SBE Partners with NAB for Engineering Conference

Schedule of SBE Events and Meetings during 2009 NAB Show

For the fifteenth consecutive year the Society of Broadcast Engineers will be an organization partner with the NAB for its Broadcast Engineering Conference (BEC) at this year’s NAB Show. The BEC features the special in-depth Ennes Workshops on Saturday plus informative sessions covering the latest in broadcast technology from Sunday through Thursday. SBE also has a full slate of meetings and will exhibit during the trade show.

SBE EXHIBIT BOOTH

SBE’s exhibit booth will be in the same location as the last several years; the second floor concourse of the Las Vegas Convention Center South Hall, Lobby Booth 27. The location is just up the escalator from the South Hall main entrance and just outside the entry to the exhibits on the second floor. The BEC technical sessions will be located because you’re a member of the Society of Broadcast Engineers you already know the advantages of membership in our professional organization. But your participation in the SBE can extend beyond simple membership. The SBE exists because of the volunteer efforts of its members. Participation at a local chapter is always welcomed. But perhaps you have thought about doing more – perhaps even on the national level.

The SBE Nominations Committee is currently seeking candidates to run in the summer elections for the upcoming terms. The SBE is governed by a 17-person board of directors that determines the policies and programs for the national organization. Capable members, from all corners of the field of broadcast engineering, are needed to serve.

Of the 17 members of the board, 12 serve as directors and four serve as officers. Rounding out the board is the immediate past president.
New!!! Kathrein MSK-200
Digital Television Signal Analyzer

Six Instruments in One!
One Box - Many DTV Test Solutions

- DTV transmission systems
- Multiple transmitter networks
- Analog transmission systems
- Cable TV systems
- Digital radio systems
- Distribution networks
- All digital modes standard
- Rugged, portable package
- Built-in computer & browser
- Remotable with big I/O capability
- Proven by DTV users worldwide

LBA Also Offers:
- Antenna & network analyzers
- GPS frequency/time standards
- RF Power meters to 500kW & 3 GHz
- Precision synthesizers & RF generators
- CATV/Satellite signal test systems
- Faraday cages & shielding systems
- Vector impedance meters
- Video test generators

LBA Technology, Inc.
3400 Tupper Drive, Greenville, NC 27834
800-522-4464 / 252-757-0279
Paulo Fernandes at pfernandes@LBAGroup.com
www.LBAGroup.com/test

LBA Also Offers:
- Antenna & network analyzers
- GPS frequency/time standards
- RF Power meters to 500kW & 3 GHz
- Precision synthesizers & RF generators
- CATV/Satellite signal test systems
- Faraday cages & shielding systems
- Vector impedance meters
- Video test generators

LBA Technology, Inc.
3400 Tupper Drive, Greenville, NC 27834
800-522-4464 / 252-757-0279
Paulo Fernandes at pfernandes@LBAGroup.com
www.LBAGroup.com/test
Alabama Gulf Coast Site of May 15 Ennes Workshop

The SBE will present an Ennes Workshop at the Perdido Beach Resort in Orange Beach, Alabama on Friday, May 15. The host chapter for the Workshop is Chapter 118 of Montgomery. The Workshop, which is being conducted as a part of the Alabama Broadcasters Association (ABA) Annual Convention, is open to all broadcast engineers and those in related fields. You don’t have to be from Alabama to attend!

The Ennes Workshop will feature a full day of technical presentations of interest to broadcast engineers and technicians. Attendees will also have the opportunity to visit broadcast exhibits, organized by the ABA. Those working in television or radio, as well as in related fields, will find the Ennes Workshop an excellent educational experience. Attendance at Ennes Workshops qualifies for SBE recertification credit.

**SPEAKERS AND TOPICS:**

**General Sessions**

Steve Lampen, Belden Cable — Maximizing HD Cable Performance

David Davies, ERI — Tower Failures Resulting From Hidden Galvanic Corrosion

Bob Surette, Shively Labs — Antennas 101

**TV Technical Sessions**

Skip Erickson, Harris Technical Solutions — The Real World of Disaster Recovery

Richard Schwartz, Axcera — Optimizing Fixed & Mobile DTV Coverage with On-Channel & Translator Technologies

Stephane Gauthier, Ross Video — Considerations for Designing an Open Standard Platform for Broadcast Applications

**Radio Technical Sessions**

Tim Anderson, Harris Corp. — Content Management and Control of HD Radio™ Networks via HD Protocol

Tim Bealor, Broadcast Electronics — FM Synchronous Boosters & Single Frequency Networks

Chris Crump, Comrex — Audio-Over-IP Transmission

Ennes Trustee, Fred Baumgartner, CPBE, CBNT has organized the Workshop program. Local organizational support is being provided Larry Wilkins, CPBE, AMD, CBNT of SBE Chapter 118 and Sharon Tinsley of the ABA.

The Ennes Workshop will begin at 9:00 am and conclude by 5:00 pm. The complete program details are posted on the SBE National website, www.sbe.org in the Calendar and Education sections. Registration for the Ennes Workshop may be done on-line, also at www.sbe.org. The Workshop fee is just $35 for SBE members and $45 for non-members and includes Continental breakfast and lunch. Those arriving Thursday evening are also invited to attend the ABA welcome dinner, which begins at 6:30 pm, at no extra charge. Questions? Call the SBE National Office at (317) 846-9000 and ask for Debbie.

The Perdido Beach Resort on Alabama’s Gulf Coast is a great location for a weekend getaway. Consider bringing family members with you for the weekend. Reservations at the Perdido Beach Resort may be made by contacting Tina at the ABA at (800) 211-5189 or (205) 982-5001. There are other hotel options near by, including the Island House and the Hilton Garden Inn. For those who wish to attend additional ABA Convention meal events Friday night or Saturday, please contact Tina for that also.
We’ve all heard enough about the dire economic situation; layoffs, business failures, government bailouts, reorganization. You don’t need another reminder. During tough economic situations, it’s not unusual for organizations like the SBE to see an increase in member hardship waiver requests or even a drop in renewals. While paring personal spending to minimum levels is smart economics, cutting back on your Society participation during times like these is an unwise reduction in investment in your-self and your profession. Henry Ford once said: “A man who stops advertising to save money is like a man who stops a clock to save time,” Cutting back on investment in your own profession is very similar to that.

Too many people – our own engineering colleagues often being the offenders – treat the work we do as a “trade” as opposed to a profession. This is unfortunate. Our counterparts in other aspects of broadcasting can’t be expected to hold us in any higher regard than that which we hold ourselves. Broadcast engineering is not a trade, it’s a profession; a profession with a history of mutual support and working for the collective good. The Society of Broadcast Engineers is a unique conduit for working together as well as for individual advancement.

SBE membership is a demonstration of your commitment to your profession. It’s part of a commitment to improving our own profession and developing its future, while helping ourselves keep up with new technology. We join our time, money and effort so we can make our own careers more rewarding. We also join together to grow and train those who will follow. These are the actions of a group of professionals who care about the future of our own and the industry in which we are employed.

I’ve had many discussions with engineers about the value and benefits of SBE membership. The discussion invariably includes a reminder of the tangible benefits of SBE membership: The certification program; SBE educational opportunities, unique and targeted job search and staffing resources, group insurance for contract engineers. All of these benefits are exceptional and important, but they pale in comparison to the value of networking with SBE colleagues at local and regional meetings, or conversing online or during the monthly meeting of Chapter 73, the “Chapter of the Air” on Ham radio. In spite of the intrinsic value of membership, there are engineers who still do not join.

Generally, broadcast engineers who are not SBE members have one or both of these characteristics:

1) They do not recognize value from SBE membership. Even if they intellectually understand that certification, education, fellowship, recognition, and representation has value these engineers feel the benefits simply do not apply to them.

2) They do not feel that the SBE’s mission to promote, educate, and certify present and future broadcast engineers is a productive use of their limited time and money.

While not becoming a member or not attending a chapter meeting appears to be a passive act, the choice to do so is straightforward and deliberate. The simple truth is that we make time and resources available for things that are important. During difficult economic times like these, we all take a look at where we spend our money and sometimes make even more deliberate choices about that which is important. I urge you, when you’re making these decisions, to think about our profession and how your participation in the SBE has helped (or could help) you…but more importantly think about how we all help each other.

SBE Membership has been, since I helped form a local chapter, something that has been important and vital to me as an extension of my own deliberate and conscious career choice. The primary reasons are the antithesis of the two reasons above. I see value in every program in which the Society engages and have gained individually from many.

The most important reason, however, has been because the opposite of the second reason: It’s an important use of my time and money to promote, educate, and certify the broadcast engineering community. The Society of Broadcast Engineers is the singular organization chartered to promote our profession so naturally; my commitment to my own profession is demonstrated by my commitment to this Society.

Demonstrate your commitment to your profession
The SBE Strategic Planning Committee has been hard at work finding out what you, our members, are looking for in the future of our society. We have conducted two member surveys in the past two years.

The first survey was a get-to-know you effort and the most recent survey was about your opinions regarding legislative issues and programs that the Society is involved in. What we were looking for was an indication about how we best allocate the Society’s limited, mostly volunteer resources across these efforts — FCC advocacy, BAS frequency coordination, EAS, education, certification, chapter support, regional and national conventions, while working to assure the tangible benefits of your membership.

The survey was sent to 4,098 of our 5,700+ members via e-mail. The response rate to the survey was 10.7%. The results could be considered somewhat skewed in favor of members who make their email addresses available for the SBE-News bi-weekly newsletter and are therefore, perhaps more connected members.

Below is a chart showing the results of Question #2 of the survey, ranked from lowest to highest. I will hit the high points below.

Almost all respondents told us you were most concerned with education. The SBE Board has been hard at work through our Education Committee chaired by Cris Alexander, to add educational opportunities for SBE members. Most notably, in the form of the SBE University, our new cost-effective on-line education service. Four courses are currently available, with more in development. We have put a lot of time and development costs into this area, where many of you have expressed great interest. This is an area that we need to continue to work hard in and expand in the coming years.

Members continue to believe in the SBE Certification Program and what it offers to the membership. The SBE Certification Committee under chairman, Jim Bernier, CPBE CBNT, is hard at work reviewing the entire question pool and making updates as necessary due to the demise of full power analog NTSC transmissions. They have also produced a new 7th edition of the SBE TV Operator’s Handbook, which is now available from the website, or national office.

