Board acts on strategic plan recommendations

The SBE national Board of Directors met on October 23 in Denver, Colo., during the SBE National Meeting. Among the topics discussed was the strategic plan. Specifically, reviewing six action items that were recommended by those who attended the Strategic Planning Conference held on June 24, 2012, in Indianapolis, Ind. That meeting was attended by 38 members and staff, and led by two independent facilitators.

The board reviewed reports on each of the six action steps. The six steps include: Revamping the SBE National Awards Program, Rebranding the SBE, Increased Support to Chapters, Who Should Our Members Be, The SBE 50th Anniversary Celebration, and Outreach to Youth.

Ralph Hogan, president of the SBE, led a discussion of the action steps. Given that the society does not have unlimited resources, it was agreed that, although all six action steps had value, not all of them could be done, at least not at the same time. President Hogan asked the Awards Committee, chaired by board member, John Heimerl, CPBE, of

'Alternate Broadcast Delivery – How it Works' at Ennes Workshop during NAB Show

The 18th annual Ennes Workshop, presented by the Society of Broadcast Engineers in cooperation with PBS at the 2013 NAB Show’s Broadcast Engineering Conference, will be held on Saturday, April 6 in Las Vegas, Nev.

Organizers for this year’s event are Frederick M. Baumgartner, CPBE, SBE Education Committee member and trustee of the Ennes Educational Foundation Trust, and Tom Mikkelson, a senior engineering, operations and project management executive at National TeleConsultants. They’ve come up with a great program of technical topics of interest to broadcast engineers and anyone in media technology. Here’s a sample of what’s planned.

Jan Ozer, a contributing editor to Streaming Media Magazine and Online Video.net, will open the 2013 Ennes Workshop with a two-hour tutorial on streaming media that will include an introduction to the streaming environment and ecosystem, a discussion of current and near term player markets in computer, mobile and OTT

Members from across the country attended the strategic planning conference held on June 23, 2012 in Indianapolis, Ind.
“We use BRIC-Links for our main STL on 107.7 FM, one of the satellite stations for WTOP, with very good results. I was pleasantly surprised at just how easy it is to set up a pair of BRIC-Links out of the box. I had my final configuration within ten minutes of powering up the units. We’re running AAC audio that sounds every bit as good as the circuits to our other transmitter sites.

We had been struggling for about a year to find a reliable audio STL to our transmitter site on top of a mountain in Warrenton, VA. The telco lines degraded every time it rained, causing dropouts in our T1 and ISDN service. This summer, when services that did not rely on the leaky copper cables were finally built out at the site, we tried a pair of BRIC-Links on our new broadband Internet service. We’ve kept our transmitter on them ever since. We’re going to be purchasing more pairs of these units to feed audio to our other sites.”

David Kolesar, Senior Broadcast Engineer
Bonneville International Corporation
WTOP / WFED, Washington, DC

We design our products to be dependable. So, you wouldn’t think we’d be surprised by how many people put our products on the line every day. But, we are. And, honestly, we’re kind of proud, too.

No matter what the market size, Comrex customers depend on BRIC-Link Stereo IP Codecs to deliver reliable, high quality audio over dedicated data links at a reasonable price. Whether you are replacing costly satellite or telco transmission links, sending program audio to multiple locations or connecting two studios, BRIC-Link will do the job with minimal setup and maximum performance. Contact Comrex today to find out what so many of our customers already know.
Board adopts 2013 budget, includes dues increase

The SBE Board of Directors met in Denver on October 23, during the SBE National Meeting. Among the topics discussed was the operating budget for 2013. The board adopted a budget that projects operations in the black for the first time in several years.

Conrad Trautmann, chairman of the SBE Finance Committee, explained that his committee’s focus was centered on finding ways to increase revenue, as expenses had been reduced to a point where further cuts would erode services. The finance committee worked with the membership, certification and education committees to develop ways to increase revenue.

The budget includes an increase in membership dues for most categories that will take effect January 1, 2013. Dues for Regular, Senior, Fellow and Associate members will be $75 per year. Dues for Student members will increase to $25 per year. Dues for Sustaining Members will increase to $650 per year. All of the new dues levels remain below the membership dues levels of other national technical and non-technical professional associations in the broadcasting field.

The 2013 budget also includes an increase in fees to non-members for education programs, increased corporate support and additional educational programs. New initiatives to increase the number of engineers holding SBE certification will also be undertaken.

Scholarship named for John Battison, founder of SBE

The founder of the Society of Broadcast Engineers, John H. Battison, P.E., CPBE, who passed away on Aug. 28 at the age of 96, is being memorialized with the creation of a scholarship in his name. The John H. Battison SBE Founder’s Scholarship will be presented to an applicant who seeks to enter or advance in the field of broadcast engineering. The creation of the scholarship was announced on September 11, which would have been Battison’s 97th birthday.

The Ennes Educational Foundation Trust, the non-profit, charitable arm of the Society of Broadcast Engineers, is adding the John H. Battison SBE Founder’s Scholarship to its scholarships. The Ennes Educational Foundation Trust is a 501(c)3 charitable organization. Contributions are tax deductible for most individuals.

The scholarship will be awarded to selected applicants who are currently in the broadcast engineering field and seek to expand their knowledge in media technology, or to a graduating high school senior who plans a career in broadcast engineering and will be attending a college, university or technical school.

Ralph Hogan, CPBE, DRB, CBNE, the president of the SBE said, “John Battison had a vision of an organization that would provide station engineers with technical education they could use in their work everyday. I can’t think of a better way to memorialize him than through a scholarship that will help young engineers advance their technical knowledge in our business.”

Applications for the John H. Battison SBE Founder’s Scholarship are now available and can be obtained at the SBE website, www.sbe.org. The annual deadline for all Ennes Scholarships is July 1 with the announcement of the recipients made by the end of July.

