipment Manufacturer

ProAudio.com - A Crouse-Kimzey Co. • 2008
Mark Bradford 800-433-2105 x560
Proaudio Broadcast Equipment Distributor

Propagation Systems Inc. - PSI • 2010
Doug Ross 814-472-5540
Quality Broadcast Antenna Systems

Quintech Electronics and Communications Inc. • 2002
James Herbstritt 724-349-1412
State-of-the-art RF Hardware Solutions

QVC • 2011
Chris Alexy 484-701-3431
Multimedia Retailer

Rohde & Schwarz • 2003
Walt Gumbert 724-693-8171
Transmitters, Test & Measurement, Video

Ross Video Ltd. • 2000
Jared Schatz 613-228-0688
Manufacturer, Television Broadcast Equipment

Sage Alerting Systems Inc. • 2010
Harold Price 914-872-4069 x113
Emergency Alert Systems Products

SCMS Inc. • 2000
Bob Cauthen 800-438-6040
Audio and RF Broadcast Equipment Supplier

Sierra Automated Systems and Eng. Inc. • 2011
Al Salci 818-840-6749
Routers, Mixers, Consoles, Intercoms

South Carolina Broadcasters Association • 2024
Dody Yarborough 803-732-1186
South Carolina Association for Radio and TV Broadcasters

South Dakota Broadcasters Association • 2024
Steve Willard 605-224-1034
South Dakota Association for Radio & TV Broadcasters

Staco Energy Products Co. • 2010
Paul Heiligenberg 937-253-1191 x128
Manufacturer of Voltage Regulators, UPS

Sutro Tower Inc. • 1989
Raul Velez 415-681-8850
Broadcast Tower Leasing



Synthax Inc. • 2020
Brittany Hilton 754-206-4220
Audio Codecs and Converter Solutions

TBC Consoles • 2023
Steve Struhs 631-293-4068
Technical Furniture for Broadcast/AV

Technical Broadcast Solutions, Inc. • 2018
Robert Russell 302-414-0055
Engineering and Consulting Services

Telestream • 2013
Bryn McFadden 530-470-1300
Video and Workflow Solutions

Televs USA, LLC • 2021
Andy Ruffin 937-475-7255
Antennas Transmitters Measurement Distribution

Telos Systems/Omnia/Axia • 2003
John Bisset 216-241-7225
Talk-Show Systems

Tennessee Association of Broadcasters • 2024
Chris Baker 615-365-1840
Tennessee Association for Radio and TV Broadcasters

Teradek • 2011
Jon Landman 949-743-5783
Camera-top ENG Solutions

Texas Association of Broadcasters • 2024
Sydney Haisler Herrmann 512-322-9944
Texas Association for Radio & TV Broadcasters

Tieline The Codec Company • 2003
Dawn Shewmaker or Jacob Daniluck 317-845-8000
Audio Codec Manufacturer

Unimar Inc. • 2001
Jay Tyler 315-699-4400
Tower Obstruction Lighting Designer, Manufacturer, Distributor

Virginia Association of Broadcasters • 2024
Douglas Easter 434-326-9819
Virginia Association for Radio and TV Broadcasters

Wheatstone • 2010
Jay Tyler 252-638-7000
IP Consoles, Routers & Processors

WideOrbit • 2012
Brad Young 415-675-6700
Radio Automation and Playout

Wisconsin Broadcasters Association • 2024
Michelle Vetterkind 608-255-2600
Wisconsin Association for Radio & TV Broadcasters

Members With 25 or More Years of Membership New Sustaining Members
Become a sustaining member.
Apply online or call 317-846-9000.

Member Spotlight: Lance Harper

Member Stats

SBE Member Since: 2021

Employer: LAist/Southern California Public Radio

Position: Chief Engineer

Location: Pasadena, CA

Chapter: 47, Los Angeles

I'm Best Known For: Fixing anything: equipment, software, plumbing, automotive, woodwork, lighting, gridding concrete, construction, sewing on buttons...

Q. *What do you enjoy or value most about your SBE involvement?*

A. Meeting and hanging out with like-minded obsessives who love technology, science, always looking for better ways to do things and never be satisfied with how it's done now.

Q. *What got you started in broadcast engineering?*

A. When I was about six I got the AM Broadcast kit from Radio Shack for Christmas, and after that I wanted to understand how and why and really never stopped building and learning.

Q. *Who was your mentor or who do you admire?*

A. Ed Hollis, the CE before me, showed me a lot of the things in the job that helped me beyond the technical.



Above: Just another day on the job for Lance. Left: Taking to the road.

of it some things going to break or die. Something or someone is relying on you.

Q. *What's your favorite gadget?*

A. My Anritsu spectrum/network analyzer, Bosch SDS drill, propane weed burner.

Q. *What do you like most about your job?*

A. No day is the same, there are always challenges, and believe it or not interacting with the listeners.

Q. *When I'm not working I...*

A. ...am hanging out with my family, cycling, woodworking (not great at it, but it is relaxing), electronics, microcontrollers. I know; surprising.

