



the **SIGNAL** 2011 raising the bar

BIMONTHLY PUBLICATION OF THE SOCIETY OF BROADCAST ENGINEERS

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2011**

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*Have you visited us
on the web yet?*

www.sbe.org

Many SBE events, meetings scheduled at the 2011 NAB Show

The 2011 NAB Show is quickly approaching and now is the time to familiarize yourself with the many events and meetings the Society of Broadcast Engineers will present at this year's show. To start the Show, SBE will present the in-depth Ennes Workshop, "Maintaining Your Infrastructure in Tough Times", on Saturday, April 9 (see page 9 for more details). Throughout the rest of the show, SBE will also be holding a number of informative meetings including meetings of the Board, Certification, Education and Frequency Coordination committees.



The SBE booth will be located at L29 on the second floor concourse of the South Hall at the 2011 NAB Show.

SBE Exhibit Booth

SBE's exhibit booth will be on the second floor concourse of the Las Vegas Convention Center South Hall, Lobby Booth 29. The location is just

up the escalator from the South Hall main entrance and just outside the entry to the exhibits on the second floor. This is the same location as in recent years. See the SBE website, www.sbe.org,

*See **SBE AT NAB** on page 10*

Webinars by SBE presents

Managing a Project and Outside Contractors for Success

The SBE is pleased to announce a Webinar by SBE on **Managing a Project and Outside Contractors for Success**, instructed by Media Consultant John Luff, to be held on July 20. This webinar outlines the roles and responsibilities of those involved in planning and executing a capital project, with emphasis on the roles of the station, consultants and system integrators.

Overview: The nature of our business is wrapped around change. One of these types of change occurs when stations face major projects that can be disruptive, yet fulfilling for those involved. This significant change causes stress unless a carefully designed structure is wrapped around the work. This webinar will help attendees understand the roles and

*See **PROJECT MANAGEMENT** on page 11*

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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

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We're looking - for you!

by **Ted Hand, CPBE, 8-VSB, AMD, DRB**

Nominations Committee Chair

The Society of Broadcast Engineers is looking for a few good men and women. The SBE is a volunteer organization which exists because of its members—working for you, to advance all levels of broadcast engineering. Many of you volunteer in your local chapter; here's your opportunity to take that dedication to the national level and further your professional and personal growth along the way.

The SBE Nominations Committee is currently seeking candidates for this year's upcoming election. The board is made up of four officers, twelve directors, and the immediate past president. The officers terms are one-year each, with directors having a two-year term. All candidates must be members in good standing and hold a current SBE engineering-level certification. The certification must be maintained through their full term in office. Directors serve as chairmen of standing committees and may be asked to serve on the executive committee along with the officers. There are two meetings of the full board per year, plus two additional

executive committee meetings. Beginning January 2012, officers and directors may be reimbursed up to \$300 per Board meeting for travel expenses.

Interested? We must hear from you by April 29. The ballots will be mailed July 25 and are due back at the Indianapolis office by August 25. The newly elected candidates will be sworn in September 28 at the SBE National Meeting in Columbus, Ohio.

If you meet the eligibility requirements and want more information, please contact a member of the Nominations Committee:

- Ted Hand, ted.hand@coxtv.com
- John Demshock, john.demshock@wftv.com
- Denise Mastrullo, denise.mastrullo@wavy.com
- Otto Schellin, otto@wpxi.com

Here is a chance to lend your skills, expertise and dedication to the Society as a member of its leadership. It's your opportunity to shape the future of SBE; we will be better with you than without you.

Renew your membership

It's that time of year again, for Member, Senior, Fellow, Associate and Student Members to renew their SBE memberships.

SBE membership dues for the member classifications listed above (except Student) are \$68. Dues for Student Members are \$20.

Membership renewal notices were mailed in early February. If you did not receive your renewal notice, contact the SBE National Office at (317) 846-9000.

Membership Renewals for Youth and Sustaining members are due during the anniversary month of joining the Society.