Those wishing to make a contribution to the John H. Battison SBE Founder’s Scholarship fund may send donations to: Ennes Educational Foundation Trust, 9102 N. Meridian Street, Suite 150, Indianapolis, IN, 46260. Checks should be made payable to: Ennes Educational Foundation Trust and write “Battison Scholarship” on the memo line. The Ennes Educational Foundation Trust is a 501(c)3 charitable organization. Contributions are tax deductible for most individuals.
The mentoring committee, a subcommittee of the SBE Education Committee, has been working under the leadership of Chairman Paul Burnham, CPBE. The committee has been reviewing the project plan for the mentoring program and establishing some initial parameters for the initial startup. Below are some examples of the work the committee has been doing.

The committee has agreed there are three things the SBE mentoring program should be known for. They include: quality, easy and meaningful (for the mentee and mentor).

Since the mentor and mentee will likely not be located in the same area or even in the same region, the style of mentoring will likely be distance mentoring. This type of mentoring is via e-mail, supplemented by telephone/video calls and occasional visits. This can prove highly effective for the mentees with their mentors. This is especially true if a particular area of expertise is needed and is not represented locally. There are other reasons for seeking an external mentor as well, such as broadening networking possibilities and increasing contacts with others in the field. Distance mentoring can be a convenient way to exchange information with a mentor or mentee. Caution should be taken regarding effective communication in a long distance mentoring relationship, as e-mail communication comes with an element of risk. If the message is not carefully written, recipients can misunderstand the message or its tone and react in a way that is not expected by the author. If a relationship has already been established between the mentor and mentee, this method of mentoring may be more effective.

It is envisioned that the mentees will come from certified schools and the SBE general membership. This will serve mentees with entry level to five years or less experience. The mentors will be made up of experienced broadcast professionals. The mentoring program will focus on professional growth and development tailored to the individual mentee.

So what outcomes does the SBE expect from the mentoring experience?

- Higher quality engineer
- Increased knowledge of the engineer, leading to more employable engineers
- More people coming into the industry (including IT folks)
- Getting younger people exposed and interested in the industry
- Increased membership.

Items that the committee needs to continue to work on are outlined below.

Flesh out criteria on how the mentors and mentees will be chosen and paired. Craft application forms for the mentor and mentee. Create an orientation program as a possible webinar for mentor and mentee with a packet of information to be delivered electronically. Develop metrics that will be used to measure success of the program such as responses to evaluations from mentees and successful completion of the program. Develop a database that can store data and provide reports for the unique needs and information of the mentor program. Conduct information gathering surveys from the SBE membership to further shape the program.

There is still a lot of work that needs to be done before the program is rolled out. It is unclear at this time when the mentor program might officially begin. The committee should have a much better idea of the timeline by the end of the year and updates will be given as the program progresses.

Consider becoming a mentor or mentee regardless of your age, experience level, or title. The SBE encourages participants of all levels to learn or share broadcast engineering skills through the SBE Mentoring Program. Contact Burnham at paul.burnham@navy.mil to learn more about becoming involved as a mentor or mentee.
Howard’s Law: Fix your licenses!

I have bragged in these pages numerous times in the past about my good and long-time friend Howard Fine. Those of you who have conducted broadcast operations or done video production in the Los Angeles market are doubtless familiar with Howard. Howard has a well-defined sense of right and wrong, and he is a relentless advocate of frequency coordination in the Broadcast Auxiliary Service. His advocacy has not always made him the favorite of the folks in the 2 GHz truck, but in a broadcast market like Los Angeles, where there is no room for error, Howard does a truly amazing job putting fifty pounds of users into five pounds of spectrum.

One of the things that makes the job of frequency coordinators around the country so difficult (and what has begun to put the broadcast station licensees in some serious jeopardy if it is not fixed) is the fact that there are very many inaccurate licenses in the FCC’s ULS database. Howard has recently taken it upon himself to try to fix this. I was so impressed by his one-man campaign, which he is doing on his own time and at his own expense, that I thought the least I could do is to help him spread the word.

Howard has reviewed the ULS Part 74 database in painstaking detail. He tells us that there are two main issues that should concern a broadcaster. The first is that many Part 74 fixed-link licenses are missing the receive site (which is shown as location #2 on the ULS license).

One of the things that makes the job of frequency coordinators around the country so difficult is the fact that there are very many inaccurate licenses in the FCC’s ULS database. Howard has recently taken it upon himself to try to fix this. I was so impressed by his one-man campaign, which he is doing on his own time and at his own expense, that I thought the least I could do is to help him spread the word.

If your BAS license is not 100% correct, and if it does not include a receive site, you are not protected against interference from a new BAS licensee or from an existing BAS licensee modifying their license in such a way as to affect your fixed link. Howard has first-hand experience in at least two instances where a new applicant interfered with an existing fixed link because the incumbent license was not correct, and/or did not include receive site data.

In the 950 MHz STL band, there are 11,119 licenses. Howard found that 1,389 of them are missing the receive site on the license. In the 2.5 GHz band, there are 94 licenses. Twelve of those are missing receive site data. In the 7 GHz band there are 5,613 licenses, 687 of which are missing receive site data. In the 13 GHz band, of 2,115 licenses, 219 are missing receive site data.

Finally, in the 17/18 GHz band there are 311 licenses, with 38 missing receive site data.

The second major issue, Howard reports, is that a great many licenses have had location coordinates on them. The FCC will not protect a licensee whose transmitter site coordinates are more than one second of latitude or longitude off. At the time that a lot of licenses were obtained, many years and typically one or more licensees ago, it was the standard practice to use a topographical map and “guess” the coordinates. It was not a huge issue at the time. Now, with increased band crowding and non-broadcast entities sharing our bands, it is. Now, with GPS, it is easy and much more accurate to find the coordinates.

Howard has sent emails now to most of the Part 74 fixed microwave licensees whose licenses obviously show one of the above issues. He reports receiving a very good response so far, and has noticed a lot of applications to clean up existing licenses.

One of the commercial coordinators told Howard that they had received a lot requests for PCNs for fixed BAS license modifications, and that even some networks have recently cleaned up their licenses. That is all to the good.

