Baun, Davis, Locke receive major SBE awards

Terry Baun receives SBE Lifetime Achievement Award

Terrence M. Baun, CPBE, AMD, CBNT, Director of Engineering and Operations for the Wisconsin Educational Communications Board in Madison, was presented with the Society of Broadcast Engineers Lifetime Achievement Award during the 2010 SBE spring membership meeting. The meeting was held on April 13 at the Las Vegas Convention Center during the 2010 NAB Show.

The SBE Lifetime Achievement Award

Sterling Davis, Robert Locke, named SBE Fellows

Two members were recently elected by the Board of Directors to the rank of Fellow, the highest membership level in the Society of Broadcast Engineers.

Sterling E. Davis is Vice President, Technical Operations for Cox Media Group at its

Candidates announced for SBE Board of Directors

The SBE national Nominations Committee has submitted a slate of candidates for the upcoming national Board of Directors election. The committee is chaired by Board Member, Jim Leifer, CPBE of Boynton Beach, Fla. Serving on the committee with Jim are Leonard Charles, CPBE, Madison, Wis., William Ryall, Portland, Maine and James Schoedler, CBNT, Denver, Colo..

The slate of candidates was submitted by the Committee to the SBE National Office on May 1. The list follows. Qualified members may still be nominated by a voting member if accompanied by the endorsement of at least nine additional members. Nominations from the membership must be received by the SBE National Office no later than 4:00 pm, EDT, July 12. Nominees must be voting members (Regular, Senior, Life or the official representative of a Sustaining Member) in good standing (dues paid through March 31, 2011) and hold a current SBE engineering
level certification (CBT or higher) by July 12, 2010 and all through Board service if elected.

All four officer positions will be on the ballot as will six of the 12 director seats. Officer terms are for one year while director terms are for two years. Election ballots will be mailed from the National Office to voting members in good standing by July 27 and are to be returned so they are received by the National Office by August 26. Votes will be tabulated on the evening of August 26. Those elected will take office during the SBE National Meeting on October 27 in Madison, Wis. The National Meeting is being held in conjunction with the Wisconsin Broadcasters Clinic, presented by Chapter 24 of Madison and the Wisconsin Broadcasters Association.

The list of candidates as submitted by the Nominations Committee includes:

**President**
Vincent Lopez, CEV, CBNT
Director of Engineering, WSYT/WNYS TV
Syracuse, NY

**Vice President**
Ralph Hogan, CPBE, DRB, CBNT
Director of Engineering
KJZZ-FM/KBAQ-FM
Tempe, AZ

**Secretary**
Ted Hand, CPBE, 8-VSB, AMD
Chief Engineer
WSOC-TV, WAXN-TV
Charlotte, NC

**Treasurer**
Andrea B. Cummis, CBT, CTO
Technology and Operations Consultant
Roseland, NJ

**Director Candidates**

<table>
<thead>
<tr>
<th>Name</th>
<th>Role</th>
<th>Company/Position</th>
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<tbody>
<tr>
<td>Tim Anderson</td>
<td>President, CSRE</td>
<td>Manager, Strategic Radio, Harris Corporation</td>
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<td>Covington, KY</td>
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<tr>
<td>Ralph Beaver</td>
<td>President, CBT</td>
<td>President, CEO, Media Alert, LLC</td>
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<td></td>
<td>Tampa, FL</td>
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<tr>
<td>Paul J. Burnham</td>
<td>President, CSTE</td>
<td>Field Support Manager, Communications, e2v Inc.</td>
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<td>Poughkeepsie, NY</td>
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<tr>
<td>Dale Gehman</td>
<td>President, CPBE</td>
<td>Gehman Compliance and Consulting</td>
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<td>Akron, PA</td>
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<tr>
<td>Ched Keiler</td>
<td>President, CPBE</td>
<td>Director of Engineering, Reach Communications</td>
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<td>Ft. Lauderdale, FL</td>
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<tr>
<td>Andrea B. Cummis</td>
<td>President, CBT</td>
<td>Vice President of Engineering &amp; IT, Cumulus Media</td>
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<tr>
<td></td>
<td></td>
<td>Atlanta, GA</td>
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<tr>
<td>Gary Liebisch</td>
<td>President, CPBE</td>
<td>Regional Sales Manager – Eastern, U.S.</td>
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<td>Nautel, Inc., Milford, OH</td>
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<tr>
<td>Scott Mason</td>
<td>President, CPBE</td>
<td>CBS Radio, Los Angeles, CA</td>
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<tr>
<td>Marcelo Sanchez</td>
<td>President, CPBE</td>
<td>Director Broadcast, Operations and Engineering</td>
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<td>WFOR-TV/WBFS-TV, Miami, FL</td>
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<tr>
<td>Jeff Smith</td>
<td>President, CSRE</td>
<td>Supervisor of Studio Systems, Clear Channel Radio</td>
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<td>New York, NY</td>
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<tr>
<td>Conrad Trautmann</td>
<td>President, CPBE</td>
<td>Executive Vice President of Technology, Dial Global</td>
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**If you have not yet renewed your SBE membership, you risk losing valuable member benefits, such as member access to JobsOnline, insurance coverage and discounts on workshops, seminars, certification and books. Membership renewals were due on April 1, 2010. If you have not yet renewed your membership renew online before June 30, 2010 at www.sbe.org or contact the National Office at (317) 846-9000.**
By-law changes approved

At the April 11, 2010 meeting of the SBE Board of Directors, the Finance Committee recommended a new policy that would provide for reimbursement of national Board and Executive Committee members for travel costs to attend certain meetings of the Board and Executive Committee. The Board approved the policy, which required two changes to the SBE By-laws so that the new provisions could be carried out. The Board also approved a third By-law change, related to Officer reimbursement of expenses. The old and new By-law language is provided below for each of the three changes.