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I Called Him Magoo...



by **Vinny Lopez, CEV[®], CBNT[®]**
SBE President

A couple of things come to mind this month. Our legislative work continues to roll along, after

last year's failure to get our Senate and House bills passed. For those who may have forgotten, S2881 and HR4039, the FCC Commissioners Technical Resource Act would have provided each FCC commissioner the opportunity to add an engineer or computer scientist to their staffs. Our bills got caught up in unrelated political wrangling and did not get approved by the end of the session. We have already started the work to get them re-introduced early in this session and hopefully we'll have a better outcome.

In February, SBE General Counsel, Chris Imlay, began the process of lining up sponsors in the Senate and House. He took a day and visited eight congressional offices and came away with a Senate sponsor and several commitments from House members. More will be needed.

By the time this article goes to press, a delegation from SBE including me, vice president Ralph Hogan, immediate past president, and Government Relations Chair, Barry Thomas, executive director, John Poray and Chris Imlay, will have visited Washington as well. Our plan is to spend a day on Capitol Hill to enlist support. We also plan to meet with representatives of the Office of Engineering Technology and the Wireless Bureau at the FCC to provide an ex-parte presentation on 7 & 13 GHz issues. While in town, we also will take time to meet with our strategic partners at NAB to discuss spectrum issues, including the National Broadband Plan. Look for the link at www.sbe.org to a "SBE President's

Netcast" about our trip to Washington. Speaking of NAB, if you are planning on attending the NAB Show in Las Vegas, there are some SBE events that you will want to set aside time for. On Saturday the 9th of April, we will be presenting the Ennes Workshop from 8:00 am to 5:15 pm. This year's workshop is titled, "Infrastructure: Keeping It Going in Challenging Times." You'll need to be registered for the Broadcast Engineering Conference to attend.

Highlighting the week for SBE will be the annual spring SBE Membership Meeting, held on Tuesday, April 12 from 5:15 pm to 6:00 pm in the South Hall Room S225 at the Las Vegas Convention Center. We will be recognizing a number of our local chapter certification chairs during the meeting, three long-time national Sustaining Members and there will be prizes given away to those who attend.

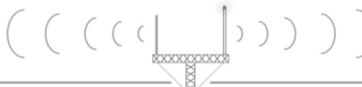
SBE's exhibit booth will be on the second floor concourse of the Las Vegas Convention Center South Hall, Lobby Booth 29. I hope you'll stop by and take a look at what's available or just to talk to with members of the national Board, Certification Committee and staff. As an added bonus, I want to extend a special offer to members. Typically, the SBE board members each spend some time during NAB working the booth, myself included. If you come by the booth while I am working, I will extend to you an additional 10% discount on SBE logo items. I will

be working the booth Monday, April 11 from 1:00 pm – 2:00 pm; Tuesday, April 12 from 9:30 am – 10:30 am and Wednesday, April 13 from 3:30 pm – 4:30 pm. Come by during those times and just say, "Hey, Vinny I want my discount."

The SBE Board of Directors will meet on Sunday, April 10, from 8:30 am – 12:00 pm, in Conference Rooms 7 & 8 of the Las Vegas Hilton. If you want to see how your SBE Board of Directors governs the Society, I encourage you to stop by. You'll gain a new understanding about how your Society works. Portions of the Board Meeting may be closed to the public to discuss contractual or personnel matters, but the vast majority of the meeting is open.

A complete list of all SBE events at NAB can be found at the website, www.sbe.org.

As always, you can contact me at vlopez@sbe.org with any questions, comments or concerns.



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Leaving spectrum management to the spectrum managers



by **Chris Imlay, CBT**

SBE General Counsel

Lately with SBE it has been all about legislation. We have been up on the Hill (and in a few days from this writing, we will be going back up again), looking for original sponsors and cosponsors during this 112th Congress for bills in the House and Senate to replace S.2881 and H.R. 4809, the “FCC Commissioners’ Technical Resource

Enhancement Act,” which were introduced in the Senate by Senator Olympia Snowe and Senator Warner on December 14, 2009 and in the House by Rep. McNerney on March 10, 2010.