Howard has done a lot of licensees a big favor here. FCC’s Enforcement Bureau is not awfully active now due to staffing shortages at the District Offices, but a District Director told me recently that FCC is still actively inspecting broadcast stations, and in the course of those inspections is looking at the Part 74 licenses closely now as well as the main station license issues.

Another hot topic for FCC inspectors is antenna registration (ASR) errors. A review of recent enforcement actions shows this to be the case. A series of notices of violation have been issued in the last two months. Several are the result of District Office inspections of registered antenna structures. Some deal with the failure to transfer ASRs when a broadcast station license is assigned. More, however, deal with failure to notify FCC when construction of a new tower is completed. 47 C.F.R. § Section 17.57 states that: “The owner of an antenna structure for which an Antenna Structure Registration Number has been obtained must notify the Commission within 24 hours of completion of construction (FCC Form 854-R) and/or dismantlement (FCC Form 854). The owner must also immediately notify the Commission using FCC Form 854 upon any change in structure height or change in ownership information.”

If an agent observes that the antenna structure construction was completed but the FCC Antenna Structure Registration database lists the status as “granted” or if the registration is issued to a prior licensee, you will receive a notice of violation.

Another typical topic of notices of violation is errors in street addresses or coordinates of an STL transmitter. 47 C.F.R. S: 1.903(a) states that “Stations in the Wireless Radio Services must be used and operated only in accordance with the rules applicable to their particular service as set forth in this title and with a valid authorization granted by the Commission under the provisions of this part...” If a license for a BAS station specifies particular transmitter coordinates and a particular street address, but at the time of the station inspection, an FCC agent observes that the licensee was operating the BAS station at different coordinates, or at different street address, then the FCC will issue a notice of violation because the STL was not operating from the street address or the coordinates listed on the license.

Howard says that the easiest was to check your license is to go to www.fccinfo.com and Google Earth, which will show you exactly where both ends of the link are. If you open Google Earth and then click on www.fccinfo.com , and then click on the top right of the page and download the kmz file, you will find in “places” the AM, FM, TV, ASR and Broadcast Microwave data. You can click on “Broadcast Microwave” and it will show each specific band.

On the www.fccinfo.com web page you can enter your station call sign and it will bring up on the bottom of the page a listing of all of the associated licenses. Click on each individual microwave license. If there is an issue with antenna coordinates or missing receive site data it will show up in a box on the left side.

While we should all be grateful to Howard for taking this initiative, don’t rely on Howard to keep after you to fix your licenses. And if you didn’t get an e-mail from Howard, don’t assume that your licenses are fine. They may not be. The stakes are now pretty high here so don’t roll the dice on an FCC inspection. If you participate in the alternative inspection program offered by your State Broadcasters’ Association, rest assured that the inspectors will check your BAS licenses as well. As to registering your receive sites at 7 and 13 GHz, remember that in
I had the pleasure of updating the membership at the National Meeting in Denver on behalf of the certification committee in October. For those of you who were unable to attend, I recommend that you watch the live recording available on the SBE website. In addition, the following is a recap of the report that was submitted.

The SBE Certification Committee is made up of 14 individuals who represent a well-balanced blend of disciplines such as radio, television and professional consulting.

The committee is excited about the April introduction of its newest certification level, the Certified Broadcast Networking Engineer (CBNE). Along with the introduction of this new certification, the sample test software, CertPreview, was updated to assist those studying to take the exam for the CBNE. To date the committee has certified 19 individuals as CBNE. Eight individuals registered for the CBNE exam during the November session. We have also sold 74 CertPreviews for this exam. This is a record number for any of our exam levels in 2012. In case you are not aware, the CBNE is geared towards broadcast professionals having significant experience in IP networks and associated recording, storage and playout technologies employed in radio and television operations.

Referring back to the CertPreview, the committee is pleased with the acceptance level of the online version that was released a few years ago. We thought it would be worth mentioning to the membership that we estimate 85-90% of CertPreviews are obtained through the online download versus the CD version.

Going forward, the committee is providing another feature to CertPreview when new questions are added. In addition to the question and correct answer we are providing references to where the correct answer can be found. We feel this will be beneficial to the test taker as they study for an exam.

In June of this year the Television Operator and Radio Operator handbooks became available as e-books through Amazon and Barnes and Noble. The cost for the e-books are $9.99 each and it can be downloaded directly to a reading device. If the purchaser desires to take the corresponding certification exam, it can be purchased separately by contacting the SBE National Office.

Overall in 2012 the Certification Program has granted 303 new certifications and 234 re-certifications.

Looking at activities of the certification committee, here are some of the things we are working on. The committee is constantly reviewing the questions that are presented on all of the exams in terms of applicability and relevance. This is rarely a cut and dried decision making process. As an example, there are still some analog questions on television exams. While it is true all full power TV stations transmit in digital, there are still a number of analog translators in service until late 2015, the date that they must be converted to digital. Many of our members still maintain these sites and therefore total elimination of analog would be inappropriate. This is an example of what the committee goes through when it evaluates the appropriateness of a question on an exam.

The certification committee evaluates the suggested reference materials to use when studying for an exam. We look for both the applicability and availability of the reference material.

Another effort we constantly undertake is the reviewing of the curriculum for the technical colleges or SBE Certified Schools, where a graduate can obtain the entry certification level, Certified Broadcast Technologist (CBT). The curriculum for each school is reviewed and I would add, scrutinized, by the committee every three years to ensure the curriculum offered meets our criteria. We are pleased that we recently renewed our approval for the curriculum of the Defense Information School (DINFOS) and newly certified Chattahoochee Technical College as an SBE Certified School. The committee encourages our members to review the list of schools that have been approved on the SBE website and ask that you let us know of any institutions you feel would be good candidates for adding to our list.

Lastly, as we approach the celebration of the society’s 50th anniversary, the SBE Certification Committee is beginning to explore ways that we can participate. So, as they say, stay tuned!