You also felt strongly that SBE should be partnering with other related organizations, such as NAB and MSTV, on issues important to the broadcast industry on issues that have an impact on engineers. This process has begun with SBE, NAB and MSTV looking at partnering on current hot-button issues in our world. We also have been working with MSTV on the Trucker TV issue and with NAB and MSTV on the 2 GHz relocation project. We also are working with NAB, NASBA and various state broadcasters associations on the next generation of EAS.

Members were also concerned with protecting professional standards of conduct and career development. SBE has long been working to support these goals. Our Leadership Development Course, taught by Rodney Vandeveer, is a popular career development tool. We are investigating ways to make this available to more members and possibly offering it at other locations around the country.
It Ain’t Over ‘Til the Fat Lady Sings.”
But Not Into a 700 MHz Wireless Mic…

BY Chris Imlay, CBT
SBE General Counsel

Okay, so where exactly are we on wireless microphones that are operating between 698 and 806 MHz? Limbo, that is where. The FCC hasn’t as of this writing resolved the Docket 08-166 and 08-167 proceeding, which proposed to set a sunset date for wireless mic operation on channels 52-69 (which is commonly called “700 MHz”), even though those television channels are pretty well gone. Here is where this stands right now, for those of you, like me, who are completely confused by the FCC’s unwillingness to resolve this on anything like a timely basis.

The FCC Notice of Proposed Rule Making and Order in these dockets was released August 21, 2008. There were quite a few comments filed, and since no one just files written comments and leaves it at that these days, there are dozens of reports of ex parte meetings held at FCC by the wireless industry, wireless mic (WM) manufacturers and users (licensed and unlicensed) and of course from broadcasters. The NPRM and Order proposed generally to prohibit 700 MHz WMs after the DTV transition deadline, so as to avoid interference to public safety and commercial broadband operations that are commencing operations in that band after DTV transition. The notice also proposed to prohibit after the DTV transition all manufacture, importing and sale of 700 MHz WMs. It is not clear whether that would apply to WMs that are capable of operating at both 698-806 MHz and the lower TV channels pursuant to a Low Power Auxiliary BAS license. The manufacturers seem to believe that the prohibition would not apply to previously authorized WMs that can operate in BAS bands below 698 MHz.

But there has been no order released in this proceeding yet. Perhaps one will be by the time you read this. SBE filed comments last September generally concurring that 700 MHz WMs should be prohibited after the DTV transition date, because, from the experience of our frequency coordinators, there is potential incompatibility between continued 700 MHz WM operation and public safety use of the 700 MHz band. Public Safety requires a high degree of reliability and WM operation, which is mobile, itinerant and unpredictable, is difficult to justify after the spectrum allocation actually changes over on TV Channels 52-69. SBE said there was no magic date for such a transition, but the DTV transition date (which at the time was February of 2009 made as much sense as any. SBE concluded that there was not much interference potential from WMs to commercial broadband services as there was to narrowband public safety systems at 700 MHz, but it is of course difficult to coordinate two mobile services. SBE noted, though, that the intensification of the uses of the TV channels below 52 made it absolutely critical for the Commission to find alternative replacement spectrum for wireless mics. Of course, that hasn’t been anything that FCC has been interested in spending time doing. Quite the contrary; it has spent a lot of time figuring out how to justify putting TV White Space devices in those same TV channels into which WMs stand to be compressed, starting right away. But the bottom line for SBE is that its coordinators could not comfortably coordinate 700 MHz WMs after public safety had commenced its operations in the 700 MHz band in earnest.

Shure proposed a 24-month transition period during which time WMs could continue to operate at 700 MHz. That, given the limited time between now and the June 12 DTV conversion deadline, sounds pretty reasonable, and would provide for an “orderly” transition. However, that proposal is distinctly unpopular with the likes of APCO, CTIA, NPSTC and other public safety land mobile and commercial wireless groups who are champing at the bit to commence 700 MHz operations. They want the band cleared muy pronto and all 700 MHz WM equipment “cleared from inventory and store shelves” so that it is no longer available 30 days after the FCC order is published in the Federal Register. They recognized that there should be a transition of presently authorized users who already have equipment on the air at 700 MHz though, and while they said that may take some time, all such operations should be expressly secondary to public safety and commercial broadband during that transition, whatever it turns out to be, and WMs must have to shut down if there is harmful interference to either one. Finally, they recommend that there should be an “enforceable” plan for migrating all WM users, licensed and unlicensed, legal and illegal, out of the 700 MHz band.

Enforceable is a big thing to ask for in such a plan, of course, because the number of licensed (Low Power Auxiliary BAS Part 74-licensed) users is far eclipsed by the number of illegals, including churches and theaters, which are using Part 74-certified WMs. And if there is a transition plan adopted by the Commission for 700 MHz WMs, the longer the Commission...
perms additional time to do what SBE has urged: find replacement spectrum so there isn’t gridlock on the channels below 52 starting right away. The downside, of course, is that there is a lot of written notifications, a lot of potential non-receipts, and still, a lot of illegals.

So what if the broadcasters do what they are supposed to do, and doubtless will do: shut down when and if notified by a wireless provider. The churches and small theaters, and the AV systems at hotels won’t cease operations, because they won’t get notified and they won’t have any idea in most cases that they have done anything wrong. Really, that is the flaw with any plan other than a blanket shutdown order as FCC has essentially proposed but not done.

So, what should you do about 700 MHz and WM operations? So far, still good to go. Just don’t make any long term plans for that band, and listen for the fat lady singing—connected up to plenty of cable.

In any case, the rules already protect land mobile operations of all sorts in the television broadcast bands. Section 74.803(b) of the rules makes all LP Auxiliary operation secondary not only to TV broadcasting but also to any “land mobile stations operating in the UHF-TV spectrum” and LP Aux devices “must not cause harmful interference.” Perhaps this gives the FCC some comfort in the delay in resolving this issue.

NAB and MSTV have proposed their own specific phase-out plan for 700 MHz WMs. They suggest that this be done gradually: by the earlier of (1) 60 days prior to the date on which a 700 MHz wireless entrant notifies the LP Aux licensees in writing that it intends to commence operations at 700 MHz on a specific frequency and in a specific geographic area, or (2) February 17, 2012. This plan has the distinct advantage of avoiding clearing the band completely in markets where no wireless licensee intends to commence operations, and it permits additional time to do what SBE has urged: find replacement spectrum so there isn’t gridlock on the channels below 52 starting right away. The downside, of course, is that there is a lot of written notifications, a lot of potential non-receipts, and still, a lot of illegals.

So what if the broadcasters do what they are supposed to do, and doubtless will do: shut down when and if notified by a wireless provider. The churches and small theaters, and the AV systems at hotels won’t cease operations, because they won’t get notified and they won’t have any idea in most cases that they have done anything wrong. Really, that is the flaw with any plan other than a blanket shutdown order as FCC has essentially proposed but not done.

So, what should you do about 700 MHz and WM operations? So far, still good to go. Just don’t make any long term plans for that band, and listen for the fat lady singing—connected up to plenty of cable.

In any case, the rules already protect land mobile operations of all sorts in the television broadcast bands. Section 74.803(b) of the rules makes all LP Auxiliary operation secondary not only to TV broadcasting but also to any “land mobile stations operating in the UHF-TV spectrum” and LP Aux devices “must not cause harmful interference.” Perhaps this gives the FCC some comfort in the delay in resolving this issue.

NAB and MSTV have proposed their own specific phase-out plan for 700 MHz WMs. They suggest that this be done gradually: by the earlier of (1) 60 days prior to the date on which a 700 MHz wireless entrant notifies the LP Aux licensees in writing that it intends to commence operations at 700 MHz on a specific frequency and in a specific geographic area, or (2) February 17, 2012. This plan has the distinct advantage of avoiding clearing the band completely in markets where no wireless licensee intends to commence operations, and it permits additional time to do what SBE has urged: find replacement spectrum so there isn’t gridlock on the channels below 52 starting right away. The downside, of course, is that there is a lot of written notifications, a lot of potential non-receipts, and still, a lot of illegals.

So what if the broadcasters do what they are supposed to do, and doubtless will do: shut down when and if notified by a wireless provider. The churches and small theaters, and the AV systems at hotels won’t cease operations, because they won’t get notified and they won’t have any idea in most cases that they have done anything wrong. Really, that is the flaw with any plan other than a blanket shutdown order as FCC has essentially proposed but not done.

So, what should you do about 700 MHz and WM operations? So far, still good to go. Just don’t make any long term plans for that band, and listen for the fat lady singing—connected up to plenty of cable.
What are you waiting for? Stand Out to Employers!

BY Megan Clappe
Certification Director

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. You might ask; How do I become certified? Read on and find out.

First let me start with a quick background of how SBE Certification came to be.

The Society of Broadcast Engineer’s Program of Certification began 34 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.

Eligibility for some of SBE’s certifications are based on years of experience 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. The exam consists of 50 multiple choice questions. It is closed book and you are allotted one hour. Passing score is 90%.

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. The exam is 50 multiple choice questions. It is open book and you are allotted three hours to take the exam. Passing score is 70%.

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. The exam is 50 multiple choice questions. It is open book and you are allotted three hours to take the exam. Passing score is 70%.

Certified Broadcast Radio Engineer 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. Please contact the national office for more information.

Certified Broadcast Networking Technologist® (CBNT®) – These certifications are based partially on the years of experience you have in the field of broadcast engineering or related technology. You may substitute years of experience to supplement the five year requirement (see acceptable substitutions below). This exam will consist of questions regarding safety, problems, operation practices and theory. The exam is 50 multiple choice questions. It is open book and you are allotted three hours to take the exam. Passing score is 70%.

5-YEAR CERTIFICATIONS:
Certified Audio Engineer® (CEA®), Certified Video Engineer® (CEV®), Certified Broadcast Radio Engineer (CBRE®) and Certified Broadcast Television Engineer (CBTE®) – These certifications are based partially on the years of experience you have in the field of broadcast engineering or related technology. You may substitute years of experience to supplement the five year requirement (see acceptable substitutions below). This exam will consist of questions regarding safety, problems, operation practices and theory. The exam is 50 multiple choice questions. It is open book and you are allotted three hours to take the exam. Passing score is 70%.