The legislation is elegant, the way we see it. It simply and effectively would add a component of technical competence to the offices of the Commissioners of the Federal Communications Commission. This would be done by permitting (but not requiring) each Commissioner to employ a fourth professional staff assistant, an “electrical engineer or computer scientist” to provide the Commissioner technical consultation when appropriate, and to interface with the FCC’s Office of Engineering and Technology, Commission bureaus, and other technical staff of the Commission.

S. 2881 was favorably reported out of Committee in the Senate, and was well-received on a bipartisan basis. The Bills might have passed last session but for some last minute procedural partisan wrangling in the House. In November, the legislation was found by the Congressional Budget office to have “no budget impact” (which is the key issue these days on the Hill) because the FCC recoups almost all of its operating expenses from regulatory and application fees. Thus, improved direct technical input to Commissioners is gained without limiting the Commissioners’ discretion with respect to the qualifications of the other three professional staff assistants that each is presently permitted to employ, and with no addition to the FCC’s appropriations. There is no downside to the bills, and we are pushing them very, very hard this year, and starting earlier in the process.

We have found, as we did last term that this legislation largely sells itself. We already have multiple offers of sponsorship of the legislation in the House from the minority, contingent on finding a majority cosponsor to join initially. We are working on that now. In the Senate, we believe that we have a sponsor lined up. So far, so good.

But it is not all good news. In fact, there is as of this writing some very bad news that I hope you have heard about by the time you read this. On February 10, 2011, Representative Peter King, a Republican from New York’s Third District and the Chairman of the House Homeland Security Committee, introduced H.R. 607, the “Broadband for First Responders Act of 2011.” This Bill, like several other similar bills now pending in the House, would provide for the construction of a public safety, interoperable broadband network in the 700 MHz public safety bands

(at 758-768 MHz and 788-798 MHz). This includes the “D-Block” which was initially planned for auction for commercial use, but which is under consideration for allocation to public safety.

However, H.R. 607 is unique among the varied legislation providing for allocation of the D-Block to Public Safety, in that it provides for the reallocation and commercial auction within ten years of passage of the Bill of the “paired” (sic) bands 420-440 MHz and 450-470 MHz. Specifically, in the context of encouraging the migration of Public Safety from incumbent spectrum to the 700 and 800 MHz bands used by Public Safety, Section 207(d) of the Bill provides as follows:

(1) Auction. – Not later than 10 years after the date of enactment of this Act, the paired electromagnetic spectrum bands of 420 – 440 megahertz and 450 – 470 megahertz recovered as a result of the report and order required under subsection (c) shall be auctioned off by the Federal Communications Commission through a system of competitive bidding meeting the requirements of section 309 of the Communications Act of 1934.

There are, of course, numerous conceptual flaws with this provision of H.R. 607. First, neither the 420-440 MHz band nor the 450-470 MHz band is Public Safety spectrum. As we understand the matter from staff in the House Homeland Security Committee, the Bill envisioned is, in effect, a “spectrum swap” of “old” Public Safety spectrum for new. It does not do that, and whoever sold Rep. King on this idea is most certainly not at all skilled in spectrum management. The auction of the segments 420-440 MHz and 450-470 MHz would displace a strikingly large number of critical, non-Public Safety uses of these bands (which would derive no benefit at all from the allocation to Public Safety of the D-Block or the creation of a Public Safety broadband network). The victims of this reallocation include, but are not limited to the following:

1. The Broadcast Auxiliary Service (displacing the entire 450-451 and 455-456 MHz bands without any thought of replacement spectrum).
2. The Government Radiolocation Service (which is allocated on a primary basis and uses the entire 420-440 MHz band for military radars critical to the defense of the United States, such as Pave Paws radars for detection of surface-launched offshore missiles and airborne radars used for drug interdiction).
3. The Private Land Mobile Radio Service (including the thousands of business and industrial radio service facilities throughout the United States which provide, in the 450-470 MHz band, operational radio communications for large and small businesses).
4. The Amateur Radio Service (which is allocated on a secondary basis and uses the entire 420-440 MHz band for critical emergency and public service communications, and which has extensive satellite and terrestrial infrastructure in this band).
5. GMRS and FRS (which use channels in the 450-470 MHz band).



mclappe@sbe.org

Local Certification Chairmen Recognized

by **Megan E. Clappe**
SBE Certification Director

Every year at this time we recognize the local certification chairmen who have served their chapter on a recurring five-year cycle. I want to

thank these gentlemen and everyone in the SBE community who volunteer their time to help make SBE strong. The local certification chairmen and the members of the National Certification Committee spend hours and hours of their own time to administer exams, review applications, write questions and many, many other areas where they are needed.