Society is now accepting Fellow Nominations for 2013

By Troy Pennington, CSRE, CBNT
SBE Fellowship Committee Chairman
If a member has made a difference in an SBE chapter over a long period of time; someone who has exhibited a dedication to the advancement of the broadcast engineer, the field of broadcast engineering and the Society of Broadcast Engineers itself, consider nominating him or her for the SBE Fellow rank of membership. The SBE is currently accepting nominations for 2013.

The Fellow designation is the highest level of membership and recognition presented to members by the SBE. Members may earn the Fellow rank through several paths of achievement including conspicuous service, valuable contributions to the advancement of broadcast engineering or its allied professions, or by disseminating their broadcasting knowledge and promoting its application in practice. Seventy-seven members have been recognized with the honor in the society’s 48 years of existence.

To nominate a member, candidates must be proposed in writing by a voting member to the fellowship committee. The nomination must include a comprehensive professional history of the nominee and an explanation of why the candidate is deserving of this honor. The nomination must also include the written endorsements of at least five other voting SBE members. All nominations are to be kept confidential. No others besides the nominators and the fellowship committee members should be aware of the nomination. Moreover, the nominee should not be made aware that he or she has been nominated.

Nominations for 2013 must be received no later than March 15, 2013 for consideration. The fellowship committee will bring the names of nominees to the board of directors for consideration and election at their April 2013 meeting. The SBE secretary will notify those elected. Awards will be presented at the National Awards Dinner during the 2013 SBE National Meeting in Indianapolis, Ind.

Submit nominations to Fellowship Committee Chair, Troy Pennington, CSRE, CBNT, 6156 Hampton Hall Way, Hermitage, TN 37076 or to troy.pennington@cumulus.com.
CONGRATULATIONS

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.

- Certified Broadcast Networking Technologist® (CBNT)
  - William Kirkpatrick, Rutherford, N.J. – Chapter 15

- Certified Broadcast Networking Technologist® (CBNT)
  - Gerard Passenwa, San Antonio, Texas – Chapter 69

- Certified Professional Broadcast Engineer® (CPBE®)
  - Charles Radman, Cedarbury, Wis. – Chapter 2

- Certified Broadcast Technologist® (CBT™)
  - John Parker, Murphy, N.C. – Chapter 5

NEWLY CERTIFIED CPBE
Applicants 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.

- Certified Professional Broadcast Engineer (CPBE)
  - Donald Peters, Pullman, Wash. – Chapter 117

AUGUST EXAMS

- Certified Senior Radio Engineer™ (CSRE®)
  - Robert Daly, West St. Paul, Minn. – Chapter 17

- Certified Broadcast Networking Engineer™ (CBNE™)
  - Robert Lange, Morton Grove, Ill. – Chapter 26
  - Robert Myer, Gaithersburg, Md. – Chapter 37
  - Todd Nichols, Colton, Calif. – Chapter 131
  - Mina Zaki, San Diego, Calif. – Chapter 56

- Certified Broadcast Networking Technologist® (CBNT®)
  - Shui Wah Chan, El Segundo, Calif. – Chapter 47
  - Larryson Foltran, Detroit, Mich. – Chapter 91
  - R. Allen Fowler, Murray, Ky. – Chapter 103
  - Victoria Kipp, Madison, Wis. – Chapter 24
  - Timmy McGuire, Archer, Fla. – Chapter 7
  - David Parker, Murfreesboro, Tenn. – Chapter 103
  - Steven Sabin, Glen Rock, N.J. – Chapter 15
  - Steve Scott, Las Vegas, Nev. – Chapter 128

- Certified Broadcast Technologist® (CBT®)
  - Shui Wah Chan, El Segundo, Calif. – Chapter 47
  - Tamara Ehle, San Jose, Calif. – Chapter 40
  - David Ericksen, Anchorage, Alaska
  - Michael Kempton, Medford, Ore. – Chapter 141
  - Gregory Tomlin, Asheville, N.C.

- Certified Audio Video Engineer™ (CAVE™)
  - Gregory Lesko, Hampton, Va. – Chapter 24

- Certified Senior Television Engineer™ (CSTE®)
  - Michael Norton, Madison, Wis. – Chapter 24

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- Certified Broadcast Technologist® (CBT™)
  - John Parker, Murphy, N.C. – Chapter 5

SPECIAL PROCTORED EXAMS

- Certified Senior Radio Engineer™ (CSRE®)
  - Zeenullah Osmari, Haiti

COURSE COMPLETION
Defense Information School (DINFOS)
- Micheal Whitaker, Ft. Meade, Md. – Chapter 132

CERTIFIED BY LICENSE
- Certified Broadcast Technologist (CBT)
  - Dennis Hamilton, Okarker, Fla. – Chapter 88
  - Darrel Heckendorf, Cedar Park, Texas – Chapter 79
  - Michael Margrave, Alvarado, Texas – Chapter 67
  - Wilfred Myers, Superior, Wis. – Chapter 17

- Certified Professional Broadcast Engineer (CPBE)
  - Dennis Hamilton, Okarker, Fla. – Chapter 88

- Certified Broadcast Networking Technologist (CBNT)
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  - R. Allen Fowler, Murray, Ky. – Chapter 103
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  - Timmy McGuire, Archer, Fla. – Chapter 7
  - David Parker, Murfreesboro, Tenn. – Chapter 103
  - Steven Sabin, Glen Rock, N.J. – Chapter 15
  - Steve Scott, Las Vegas, Nev. – Chapter 128

CERTIFIED RADIO OPERATOR® (CRO®)
- Certified Radio Operator® (CRO®)
  - Patrick Morgan, Lenoir, N.C.
  - Randy Ray, Canyon, Texas
  - Russell Toof, APO, AE
  - Jacob Workman, Portales, N.M.
  - KENNECOTT RADIO
  - Kenneith Siemers, Seal Beach, Calif.