10-YEAR CERTIFICATIONS:
Certified Senior Radio Engineer

LIFE CERTIFICATION
Certified Professional Broadcast Engineers® and Certified Senior Broadcast Engineers® who have maintained SBE certification continuously for 20 years and are current members of SBE may be granted Life Certification if so requested. All certified who have retired from regular full-time employment 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.

NEWLY CERTIFIED CPBE®

Applicant must have had 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.

SBE CERTIFIED SCHOOL COURSE COMPLETION

BATES TECHNICAL COLLEGE
Natasha Branch, Dupont, WA – Chapter 16 Dale Comer, Burien, WA – Chapter 16

CERTIFIED PROFESSIONAL BROADCAST ENGINEER® (CPBE®)
Tracy Gibson, Manhattan, KS – Chapter 3

CERTIFIED SENIOR TELEVISION ENGINEER (CESTE®)
Stephen Allhart, Mills River, NC – Chapter 86
John Scoon, Portland, OR – Chapter 124

CERTIFIED BROADCAST NETWORKING TECHNOLOGIST® (CBNT®)
Roger Dowdy, Cottontown, TN – Chapter 103
Harold Schardin, Forest Lake, MN – Ch. 17

CERTIFIED BROADCAST ENGINEER (CSTE®)
Robert Shotwell, Sunderland, MA – Chapter 14
William Tressman, Plymouth, WI – Chapter 80
Roger Dowdy, Cottontown, TN – Chapter 103
Tom Norman, Centennial, CO – Chapter 48
Edward Tyler, Ridgecrest, CA

CERTIFIED PROFESSIONAL BROADCAST ENGINEER® (CPBE®)

See CERTIFICATION on page 12
nearby in the South Hall second floor meeting rooms.

Be sure to stop by the SBE booth while at the convention. We’ll have the new and totally revised 7th edition of the SBE TV Operator’s Handbook, the popular “CertPreview” exam preparation software programs, and information on the new SBE University on-line, on-demand courses for broadcast engineers.

We’ll also have a great assortment of technical books from national publishers, as well as the SBE Chief Operators Handbook, SBE Handbook for Radio Operators and the SBE Guide to Writing Station Operations Manuals. Most are available to members at discount prices. There will also be an assortment of SBE logo items. Membership renewals and new memberships may also be transacted at the booth.

BOOTH HOURS
Sunday - 2pm to 4pm
Monday – Wednesday - 9am to 6pm
Thursday - 9am to 4pm

BOOTH LOCATION
LVCC South Hall Lobby Booth
27 near the entrance to the second floor exhibit hall. See the SBE website, www.sbe.org for a floor plan indicating the booth location.

SBE SPRING MEMBERSHIP MEETING

Something you’ll not want to miss is the annual spring SBE Membership Meeting, held on Tuesday, April 21 from 5:00 pm to 6:00 pm in S228 of the Las Vegas Convention Center. We will be recognizing a number of our local chapter certification chairs during the meeting. We’ll also have a special SBE logo souvenir for the first 100 members in attendance and some other nice prizes including a SONY Camcorder and three dinner gift certificates. The Spring SBE Membership Meeting is sponsored by Microwave Radio Communications, which we thank for their continuing support. MRC also made a generous donation to the Ennes Scholarship fund as a part of their support of the 2009 SBE Spring Membership Meeting. Be sure to include the SBE Membership Meeting on your 2009 NAB Show schedule.

SBE will hold several other meetings during the 2009 NAB Show that may be of interest to you. (Located at the Las Vegas Hilton Hotel unless otherwise indicated)

BOARD OF DIRECTORS MEETING
Sunday, 8:30 am - 12:00 pm; Conference Rooms 1 & 2

EAS MEETING
Monday, 2pm – 4 pm, Conference Rooms 7 & 8

SBE FREQUENCY COORDINATORS MEETING
Tuesday, 10am – 12pm, Conference Rooms 7 & 8

SBE SPRING MEMBERSHIP MEETING
Tuesday, 5pm – 6pm, LVCC Room S228

REGISTRATION DISCOUNTS FOR SBE MEMBERS

Members of SBE can register for the NAB convention at a special “partner” rate, a savings of $100 off the NAB non-member rate. To get the discount, SBE members register using the regular SBE on-line registration form. When completing the form, check the “Partner” box at the bottom and select “Society of Broadcast Engineers” from the drop-down box.

The BEC is chaired this year by SBE member, Joseph L. Snelson, Jr., CPBE, 8-VSB. Snelson is corporate engineer for Meredith Broadcast Group.

Other members of the committee include: Dom Bordonaro, CSRE, Cox Radio; Michael Cooney, CSRE, Beasley Broadcast Group; David Folsom, Raycom Media; Thomas Hankinson, ABC; Andy Laird, Journal Broadcast Group; Glenn Reitmeier, NBC Universal and Jeff Smith, Clear Channel Radio. John Marino of NAB and John Poray of SBE also work with the committee.

Focusing on the Ennes Workshop presented by SBE are Lew Zager, LZ Solutions and Fred Baumgartner, CPBE, CBNT, of the Ennes Educational Foundation Trust.

ENNES WORKSHOP to address “Continuing the Digital Transition”

On the Saturday before the NAB convention floor opens (April 18), the Las Vegas Convention Center in Rooms S219/220 hosts the all-day 2009 Ennes Workshop, “Continuing the Digital Transition,” presented by the Society of Broadcast Engineers.

Attendance at the Ennes Workshop requires full NAB conference registration. Topics and speakers are listed below. The full session descriptions are available at the NAB web site, www.nab.org. As is our tradition, the Workshop begins with a tutorial.

Donald Vanderweit, Agilent Technologies, Inc.: Digital Transmission 101, Parts 1 & 2

Mike Starling, National Public Radio: IBOC Performance: The 1% or 10% Solution

Steve Densmore, iBiquity: IBOC’s Opportunities

Geoffrey Mendenhall, Harris Broadcast Communications: Five Good Reasons to use a Tube for High Power FM+HD Radio

William Meintel, Meintel, Sgrignoli & Wallace: DTV Transmission Status

Jay Adrick, Harris Communications Division and Wayne Bretl, Principal Engineer, Zenith Electronics LLC: Implementing Mobile/Handheld

Richard Schwartz, Axcera: Improving DTV and Mobile TV: Coverage through On-Channel and Translator Technologies

Dennis Wallace, Meintel, Sgrignoli, & Wallace: DTV Maximization: The Value of the Power

Kerry Cozad, Dielectric Communications; Antenna Choices for Digital Systems

Moderators for the Ennes Workshop will be Andy Butler, CPBE of PBS and Tom Mikkelsen of Andrita Studios.

We hope you’ll join many of your fellow SBE members April 18-23, in Las Vegas for the 2009 NAB Show and NAB Broadcast Engineering Conference!
2008 SBE Financial Review

The Society of Broadcast Engineers, Inc. completed 2008 with net revenue from cash operations of $3,497. Net revenue from all sources, including investments and depreciation, was -$178,844. Gross income from all sources was $869,050 while expenses were $847,895. The value of SBE medium and long term investments as of December 31, 2008 was $836,630, which was $167,283 less than at December 31, 2007. Total SBE assets as of December 31, 2008 were $1,085,493, a decrease of $179,034 over 2007.

A percentage breakdown of SBE income and expenses is depicted in the accompanying charts. A financial statement will be published in the June issue of the SIGNAL, following completion of the Society’s annual audit.

Steven Callahan, CBRE, AMD
Director of Engineering
Rhode Island Public Radio
Providence, R.I.
SBE Chapter 11
Joined SBE in 2001

Involvement with SBE:
I appreciate the time that Chapter 11 members give to the SBE for certification exams and to coordinate guest speakers for the Chapter’s monthly meetings. I also appreciate the depth of education and current information available at Ennes Workshops. It is well worth all the time and effort for all SBE members to attend an Ennes Workshop nearest you.

Getting Started: I started as a weekend announcer back in 1971 at WCNL, a 250 watt daytimer in Newport, New Hampshire. Back in those days, WCNL was frequently without an engineer, so I just fixed what was broken. I’ve been fixing broken stuff ever since.

Job Satisfaction: I truly enjoy the calls from listeners who are listening to our stations and appreciate what we’re doing. When I get a call from a listener with a reception problem, I steer them toward a resolution. When they call back to express their appreciation, that really makes my day.

When I’m not working: I spend my vacations at a thatch-roofed cottage on a hillside in western Ireland.

In the Circle...
A snapshot of an SBE Member

“Your Complete Tower Solutions Provider”
Tower Consultants, Inc

- Tower Modifications Specialist
- Structural Analysis
- Project Management
- Tower Procurement
- Inspections

East Coast
15 Surrey Court
Columbia, SC 29212
Ph: 803-407-8489
Contact: Jean Lecordier
jala@tower-tci.com

West Coast–Seattle WA
Ph: 206-659-4273
Contact: Greg Kelish
gkelish@tower-tci.com

Mid West–Dallas TX
Ph: 469-644-2215
Contact: Jassen Hahn
jhahn@tower-tci.com

www.Tower-TCI.com

Personal RF Monitor Value!
The SafeOne™ alerts to hazardous RF above FCC limits from 10 – 10,000 MHz!
Easy mount to belt or tower harness, long battery life, and simple operation.

Meet OSHA rules for 50% less than competitors!
Call 800-522-4464 or order on line at www.LBAGroup.com/Safeone

LBA TECHNOLOGY, INC.
Greenville, North Carolina
RF Systems Since 1963
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 five-year, ten-year or 20-year level. The exam is 50 multiple choice questions. It is open book. You will be given one essay. The essay is closed book. You are allotted three hours to take the exam. Passing score is a combined score of 84%.

For the five-year or ten-year certifications you may substitute the years of experience by holding a state registered Professional Engineer’s license (four years), a Bachelor Degree (four years), an Associate Degree (two years) or years of related accredited education can be substituted, year for year (up to four 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 (10-year) 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 Broadcast 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 five-year, ten-year or 20-year level. The exam is 50 multiple choice questions. It is open book. You will be given one essay. The essay is closed book. You are allotted three hours to take the exam. Passing score is a combined score of 84%. Upon passing, your Specialist certification will be linked to the expiration of your host certification.