Q. *What's something people don't know about you?*

A. I spent the first 18 years of my life growing up on a 1,000-acre Oregon State University research turkey farm that had 5,000 turkeys at any given time. I believe this and my dad gave me my work ethic. Sometimes when the job requires to just do it! The job doesn't care if it's the night, or the weekend, or if it's snowing, raining and muddy outside. If you don't go take care

SCHOLARSHIPS, from p. 1



Meiers

member of the SBE and the National Association of Black Journalists. Her scholarship will support her graduate studies.

The John H. Battison SBE Founder's Scholarship has been awarded to Nicholas Reed, a senior at the University of Tennessee Knoxville studying journalism and electronic media. He has worked as a student engineer and camera operator for ESPN's SEC Network for the past three years. He also works at Family Radio as an IT analyst, assisting with AoIP and automation software. He plans to pursue a video or radio engineer role when he graduates in May 2025.



Reed

The Gino Ricciardelli Scholarship has been awarded to Juan Pinilla, who was born in Curitiba, Brazil, to Colombian parents and moved to Barranquilla, Colombia, at the age of four and to the USA at the age of 15. His introduction with media technology began with the audiovisual team at his parents' church. In ninth grade he joined his high school's TV studio club and later joined the production team at a large Manhattan church. He is pursuing a degree

in television production at The Lawrence Herbert School of Communication at Hofstra University and works at the student-run radio station, WRHU, and Hofstra's TV streaming network, the Heat Network. He also freelances at an arena in Elmont, NY.

Megan Athey received the Youth Scholarship. She attends Wesleyan University in Middletown, CT, where she is a film studies major. Her concentration is on learning the intricacies of film and broadcasting technology and its relation to the profession as a whole.

SBE President Ted Hand, CPBE, 8-VSB, AMD, ATSC3, DRB, said, "Education is one of the pillars of the SBE, and the Ennes Scholarships are just one part of our overall education efforts. The SBE encourages young people to pursue careers in broadcast and media technology, and we look forward to seeing the great progress of these five budding engineers as they expand their education and develop their careers."



Pinilla



Holland



Athey

The Harold Ennes Scholarship Fund Trust was initiated by Indianapolis Chapter 25 in 1980 in memory of Harold E. Ennes, author of many textbooks for broadcast and broadcast-related communications training and a member of the Indianapolis chapter. Ennes was a member of the SBE's national Certification Committee and made many contributions to the early development of the Certification Program. To encourage greater growth, the Scholarship Trust was transferred by Chapter 25 to the SBE national organization to administer in 1981. The name of the Trust was changed in 1995 to the "Harold Ennes Educational Foundation Trust" to fully embrace its expanded role.

WELCOME TO THE SBE

NEW MEMBERS

Brian L. Adams - Kismet, KS
 Angela C. Alarcon - New Carrollton, MD
 Gary V. Baker - Fort Worth, TX
 Cole M. Bradley - Overland Park, KS
 Halley K. Clark - Las Vegas, NV
 Matthew Crowder - Bristol, TN
 Richard Crowley - Hillsboro, OR
 Benjamin C. Doyle - Portland, OR
 Samantha C. Duplissey - Millersville, PA
 Justin A. Eaton - Glenville, PA
 Cher Hui Sean Eng - Singapore, SG
 Peter J. Farrough - South Bend, IN
 Hilary R. Gamble - Fayetteville, AR

Christopher M. Giles - Greensboro, NC
 James C. Gillen, Jr. - Lima, OH
 Daniel E. Giltinan - Denver, CO
 Brent Green - Lakeland, TN
 Alexander J. Hagopian - Millersville, MD
 Jared D. Hansen - Stevensville, MT
 Jay D. Hennigan - Lyons, OR
 Crispin L. Hill - Fredericksburg, VA
 Ralph A. Ilagan - Scarborough, ON
 Christopher J. Kelly - Quincy, MA
 Robert Lance - Washington, DC
 Jason T. Li - Seattle, WA
 David Lukasik - Rochester, NY

Chancelor LE Maracle - Kingston, ON
 Dara J. Metcalfe - Clarkston, GA
 Andrew Molzhon - Weatherford, OK
 Armando Montiel, Jr. - Laredo, TX
 George Moore - Cusseta, GA
 Russell L. Myers - Albuquerque, NM
 Francis T. Niabo - Frederick, MD
 Celso Ortuno - Stone Mountain, GA
 Denzel S. Owens - Birmingham, AL
 Jay Paul - Chicopee, MA
 Stephanie Petty - Nashville, TN
 Jay Pierce - St. Louis, MO
 Jillian Plante - Prospect, CT

Daniel Poole - Bozeman, MT
 Orion W. Rankin - Mountain View, HI
 Daniel A. Runyan - Boise, ID
 Kriston W. Saunders - Buffalo, NY
 Richard M. Shepherd - Augusta, GA
 Mark Stennett - Georgetown, TX
 Kennedy M. Tariela - Dubai, UAE
 Ferdinand S. Tolentino - Alameda, CA
 Mike Torrisi - Albuquerque, NM
 Michael Vasile - Rochester, NY
 Michael S. Walton - Killen, AL
 Jessie J. Watkins - Memphis, TN
 James Weaver - Millsboro, DE