CERTIFIED TELEVISION OPERATOR® (CTO®)
- Certified Television Operator® (CTO®)
  - David Boles, Grand Rapids, Mich.
  - Andrew Carlson, Clearwater, Fla.
  - Patrick Morgan, Lenoir, N.C.
  - Evelyn Schultz, Columbus, Ind.

- NEW FRONTIER MEDIA
  - Tyson Strum, Boulder, Colo.

- DIRECTV
  - Joann Ban, Los Angeles, Calif.

RECERTIFICATION
The following 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.

- Certified Professional Broadcast Engineer (CPBE)
  - Keith Emerick, Ohkoko, Wis. – Chapter 90
  - William Sacks, Hollywood, Md. – Chapter 57
  - Joseph Tyni, Orefík, Wis. – Chapter 110

- Certified Professional Broadcast Engineer (CPBE)
  - 8-VSB Specialist (8-VSB)
  - Alwise Scott, Las Vegas, Nev. – Chapter 128

- Certified Senior Radio Engineer™ (CSRE®)
  - Amado Abenojar, Mesquite, Texas – Chapter 97
  - Michael McCarthy, Madison, Wis. – Chapter 24
  - Michael McCarthy, Woodridge, Ill. – Chapter 26

- Certified Senior Television Engineer™ (CSTE®)
  - Michael Norton, Madison, Wis. – Chapter 24

- Certified Broadcast Radio Engineer™ (CBRE®)
  - Donald Russell, Jr., Waterloo, Iowa – Chapter 96
  - David Wilson, Arlington, Va. – Chapter 57

- Certified Broadcast Networking Technologist® (CBNT)
  - Shui Wah Chan, El Segundo, Calif. – Chapter 47
  - Tamara Ehle, San Jose, Calif. – Chapter 40
  - David Ericksen, Anchorage, Alaska
  - Michael Kempton, Medford, Ore. – Chapter 141
  - Gregory Tomlin, Asheville, N.C.

- Certified Audio Video Engineer™ (CAVE)
  - Gregory Lesko, Hampton, Va. – Chapter 24

- Certified Audio Engineer® (CAE)
  - Michael McCarthy, Woodbridge, Ill. – Chapter 26

- Certified Broadcast Networking Technologist® (CBNT)
  - Robert Moye, Gaithersburg, Md. – Chapter 37
  - Todd Nicholls, Colton, Calif. – Chapter 131
  - Mina Zaki, San Diego, Calif. – Chapter 36

- Certified Broadcast Technologist® (CBT™)
  - Shui Wah Chan, El Segundo, Calif. – Chapter 47
  - Tamara Ehle, San Jose, Calif. – Chapter 40
  - David Ericksen, Anchorage, Alaska
  - Michael Kempton, Medford, Ore. – Chapter 141
  - Gregory Lesko, Hampton, Va. – Chapter 54
  - David Parker, Murfreesboro, Tenn. – Chapter 103
  - David Thimsen, Boise, Idaho – Chapter 115

- Certified Broadcast Technologist® (CBT®)
  - Shui Wah Chan, El Segundo, Calif. – Chapter 47
  - Tamara Ehle, San Jose, Calif. – Chapter 40
  - David Ericksen, Anchorage, Alaska
  - Michael Kempton, Medford, Ore. – Chapter 141
  - Gregory Lesko, Hampton, Va. – Chapter 54
  - David Parker, Murfreesboro, Tenn. – Chapter 103
  - David Thimsen, Boise, Idaho – Chapter 115

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  - Michael Kempton, Medford, Ore. – Chapter 141
  - Gregory Lesko, Hampton, Va. – Chapter 54
  - David Parker, Murfreesboro, Tenn. – Chapter 103
  - David Thimsen, Boise, Idaho – Chapter 115

- Certified Television Operator® (CTO®)
  - Susan John, Virginia Beach, Va.
  - Jeffery Pillivant, Westerville, Ohio
  - Gregory Tomlin, Asheville, N.C.

- Certified Broadcast Networking Technologist® (CBNT®)
  - Shui Wah Chan, El Segundo, Calif. – Chapter 47
  - Tamara Ehle, San Jose, Calif. – Chapter 40
  - David Ericksen, Anchorage, Alaska
  - Michael Kempton, Medford, Ore. – Chapter 141
  - Gregory Lesko, Hampton, Va. – Chapter 54
  - David Parker, Murfreesboro, Tenn. – Chapter 103
  - David Thimsen, Boise, Idaho – Chapter 115

- Certified Telecommunications Operator® (CTO®)
  - Susan John, Virginia Beach, Va.
  - Jeffery Pillivant, Westerville, Ohio
  - Gregory Tomlin, Asheville, N.C.
The annual breakfast of SBE Fellows and national SBE officers was attended by (left to right, front row) Dick Burden, Ray Benedict, Richard Rudman, Ralph Hogan, Chriss Scherer. (Back row) Joe Snelson, Jim Leifer, Fred Baumgartner, John Poray, Chris Imlay, John Heimerl, Jerry Massey, and Vinny Lopez.

SBE President Ralph Hogan presents a thank you gift to guest speaker, Harris Morris, President of Harris, Broadcast Communications Division.

SBE Past President and editor of Radio magazine, Chriss Scherer paid tribute to SBE founder and Member #1, the late John Battison, with a pictoral tribute which he narrated.

Ralph Hogan, SBE President, presents the SBE Technology Award to Orban company representative, John Schaab.

Jim Armstrong of the Telos Alliance with Lynn Heimerl, winner of the Omnia One FM Audio Processor his company provided.

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Photo recap of the SBE National Awards Dinner

SBE President Ralph Hogan presents the 2012 James C. Wulliman SBE Educator of the Year Award to Wayne Pecena of College Station, Texas.

Wiley Boswell of Montgomery, Ala. receives the 2012 Robert W. Flanders SBE Engineer of the Year Award from SBE President, Ralph Hogan.

Tony Roccanova, chairman of SBE Chapter 48 in Denver, receives thanks from SBE President Ralph Hogan for the effort he and his chapter made to host the SBE National Meeting.