All SBE certifications are valid for a period of five years at which time you will need to recertify by professional credits. These credits will be valid from the five-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.

To apply for any of these certifications, please fill out an application from SBE’s website at www.sbe.org or you may call the SBE National Office to request an application at (317) 846-9000. Exams are given year-round at your local chapter during exam sessions.

So now you see that there are many SBE certifications out there that you can qualify for. If you have any questions, please contact me at mclappe@sbe.org.

The Program of Certification would not be possible without the diligent volunteer force that is our Chapter Certification Chairmen. In 2003, we began the tradition of honoring our local Certification Chairmen on a recurring five-year cycle. This year at NAB we will continue this practice of recognizing the service anniversaries of our volunteers at the SBE Membership Meeting. The annual SBE Membership Meeting will be held at the 2009 NAB Show on Tuesday, April 21, from 5 to 6 p.m., in Room S228 of the Las Vegas Convention Center. During the meeting we will present plaques to the following:

**20 YEARS**

- Henry A. Kaul, CPBE – Ch. 63, Hawaii
- Samuel B. Straus, CPBE – Ch. 60, Richmond, VA

**15 YEARS**

- Thomas A. Green, CSTE – Ch. 45, Charlotte, NC

**10 YEARS**

- Edmund Barry, CPBE – Ch. 9, Phoenix, AZ
- Oscar Medina, CSTE – Ch. 36, San Diego, CA
- Thomas Taylor, CPBE, CBNT – Ch. 115, Southern Idaho

**5 YEARS**

- Chris Heck, CPBE – Ch. 76, Eugene, OR
- Harold (Hal) Kneller, CPBE, AMD, DRB, CBNT – Ch. 127, Southwest Florida
- James Perry, CPBE, CBNT – Ch. 18, Philadelphia, PA
- Ernie Sutton, CPBE – Ch. 113, Knoxville, TN

**FIRST YEAR OF SERVICE**

- Steve J. Epstein, CPBE - Ch. 143, Mid Missouri

2009 also brings two anniversaries for the National Certification Committee.

- Dane Erickson, PE, CSRTE, 8-VSB, CBNT – 20 years as a Certification Committee member
- Terrence Baun, CPBE, AMD, CBNT – five years as Certification Committee member

Thank you to the local Chapter Certification Chairmen and the National Certification Committee for the endless hours they devote to the Program of Certification. Without their help and dedication the program would not be what it is today.
All of the directors serve in an at-large capacity.

To be eligible, candidates for national office must be Regular, Senior or Life members of the SBE, or be the designated representative of an SBE Sustaining Member in good standing. All candidates must hold a current SBE engineering-level certification and must maintain that certification through all terms of office. Directors serve terms of two years and are expected to attend two full meetings of the board each year. These meetings are held in the spring during the NAB Show, and in the fall during the SBE National Meeting. Terms of officers are one year. Officers are expected to attend the two full meetings of the board plus two meetings of the executive committee, which are held during the winter and summer.

Members of the board may be appointed by the president to serve as a chairman or as a member of a national committee. All those who serve must be willing to cover their own travel expenses to attend the meetings. Some employers and chapters have helped cover this expense for some members of the board in the past.

Are you interested? If you meet the eligibility requirements, contact me or one of the committee members and we’ll tell you more.

The Nominations Committee must submit its list of candidates to the National Office by April 30, so if you are interested, be sure to contact someone on the committee before that date.

Election ballots will be mailed no later than July 28 to all voting members. The results will be known on August 28 when all the ballots mailed to SBE National Headquarters are counted by an official board of tellers. Those elected will be inducted into office on Oct. 7, 2009, during the SBE National Meeting, which will be held in Verona, NY, in conjunction with the SBE22 Broadcast and Technology Expo, sponsored by Chapter 22 of Central New York.

I hope you will seriously consider contributing your leadership and experience to the Society by offering to serve as a member of the national board of directors. Not only will your Society benefit, but you will too, as you develop friendships and strengthen your professional network with other members from around the country.

**NOMINATIONS COMMITTEE**

Chriss Scherer, CPBE CBNT chairman
cscherer@sbe.org
913-967-7201

Jim Bernier, CPBE CBNT
jim.bernier@sbe.org

Roswell Clark, CSRE CBNT
roz.clark@coxradio.com

Bob Hess, CPBE
bhess@cbs.com

Mark Simpson, CPBE, AMD, CBNT
mark.simpson@citcomm.com

---

**AM Antenna Solutions**

LBA is your trusted supplier of digital ready AM antenna systems. Our customized products include Directional Systems, Diplexers, Triplexers, ATU’s, AM Isolators, Ground Systems and RF Components for all power levels. LBA offers you complete RF project design and installation services.

Call for your Fast, Free quote!

LBA TECHNOLOGY, INC.

www.LBAGroup.com/Technology
252-757-0279 or 800-522-4464

---

**SBE Certification 2009 Exam Schedule**

<table>
<thead>
<tr>
<th>Dates</th>
<th>Location</th>
<th>Application Deadline</th>
</tr>
</thead>
<tbody>
<tr>
<td>April 21, 2009</td>
<td>NAB</td>
<td>April 1, 2009</td>
</tr>
<tr>
<td>June 5-15, 2009</td>
<td>Local Chapters</td>
<td>April 17, 2009</td>
</tr>
<tr>
<td>August 7-17, 2009</td>
<td>Local Chapters</td>
<td>June 5, 2009</td>
</tr>
<tr>
<td>November 6-16, 2009</td>
<td>Local Chapters</td>
<td>September 18, 2009</td>
</tr>
</tbody>
</table>

---

The power input to a 50 ohm coaxial line is 10kW. The current flowing in the line is:

A. 14.14A  
B. 200A  
C. 196A  
D. 20.5A
Attend the NEW SBE Leadership Development Course

Do not miss out on this year’s Leadership Development Course. This year’s course is August 4-6, 2009 in Indianapolis. The deadline to register for the 2009 Leadership Development Course is July 2, 2009. Register now to reserve your spot to gain valuable leadership skills this summer.

This course is taught by Rodney Vandeveer, a Purdue University Professor in the Organizational Leadership Department, who has vast leadership experience and has conducted leadership development programs for companies such as Medtronic, Allen Bradley and many more.

Past course graduate Michael Linz stated, “Rodney Vandeveer is most excellent. I have never been so moved by a speaker and educator in my life.”

Cost of registration is $580, which includes three days of instruction, all course materials, a certificate of completion and classroom refreshments. All transportation, housing and meals are the responsibility of the participant.

The course will be held at the Crowne Plaza Indianapolis Airport Hotel. A block of rooms have been reserved for Monday, August 3 through Wednesday, August 8. These rooms are available for a special guest room rate of $109 per night, for single or double occupancy. This special rate is available until July 13th, afterwards rooms and rates are subject to availability. To make reservations call 317-244-6861. The course starts promptly at 8:00 am Tuesday, August 4.

Register now, as space is limited. Fax your registration to 317-846-9120 or mail it to SBE, 9102 N. Meridian St., Suite 150, Indianapolis, IN 46260. If you would like more information on the SBE Leadership Development Course, please contact Holly Essex at (317) 846-9000 or hessex@sbe.org.
2009 Leadership Development Course
August 4 - 6, 2009
(Registration deadline: July 2, 2009)

COURSE INFORMATION: Course includes three days (24 hours) of instruction, all seminar materials, certificate of completion and classroom refreshments. Class size is limited to a minimum of 10 and a maximum of 25 participants per course.

Name of Participant: _________________________________________E-mail: ______________________________________

Company: ________________________________________________Title: ______________________________________

Address: ____________________________________________________________________________________________

City:_________________________________State: _____Zip: _____________Daytime Phone: ________________

If someone other than the participant is filling out this form, please provide the following information:

Company Contact: ___________________________________________Title: ______________________________________

City: __________________________State: _____Phone: ______________________E-mail: _______________________

PAYMENT INFORMATION: Registration for each course is $580. Payment is required in advance via credit card or check (payable to SBE).

Total: $__________ by (check one):  ☐ Check ☐ Visa ☐ MasterCard ☐ American Express

Credit Card No.: _______________________________Exp. Date: ___________Security Code* __________

Print Cardholder Name: ________________________________Signature: _________________________________________

Billing Address (if different): _________________________________________________________________________

* 3 digits in signature strip on back of card to the right of the (partial) card number (for Amex, it is 4 non-raised digits on the front).

NOTE: Cancellation, with no substitution, within 10 days of the seminar will result in forfeiture of full registration fee; a $50 charge may be applied if cancellation, with no substitution, occurs more than 10 days from the seminar.

MAIL TO:
Leadership Development Course
Society of Broadcast Engineers
9102 North Meridian Street
Suite 150
Indianapolis, IN 46260

OR FAX TO: (317) 846-9120

QUESTIONS: Holly Essex at hessex@sbe.org or (317) 846-9000

HOUSING INFORMATION:
Participants are responsible for making their own hotel reservations. The course will be held at the Crowne Plaza Indianapolis Airport Hotel, 2501 S High School Rd Indianapolis, IN 46241. A block of rooms has been reserved at the hotel for Monday, August 3 through Wednesday, August 5. These rooms are available for a special guest rate of $109 per night, plus tax, for single or double occupancy. Hotel reservations need to be made by July 13; afterwards rooms and rates are subject to availability.

To make reservations, call the Crowne Plaza Indianapolis Airport Hotel at 317-244-6861

OFFICE USE ONLY: Date Received: __________
Registrant Confirmation: ________________________
The SBE’s FCC Liaison Committee has been renamed by Board action as the Government Relations Committee (GRC). Along with the new name, we have new missions. We now have DHS/FEMA, NASA, and even the Department of Defense touching in one way or another on broadcaster interests. These interests lie in two main areas, EAS and Broadcast Auxiliary Spectrum (BAS). The Board has directed the GRC to work on a strategy that combines direct SBE action with coordinated partnerships with other broadcast industry stakeholders.

On the BAS front, Clarity Media System’s “Trucker TV” proposal refuses to die. “Trucker TV” still wants to use essentially 100% of the 2 GHz TV Broadcast Auxiliary Service (BAS) band for always-on, omni-directional base stations at over 250 Flying J truck plazas throughout the United States. Although in May 2007 the FCC Media Bureau issued an Order denying the multiple Part 78 rule waivers that Clarity would have required for Trucker TV base stations, according to a January 1, 2009 Broadcasting & Cable article, former FCC Chairman Martin directed the FCC staff to draft an Order reversing the earlier Media Bureau denial of the waivers as one of his parting acts.