Board Member Reimbursement

PREVIOUS Article III, Section 10
Section 10. No member of the Board of Directors shall be reimbursed from the Treasury of the Society for expenses in attending any Board or Committee meeting. Members of the Board of Directors may be reimbursed for reasonable travel and lodging expenses to attend meetings of the Board, as designated by the Board of Directors. Members of the Board of Directors may also be reimbursed for reasonable out-of-pocket expenses necessarily incurred in pursuing Society business by any Chapter, should that Chapter so desire.

APPROVED Article III, Section 10 on April 11, 2010
Section 10. Members of the Board of Directors shall be reimbursed for reasonable travel and lodging expense to attend meetings of the Board, as designated by the Board of Directors. Members of the Board of Directors may also be reimbursed for reasonable out-of-pocket expenses necessarily incurred in pursuing Society business by any Chapter, should that Chapter so desire.

Executive Committee member Reimbursement

PREVIOUS Article IV, Section 4
Section 4. The Executive Committee shall consist of the elected Officers and the Immediate Past President, and two Directors as appointed by the President.

APPROVED Article IV, Section 4 on April 11, 2010
Section 4. The Executive Committee shall consist of the elected Officers and the Immediate Past President, and two Directors as appointed by the President. Members of the Executive Committee may be reimbursed for travel and lodging expense to attend meetings of the Executive Committee, as designated by the Board of Directors.

Article IV, Section 3, also has to do with expense reimbursement of officers. Currently, it provides that any officer has the right to be reimbursed for any reasonable expense in carrying out his or her duties, on demand, simply by presenting receipts. Changing the word, “shall” to “may,” was recommended and approved by the Board. This would keep it from being an obligation on the Society without a specific Board policy in place. Below are the old and new texts.

PREVIOUS Article IV, Section 3
No officer shall receive any compensation from the Society for services performed in his official capacity, but Officers may be reimbursed for reasonable expenses in the performance of official duties upon presentation and verification of such expenses.

APPROVED Article IV, Section 3 on April 11, 2010
No officer shall receive any compensation from the Society for services performed in his official capacity, but Officers may be reimbursed for reasonable expenses in the performance of official duties upon presentation and verification of such expenses.

If you have any questions about these changes or the By-laws in general, contact By-laws committee chairman, Gary Liebisch, gary.liebisch@nautel.com or executive director, John Poray, jporay@sbe.org.
Moving on, I want to personally congratulate the two newest SBE Fellows, Robert Locke, Chief Engineer for KPTS in Maize, KS, and Sterling Davis VP of Engineering for Cox Media Group in Atlanta, GA. The SBE Fellow Award recognizes members who have rendered conspicuous service, or who have made valuable contributions to the advancement of broadcast engineering or its allied professions, the dissemination of knowledge thereof or the promotion of its application in practice. Both of you are well deserving of this honor.

Have you ever thought about running for an elected office in SBE but just didn’t have the resources to pull it together? A change is looming on the horizon. At the April Board of Directors meetings the Board voted to start to provide financial assistance to SBE Directors and Officers for attending SBE Board meetings. This will begin in 2012, so that it will be a new Board with new individuals, and little ties to the board that approved it. An initial amount of up to $300 per meeting has been approved, and the appropriate By-law changes made to allow it.

The goal here was to make it easier for those talented individuals in the SBE ranks to serve on the Society's governing body. We think it will be a big step forward.

A reminder to all of you, if you haven’t contacted your senators and congressmen yet about S2881/HR4809, the “FCC Commissioners Technical Resource Act”, we at SBE encourage you to do so. For more information, visit www.sbe.org.

Lastly, a reminder about my newsletter article title contest. If you discover the commonality between the titles of my Signal articles you could land something nice. We’ll solicit responses in the fall, and award some prizes.
The perfect storm
by Chris Imlay, CBT®
SBE General Counsel

There is a hilarious scene in one of the Marx Brothers movies (I forget which one, so I obviously have to watch them all again soon) in which, as the plot develops, there are far too many people crowded into a very small stateroom on a trans-Atlantic cruise ship. Groucho has called for room service, and when the attendant arrives, knocks on the door and opens it, everyone falls out in a big heap. Low-brow humor, but screaming funny anyway, and timeless.

The core TV channels are getting like that. The purpose of SBE’s frequency coordination program is to maximize efficiency in the use of a scarce resource. However, any efficient channel assignment program fails if the amount of available spectrum falls below the minimum necessary to accomplish the task, given the volume of users, the total bandwidth available, the total bandwidth required, the duty cycles of the users, and a few other factors (power, antenna directionality, etc.). There is a very real danger of falling below that minimum in the near term in the core television channels.

It is easy to see a bunch of trees and overlook the forest in tallying up the effect of FCC actions and proposals for overlays in the television channels. Let’s look at the list as it stands now. With the DTV conversion completed in 2009, and the reallocation of the 698-806 MHz band for public safety and commercial broadband (with all BAS operation migrating below 698 MHz by June of this year), this leaves Channels 2-51 available. These channels must accommodate DTV, LPTV, Class A TV, Part 74 BAS Low-Power Auxiliary, unlicensed wireless mics, and TV “White Spaces” devices (remember them?) all clustered in the same residual spectrum. Crowded, right? We can’t really coordinate the unlicensed wireless mics or the white spaces devices very effectively, so the bands become a donnybrook. Factor in the land mobile use of several of the channels, including the “T-band” at 470-512 MHz in many markets, and the fact that Channel 37 is unusable, and what is left available for broadcasters is even more tenuous.