President Hogan recognizes SBE Executive Director, John Poray for 20 years of service with the society.

SBE Immediate Past President Vinny Lopez at the controls during the live stream of the Membership Meeting.

Winners of the SBE Chapter Awards gather for a group photo.
Looking ahead to educational opportunities in 2013 from the SBE

As 2012 comes to a close, it is not too late to take advantage of several SBE offered professional development opportunities. Don’t miss the upcoming education events before 2012 comes to a close, which can be found on page 11. Visit www.sbe.org for further information and to register for any of these events before 2012 slips away.

What Is Planned for 2013?

SBE provides many valuable benefits to its membership. Education and professional development is one of the most important and vital services provided by the society; and a society benefit that I am passionate about. As the newly appointed chair of the SBE Education Committee, I will work to continue the efforts of the education committee to identify and develop timely professional development programs that provide practical education to the SBE membership and the broadcast industry in a cost-effective manner.

Broadcast engineering has always been a unique field that requires a diverse set of skills and knowledge. The explosion of digital technology in the industry continues to expand the knowledge scope. IP Networking will continue to be a focus area, whether expanding your skill set to face daily challenges or preparing for one of two SBE networking oriented certifications. The changing regulatory landscape will require new knowledge in spectrum efficiency areas ranging from Spectrum Reallocation to White Space device integration. The broadcast engineer is evolving into a system manager. To address the changing landscape, a project management course in partnership with the Project Management Institute will be offered online that can lead to Project Management Professional or PMP® certification.

A new education focus will be a professional development package targeted at group broadcasters offering customized educational program content. The program will help companies better plan, coordinate, and budget their education efforts, better educate their workforce, and overall develop better certified engineers within their organizations.

Partnerships with regional and state broadcast organizations will receive attention with the goal of forming and strengthening awareness of the SBE at these local events by providing educational programs, certification opportunities, and membership opportunities.

Plans are being made for the 2013 SBE Leadership Development Course. This event has been held for the past several years in Atlanta. The goal will be to move the course throughout the country to allow better access by the membership when travel budgets are limited. If your company is interested in sending multiple engineers and/or IT professionals to this course, contact Kimberly Kissel at kkissel@sbe.org. We may just bring the course to your area. Many of us have learned that managing technology is easy, but managing the human aspects of the organization can be many times more challenging. This three-day, instructor led course will definitely improve your leadership ability and your understanding of workplace dynamics with practical techniques you can put to use daily.

Eleven to fifteen webinars are planned for 2013 covering a variety of topics. Webinars are usually conducted live, but are also recorded for later viewing and review.

In addition the 2013 schedule of Ennes Workshops is being developed. These one-day events offer an array of educational opportunities and are a must attend event. Look for one coming to your region of the country in the future as well as the traditional Ennes Workshop marking the start of the 2013 Broadcast Engineering Conference at the NAB Show on April 6, 2013.

The Technical Presenters Group brings SBE sponsored presenters to your local chapter or broadcast industry events. Presentations are tailored to the needs of the local audience. Presentations can range from half-day to full-day events. Several full-day intensive “IP Networking Classes” are expected to be offered in 2013.

What About Today?

The society has many different education offerings today ranging from SBE University, online and on-demand courses, to live and archived webinars. SBE University offers structured courses that allow you to choose when you are available to attend the courses. Topics range from 8VSB principals to use of SNMP in broadcast monitoring and control to AM Antenna Modeling to ENG truck operation. The featured course, “The New Lifecycle of Media”, offers a tutorial of IP and File Based Architecture and Workflow.

Over 15 recorded or archived webinars are available. These webinars are less intensive and are usually an hour or so in length. Several are free, based upon generous support of industry sponsors. Topics include various aspects of IP Networking, AM Antenna Modeling, Chief Operator Responsibilities, FCC Inspections, a Streaming Radio Tutorial, just to mention a few.

Consider taking advantage of some holiday downtime by advancing your skills and knowledge by undertaking one of the cost effective professional development opportunities offered by the SBE through SBE University or recorded Webinars by SBE.

How Can You Help?

The education committee is comprised of your peer SBE members that volunteer their time, knowledge, and expertise to identify education needs of the membership and industry, determine and review content of programs offered, and select those best qualified to deliver the desired content.

Let the SBE Education Committee know your professional development interests and needs. Suggest presenters that you feel have expertise and knowledge to share with the industry. Volunteer your knowledge and expertise by providing educational events to the SBE membership. Remember, the SBE is your society!

Members of the SBE receive discounts on education and professional development opportunities. Visit www.sbe.org today to review a variety of educational opportunities and/or join the ranks of the SBE membership. For more information on any SBE Education program, contact Kimberly Kissel, education director at the National SBE office.

HOWARD from page 5

Docket 10-153, the FCC adopted in 2011 in the Wireless Backhaul proceeding a requirement that licensees of TV pickup stations in the 6875-7125 MHz and 12700-13200 MHz bands register all stationary receive sites using the ULS. You will soon hear from FCC more about this, but since the requirement is for your own protection and because FCC is now granting fixed microwave licenses in these bands, it is urgent that you not wait for FCC to make more noise about this requirement. Modify your licenses to add the sites. Do it now. It is good for you and your station and it will make Howard happy at the same time.
Recognition — we’d all like it once in a while
by John L. Poray, CAE
SBE Executive Director
jporay@sbe.org

I’ve written a number of times in the past about the three ingredients that make a good chapter. If a chapter has a mix of all three, it likely is a successful chapter with healthy attendance and members who feel that they benefit by participating. What are those three ingredients? They include providing quality education, ample opportunity for social interaction, and recognition of members for their professional accomplishments.

The focus of this article is on the recognition component. Among most professional associations, a primary purpose is to recognize members for their good work. The SBE is no different. At the chapter level, members can be recognized for professional achievement where they work, for their volunteer efforts with the chapter and for personal achievements, such as earning an SBE or other certification or the attainment of a degree.