This year the SBE Program of Certification will celebrate its 35th year. This would not have been possible if not for the many volunteers throughout the years. The following are just a handful of those who have served as a local certification chairman in their chapters. This year at NAB we will continue the practice of recognizing the service anniversaries of our volunteers at the SBE Membership Meeting. The annual SBE Membership Meeting will be held at the 2011 NAB Show on Tuesday, April 12, from 5:15 to 6 p.m., in Room S225 of the Las Vegas Convention Center. During the meeting we will present plaques to the following:

35 Years

- Chapter 1 Gino Ricciardelli, CPBE
- Chapter 17 George H. Werl, Jr., CPBE

30 Year Plaque

- Chapter 30 Chuck E. Ingle, CPBE, AMD

15 Years

- Chapter 39 John D. Collinson, CPBE, AMD, CBNT
- Chapter 44 Rudolph C. Johnson, CBRE
- Chapter 67 Landy W. Compton, CPBE

10 Years

- Chapter 15 George Marshall, CBRE, CBT
- Chapter 42 Steve Rowell, CPBE
- Chapter 54 William Swartz, CPBE
- Chapter 110 Richard Hyatt, CPBE, CBNT

5 Years

- Chapter 40 Don Hackler, CSRE, CBTE, CBNT
- Chapter 62 Elvir Hadziselimovic, CSRE, CSTE, 8-VSB
- Chapter 78 Tony Mancari, CBT
- Chapter 101 Emir Hadziahmetovic, CSTE
- Chapter 102 Philip Schmitt, CBRE, CBT

We will also present certification chairman pins to the following local certification chairmen who are in their first year of service.

1st Year Recognition

- Chapter 22 Gary Hartman, CPBE
- Chapter 38 David Halperin, CBRE
- Chapter 53 Juan Gonzalez, CSTE

This year also brings six anniversaries for the National Certification Committee.

David Carr, CPBE, 8-VSB and Doug Garlinger, CPBE, 8-VSB, CBNT - 20 Years as Certification Committee members.

Ralph Hogan, CPBE, DRB, CBNT and Rick Ryan, CPBE - 15 Years as Certification Committee members.

Joe Snelson, CPBE, 8-VSB and Larry Wilkins, CPBE, AMD, CBNT - 10 Years as Certification Committee members.

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What's your Certification Quotient?

Question: Internet protocol is known as:

1. OSI Layer 1
2. Token Ring
3. Serial Data
4. TCP/IP

answer on page 13

CONGRATULATIONS

New SBE Certification Achievements

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 PROFESSIONAL BROADCAST ENGINEER® (CPBE®)

Jaime Ananko, Rochester, NY – Chapter 2
Stephen Brown, Appleton, WI – Chapter 80
Mark Humphrey, Exton, PA – Chapter 18
Dale Scherbring, Gretna, NE – Chapter 74
James Skinner, Omaha, NE – Chapter 74
Dale Smiley, Avon, IL – Chapter 25
Steven Whitesell, Noblesville, IN – Chapter 25
John Zuber, Indianapolis, IN – Chapter 25

CERTIFIED BROADCAST TELEVISION ENGINEER™ (CBTE™)

Pete Ramos, Reno, NV – Chapter 131

CERTIFIED BROADCAST NETWORKING TECHNOLOGIST® (CBNT®)

Stephen Brown, Appleton, WI – Chapter 80
Pete Ramos, Reno, NV – Chapter 131
Gary Richardson, Midfield, AL – Chapter 68
James Skinner, Omaha, NE – Chapter 74

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Thomas Saylor, III, Troy, ID – Chapter 117
Edward Williams, Phoenix, AZ – Chapter 9
Thomas Woods, Jr., Eugene, OR – Chapter 76