Then comes the National Broadband Plan (NBP) released to Congress in March. It calls for 500 MHz to be made available within ten years for broadband, of which 300 MHz should be within the segment 225 MHz to 3.7 GHz, and made available within five years. Recommendation 5.8.5 of the NBP is especially alarming: the FCC should institute a rulemaking to reallocate 120 megahertz from the broadcast television service, for mobile broadband due to propagation characteristics of that spectrum. FCC says that this will have limited effect on the over-the-air broadcasters.

The number crunchers take over the argument at this point. They say in the NBP that there is a “value of spectrum” gap: mobile broadband in a 6 MHz channel is worth ten times the value of a television channel on average. The demand for mobile broadband is escalating at a tremendous rate, says the Commission, while the demand for over-the-air TV is “challenging” in longer term trends. FCC noted a 26% revenue decline since 2005. The NBP says that over-the-air TV is an “inefficient spectrum use” because repacking of channels is possible; the auctioning of TV spectrum and permitting “voluntary channel sharing” is possible. The FCC is considering overlay license auctions or “more extensive channel sharing.” This, supposedly, will take into account LPTV, wireless mics, and white spaces devices. The FCC Chairman recently described the NBP as it affects broadcasters as a “well-balanced plan designed to be a “win-win” for broadcasters (and mobile internet providers and the American people). Voluntary incentive auctions would, he says, permit sharing with broadcasters “a meaningful part” of the billions of dollars of value that would be unlocked if “some broadcast spectrum” was converted to mobile broadband. This would give broadcasters a “choice” to contribute their licensed spectrum and participate in the “upside”. Channel sharing would be optional, and would allow cost (and spectrum) sharing between or among broadcasters in a market (thus signaling the demise of over-the-air HDTV. While much has been touted by FCC about the “upside” of these options to broadcasters, and the voluntary nature of the plan, what is unstated is what will happen if too few broadcasters in some markets decide to participate. The Chairman says that he thinks it will not come to that. Well, what if it does come to that? Does the “voluntariness” go away, and the “taking” begin?

The Perfect Storm has started already. In mid-April, while the NAB convention was going on, Congress was passing H.R. 3125, the Radio Spectrum Inventory Act, which provides for an inventory of spectrum between 225 MHz and 3.7 GHz within one year of passage, including assessment of the spectrum efficiency of each incumbent user in that segment. If anyone can’t see the writing on the wall here, please reread the previous four paragraphs.

What can broadcast engineers do about this? Well, big things, and small things as well. SBE will, with its strategic partners, NAB and MSTV, be noting to both Congress and the FCC that there are technical limits here-- overlays and reallocations beyond which free television and the production...
For the last 8 months the SBE has been working on creating a new version of CertPreview, the software which provides a sample view of SBE Certification exams. This version of CertPreview can be downloaded from the SBE website after it is purchased for immediate use. Alternatively, if you cannot use an Internet connection, you may have a CD version of the program mailed to you.

This new version of CertPreview will allow you to go through the testing process, change any answers before you have scored your sample exam and then once the exam is scored, allow you to go back and review the correct answer. Also, when you score your exam, you will be given a breakdown of categories that make up the certification test. Here you will be able to find out where your strengths and weaknesses are and then study appropriately.

An important reminder is that the majority of SBE Certifications are open book exams. Only the Operator exams and the essay portion of the Senior exams are closed book. The CertPreview questions are comprised of questions that are very similar to the ones you may find on an actual exam. This does not mean that every question contained on an actual exam will appear in the CertPreview questions. The CertPreview was designed to give you an idea of what to expect on the actual exam and to show you how questions and answers may be phrased. You can purchase the new CertPreview software on the SBE website at www.sbe.org/certpreview.

At NAB this year, SBE also debuted the SBE Certified logo. This is a new way for you to show your SBE Certifications. The suggestion was made by a Tucson SBE member who wanted a way to show off his certifications on his business cards. Please visit the SBE website for more information on how this should be used.

Also at NAB, we recognized a number of Chapter Certification Chairmen with service anniversaries this year. Over 170 years of service contributed by these individuals help make the Certification Program work for those in our industry. SBE relies heavily on its member-volunteers to make Certification, as well as other SBE programs, work. If you haven’t had an opportunity to serve your chapter, please consider it the next time chapter elections come up or the chapter is looking for someone to help out. And to all of you who either have helped or are helping – THANKS!
SBE Certification 2010 Exam Schedule

**Dates**
- June 4-14, 2010
- August 6-16, 2010
- November 5-15, 2010

**Location**
- Local Chapters
  - Local Chapters
  - Local Chapters

**Application Deadline**
- CLOSED
  - June 4, 2010
  - September 17, 2010

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**Newly Certified CBRE®**

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 Senior Broadcast Engineer® level.

**Certified Professional Broadcast Engineer® (CPBE®)**
- Edmund Barry, Glendale, AZ – Chapter 9
- Jeffrey Browne, Shingle Springs, CA – Chapter 43
- Barry Erick, Dallas, PA – Chapter 2
- Kevin Ruppert, Madison, WI – Chapter 24
- B.G. Williams, Knoxville, TN – Chapter 113

**Certified Broadcast Networking Technologist® (CBNT®)**
- Jeffrey Browne, Shingle Springs, CA – Chapter 43
- Kevin Ruppert, Madison, WI – Chapter 24

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**February Exams**

“Thank You” Chapter Certification Chairs for your assistance.