By recognizing members, the SBE is providing an opportunity for public acknowledgement of professional achievements or volunteerism. There is so little opportunity for most members to receive that kind of recognition anywhere else. Members can be recognized for chairing a committee, serving as a chapter officer or heading up a chapter event. They can also be recognized for completing a new station building or remodeling project, or handling the frequency coordination at a major event held locally.

Recognition by a chapter can range from a more formal presentation at a special event to an announcement at a chapter meeting. Some chapters name an annual member or engineer of the year and present the award at the chapter’s holiday event or other special function. A good venue to recognize a member who has recently earned a certification from the SBE is during a chapter meeting, by the chapter’s chairman or certification chairman.

As most of you know, the SBE has a national awards program that provides the opportunity to recognize the achievements of individual members and chapters at the SBE National Meeting each fall. These include the Robert W. Flanders SBE Engineer of the Year, the James C. Wulliman SBE Educator of the Year, the SBE Fellow membership grade and a series of chapter awards. Members are urged to submit nominations for these awards. The nomination form and the list of awards are available on the SBE website, sbe.org. The deadline is June 15 each year.

One national award that has only been presented nine times in the history of the SBE is the John H. Battison Lifetime Achievement Award. As the name indicates, this award recognizes a lifetime of achievement in the industry or contributions to the industry and the SBE by a member. To be eligible, the nominee must have been in the industry for at least 40 years. Nominations can be made by any member of the SBE in good standing and must include the endorsement of three other SBE members in good standing. A complete nomination will include the nominee’s career biography and career fact sheet with a written explanation of why the individual should be considered for the award.

Unlike the other SBE National Awards, the John H. Battison Lifetime Achievement Award is presented in the spring at the SBE Membership Meeting, held during the NAB Show in Las Vegas. Recipients are not aware of the award until it’s presented. In fact, it’s best if nominees don’t know they have been nominated.

Well, there is a brief rundown of ways to recognize SBE members locally and nationally. It takes a little bit of time and effort to nominate someone or prepare to recognize them locally, but I think you’ll find it’s well worth it; to the winner, your chapter, and even to yourself.

MARK YOUR CALENDAR

CERTIFICATION EXAM SCHEDULE

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<th>Dates</th>
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<td>Feb. 8-18, 2013</td>
<td>Local Chapters</td>
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<td>April 9, 2013</td>
<td>NAB Show</td>
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<td>June 7-17, 2013</td>
<td>Local Chapters</td>
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WEBINARS BY SBE

IP Networking – Part 2: Routing & Switching
Presenter: Wayne Pecena, CPBE, 8-VSB, AMD, DRB, CBNE
December 4, 2-3:30 p.m. ET
SBE Members: $49; Non-Members: $75

ENNIES WORKSHOP

February 23, 2013
KVIE-TV
Sacramento, Calif.
SBE Members: $50; Non-Members: $40

BOARD from page 1

Chapter 54, Norfolk, Va., to take on the awards program action step. The Board voted to create separate ad hoc committees to look at the 50th Anniversary of the SBE and study rebranding of the society. The “Who Should Our Members Be” and “Outreach to Youth” action steps were merged into one item and will be developed by another ad hoc committee. A portion of the action step regarding support to chapters will also be addressed; creating training for SBE chapter leadership, likely through the use of free recorded webinars.

The ad hoc committees, as well as the Awards Committee, will report to the board in April 2013, or sooner, with final recommendations. At that point, the board will make final decisions on which action steps to pursue now and which will be pursued at a later date.

Further updates will be provided in The Signal as work progresses.
markets, including Flash, HTML5 and iOS and Android devices.

Ozer will then look at producing H.264, currently the only codec that can reach all relevant target markets. It will conclude with how to encode for single file and adaptive delivery to desktop, mobile and OTT devices and an overview of distribution options like Online Video Platforms, Content Delivery Networks and the Cloud.

Ozer has written or co-authored over 15 books on digital-video-related topics, including Video Compression for Flash, Apple Devices and HTML5, which was published in 2011.

Steve Lampen of Belden will be one of the featured presenters at the 2013 Ennes Workshop during the 2013 NAB Broadcast Engineering Conference in Las Vegas, Nev.

Steve Lampen, multimedia technology and product line manager at Belden, will present Audio Video Bridging. The presentation will outline how Ethernet is extended to become AVB, and how this relates to many proprietary Ethernet applications.

Lionel J. Garin, Ph.D. will speak on Mobile Devices Location and Authentication Technologies, What they are, and How They Could Benefit the Broadcasting Industry. Garin is Senior Director of Technology, Position and Location Department at Qualcomm Atheros, Inc. His presentation will discuss various methods for geo-location in the wired and wireless Internet, with a technical description on the principles involved. There'll be discussion of how these technologies may be applied for geo-fencing applications, such as enforcement of license restrictions, or the viewer usage reporting.

Making Integrated Production Systems Work will be discussed by Dr. Andrew Cross, Chief Technology Officer at NewTek, Inc. This presentation will cover the challenges of multi-platform content delivery, addressing the technology, workflow and delivery options that make it realistic and affordable to meet viewer demands.

Paul Adrian, principle at Latakoo, will present a case study on an Internet Video Delivery Solution. This presentation reviews the ways Latakoo is confronting the problem of sending large video files through a combination of compression, bandwidth optimization, and a sharing platform that simplifies the video file transfer.

“Meet Granville Klink” is a unique look at one broadcast engineer’s inadvertent creation of one of the best private collections of radio and television history, including equipment and personality photographs, and station documentation. His vast store of memorabilia remains intact and accessible. The author’s presentation provides a glimpse at some of the more interesting artifacts in the Klink collection as well as to Klink himself. Delivering this presentation is James E. O’Neal, Technical Editor at TV Technology magazine.