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Chadd Larson
Kelsey Musselman
Stephen Myron
Jessica Pease
Jordan Pike
Gary Shilley
Peter Sloan
Angel Williams
Trevor Whitehall

FEBRUARY EXAMS

"Thank You" CHAPTER CERTIFICATION CHAIRS FOR YOUR ASSISTANCE

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John Rodenbarger, Brookston, IN – Chapter 25
Thomas Schuessler, Irving, TX – Chapter 67

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Jeffrey Glass, Sycamore, IL – Chapter 96
Mark Heller, Two River, WI – Chapter 80

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Stewart Romain, Bartlett, TN
Mark Schaefer, Sr., Tampa, FL – Chapter 39

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8-VSB SPECIALIST™ (8-VSB™)

Patrick Mahon, Roseville, MI – Chapter 80

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Margaret Avenier, Philadelphia, PA – Chapter 18
Mark Baldridge, Hillsboro, WI – Chapter 24
Gregory Carter, Fairport, NY – Chapter 57
Brian Janes, Bristol, CT – Chapter 14
Elizabeth Wolfe-Hamrick, Columbus, OH – Chapter 52
Alan Zaccario, Tenafly, NJ – Chapter 15

CERTIFIED RADIO OPERATOR® (CRO™)

Elliott Stapleton, Brooklyn, NY – Chapter 15

CERTIFIED TELEVISION OPERATOR® (CTO®)

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Mark Caska, Charlotte, NC – Chapter 45
Benjamin Coplin, Charlotte, NC – Chapter 45
Rachel Johnson, Milwaukee, WI – Chapter 28
Melvin Santos, Kenner, LA – Chapter 72
Bailey Taylor, Encino, CA – Chapter 47
Gary Simonson, Fort Worth, TX – Chapter 67
Timothy Weeks, Charlotte, NC – Chapter 45

SPECIAL PROCTORED EXAMS

CERTIFIED AUDIO ENGINEER® (CEA®)

Arthur Phelps, Blue Springs, MO – Chapter 59

CERTIFIED BROADCAST NETWORKING TECHNOLOGIST® (CBNT®)

David Abdel-Sater, Doha, Qatar

CERTIFIED BY LICENSE

CERTIFIED BROADCAST TECHNOLOGIST® (CBT™)

Conrad Agte, Spokane, WA – Chapter 21
Raymond Barley, Jr., Fort Gordon, GA – Chapter 101
Milton Campbell, Eugene, OR – Chapter 76
Robert Gilmore, Shelton, CT – Chapter 15
Dennis Kronenberg, Germantown, MD – Chapter 37
Melissa Ljongquist, San Diego, CA – Chapter 36
Leeland Mitchell, Oswego, NY – Chapter 22
Humberto Shand, Far Rockway, NY – Chapter 15
Oscar Vega, Guayanailla, PR
John Wulff, Alexandria, VA – Chapter 37

CERTIFIED RADIO OPERATOR® (CRO™)

Ashley Davis, Chesapeake, VA

CHESAPEAKE PUBLIC SCHOOLS

Moriah Felder
Corey Parker
Logan Rice

Victoria Scott
Nick Wood

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CERTIFIED TELEVISION OPERATOR® (CTO®)

Julie Blaisdell, Salt Lake City, UT
Keith Coleman, Greensboro, NC
Charles Ferry, Jr., Apex, NC
Terrie Guyton, Grand Rapids, MI
Lisa Lewis, Joshua Tree, CA
Walter Lopez, Orlando, FL
Gabriel Nucci, Cullowhee, NC
Vanessa Pettie, Metairie, LA
Jason Welch, Bossier City, LA
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Cara White

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®)

Clarence Beverage, Marlton, NJ – Chapter 18
J. Steven Bridges, Longview, TX – Chapter 44
Patrick Caffrey, Cheyenne, WY – Chapter 74
Kenneth Drewes, Des Moines, IA – Chapter 109
Michael Doback, Waterford, MI – Chapter 82
Frank Giardina, Birmingham, AL – Chapter 68
Rick Hartford, Edmond, OK – Chapter 85
James Martin, Louisville, TN – Chapter 113
Fred Nahil, Jr., Port Saint Lucie, FL – Chapter 88
Thomas Nielsen, Milwaukee, WI – Chapter 28
Chris Scherer, Overland Park, KS – Chapter 59
Thomas Weeden, Madison, WI – Chapter 24