**Certified Senior Television Engineer® (CSTE®)**
- Robert Butler, Roseville, TX – Chapter 67
- H. Joe Clary, Knoxville, TN – Chapter 113
- Joseph Kirby, Hartselle, AL – Chapter 111
- Timothy Williams, Kearney, NE – Chapter 87

**Certified Broadcast Television Engineer® (CBTE®)**
- Mark Gem, North Little Rock, AR
- Chris Thomas, Bremerton, WA – Chapter 16

**Certified Broadcast Networking Technologist® (CBNT®)**
- James Malone, Jefferson City, MO – Chapter 55

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**SBE Certified School Course Completion**

**Certified Broadcast Technologist® (CBT®)**
- Daniel Halgash, Warrington, PA – Chapter 18
- Marty Lee, Seneca, SC – Chapter 86
- Devin Smith, Leeds, AL – Chapter 68

**Bates Technical College**
- Sammy Barron
- Christopher Brown
- Mitchell Debrow
- Eric Johnson
- Jeremy Lazzuri
- Christopher Tiller

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**Certified Television Operator® (CTO®)**

Gary Cox, Lasing, MI
Jim Moyer, Los Angeles, CA

**Special Proctored Exams**

**Certified Broadcast Networking Technologist® (CBNT®)**
- Paul Bordain, Green Cove Springs, FL – Chapter 42
- Anthony Stokes, FPO, AE

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**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®)**
- Larry Beavers, Fall River, MA – Chapter 11
- Thomas Daniels, Houston, TX – Chapter 105
- Paul Kemper, Palm Harbor, FL – Chapter 39
- David Pritchard, Gurnee, IL – Chapter 28

**Certified Senior Radio Engineer® (CSE®)**
- Alan Junjor, Syracuse, NY – Chapter 22

**Certified Broadcast Radio Operator® (CRO™)**
- Ashley Wallen, Inglewood, CA – Chapter 47

**Certified Broadcast Networking Technologist® (CBNT®)**
- Thomas Rock, Cape Girardeau, MD – Chapter 55
- Brian Flynn, Johns Creek, GA – Chapter 5
- Richard Humphrey, Carmichael, CA – Chapter 43
- Alan Junjor, Syracuse, NY – Chapter 22
- John Mazza, Proser, NM – Chapter 54
- David Pritchard, Gurnee, IL – Chapter 28

**Certified Broadcast Technician® (CET®)**
- Christopher Castro, Kansas City, MO – Chapter 59
- Glen Graham, Riverside, CA – Chapter 131
- Blaine Hackbush, South Milwaukee, WI – Chapter 28
- Stephen Hendrix, St. Joseph, MO – Chapter 59
- Nita Leighton-Graham, Riverside, CA – Chapter 131
- Richard Humphrey, Carmichael, CA – Chapter 43
- Amanda Kjewin, Vancouver, British Columbia
- John Sage, Phoenix, CA – Chapter 9
- Chad Thielen, Schaumburg, IL – Chapter 26
- Charles Thomason, Woodstock, GA – Chapter 5

**Certified Television Operator® (CTO®)**
- Roberto Alcaraz, Fallbrook, CA
- Nick Grbac, South San Francisco, CA – Chapter 40
- Rebecca Jacobs, Moreno Valley, CA
- Adam Loyd, Cleveland, OH – Chapter 70
- Thomas Riggins, Jacksonville, FL – Chapter 7

**Certified Radio Operator® (CRO™)**
- Carolyn Branson, Tolula Lake, CA

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**CQ**

What’s your Certification Quotient?

In an IPv4 packet, the actual data being sent is contained in which field?

A. The field immediately following the header checksum field.
B. The first field following the address field.
C. The field before the header checksum field.
D. The last field.

(answer on page 12)
Above: President Vinny Lopez, CEV, CBNT recognizes the National Certification Committee Chairman James T. Bernier, CPBE, CBNT for his 15 years of service on the Certification Committee.

Left: President Vinny Lopez, CEV, CBNT presents the SBE Lifetime Achievement Award to Terrence M. Baun, CPBE, AMD, CBNT.

This year four SBE Sustaining Members celebrated their 25th anniversary with the Society. President Vinny Lopez, CEV, CBNT honored the companies during the Membership Meeting. Top Left: Michael Bach of Kathrein Inc. Scala Division. Top Right: Alan Lewis of Canon USA, Inc. Bottom Left: Steve Mahrer of Panasonic Broadcast and Digital Systems Company. Bottom Right: Bob DuTrel Jr. of du Treil, Lundin and Rackley, Inc.

Above: President Vinny Lopez, CEV, CBNT recognized members of the NAB Broadcast Engineering Conference Committee (L-R) Fred Baumgartner, CPBE, CBNT; Joe Snelson, CPBE, 8-VSB; Dom Bordonaro and Jeff Smith, CSRE, CBNT.

Above: The SBE Spring Membership Meeting was held on Tuesday, April 13 at 5:00 pm. Close to 150 members and friends were in attendance.

Digital STLs
AM/FM/TV

(805) 968-9621
www.moseleysb.com
Left: Many 2010 NAB Show attendees visited the SBE Booth located in the Las Vegas Convention Center South Hall, lobby booth L29.

Left: The new and improved SBE CertPreview™ software was available to try at the SBE Booth.