John Footen, Assistant Vice President, Broadcast and Advertising at Cognizant Technology Solutions will present, “Talkin’ bout my generation.” Media Consumption Patterns – Myths and Realities. This presentation will graphically present the latest in consumption data and trends on how media is consumed today across television, internet, mobile and social media and explore what this means for the future of broadcasting. Footen is a sought-after speaker and writer on software architecture and workflow issues.

Jake Sigal, founder and CEO of Livio Radio, will present Fragmentation – the Challenge New Media Faces Reaching Consumers. He’ll point out the macro issue at hand: fragmentation and discuss the state of the connected industry, areas that need improvement and brands that are on their way to getting it right. Livio is a leader in the car Internet radio industry.

Kevin Gross, Media Network Consultant with AVA Networks will present, AES X192. Gross initiated and leads an AES interoperability standardization effort for high-performance IP media networking. Work over the past two years has codified these practices into a proposed interoperability standard. This presentation will explain the scope and motivation of the work and discuss the future of high-performance media networking in broadcasting.

Multicasting in a Unicast World will be presented by John Maniccia, sales engineer with Octoshape, which has taken a unique approach to over-the-top video delivery to multiple screens in an effort to enable and offer the large scale, high quality and reasonable pricing of traditional broadcast TV to broadband and mobile networks.

More speakers and topics will be announced soon. Watch for announcements in SBE-news and in the February issue of The Signal.

Admission to the Ennes Workshop at the 2013 NAB Show is included with full-conference registration packages. Register at NAB.org.
Richard "Dick" Burden, CPBE, principal of Burden Associates in Canoga Park, Calif. and member since 1966. A.K.A “One Pitch” I was a freshman relief pitcher. Early in the season we were playing our varsity. With one out and the bases loaded, I was handed the ball with the words “let’s see what you can do kid”. One pitch, the ball came back to the box, I caught it, threw to third to double off the base runner and I was out of the inning. I never did that again. The much better career was broadcasting.

Best known for: I have been a member of Chapters 1 and 15 and was involved in the formation of Chapter 47 and was its first vice chair and its second chairman. I am currently active as certification chair and the scheduling of programs. I am honored to be a SBE Fellow and humbled to have been a recipient of the SBE Lifetime Achievement Award.

Focal Point: By far, what I enjoy or value most about my involvement with the SBE is the friendships that I have made with the fellow members and SBE staff over the years.

Sphere of Influence: My mentor was Jack Mulley. Jack was a returning WWII veteran who opened a radio repair shop near my home. He helped put together a sound system for a dance at my church. He let me hang around but encouraged me to learn more. Soon, I was helping him and earning my pay in Pepsi Colas (twice as much for a nickel too in those days). He made me promise to mentor others. I have fulfilled that promise and that chain of others has grown. I view SBE membership as a vehicle for transferring knowledge to others. This is a view I will always be willing to support.

Job Satisfaction: I can answer with just one word, “opportunities”. I have had the opportunity to meet and associate with some very capable engineers and to be involved in many interesting projects. I was honored to have been asked to serve on the FM Stereo Committee (NSRC), the Ad Hoc Committee for the Study of Television Sound and the BSTC committee, which gave us TV Stereo. I was also given the opportunity to develop what is now known as the Travelers Information Service and the establishment of 530 and 1610 as the original operating frequencies. It’s been a fun trip and I’m not done yet.

When I'm not working ... I guess my favorite hobby is people. I enjoy the interaction with people. I give of my time to my church and to an organization which provides a podcasting service to the blind. My family and my friendships are the greatest benefits to my life.

Pictured here: Dick talks with SBE Certification Director Megan E. Clappe after the 2012 SBE National Awards Dinner on October 24 in Denver Colorado.

CHAPTER SPOTLIGHT

by Ken Drewes, CPBE
SBE Chapter 3 Chairman

Variety of programs key to Chapter 3

Our records indicate the Kansas chapter of SBE dates back to January 1967. Engineers wanting to join were requested to pay a five dollar fee and national organization dues were 10 dollars at that time. There were twelve charter members, of which, one is still an active member.

By fall 1967 the chapter had become known as Chapter 3 with 32 members. Today 38 members with 19 certified make up the chapter and one member is studying for the new CBNE. Our chapter members are primarily radio and television employees and self-employed engineers that provide services in these areas.

Chapter 3 had members such as Brad Dick, former chief engineer of KMUW FM, Wichita State University and chairman of Chapter 3, who become editor of a national technical publication and former national president of the SBE, as did Jack McKain, former director of engineering for the Kansas State Network in Wichita, Kansas. Chapter 3 is also honored to have Bob Locke who became a Fellow member of the SBE in 2010. We also had our first female member join approximately three years ago who currently serves as secretary/treasurer.

Chapter 3 covers the state of Kansas except for a small portion of the Kansas City area. Our monthly meetings are primarily located in a triangular form from Wichita, Salina, Topeka and Manhattan, Emporia back to Wichita. The chapter has met as far west as Garden City, northeast to Overland Park and southeast to Chanute and Pittsburg, Kansas. Last winter an ice storm forced us to use a new technology, Skype, so Wichita members could attend a meeting held in Manhattan, Kan. Skype may become more common with rising fuel prices and weather conditions.

Chapter 3 holds evening meetings on the second Tuesday of the month except for an occasional change due to program schedule. Not only do we enjoy the tours and discussions of radio and television studios and transmitter sites, we visit other areas of interest such as our state capitol building, coal, natural gas and nuclear fueled power plants, a fluorescent light manufacturing plant, and emergency management centers. One of the favorite programs was a tour of the rebuilding and restoration of a B-29 bomber named “Doc” in a Boeing hanger, which was the location where the plane was originally built in the 1940’s. We must also remember our vendors who help sponsor programs and special events.

We do one meeting in the summer as a picnic. The last three years, a member who lives on some acreage has opened his home to the chapter for a cookout. This is the time to grab the guns and shoot some clay pigeons. Once, a clay pigeon went sailing in the air towards a birdhouse, I believe the birdhouse was either repaired or replaced.
CQ

Answer question on page 4

B. The originator, event, location, and valid time period of the message