CERTIFIED PROFESSIONAL BROADCAST ENGINEER® (CPBE®) 8-VSB SPECIALIST™ (8-VSB™) AM DIRECTIONAL SPECIALIST™ (AMD™) DIGITAL RADIO BROADCAST SPECIALIST™ (DRB™)

Wayne Pecena, College Station, TX

CERTIFIED PROFESSIONAL BROADCAST ENGINEER® (CPBE®) DIGITAL RADIO BROADCAST SPECIALIST™ (DRB™)

Ralph Hogan, Tempe, AZ – Chapter 117

CERTIFIED PROFESSIONAL BROADCAST ENGINEER® (CPBE®) AM DIRECTIONAL SPECIALIST™ (AMD™) DIGITAL RADIO BROADCAST SPECIALIST™ (DRB™)

Wendell C. Alexander, Aurora, CO – Chapter 48

CERTIFIED SENIOR BROADCAST ENGINEER® (CSBE®)

Leonard Watson, Chicago, IL – Chapter 26

CERTIFIED SENIOR RADIO ENGINEER™ (CSRE™)

J. Eric Hoehn, Washington, DC – Chapter 37
John Leishman, Traverse City, MI – Chapter 102
Mark Lucas, Knoxville, TN – Chapter 113

CERTIFIED SENIOR TELEVISION ENGINEER™ (CSTE™)

Rusty Armitage, Knoxville, TN – Chapter 113
Steve Caperton, Fort Smith, AR – Chapter 56
Charles George, Spokane, WA – Chapter 21

CERTIFIED BROADCAST RADIO ENGINEER™ (CBRE™)

Michael Cooney, Naples, FL – Chapter 59
Tim Diehl, Tulsa, OK – Chapter 56
Terrence Dupuis, Saint Peters, MO – Chapter 55
John Masters, Maryville, IL – Chapter 55
Floyd Turner, Haubstadt, IN – Chapter 121

CERTIFIED BROADCAST TELEVISION ENGINEER™ (CBTE™)

Douglas Alman, San Marcos, CA – Chapter 36
Frank Berman, Melville, NY – Chapter 15
Wesley Hall, Elkmont, AL – Chapter 111
John Kazibut, Chicago, IL – Chapter 26
James Mertins, Claremore, OK – Chapter 56
Eric Schecter, Scottsdale, AZ – Chapter 9
Ronald Stearnes, Claremore, OK – Chapter 56
Daniel Thieneman, Antioch, TN – Chapter 103
Cliffton Tillman, Moreno Valley, CA – Chapter 131
Donald Vickrey, Boise, ID – Chapter 115
Alan Weissman, Williamsville, NY – Chapter 133

CERTIFIED BROADCAST TELEVISION ENGINEER™ (CBTE™) 8-VSB SPECIALIST™ (8-VSB™)

Robert Lange, Morton Grove, IL – Chapter 26

CERTIFIED VIDEO ENGINEER® (CEV®)

Robert Lange, Morton Grove, IL – Chapter 26

CERTIFIED BROADCAST NETWORKING TECHNOLOGIST® (CBNT®)

Reid Ashbaucher, Toledo, OH – Chapter 104
David Bensen, Jackson, MI – Chapter 91
James Caldwell, Grove City, OH – Chapter 52
Terrence Dupuis, Saint Peters, MO – Chapter 55
John Graham, Dayton, OH – Chapter 33
George Gerard, Hamden, CT – Chapter 14
Darin Hall, Tulsa, OK – Chapter 56
William Harris, Albuquerque, MN – Chapter 34
Rick Hartford, Edmond, OK – Chapter 85
J. Eric Hoehn, Washington, DC – Chapter 37
Mark Hoenecke, Wausau, WI – Chapter 80
Ralph Hogan, Tempe, AZ – Chapter 117
William Hubbard, Green Bay, WI – Chapter 80
Joseph Huk, Adrian, MI – Chapter 82
Donald Jones, Trotwood, OH – Chapter 33
Robert Lange, Morton Grove, IL – Chapter 26
Dean Maluski, New Britain, CT – Chapter 14
James Martin, Louisville, TN – Chapter 113
John Masters, Maryville, IL – Chapter 55
Thomas Nielsen, Milwaukee, WI – Chapter 28
Chris Scherer, Overland Park, KS – Chapter 59
Cliffton Tillman, Moreno Valley, CA – Chapter 131
Daniel Thieneman, Antioch, TN – Chapter 103
Floyd Turner, Haubstadt, IN – Chapter 121