Top Left: David Priester, CPBE receives a plaque for five years of service as Certification Committee Chairman for Chapter 140, Ithaca, NY, presented by Certification Committee member Terrence M. Baun, CPBE, AMD, CBNT.

Top Right: Gary L. Stigall, CPBE receives a pin recognizing his first year of service as Certification Committee Chairman for Chapter 36, San Diego, presented by Certification Committee member Christopher H. Scherer, CPBE, CBNT.

Bottom Left: J. Eric Hoehn, CSRE, CBNT receives a plaque for 10 years of service as Certification Committee Chairman for Chapter 37, District of Columbia, presented by Certification Committee member Ralph Hogan, CPBE, DRB, CBNT.

Bottom Right: Christopher H. Scherer, CPBE, CBNT presented Larry W. Rixman, CBTE, CBNT with a plaque recognizing 20 years of service as Certification Committee Chairman for Chapter 35 Kentucky.

Left: Christopher Kelley, CBT won a SONY camcorder during the prize giveaway. Door prize tickets were given at the beginning of the meeting and Christopher Kelley, CBT had the winning number.

Above: The SBE Spring Membership Meeting was held on Tuesday, April 13 at 5:00 pm. Close to 150 members and friends were in attendance.

Left: The SBE Ennes Workshop “Continuing the Digital Transition” was the first of many SBE events during the 2010 NAB Show. The Ennes Workshop was held Saturday, April 10 from 8:00 am - 5:00 pm in the Las Vegas Convention Center room S219.

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Bottom Right: Christopher H. Scherer, CPBE, CBNT presented Larry W. Rixman, CBTE, CBNT with a plaque recognizing 20 years of service as Certification Committee Chairman for Chapter 35 Kentucky.

Left: Christopher Kelley, CBT won a SONY camcorder during the prize giveaway. Door prize tickets were given at the beginning of the meeting and Christopher Kelley, CBT had the winning number.

Above: The SBE Spring Membership Meeting was held on Tuesday, April 13 at 5:00 pm. Close to 150 members and friends were in attendance.

Left: The SBE Ennes Workshop “Continuing the Digital Transition” was the first of many SBE events during the 2010 NAB Show. The Ennes Workshop was held Saturday, April 10 from 8:00 am - 5:00 pm in the Las Vegas Convention Center room S219.
Computer Networking for Broadcast Engineers

New course on SBE University - On-line. On-Demand.

The purpose of this course is to give the student an introduction to the fundamental concepts of computer networking. The course covers computer topologies (both physical and logical), media types, the OSI model and local area networking. Some legacy material is reviewed, but the primary focus is on Ethernet, TCP/IP and other current computer networking protocols. Hardware, such as switches and routers, will be covered and software such as VLAN, VPN, and NAT as well. Some basic troubleshooting, security and administrative procedures will also be reviewed. Overall, the course is meant as an introduction, covering many subjects at a high level in order to assist the broadcaster in passing the SBE Certified Broadcast Networking Technologist exam.

This course was written for SBE by Paul Claxton, CPBE, CBNT. Mr. Claxton is a retired US Navy Master Chief Petty Officer and has been an SBE member for more than ten years. He is active in the Society as current and past SBE Chapter 131 chair and certification chair.

Other SBE University courses available: AM Antenna Systems, Voice Telco Networks and Studio Interface Systems, 8-VSB, AM Antenna Computer Modeling, FM Transmission Systems and Matching Networks and Phasing. For more information on any of the courses on SBE University, visit SBE’s website at http://www.sbe.org/SBEUniversity.php.

MARK YOUR CALENDAR

Webinars by SBE - www.sbe.org/WebinarsbySBE.php
June 15 - Maximizing HD and 1080p/60 Cable Performance
Instructed by Steve Lampen, CBRE
July 13 - Human Factors in Broadcasting
Instructed by Jim McTigue
On-Demand - Leadership Development Series
Instructed by Rodney Vandeveer
On-Demand - RF Safety Course
Instructed by Richard Strickland
On-Demand - Event Frequency Coordination
Instructed by Ralph Beaver, CBT

August 3-5 - SBE Leadership Development Course
Instructed by Rodney Vandeveer
Where: Atlanta, Georgia
Cost: $580 /person
www.sbe.org/SBELeadershipCourse.php

August 20 - Nashville Ennes Workshop
Hosted by SBE Chapter 103 and the Tennessee Association of Broadcasters
In conjunction with the TAB Summer Convention
When: 9:00 a.m.-5:00 p.m.
Where: Embassy Suites Murfreesboro, Murfreesboro, TN
Cost: SBE or TAB Members - $25
Non-Members - $35
www.sbe.org/ennes_workshops.php#Nashville

September 25 - Dallas, Texas Ennes Workshop
Hosted by SBE Chapter 67

October 16 - San Diego, California Ennes Workshop
Hosted by SBE Chapter 36

November 10 - New England Ennes Workshop
Hosted by SBE Chapter 11. In conjunction with the New England Broadcast & Cable Expo
When: 9:00 a.m.-5:00 p.m.
Where: DCU Center, Worcester, MA
Cost: SBE Members - $25 / Non-Members - $35
www.sbe.org/ennes_workshops.php#Boston

STORM from page 5

of informational programming cannot continue. It is apparent that replacement spectrum is not available. But for the near term, let’s police our own yards. Spectrum inefficient uses have to be eliminated, consolidated or modified to increase spectrum re-use in the core TV channels. Short-range devices should not use wireless unless the circumstances dictate it, and in those cases, time division multiplexing is called for. Broadcasters should expect, as pressure on the TV channels increases, that there will be an increase in unlicensed and uncoordinated operations. It will be necessary to work more closely with market coordinators, and the coordinators must keep their databases as current as possible to maximize broadcast and BAS frequency re-use.