However, SBE has reason to believe that the National Telecommunications and Information Agency’s (NTIA) Interdepartment Radio Advisory Committee (IRAC) that is a part of NTIA, may oppose this action. Unfortunately, as recently as March 4, the FCC’s Daily Digest showed that Clarity continues to make ex parte presentations in support of Trucker TV at the FCC. SBE will continue to monitor the situation, and could make its own ex parte filing if warranted.

The “white spaces” Second Report & Order (R&O), ET Docket 04-186, was finally published in the Federal Register on February 17; this means that Petitions for Reconsideration of the November 14, 2008, Second R&O are due by no later than March 19. SBE has been hard at work on such a petition, and is coordinating this effort with the Association for Maximum Service Television (MSTV). This is such a critical issue for protection of TV broadcast spectrum, for both main-channel use and BAS uses of those channels, that in addition to a Petition for Reconsideration, the R&O will probably be challenged by a D.C. Court of Appeals filing by MSTV.

The issue of whether Part 74 Low Power Auxiliary (LPA) stations such as wireless microphones will be allowed to continue their secondary operation on out-of-core TV Channels 51–69 remains pending. This FCC rulemaking, WT Dockets 08-166/08-167, had its reply comments close on October 21, 2008; SBE and other interested parties are now awaiting an R&O. It seems likely that wireless microphones will be bumped out of the out-of-core TV channels. The real question is when. SBE will continue to monitor this. It, like the Clarity issue, deals with spectrum we all depend on to do our jobs. Many thanks to Chris Imlay and Dane Ericksen for their hard work on BAS issues.

Moving on to the Emergency Alert System (EAS), just in case you have not noticed, there are now two government entities holding its destiny in their hands. On June 26, 2006, former President George Bush signed Executive Order 13407 that designated FEMA as the lead agency to implement an improved national warning system.

On July 12, 2007, the Commission adopted their WT Docket 04-296 Second Report and Order (R&O) / Notice of Proposed Rulemaking (NPRM). The R&O portion revised Part 11 of the Emergency Alert System and said if FEMA adopts CAP, EAS Participants must accept messages using the Common Alerting Protocol (CAP). The R&O specifically states, “...should FEMA adopt CAP as the common alerting protocol for EAS alerts, EAS participants must accept CAP-based alerts 180 days after the date that FEMA publishes the applicable technical standards for such CAP alerts.” All observers agree, almost two years after the release of the R&O, this is not a question of if FEMA will adopt CAP, but when.

The SBE’s GRC and EAS Committee have both been watching this issue closely. In February 2009, Clay Freinwald and I, with Board approval, began joint discussions with the National Association of Broadcasters (NAB) and the National Alliance of State Broadcaster Associations (NASBA) specifically on the 180-day clock provision in the R&O. The SBE
Recognize the best of 2008-09 with the SBE National Awards

Some SBE Members go above and beyond the call of duty to do their jobs and serve SBE and the broadcast industry, and some local SBE chapters do an absolutely excellent job of serving their members. But often these efforts can go unrecognized. Don’t let that happen this year. Download the nominations form at http://www.sbe.org/pub_sc.php#Awards.

There are five chapter and six individual award categories from which to choose when making a nomination. Three chapter awards are determined by using statistical information on record at the SBE National Office. In addition, five of the chapter awards are divided into two classes so that chapters with vastly different membership sizes are not competing with each other. This means that up to 18 awards could be presented.

Award winners will be notified in July and invited to attend the 2009 SBE National Meeting, which will be held October 6-7 in conjunction with the Chapter 22 Regional Broadcast and Technology Expo.

What is important about this to you? SBE, NAB and NASBA all agree the 180-day clock timeline is unworkable. SBE has proposed to our fellow stakeholder broadcast partners a “milestone-based” timeline. Our proposal would not place EAS equipment manufacturers and broadcasters in the position of having to complete the entire replacement and installation cycle of non-CAP EAS equipment in six months. SBE has identified that a significant part of the existing 180-day period will be consumed by the manufacturers having to submit their equipment for CAP compliance certification, so the 180-day period requires more than ordering equipment, delivery and installation. Along with Clay, Gary Timm on the EAS Committee has made significant contributions identifying key issues where we have common ground with the rest of the industry.

SURVEY from page 5

82.7% of the responding members indicated that they thought it was important for SBE to continue its FCC filings on technical matters. Such filings constitute the foundation of SBE’s greater government advocacy efforts. It is important for SBE, when appropriate, to continue to file with the FCC on issues of importance.

There are issues with this that you should know about. Regular SBE Membership is a modest $63.00/year. With these dues and similarly modest certification fees, we operate the mechanics of the Society including (but not limited to) our education efforts, the certification and associated study materials, the annual rebate to your local chapter and the business of operating the Society. Outside of the SBE’s operating budget, the exceptional services of our general counsel, Chris Imlay (based in Silver Spring, Md.), the volunteer efforts of the Government Relations, EAS and Frequency Coordination Committees (based all over the U.S.) and our board of directors, which consists entirely of volunteers who travel to SBE board meetings without reimbursement or compensation, we try to advocate for the issues you have said are important.

We don’t know what the future holds for our industry. SBE needs to continue to be the technically savvy, forward looking organization members expect. We need to enhance our web presence and site, offering enhanced online educational opportunities, as well as podcasts with important member information and discussions from leaders in the broadcast engineering community.

It is important, looking forward, for the SBE Board of Directors to analyze the data that has been gathered with the two surveys we have already conducted, as well as those we do in the future, and decide as a body what programs and initiatives are most important and deserve our limited resources. We need to keep member opinions and benefits in the forefront of our decision-making, as our membership is our strength.

You may send answers or comments to me, Vinny Lopez, CEV, CBNT, at vlopez@sbe.org. Please include “survey comments” in the subject line.
Get the most from your SBE membership

Attend Chapters Meetings

SBE celebrates its 45th year this month. What started as a small group of engineers has grown into an organization of more than 5,700 members in 112 chapters. For most members, monthly chapter meetings provide opportunities for regular professional and social networking, presentations on the latest technology and the chance to use or develop new skills in the area of leadership. If you’ve not been attending chapter meetings recently, you’ve been missing out!

Below is a list of SBE chapters, organized alphabetically by state. The chapter chairperson is listed with, in most cases, their e-mail address. Where we don’t have an e-mail address on record, their telephone number is included. If you haven’t been to a chapter meeting in a while, contact your chapter chairperson to find out when and where the next meeting is and plan to attend. You’ll be glad you did.

You’ll notice that a handful of chapters say “TBD” in the chapter chairperson column. In those cases, there is no chapter chairperson and the chapter is probably not meeting currently. Would you like to see some activity in your chapter and feel you can help? Contact me at the SBE National Office, jporay@sbe.org or (317) 846-9000; or Chriss Scherer, national Chapter Liaison Chairman, cscherer@sbe.org. We’ll be happy to help you get your chapter moving again.