CERTIFIED BROADCAST TECHNOLOGIST® (CBT™)

Reid Ashbaucher, Toledo, OH – Chapter 104
David Bensen, Jackson, MI – Chapter 91
John Boren, San Diego, CA – Chapter 36
James Brady, Winchester, KY – Chapter 35
Jay Buchholz, Sioux Falls, SD
Ralph Chambers, Ft. Lauderdale, FL – Chapter 53
Dana Davis, Tucson, AZ – Chapter 76
Jeffrey Haefner, Mankato, MN – Chapter 17
Timothy Holt, Chardon, OH – Chapter 70
Thomas Kingsley, Fort Mill, SC – Chapter 45
Laura Mickler, Ft. Myers, FL – Chapter 39
Michael Parrish, Lakeland, FL – Chapter 42
Gary Pettet, Wakefield, KS – Chapter 3
Jeffrey Schick, Forest Hills, NY – Chapter 15
Jeff Smith, Bridgeville, DE – Chapter 22
Gordon Stankey, Regina Saskatchewan Canada
William Taylor, High Springs, FL – Chapter 7

CERTIFIED RADIO OPERATOR® (CRO™)

Glenn Gass, Jr., Chattanooga, TN – Chapter 5

SBE Education Update

2011 SBE Leadership Development Course August 2-4 • Atlanta, Ga.

Holiday Inn Airport South, 4669 Airport Blvd, College Park, GA 30337

Guest Room Rate: \$99 / night

Course Fee: SBE Members · \$580; Non-Members · \$630

Register at www.sbe.org/sections/SBELeadershipCourse.php

The SBE Leadership Development Course is an intense three-day course that has been offered to broadcast engineers through SBE since 1997. Last year, a record number of 25 engineers attended this course. We expect the same interest for this year's course, so sign up now while space is still available.

Rodney Vandever, a leadership consultant and college professor, is instructing the course. Rodney brings more than thirty years of industrial and business experience in management positions in human resources, training and development and manufacturing.

One student of the 2010 Course said, "Rodney's passion is evident as is his ability to encourage participation and his gift to communicate the content."

Rodney has been a professor at Purdue University since 1994, teaching classes in Human Behavior in Organizations, Leadership Philosophy, Leadership Strategies for Quality and Productivity, and a graduate course in Emerging World-class Leadership Strategies. He also consults with Purdue's Technical Assistance Program and has his own business called VanTECH Training.

One focus of the course is to identify one's leadership style and learn how to adjust that style to respond to many types of personalities. Another area of the course includes teamwork and explores what a truly effective team consists of, essential components for team building, and exercises to demonstrate effective (and ineffective) team building. Conflict resolution is also explored as students can expect to learn about their preferred method for handling conflict, five conflict handling strategies and the positive and negative impacts of conflict.

To see all the topics covered in the course, visit the SBE website under education. Overall, expect this course to challenge you to refine your leadership skills as you better understand and improve how you interact with others - both professionally and personally.

MARK YOUR CALENDAR

For more information or to register for the programs brought to you by the SBE, visit our website at www.sbe.org under Education.

April 9-14 • NAB Show • Las Vegas, NV

www.nabshow.com

April 28 • KREX - the Real World of Disaster Recovery Webinar • 2:00-3:00 p.m. EDT

Instructor: Skip Erickson, Harris Professional Services

Cost: SBE Members · FREE; Non-Members · \$39

Thank you to Harris Corporation for making it possible to offer SBE Members this webinar at no cost.