But batten down the hatches; the perfect storm is on the way.


**FELLOWS from page 1**

recognizes outstanding contributions and achievements by an individual throughout his or her professional life. Terry’s record is a combination of industry and SBE accomplishment. He is a 34-year member of the SBE, having joined in 1976. Within the SBE, he is in his twelfth year as a member of the National Certification Committee, serving as chairman for three of those years. He also served as a director, vice president and was elected the SBE national president in 1995. Terry was named the SBE Broadcast Engineer of the Year in 1991, the inaugural year of that award. He was named an SBE Fellow in 1999 and in 2003 was named the SBE Educator of the Year.

Terry began his broadcasting career in 1967 at Milwaukee’s classical music station, WFMF-FM and later began a series of moves into corporate engineering while also forming his own consulting firm, Criteria Broadcast Services.

Through the years he has worked for Sudbrink Broadcasting, Multimedia Broadcasting and Cumulus Broadcasting. In his current role with the Wisconsin Educational Communications Board, he oversees the engineering and operations of the delivery system for Wisconsin Public Radio & Television throughout the state of Wisconsin.

Among his industry and SBE achievements include being the primary author of the SBE’s Certified Broadcast Networking Technologist (CBNT) certification program. He was also an instrumental developer of the station self-inspection program within the broadcast industry and served as the Wisconsin Broadcasters Association’s chief inspector for more than ten years. SBE President Vinny Lopez, who made the presentation, said, “Terry’s dedication to SBE and its mission, as well as his passion for broadcast engineering, are exceptional. His contributions to the industry and the SBE have been tremendous and we are honored to recognize him with this award.”

Terry is a member of Chapter 28 in Milwaukee and resides in Janesville, Wisconsin.

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**Society of Broadcast Engineers, Inc. 2009 Audited Financial Statements**

Combined Statement of Assets, Liabilities and Net Assets - December 31, 2009

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<tr>
<th>ASSETS</th>
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<tr>
<td>Cash and cash equivalents</td>
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<tr>
<td><strong>NET ASSETS:</strong></td>
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<td><strong>TOTAL LIABILITIES &amp; NET ASSETS</strong></td>
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2009 SBE Audited Revenue & Expense Statement*

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<tr>
<th>INCOME:</th>
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<tr>
<td>Membership Fees &amp; Support</td>
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<td>Net Realized/Unrealized Gain</td>
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<td>Miscellaneous Income</td>
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<td>Chapter Rebates</td>
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<td><strong>Total Expenses:</strong></td>
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| CHANGE IN NET ASSETS:            | $53,157 |
| NET ASSETS 12/31/2008:           | $1,088,271 |
| NET ASSETS 12/31/2009:           | **$1,141,428** |

* Audited statement reflects modified cash accounting method. Investments are listed at market value.

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**FELLOWS from page 1**

headquarters in Atlanta. His career in broadcasting spans 43 years and includes service in the U.S. Navy as well as several industry companies. His responsibility with Cox includes corporate level engineering for 86 radio stations and 15 television stations.

He has been an active leader in the broadcast industry having played major roles in several industry initiatives. Among them, the coordination of the DTV transition with cable and satellite service providers and the 2GHz Broadcast Auxiliary Service (BAS) conversion from analog to digital. He chaired the broadcast industry group responsible for the technical aspects in support of ATSC selection of technology for, and documentation of, a mobile handheld transmission system.

Sterling served five years as chairman of the Engineering Committee of the Association for Maximum Service Television (MSTV) and on the National Radio Systems Committee (NRSC) for iBiquity HD radio standards. He is a member of SBE Chapter 5 in Atlanta.

The career of Robert Locke, CPBE, CBNT began in 1964 at KARD TV/FM in Wichita, Kansas, following his graduation from Wichita Technical Institute and a stint in the military. He progressed through many positions at KARD and in 2001 moved to KPTS as Chief Engineer, the local PBS member station in Wichita.

Bob oversaw the installation and operation of a twelve channel, eleven meter uplink system with the Kansas State Network. Bob was an early member of SBE Chapter 3 of Kansas, and recently served as the chapter’s chairman. He has served as the chapter’s Certification Chairman for almost 30 years and has always shown an interest in educating others. He has instructed young engineers, given his time with local technical schools and served on advisory boards that coordinate school curriculum.

Those who nominated Robert all spoke of his dedication, friendliness and willingness to help others at any time; a true gentleman of the broadcast industry.
Recognition of distinguished members was highlight for SBE during NAB Show

BY John Poray, CAE
SBE Executive Director

This year’s NAB Show had a number of memorable moments for SBE. The annual spring membership meeting held on Tuesday, April 13 at the Show was attended by close to 150 members and friends of the Society and was sponsored by Vi Peel News and Entertainment. The highpoint came with the announcement and presentation of the SBE Lifetime Achievement Award to Terry Baun, CPBE, AMD, CBNT. By all accounts, Terry was quite surprised, despite the presence of a number of friends that Terry’s wife Linda managed to arrange to be there without giving the surprise away. There is more about the presentation elsewhere in this issue of the Signal.