NEW STUDENT MEMBERS

Sean P. Glennon - Kennesaw, GA
 Michael R. Holt - Kuna, ID
 Eric M. Mutumbu - Lewiston, ME
 Benjamin MT Riehl - Montreal, QC
 Ethan W. Robertson - Boise, ID
 Sebastian Robledo - Austin, TX

RETURNING SENIOR MEMBERS

Paul J. Burnham - Poughkeepsie, NY

NEW ASSOCIATE MEMBERS

Travis V. Allred - Danville, AL
 Wayne Smith, PhD - Van Nuys, CA

RETURNING MEMBERS

Wes Albury - Chicago, IL
 Christopher B. Benton - Ellenwood, GA
 Terence M. Bolden - Odenton, MD
 Brent R. Bolinger - Lees Summit, MO
 Joseph S. Calkins - Pensacola, FL
 Nathaniel Cantu - Chicago, IL
 John J. Cappuccino - Toms River, NJ
 Scott A. Clifton - Naperville, IL

Clarence D. Copeland - Baton Rouge, LA
 Kimbal L. Fatica - Cuyahoga Falls, OH
 Nicholas S. Geist - Houston, TX
 David A. Goosey - Largo, FL
 Blake G. Haynes - Ridgeland, MS
 Jaime Hernandez - Los Angeles, CA
 Joshua A. Knapp - Raleigh, NC
 Michael L. Maciejewski - Grand Rapids, MI

Tom Matthews - Tallahassee, FL
 Michael A. McNeil - Bosque Farms, NM
 Dennis J. McSorley - Eau Claire, WI
 Ben Slagle - North Lima, OH
 Shawn D. Smith - Cambridge, ON
 Cameron Stuckey - New York, NY
 Christopher S. Tracy - Palmer, MA
 Charles M. Vedral - Baltimore, MD

NEW STUDENT MEMBERS

Sean P. Glennon - Kennesaw, GA
 Michael R. Holt - Kuna, ID
 Eric M. Mutumbu - Lewiston, ME

Benjamin MT Riehl - Montreal, QC
 Ethan W. Robertson - Boise, ID
 Sebastian Robledo - Austin, TX

In Memoriam

Arthur Lebermann - Alameda, CA
 Mike S. Rice - St. Charles, MO



A



B



C

SBE National Meeting

A. President Ted Hand leads the Membership Meeting.
B. Robert W. Flanders SBE Engineer of the Year Jim Dalke offers his remarks. **C.** The SBE Board of Directors meets.
D. A reception was held before the Awards Dinner.
E. The SBE Fellows met for breakfast. **F.** The exhibit floor at the Clinic. **G.** Former SBE Executive Director John Poray delivered the Awards Dinner keynote address.



D



E



F



G

MEMBERS ON THE MOVE



Paul Shulins, CBRE, is co owner of Over the Air RF Consulting, based in Portland, ME.



Willie Perez, CPBE, ATSC3, received the Central Canada Broadcast Engineers 2024 Engineering Excellence Award.

Send your news to Chriss Scherer at cscherer@sbe.org.

MARK YOUR CALENDAR

S | M | T | W | T | F | S

SBE Ennes Workshop *Wichita, KS*
 Oct. 21, 2024 sbe.org/ennes_workshop

SBE WEBxtra *online*
 Oct. 21, 2024 sbe.org/webxtra

SBE Certification Exams *Local Chapters*
 Nov. 1-11, 2024 sbe.org/certification
Application deadline closed

SBE WEBxtra *online*
 Nov. 18, 2024 sbe.org/webxtra

SBE WEBxtra *online*
 Dec. 16, 2024 sbe.org/webxtra

Chapter Meeting Reports Due
 Jan. 15, 2025 sbe.org/rebate
Meeting reports determine a chapter's rebate

SBE WEBxtra *online*
 Jan. 20, 2025 sbe.org/webxtra

SBE Executive Committee Meeting *Charlotte*
 Jan. 24, 2025

SBE WEBxtra *online*
 Feb. 10, 2025 sbe.org/webxtra

SBE Certification Exams *Local Chapters*
 Feb. 7-17, 2025 sbe.org/certification
Application deadline Jan. 3

SBE WEBxtra *online*
 March 17, 2025 sbe.org/webxtra

SBE Membership Drive Begins
 March 1, 2025 sbe.org

SBE Compensation Survey Opens
 April 1, 2025

SBE Dues Renewal Deadline
 April 1, 2025 sbe.org/renew

SBE Ennes Workshop @ the 2025 NAB Show *Las Vegas*
 April 4-5, 2025 sbe.org/ennes_workshop

Live & Local — National & Worldwide

Do it all with
ACCESS 
NX

A portable IP audio codec for going live from anywhere & delivering any story, no matter how big or small.



info@comrex.com | 1-978-784-1776 | www.comrex.com



Scan to read about Comrex in use at the 124th US Open