<table>
<thead>
<tr>
<th>State</th>
<th>Ch #</th>
<th>Chairperson &amp; Contact information</th>
</tr>
</thead>
<tbody>
<tr>
<td>AK</td>
<td>89</td>
<td>Terry K. Reynolds, CPBE <a href="mailto:reynolds@mtonline.net">reynolds@mtonline.net</a></td>
</tr>
<tr>
<td>AL</td>
<td>68</td>
<td>Tim Cosley, <a href="mailto:tcosley@wto.shbnet.com">tcosley@wto.shbnet.com</a></td>
</tr>
<tr>
<td>AL</td>
<td>111</td>
<td>Joseph W. Kirby, CBTE, CBNT, <a href="mailto:engineerjo@bellsouth.net">engineerjo@bellsouth.net</a></td>
</tr>
<tr>
<td>AL</td>
<td>118</td>
<td>Montgomery Larry J. Wilkins, CPBE, CBNT, AMD <a href="mailto:larrywilkins@charter.net">larrywilkins@charter.net</a></td>
</tr>
<tr>
<td>AZ</td>
<td>138</td>
<td>Robert J. Russell, CSRE, CBNT, <a href="mailto:robert.russell@sprnt.com">robert.russell@sprnt.com</a></td>
</tr>
<tr>
<td>AZ</td>
<td>9</td>
<td>Rick R. Salsman, CPBE <a href="mailto:rsalsman@univision.net">rsalsman@univision.net</a></td>
</tr>
<tr>
<td>AZ</td>
<td>32</td>
<td>TBD</td>
</tr>
<tr>
<td>CA</td>
<td>66</td>
<td>Patrick C. Fenncay, <a href="mailto:sbe66@hotmail.com">sbe66@hotmail.com</a></td>
</tr>
<tr>
<td>CA</td>
<td>131</td>
<td>Jerry L. Shorter, CSRE <a href="mailto:shortj@dodmedia.osd.mi">shortj@dodmedia.osd.mi</a></td>
</tr>
<tr>
<td>CA</td>
<td>47</td>
<td>James E. Sensenbach, CPBE <a href="mailto:jsensenbach@univisionradio.com">jsensenbach@univisionradio.com</a></td>
</tr>
<tr>
<td>CA</td>
<td>43</td>
<td>Jack L. Davis, CPBE <a href="mailto:hvchief@engineer.com">hvchief@engineer.com</a></td>
</tr>
<tr>
<td>CA</td>
<td>36</td>
<td>Gail Pineda, <a href="mailto:gail.pineda@tvmagic.tv">gail.pineda@tvmagic.tv</a></td>
</tr>
<tr>
<td>CA</td>
<td>40</td>
<td>Arthur Lebermann, CPBE <a href="mailto:ardleb@earthlink.net">ardleb@earthlink.net</a></td>
</tr>
<tr>
<td>CO</td>
<td>48</td>
<td>James B. Schoedler, CBNT <a href="mailto:jschoedler@usa.net">jschoedler@usa.net</a></td>
</tr>
<tr>
<td>CO</td>
<td>81</td>
<td>Bill Frost, CSRE <a href="mailto:bill@datavix.com">bill@datavix.com</a></td>
</tr>
<tr>
<td>CT</td>
<td>14</td>
<td>Valley Scott A. Baron, <a href="mailto:engineer@worc.com">engineer@worc.com</a></td>
</tr>
<tr>
<td>DC</td>
<td>37</td>
<td>Thomas P. Shedlick, <a href="mailto:tom.shedlick@citcomm.com">tom.shedlick@citcomm.com</a></td>
</tr>
<tr>
<td>FL</td>
<td>42</td>
<td>Frank Torbert, <a href="mailto:ftorbert@wkang.com">ftorbert@wkang.com</a></td>
</tr>
<tr>
<td>FL</td>
<td>7</td>
<td>James B. Biggers, CPBE <a href="mailto:jobetre@aol.com">jobetre@aol.com</a></td>
</tr>
<tr>
<td>FL</td>
<td>88</td>
<td>Gary A. Minker, <a href="mailto:gary@radioworksefconsulting.com">gary@radioworksefconsulting.com</a></td>
</tr>
<tr>
<td>FL</td>
<td>53</td>
<td>TBD</td>
</tr>
<tr>
<td>FL</td>
<td>39</td>
<td>Roswell D. Clark, CSRE, CBNT <a href="mailto:roz.clark@coxtampa.com">roz.clark@coxtampa.com</a></td>
</tr>
<tr>
<td>GA</td>
<td>5</td>
<td>William P. Magliocco, CPBE, CBNT, 8-VSB <a href="mailto:wmagliocco@earthlink.net">wmagliocco@earthlink.net</a></td>
</tr>
<tr>
<td>HI</td>
<td>63</td>
<td>TBD</td>
</tr>
<tr>
<td>IA</td>
<td>109</td>
<td>Gregg T. Richwine, CBTE <a href="mailto:gregg.richwine@whotv.com">gregg.richwine@whotv.com</a></td>
</tr>
<tr>
<td>IA</td>
<td>65</td>
<td>TBD</td>
</tr>
<tr>
<td>ID</td>
<td>117</td>
<td>Darryl D. McGlohen, CBNT <a href="mailto:darryl.mcg@kewtv.com">darryl.mcg@kewtv.com</a></td>
</tr>
<tr>
<td>ID</td>
<td>115</td>
<td>Richard Kemp, <a href="mailto:rick-kemp@qwrest.net">rick-kemp@qwrest.net</a></td>
</tr>
<tr>
<td>IL</td>
<td>49</td>
<td>Brian L. Dougbery, <a href="mailto:react96@hotmail.com">react96@hotmail.com</a></td>
</tr>
<tr>
<td>IL</td>
<td>26</td>
<td>Mark S. Albert, CBTE <a href="mailto:mslalbert@aol.com">mslalbert@aol.com</a></td>
</tr>
<tr>
<td>IL</td>
<td>96</td>
<td>Gregory A. Dahl, CPBE <a href="mailto:gregorydahl@secondopinioncomm.com">gregorydahl@secondopinioncomm.com</a></td>
</tr>
<tr>
<td>IN</td>
<td>25</td>
<td>Philip B. Alexander, CSRE, AMD <a href="mailto:dynotherm@earthlink.net">dynotherm@earthlink.net</a></td>
</tr>
<tr>
<td>IN</td>
<td>30</td>
<td>David E. Gooding, CPBE <a href="mailto:dgooding@fox28.com">dgooding@fox28.com</a></td>
</tr>
<tr>
<td>IN</td>
<td>121</td>
<td>Ben A. Davis, <a href="mailto:bddavis@regentevansville.com">bddavis@regentevansville.com</a></td>
</tr>
<tr>
<td>KS</td>
<td>3</td>
<td>John R. Langer, CBTE <a href="mailto:jlang@k-state.edu">jlang@k-state.edu</a></td>
</tr>
<tr>
<td>KS</td>
<td>59</td>
<td>Robert W. Cross, <a href="mailto:crass@umkc.edu">crass@umkc.edu</a></td>
</tr>
<tr>
<td>KY</td>
<td>35</td>
<td>Jerry M. May, CPBE, CBNT <a href="mailto:jm@wtvq.com">jm@wtvq.com</a></td>
</tr>
<tr>
<td>LA</td>
<td>72</td>
<td>Ernest J. Kain, <a href="mailto:erniekin@1-55.com">erniekin@1-55.com</a></td>
</tr>
<tr>
<td>LA</td>
<td>44</td>
<td>Rudolph C. Johnson, CBRE <a href="mailto:rudy707@bellsouth.net">rudy707@bellsouth.net</a></td>
</tr>
<tr>
<td>MA</td>
<td>11</td>
<td>Robert B. Yankowitz, CPBE <a href="mailto:rbyankowitz@cbx.com">rbyankowitz@cbx.com</a></td>
</tr>
<tr>
<td>MD</td>
<td>46</td>
<td>Vernon L. Dennis, Jr., <a href="mailto:radio.eng@verizon.net">radio.eng@verizon.net</a></td>
</tr>
<tr>
<td>MD</td>
<td>132</td>
<td>Paul A. Curtis, Jr., CBT <a href="mailto:drillcurt@yahoo.com">drillcurt@yahoo.com</a></td>
</tr>
<tr>
<td>MI</td>
<td>91</td>
<td>Gary W. Blieverblick, <a href="mailto:garyb@wkar.org">garyb@wkar.org</a></td>
</tr>
<tr>
<td>MI</td>
<td>102</td>
<td>Patrick J. Tobin, CBTE, CBNT <a href="mailto:tobinp@ferris.edu">tobinp@ferris.edu</a></td>
</tr>
<tr>
<td>MI</td>
<td>82</td>
<td>Robert D. Bracken, CBTE, CB T <a href="mailto:h.bracken@wb2detroit.com">h.bracken@wb2detroit.com</a></td>
</tr>
<tr>
<td>MN</td>
<td>17</td>
<td>Jon G. Blomstrand, CBRE <a href="mailto:jblomstrand@am1500.com">jblomstrand@am1500.com</a></td>
</tr>
<tr>
<td>MO</td>
<td>59</td>
<td>Robert W. Cross, <a href="mailto:crass@umkc.edu">crass@umkc.edu</a></td>
</tr>
<tr>
<td>MO</td>
<td>123</td>
<td>Rick Hartford, CPBE, CBNT <a href="mailto:rick@kmz.com">rick@kmz.com</a></td>
</tr>
<tr>
<td>MO</td>
<td>55</td>
<td>Terrence E. Dupuis, CBRE, CBNT <a href="mailto:tdupuis@umsl.edu">tdupuis@umsl.edu</a></td>
</tr>
<tr>
<td>State</td>
<td>City</td>
<td>Chapter #</td>
</tr>
<tr>
<td>-------------</td>
<td>----------------</td>
<td>-----------</td>
</tr>
<tr>
<td>Mississippi</td>
<td>125</td>
<td>Donald B. Driskell, CPBE <a href="mailto:dlldriskell@mpbonline.org">dlldriskell@mpbonline.org</a></td>
</tr>
<tr>
<td>Montana</td>
<td>137</td>
<td>Eric A. Hyppa, CBNT <a href="mailto:eric_hypppa@montanapbs.org">eric_hypppa@montanapbs.org</a></td>
</tr>
<tr>
<td>North Carolina</td>
<td>45</td>
<td>Michael C. Smith, CSTE, CBNT <a href="mailto:msmith@wtvi.org">msmith@wtvi.org</a></td>
</tr>
<tr>
<td>North Carolina</td>
<td>93</td>
<td>Charles B. Britt, <a href="mailto:cbrbritt@vnet.net">cbrbritt@vnet.net</a></td>
</tr>
<tr>
<td>New York</td>
<td>110</td>
<td>David J. Raymond, CBTE <a href="mailto:wneu.sbe.chpt_110@comcast.net">wneu.sbe.chpt_110@comcast.net</a></td>
</tr>
<tr>
<td>New Mexico</td>
<td>34</td>
<td>Michael F. Snyder, CPBE <a href="mailto:mike.snyder@citicommm.com">mike.snyder@citicommm.com</a></td>