Also memorable was the election by the Board of two very deserving members to the rank of Fellow. Sterling Davis of Cox Broadcasting in Atlanta and Robert Locke, CPBE, CBNT of KPTS-TV in Wichita, will receive their Fellow awards at this October’s National Meeting in Madison. They become the 61st and 62nd Fellows in SBE’s 46 year history.

The national Board of Directors met on Sunday morning of NAB week for the regular spring meeting. There was 100% attendance by the 17 members of the Board and we all owe a great deal of gratitude to them for making the commitment to attend and actively participate.

There were several items of note discussed and approved during the meeting. Among them was the acceptance of three invitations to host future SBE National Meetings. In 2011, the National Meeting will be held in conjunction with the Ohio Association of Broadcasters and their annual Engineering Conference held in Columbus. In 2012, the SBE National Meeting will be in Denver and will be held with the Engineering Boot Camp, an educational program conducted jointly by SBE Chapter 48 of Denver and the Rocky Mountain Section of SMPTE, as well as with the “Video Expo” trade show. In 2013, we’ll head back to the Midwest and be hosted by the Indiana Broadcasters Association and their Engineering Conference, held in Indianapolis.

An item that has been discussed for some time has been the opportunity of the average member to be able to serve as a director or officer of the national board of directors. For many years, employers were willing to pick up the travel costs for an employee who was serving on the SBE Board as a way of showing their support to the employee as well as the SBE. But many are not able to do that now, meaning that more often, those elected to serve must cover the travel costs out of their own pocket. With air travel and hotel, that can come to as much as $700 to $1,000 per trip with two meetings per year for most Board members. This has kept a number of qualified members from making the commitment to run and hold office.

So that more members might be willing to serve, the Board approved a funding plan recommended by the SBE Finance Committee, chaired by Jerry Massey, which will provide partial reimbursement for travel costs to those who need it. Beginning with meetings held in 2012, a member of the Board will be able to request reimbursement of up to $300 in qualifying travel expenses to help offset their overall travel costs. In 2013, the program will expand to include those Board members who also serve on the Executive Committee (the four officers, immediate past president and two directors appointed by the president) who are required to attend two additional meetings each year.

The year 2012 was purposely chosen to implement the program to avoid an appearance of conflict of interest with current members of the Board, all of whom will be up for election prior to the program’s implementation. To establish the program, changes to the SBE By-laws were necessary and the By-laws Committee, chaired by Gary Liebisch, presented recommended changes to the Board that would enable the reimbursement program to be established. The Board approved those changes and you’ll find specifics about them in this issue of the Signal. The result of these actions we hope will be the continued availability of interested, capable members to serve on the national Board, the body that has the responsibility of determining the policies and programs of the Society.

Finally, I’d like to note the passing of a Charter, Lief and Fellow Member of SBE, former member of the national board and past national secretary. Martin “Sandy” Sandberg, of Dallas, Texas, an active member of Chapter 67, North Texas, served on the national board for five years, from 1992 through 1996 and later as chairman of the SBE Fellows Committee. He held many leadership positions locally over the years and was the founder of Chapter 7 in Jacksonville, Florida. Sandy’s colorful presence always filled a room. He spent much of his career with ABC Sports, loved broadcasting and the people who worked in it. He will be missed by many in the industry and we express our condolences to his family and many friends.
Chairman John Luff describes their successful meeting on March 17, 2010

“Chapter 20 started a process to reinvigorate the chapter and engage all parts of the broadcast and technology communities in Western Pennsylvania. Meeting attendance had dwindled and chapter membership was static or decreasing. Under our renewed approach we held an exciting meeting March 17th at NEP Productions on “3D Production and Display” and included a tour of SS-3D, one of very few full capability 3D production trucks in existence prior to their departure to Augusta for the Masters 3D production for CBS. George Hoover, NEP CTO, provided a great program to an audience of over 70 people, almost a six fold increase over recent chapter meetings.

George described the mechanics of 3D camera rigs and how the signal is processed and moved to the home display and showed examples of football and basketball broadcasts produced using SS-3D. We interacted with the technical support personnel from PACE, who supply the camera rigs to NEP.

Later this year we hope to hold a summit for all stations in the region, advertising agencies, and production companies on file based delivery of commercials. The chapter has revamped communications and instituted a new web based portal to support better bidirectional communication with members and others interested in the chapter’s work.”

In the Circle ...

a snapshot of an SBE Member

Steve Davis, CPBE Senior Vice President, Engineering & Capital Management, Clear Channel Radio, Inc.
Joined SBE in 1982, Chapter 56, Tulsa
Best Known for: At this point I’m best known as the “Chief Engineer” for Clear Channel before they incorporated back when they had only six stations, as a station chief engineer. As the company grew I became known for developing a capital budgeting and management system used throughout what ultimately became a fairly large enterprise.

Focal Point: When I began my career as a Chief Engineer, I soon realized how much I DIDN’T know. Without the friendship and mentorship of fellow engineers through the SBE back in the early 1980’s, I believe I would have been unable to hold the job. I looked forward to the monthly meetings and seek their help. As I grew in my skills, thankfully I was eventually able to help others as well.

Job Satisfaction: The chance to work with and learn from people who are passionate about broadcast engineering. I love hearing new solutions, ideas, points of view and just plain “war stories.” And truth be told I think some would say I’ve been known to tell one or two of those myself.

Accredited SBE Frequency Coordinators

The Society of Broadcast Engineers began the Accreditation program to provide volunteer SBE coordinators the opportunity to be recognized as part of a standards-based, nationally recognized program of local voluntary broadcast-auxiliary frequency coordinators. The program also makes it possible for SBE to demonstrate to the broadcasting industry the widespread acceptance of a voluntary set of standards guiding local coordination.

Newly Accredited:
Kevin Faris Plattsmouth, NE Chapter 74

---

“In Memoriam."

Martin “Sandy” Sandberg, CPBE
Member #107
Charter, Fellow and Life Member
Former national Secretary and Board Member

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SBE would like to welcome its newest members:

New Members
Michael W. Farrell - Playa Del Rey, CA
Walter R. Fletcher - Laramie, WY
Walter J. Foy - Deltona, FL
Charles Garfield - Kansas City, MO
Curtis Holt - Columbus, GA
Phil F. Pollack - Austin, TX
Michael A. Simmons - La Quinta, CA
Michael Caal - Rancho Cucamonga, CA
Kenyon D. Crabtree - Vista, CA
William W. Putney - Port Townsend, WA
Jason R. Sharp - Kitchener, Ontario, Canada
Jared Webster - Springfield, VA
Paul C. Johnson - Greenacres, FL
Randall D. Bagoly - Newport News, VA
Jeremy C. Bayer - Sherman Oaks, CA
Robin E. Cole - Spokane, WA
Eric D. Hoppe - Streamwood, IL
Walter L. Howard - Leland, NC
Brandon W. Kunc - Bossier City, LA
Mark C. McMillen - Warwick, RI
Daniel E. Palm - Charlotteville, VA
Andrei Taratovsky - San Diego, CA
Jake Tremper - Tampa, FL
Drew A. Anusbigian - Palm Harbor, FL
Margaret E. Averen - Philadelphia, PA
James E. Bechtel - San Antonio, TX
Robert Dunning - Naples, ME
Rufus J. Smith - Mira Loma, CA
Daniel C. Harrell - Norfolk, VA
Robert L. Redinger - Phoenix, AZ
Jeanette A. Rhodes - Indianapolis, IN
Gary L. Smith - Abilene, TX
Rick A. Williams - Kingwood, WV
Mark Burges - Union, NJ
Peter J. Fasciano - Framingham, MA
John H. Garabedian - Southborough, MA
Kelly G. Kittleson - Mandan, ND
Kerry H. Plackmeyer - Baltimore, MD
David M. Shulkin - Farmington Hills, MI
Scott Wilkerson - Knoxville, TN
Yanbing Qi - Pittsburgh, PA
Michael H. Randolph - Midland, TX
Jose A. Pollorena - Phoenix, AZ
Mark Rogers - Sacramento, CA
Jerry Butler - Leesburg, GA
Christopher D. Frazier - Houston, TX
Mohammed Abdelrahim - Burlington, NC
Donald E. Adams - Florence, KY
Chris Ark - Scottsdale, AZ
Jorge L. Arredondo-Herrera - Eagle Pass, TX
Joshua M. Arritt - Catawba, VA
SeVern L. Ashes - Vermillion, SD
William M. Bain - Charlotte, NC
William T. Cantrell - Libburn, GA
John P. Coates - Monroe, NY
Carl D. Craver - Buena Park, CA
Scott A. Eugene - St. Louis Park, MN
Tony J. Fonseca - Columbia, SC
Daniel F. Gurzynski - Buffalo, NY
Richard J. Heerema - Rocklin, CA
Mario S. Jimenez - Las Cruces, NM
Stephen A. McClure - Vincennes, IN
James A. Medlock - Manchester, NH
Sylvan Ng - Toronto, Ontario, Canada
Mark Pace - Carrollton, IL
Shauna K. Pierce - Wylie, TX
James A. Powell - Birmingham, AL
Anthony J. Pryor - Florence, OR
Josh J. Riggins - Florence, OR
John P. Schussler - Poughkeepsie, NY
Jim Signorini - Oakland, NJ
Dinesh Singh - New Delhi, India
Christopher J. Ernst - APO, AE
Devin T. Smith - Leeds, AL
Ranjeet Sridhar - Fort Bragg, NC

Reinstated Members
David S. Segal - McKinney, TX
David W. Lankinen - Roseville, MN
Tony S. Paterle - North Miami Beach, FL
John J. Churnetski - New York, NY
Gerald T. Hanna - Willowbrook, IL
Don W. Payne - Indianapolis, IN
Mohammed T. Al Sharqawi - Doha, Qatar
William A. Hollis - Naperville, IL
Greg Gutierrez - Arlington, VA
Kyle J. Coiffel - Glastonbury, CT
Van L. Craft - Anchorage, AK
Dana J. Davis - Bend, OR
Ronald R. Brown - Little Rock, AR
John Mullaney - Newton, MA
Jacob D. Robinson - Indianapolis, IN
Matthew A. Klimkowski - Lebanon, TN
David M. Klimkowski - Lebanon, TN
Luis O. Lua - Indio, CA
Holly M. Misslin - Lebanon, TN
Ted R. Randall - Lebanon, TN
Brian W. Zittlau - Mesa, AZ
John R. Majka - Louisville, KY
Ronald L. Haley - Baltimore, MD
Charles Davis, Jr. - Honeyey Falls, NY
Gregory A. Gade - Bennington, NE
Michael P. Shlefer - West Chester, PA

New Student Members
William S. Green - Ft. Meade, MD
Gary W. Cox - Lansing, MI
Max Roth - Tucson, AZ

Reinstated Student Members
Tyler G. Slentz - New Philadelphia, OH

New Associate Members
Mark A. Morrison - Liberty, IL
Diana M. Stockey - Ogdallla, NE

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