</tr>
<tr>
<td>Nevada</td>
<td>128</td>
<td>Steven Scott, CPBE, CBNT, 8-VSBD <a href="mailto:kl86@intermind.net">kl86@intermind.net</a></td>
</tr>
<tr>
<td>Nevada</td>
<td>139</td>
<td>Timothy J. Stoffel, CSTE <a href="mailto:timba@lionlamb.us">timba@lionlamb.us</a></td>
</tr>
<tr>
<td>New Hampshire</td>
<td>1</td>
<td>Thomas G. Siglin, <a href="mailto:tSiglin@sigtomics.com">tSiglin@sigtomics.com</a></td>
</tr>
<tr>
<td>New Hampshire</td>
<td>133</td>
<td>Raymond Felczkow, <a href="mailto:rfelczkowsk@pce.net">rfelczkowsk@pce.net</a></td>
</tr>
<tr>
<td>New York City</td>
<td>15</td>
<td>Thomas R. Ray III, CPBE <a href="mailto:tomray@wor710.com">tomray@wor710.com</a></td>
</tr>
<tr>
<td>New York</td>
<td>78</td>
<td>Charles Zarriello, CBTE (518) 456-1516</td>
</tr>
<tr>
<td>New York</td>
<td>57</td>
<td>Edward Y. Wright, CBTE <a href="mailto:ewright@wxxi.org">ewright@wxxi.org</a></td>
</tr>
<tr>
<td>Ohio</td>
<td>52</td>
<td>John R. Owen, (703) 930-3763</td>
</tr>
<tr>
<td>Ohio</td>
<td>70</td>
<td>Ronald Bartlebaugh, CBNT <a href="mailto:bartlebaugh@wlsu.org">bartlebaugh@wlsu.org</a></td>
</tr>
<tr>
<td>Ohio</td>
<td>33</td>
<td>George C. Hopstetter, CPBE <a href="mailto:ghopstetter@thinktv.org">ghopstetter@thinktv.org</a></td>
</tr>
<tr>
<td>Ohio</td>
<td>104</td>
<td>Kevin E. Olden, CBTE, CBNT <a href="mailto:kevin@providesystems.com">kevin@providesystems.com</a></td>
</tr>
<tr>
<td>Ohio</td>
<td>122</td>
<td>Michael A. Heim, <a href="mailto:kld0ar@sbcglobal.net">kld0ar@sbcglobal.net</a></td>
</tr>
<tr>
<td>Oklahoma</td>
<td>85</td>
<td>Leonard Youngblood, CTO <a href="mailto:lyoungblood@sbgnet.com">lyoungblood@sbgnet.com</a></td>
</tr>
<tr>
<td>Oklahoma</td>
<td>56</td>
<td>Roger W. Newton, CBNT <a href="mailto:rnewton@oeta.tv">rnewton@oeta.tv</a></td>
</tr>
<tr>
<td>Oregon</td>
<td>76</td>
<td>Dennis R. Hunt, <a href="mailto:dhunt@cmc.net">dhunt@cmc.net</a></td>
</tr>
<tr>
<td>Oregon</td>
<td>141</td>
<td>Rick Carrara, <a href="mailto:rcarrara@cmc.net">rcarrara@cmc.net</a></td>
</tr>
<tr>
<td>Oregon</td>
<td>124</td>
<td>Everett E. Helm, CPBE <a href="mailto:everett@helmm.com">everett@helmm.com</a></td>
</tr>
<tr>
<td>Pennsylvania</td>
<td>41</td>
<td>Randall F. Miller, Jr., CBNT <a href="mailto:randamille@state.pa.us">randamille@state.pa.us</a></td>
</tr>
<tr>
<td>Pennsylvania</td>
<td>120</td>
<td>Eric D. Reinert, CBTE <a href="mailto:ericr@wfzm.com">ericr@wfzm.com</a></td>
</tr>
<tr>
<td>Pennsylvania</td>
<td>2</td>
<td>Joseph A. Glynn, CPBE <a href="mailto:joeglynn@wvia.org">joeglynn@wvia.org</a></td>
</tr>
<tr>
<td>Pennsylvania</td>
<td>130</td>
<td>Michael J. Kobylka, <a href="mailto:mkobylka@erie.net">mkobylka@erie.net</a></td>
</tr>
<tr>
<td>Pennsylvania</td>
<td>18</td>
<td>Mark D. Humphrey, CPBE, CBNT <a href="mailto:mark@xy-mark.com">mark@xy-mark.com</a></td>
</tr>
<tr>
<td>Pennsylvania</td>
<td>20</td>
<td>John J. Humphrey, CPBE <a href="mailto:john.humphrey@azcar.com">john.humphrey@azcar.com</a></td>
</tr>
<tr>
<td>Puerto Rico</td>
<td>142</td>
<td>Enrique Garcia, <a href="mailto:rgarcia@sistema102.com">rgarcia@sistema102.com</a></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>State</th>
<th>City</th>
<th>Chapter #</th>
<th>Contact Person</th>
</tr>
</thead>
<tbody>
<tr>
<td>South Carolina</td>
<td>107</td>
<td>TBA</td>
<td></td>
</tr>
<tr>
<td>South Carolina</td>
<td>101</td>
<td>David R. Tuncig, CBTE, CBNT, 8-VSBD, CTO, CRO <a href="mailto:speedysignal@yahoo.com">speedysignal@yahoo.com</a></td>
<td></td>
</tr>
<tr>
<td>South Carolina</td>
<td>86</td>
<td>Jerry K. Massey, CPBE, CBNT, 8-VSBD, AMD <a href="mailto:jmmassey@entercom.com">jmmassey@entercom.com</a></td>
<td></td>
</tr>
<tr>
<td>Tennessee</td>
<td>113</td>
<td>Charles D. Stallard, CPBE, CBNT <a href="mailto:doug.stallard@wfi-tv.com">doug.stallard@wfi-tv.com</a></td>
<td></td>
</tr>
<tr>
<td>Tennessee</td>
<td>135</td>
<td>David D. Dunkford, CBNT, CTO <a href="mailto:ddunkford@sath.com">ddunkford@sath.com</a></td>
<td></td>
</tr>
<tr>
<td>Tennessee</td>
<td>105</td>
<td>Donald E. Griffey, CPBE, CBNT <a href="mailto:engineer@wnkj.org">engineer@wnkj.org</a></td>
<td></td>
</tr>
<tr>
<td>Texas</td>
<td>79</td>
<td>Ernie Saldana, <a href="mailto:esaldana@kvue.com">esaldana@kvue.com</a></td>
<td></td>
</tr>
<tr>
<td>Texas</td>
<td>134</td>
<td>Richard N. Rhodes, CBRE <a href="mailto:rrho170@sbcglobal.net">rrho170@sbcglobal.net</a></td>
<td></td>
</tr>
<tr>
<td>Texas</td>
<td>99</td>
<td>Jon P. Bennett, CBRE <a href="mailto:jon.bennett@kamu.tamu.edu">jon.bennett@kamu.tamu.edu</a></td>
<td></td>
</tr>
<tr>
<td>Texas</td>
<td>29</td>
<td>Stephen R. West, (361) 886-6100</td>
<td></td>
</tr>
<tr>
<td>Texas</td>
<td>38</td>
<td>Jose A. Castro, <a href="mailto:antonio.castro@cox.com">antonio.castro@cox.com</a></td>
<td></td>
</tr>
<tr>
<td>Texas</td>
<td>105</td>
<td>Thomas A. Daniels, Jr., CPBE t <a href="mailto:Daniels@univision.net">Daniels@univision.net</a></td>
<td></td>
</tr>
<tr>
<td>Texas</td>
<td>67</td>
<td>Paul J. Brown, CPBE <a href="mailto:buddyb@kvt.com">buddyb@kvt.com</a></td>
<td></td>
</tr>
<tr>
<td>Texas</td>
<td>136</td>
<td>Jerry Jeske, <a href="mailto:jjeske@riogrande.edu">jjeske@riogrande.edu</a></td>
<td></td>
</tr>
<tr>
<td>Texas</td>
<td>69</td>
<td>Lewis E. Miller, (210) 270-9000</td>
<td></td>
</tr>
<tr>
<td>Utah</td>
<td>62</td>
<td>Michael L. Hansen, CBRE, CBTE, CBNT, 8-VSBD <a href="mailto:mike@4utah.com">mike@4utah.com</a></td>
<td></td>
</tr>
<tr>
<td>Virginia</td>
<td>78</td>
<td>Eddie R. Durham, <a href="mailto:ecs@rev.net">ecs@rev.net</a></td>
<td></td>
</tr>
<tr>
<td>Virginia</td>
<td>54</td>
<td>Chris G. Gunnufsen, <a href="mailto:chrisg@whro.org">chrisg@whro.org</a></td>
<td></td>
</tr>
<tr>
<td>Virginia</td>
<td>60</td>
<td>Jon A. Bennett, CBNT j <a href="mailto:Bennett08@verizon.net">Bennett08@verizon.net</a></td>
<td></td>
</tr>
<tr>
<td>Washington</td>
<td>16</td>
<td>James A. Dalle, CPBE, AMD <a href="mailto:jim@dalle.com">jim@dalle.com</a></td>
<td></td>
</tr>
<tr>
<td>Washington</td>
<td>21</td>
<td>Kent A. Abendroth, <a href="mailto:kentabendroth@clearchannel.com">kentabendroth@clearchannel.com</a></td>
<td></td>
</tr>
<tr>
<td>Washington</td>
<td>51</td>
<td>Martin L. Gibbs, (509) 547-5196</td>
<td></td>
</tr>
<tr>
<td>Wisconsin</td>
<td>80</td>
<td>Keith M. Kintner, CBTE, CBNT <a href="mailto:kintkint3@yahoo.com">kintkint3@yahoo.com</a></td>
<td></td>
</tr>
<tr>
<td>Wisconsin</td>
<td>80.1</td>
<td>Dale J. Schroeder (Student Chapter)</td>
<td></td>
</tr>
<tr>
<td>Wisconsin</td>
<td>24</td>
<td>Dennis C. Baldridge, CPBE, CBNT, AMD <a href="mailto:baldridge@mwt.net">baldridge@mwt.net</a></td>
<td></td>
</tr>
<tr>
<td>Wisconsin</td>
<td>28</td>
<td>Todd A. Boettcher, CBTE <a href="mailto:pboettcher@milwpc.com">pboettcher@milwpc.com</a></td>
<td></td>
</tr>
<tr>
<td>Wisconsin</td>
<td>112</td>
<td>Paul A. Orth, CBNT <a href="mailto:paulorth@clearchannel.com">paulorth@clearchannel.com</a></td>
<td></td>
</tr>
<tr>
<td>Wyoming</td>
<td>116</td>
<td>Noel W. Richardson, CSRE nr <a href="mailto:richardson@wradio.com">richardson@wradio.com</a></td>
<td></td>
</tr>
<tr>
<td>Wyoming</td>
<td>129</td>
<td>TBA</td>
<td></td>
</tr>
</tbody>
</table>

Is an update necessary to your chapter listing? Contact Scott Jones at kjones@sbe.org.
The 7th edition of the SBE TELEVISION OPERATOR’S CERTIFICATION HANDBOOK has been totally rewritten and updated to include the latest developments in digital television.

Order yours today at [http://www.sbe.org/store_books_listings.php#S06](http://www.sbe.org/store_books_listings.php#S06)
The Society of Broadcast Engineers would like to welcome its newest members to the organization:

NEW MEMBERS
Ronald A. Cummins - Knoxville, TN
Kevin M. Kelly - North Brunswick, NJ
Grant S. Larkin - Martinez, CA
Ruben B. Randall - The Colony, TX
Mark D. Rushton - Boulder, CO
Robert T. Simms - Washington, DC
Gilbert G. Stock - Kirk, MS
James G. Williamson - Brooklyn, NY
Henry Behring - Oakland, NJ
Michelle M. Cole - Jaffrey, NH
Bob Collom - Middletown, NJ
Keith Ege - Baltimore, MD
Leslie G. Garrett - Terre Haute, IN
John R. Horton - Cheektowaga, NY
Stuart L. Joines - Tucson, AZ
Chad Myers - Wauwatosa, WI
Robert J. Diaz - Columbia, MD
Tat H. Ip - Fort Bragg, NC
Joshua R. Kelly - Independence, IA
Peter C. Lundquist - Seattle, WA
Jeremy Lommori - Glendora, CA
Cyndy Cservenyak - Long Beach, CA
Bill Creighton - Flowery Branch, GA
Lee Afflerbach - Royal Oak, MD
Paul R. Nebel - Muskego, WI
Hong Kong
Ng Yiu Chung - Tszung Kwan O, N.T., Hong Kong
Ko Lai Tsui - Tseung Kwan, N.T., Hong Kong
Pik Ying Sabine Tang - Kwai Chung, N.T., Hong Kong
Al Szablak - Camden, NY
Pik Ying Sabine Tang - Kwai Chung, N.T., Hong Kong
Ko Lai Tsui - Tseung Kwan, N.T., Hong Kong
Shit Ying Keung - Tsuen Wan, N.T., Hong Kong
Kai Shing Chow - Tsuen Wan, N.T., Hong Kong
Nathan Hart - White Bear Lake, MN
Sze Ki Kit - Lam Tim, Hong Kong
Tak Man Lau - Tsuen Wan, Hong Kong
Steven M. Percefull - Creve Couer, IL
Kevin W. Potter - Walland, TN
Richard T. Reyes - The Colony, TX
Hui Tak Sang - Tsuen Wan, Hong Kong
Robert S. Gallo - Lee’s Summit, MO
Charles D. Hollis - Villa Park, IL
Nick Maurose - Santa Clarita, CA
Joel T. Wright - Lynchburg, VA
Allen L. Baylus - Reisterstown, MD
Timothy D. Dailey - Ringwood, NJ
William C. Duncanson - Marietta, GA
Duane Grotophorst - North Freedom, WI
Linden Harrigan - Westwood, NJ
Timothy L. Hatfield - Lebanon, TN
Cheng Li - Fort Bragg, NC
Arthur C. Morris - Aurora, CO
Margaret L. Nadeau - Fairhaven, MA
Jessica Rye - Wichita, KS
William C. Sanders - Fayetteville, NC
Anamaria Scirici - New York, NY
Christopher F. Adams - Florence, MA
Sufian A. Al-Baw - Abu Dhabi
Ruben Cantu - McAllen, TX
Ho Ching Kwong - Tai Po, N.T., Hong Kong
H. Joe Clary - Knoxville, TN
Gregory H. Crouch - Elkridge, MD
Aly Dagher - Chicago, IL
Chun Wing Lau - Kowloon, Hong Kong
Ming Wai Lo - Tsuen Wan, Hong Kong
Matthew E. McGraw - Tucson, AZ
Loh Ming Chung - Tuen Mun, N.T., Hong Kong
Allen Mou - Rowland Heights, CA
James M. Perryman - Stafford, VA
Ernest J. Schimizzi - Wainscott, NY
Al Szablak - Camden, NY
Pik Ying Sabine Tang - Kwai Chung, N.T., Hong Kong
Ko Lai Tsui - Tseung Kwan, N.T., Hong Kong
Shit Ying Keung - Tsuen Wan, N.T., Hong Kong
Ng Yi Chong - Tszung Kwan O, N.T., Hong Kong
Paul R. Nebel - Muskego, WI
Lee Afflerbach - Royal Oak, MD
Bill Creighton - Flower Branch, GA
Gyndy Csevenyak - Long Beach, CA
Jeremy Lommori - Glenclora, CA
Cyrus Uible - Charles Town, WV
Jason D. Van Hoy - Tacoma, WA

NEW ASSOCIATE MEMBERS
Ron Smith - Gulfport, FL

REINSTATED MEMBERS
Patrick N. Forman - New York, NY
Christian L. Vang - Rockville, MD
William D. Carey - Helotes, TX
John S. Worthy - Burbank, CA
Algertron E. Crawley - Laurel, MD
John L. Marcon - Christiansted, VI
Ronald E. Rowe - Lakeeland, FL
Michael A. Newham - Pendergrass, GA
Thomas P. Williams - Kennewick, WA
Nadine Redwood - El Cajon, CA
Kent A. Winrich - Fuquay-Varina, NC
William M. Wall - Sacramento, CA
Armel W. Robinson - Pflugerville, TX
Theodore J. Alexander, III - Crystal, MN
Edward E. Williams - Portland, OR
Rick Zach - Marlborough, MA
James D. Ocon - Omaha, NE
Jorge Duarte - Miami, FL
Gary M. Hammond - APO, AE
David C. Polizano - West Orange, NJ
Julius M. Suyat - Mesquite, TX
Frank X. Zepeda - San Francisco, CA
Lisa M. Maniaci - East Brunswick, NJ
Shaun C. Sandoval - New York, NY
Trenton J. Mengel - Alexandria, VA
Russell A. Steele - Houston, TX
Dennis M. Silver - West Valley City, UT
William C. Doerner - Corpus Christi, TX
Brian J. Steinle - North Las Vegas, NV
Gary L. Parker - Poway, CA
Curzon W. Thompson - Miami, FL
Gary E. Watkins - Columbia, AL
Albert R. Byers - Houston, TX
Michael J. Bow - Dakota Dunes, SD
Edward K. Tipler - Ridgecrest, CA
Jamie M. McCluskey - Madison, WI
Lyle D. Kaufman - Littleton, CO
Nando P. Galfi - Berlin, CT
Joseph A. Carullo - Saint Louis, MO
Wayne G. Mulligan - Merritt, NC
Ralph W. Cram - Wichita, KS

REINSTATED SENIOR MEMBERS
Jay Minkin - Seattle, WA

Cleveland Institute of Electronics offers nationally accredited distance learning programs in electronics and computer technology!

New PLCCourse $50.

Earn Your Degree at Home!

www.cie-wc.edu
Visit our Web Site for course descriptions, tuition prices or to request a FREE Course Catalog.

www.ciebookstore.com
Visit CIE’s bookstore for self-paced training courses starting under $50. (Videos, DVDs, Software, Books)

Or call 1-800-243-6446
1776 E. 17th St., Cleveland, OH 44114
Silver Members, those with at least 25 years of membership, are highlighted with a silver box. New Members are listed in blue.
Recruit a new member and win in the 2009 Membership Drive

The Membership Drive is in full swing and you do not want to miss this opportunity to strengthen the Society and earn chances to win many great prizes.

Maybe there is someone new to broadcast engineering on your staff. Perhaps you know a student who has an interest in the profession.

Introduce these people to SBE. Utilize these new interests and new opportunities to strengthen our team of broadcast engineers.

You have every reason to encourage someone to join SBE. You would be helping that person, contributing to SBE, and you will be eligible for Membership Drive prizes. In addition to being entered in the Membership Drive prize drawing, you will also receive a five-dollar discount on your 2010 membership renewal for each new member you recruit (up to five).

This year’s Grand Prize is a Sony HDTV and a trip to the SBE National Meeting at Turning Stone Casino and Resort in Verona, N.Y. from October 6 – 7, which includes airfare for one to Verona (from within the continental US) and two nights hotel stay.

With so many great and rewarding reasons to reach out and recruit new members to join SBE’s strong team, everyone’s a winner.

MEMBERSHIP DRIVE PRIZES

GRAND PRIZE
- Trip to the 2009 SBE National Meeting in Turning Stone Casino and Resort in Verona, NY from October 6 – 7
- Sony HDTV

FIRST PRIZE
- Panasonic Blu-Ray player Courtesy of Panasonic

SECOND PRIZE (four winners)
- Eton E1XM AM/FM/Shortwave/XM ready Radio Courtesy of Westwood One

OTHER PRIZES
- Pocket Size External Hard Drive Courtesy of Broadcast Microwave Services, Inc.
- AKG K416P Closed Back Headphones Courtesy of Broadcast Supply Worldwide (3 available)
- Blu-ray Disc Demystified Courtesy of McGraw-Hill (2 available)
- Practical Array Processing by Mark Sullivan, Courtesy of McGraw-Hill
- GPS and Galileo, Courtesy of McGraw-Hill
- Space Based Radar, Courtesy of McGraw-Hill
- Delivering Carrier Ethernet, By Abdul Kasim, Courtesy of McGraw-Hill
- STABiLiNE Uninterruptible Power Supply Courtesy of Superior Electric
- Donation Prize Courtesy of Harris Corp., Broadcast Communications Division
- Logo Golf Shirt Courtesy of Continental Electronics
- Directional Antennas Made Simple by Jack Layton Courtesy of Jack Layton
- Adjustment Tweaking Tools Courtesy of Continental Electronics (25 available)

MEMBERSHIP DRIVE PRIZES

Provide the following services:
- Design and Construction of Transmitter Facilities
- Coordination with Disposal or Sale
- Crating/Packaging
- Equipment Inventory Documentation
- Field Cut Transmission Line
- General Contracting
- Generators and Fuel Systems
- Ice Protection
- Installation of Transmitters
- Lightning Protection
- Mezzanines
- Project Management
- Removal & Storage Solutions
- RF Grounding

Quotes contact:
Samuel Mitchell
sam@scm-construction.com
www.scm-construction.com
C: 214-876-9884
O: 972-274-5151
F: 972-274-5159
http://plans.scm-construction.com

Sales & Engineering Information
English - Ed Reid
C: 214-215-3349
reidbroadcastcom@earthlink.net

Spanish - Dave Baez
C: 407.760.8805
davidbaez@bellsouth.net
HDTV SHOULDN'T BE HIGH DECIBEL TELEVISION!

AUDIO UNDER CONTROL

AERO.air (5.1)™ Transmission Loudness Manager
2008 TV Technology STAR Award Winner

The next-generation AERO.air 10-channel TV audio processor from Linear Acoustic (previously called the AEROMAX-5.1:XL) represents the world’s first TV audio processor to feature built-in Dolby® Digital (AC-3) encoding. Engineered on the foundation of the company’s supremely successful first-generation digital television processors, the AERO.air system enables broadcasters to deliver compelling 5.1-channel surround sound while saving them time, money, and space.

The comprehensive AERO.air solution is equipped with a loudness controller, upmixer, and metadata manager, as well as full-time, two-channel downmixing to support legacy analog paths. Built-in AutoMAX™ processing fixes two-channel audio that is broadcast wrongly signaled as 5.1 channels. Equipped with hard relay bypass and dual hot-swappable power supplies for mission-critical applications, the processor accepts 5.1 network audio, two-channel local audio and digital or analog auxiliary/EAS stereo audio for processing. HD-SDI audio and VANC metadata inputs and internal Dolby Digital (AC-3) encoding are available as options.