July 20 • Managing a Project and Outside Contractors for Success Webinar • 2:00-3:30 p.m. Eastern

Instructor: John Luff, SBE Member and Consultant

Cost: SBE Members · \$59; Non-Members · \$79

Aug 2-4 • SBE Leadership Development Course Atlanta, Georgia

Instructor: Rodney Vandever, Professor and Leadership Consultant

Cost: SBE Members · \$580; Non-Members · \$630

2011 SBE Certification Exam Schedule

Dates	Location	Application Deadline
April 12, 2011	NAB Convention	CLOSED
June 3-13, 2011	Local Chapters	April 15, 2011
August 5-15, 2011	Local Chapters	June 3, 2011
November 4-14, 2011	Local Chapters	September 16, 2011

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Maintaining Your Infrastructure in Tough Times

SBE/Ennes program at NAB 2011

by **Fred Baumgartner, CPBE, CBNT**

Trustee - Ennes Educational Foundation Trust

For the 16th consecutive year the Society of Broadcast Engineers and the Ennes Educational Foundation Trust will present a full-day Ennes Workshop program at the National Association of Broadcasters Show in Las Vegas, this year, on Saturday, April 9. The program is being done in conjunction with the annual PBS engineering program; being the last day of the PBS/NPR program which begins the Wednesday prior to the NAB Show. On Saturday, the PBS/NPR group will join up with the Ennes program. The SBE/Ennes program serves as the kickoff to the NAB's Broadcast Engineering Conference.

Our program content is driven by the simple question, "What is it Broadcast Engineers most need to know... this year?"

This is the first year in our 16 year history of doing this program where the dominant driving force has not been technology, but economic realities. Whether dealing with receivership, tight budgets or changing programming and ever-tighter workflows, most of us have focused more than ever on infrastructure. One of the things that make Broadcast Engineering the broad-ranging field it is, is that we have incredible infrastructure to maintain and manage. From buildings, to generators, to studios, to NOCs and data centers to towers in the clouds, few occupations demand such a wide skill set... and that's before we even get to the broadcast skills.

We start the day early, at 8:00 am, with a two-hour back-to-basics tutorial. Stuart Reynolds (Video Engineering), Ron Eligator (Acoustician), Arthur Metzler (MEP) and Neil Tucker (Architect) of Diversified Systems Inc., provide a comprehensive seminar on designing, building and maintaining broadcast infrastructures, with an emphasis on dealing with the many specialists and specialties involved, and most important the management of the projects and meeting time-lines and budgets.

SBE's General Counsel, Chris Imlay, CBT, addresses the legal aspects of engineering while a company is in bankruptcy and with business rules that are considerably different than "normal." Mr. Imlay knows broadcast engineers and what we deal with better than almost anyone we know in the legal field.

Well known in the industry are John Bisset's (of Tieline Technology) series in *Radio World* magazine of practical tips and tricks that cross all aspects of infrastructure. We asked John to do a "best of" ideas, for cost effective advance planning to maintain up-time in tight times.

Brad Strommen (Comcast LA) has spent the last few years

assembling large monitoring and control systems, so who better to ask to bring us up to speed with the state of the art of the ever more critical Monitoring and Control functions.

After lunch, "Infrastructure and the Accidental Administrator" is probably the best title of the day. Brad Gilmer did a piece, a little off topic, on the practical realities of being a broadcast engineer in an information systems-based business. How that redefines not just what we need to know and be proficient with, but how we work with others and structure our departments is something we think about a lot, but seldom talk about. Brad gives this "off" topic context and clarity.

Dave Davies (CEI - Consolidated Engineering, Inc.) has been a fixture in our regionally presented Ennes Workshop programs for the last year, as has Skip Erickson (Harris). This isn't the first time we've asked someone doing the "road shows" to put together a special program for NAB. In the case of Mr. Davies, it's about towers, and what it takes to intelligently manage and maintain them (on Friday, the PBS program has Mr. Davies covering more of the physical aspects of towers). In the case of Skip, it's about disaster, and the realities of recovering from the loss of your infrastructure. We're talking minions, credit cards, and the politics of coffee, crime scenes, regulations and real estate. In other words, these two presentations are anything but academic. They change the way you do things.

Power is always a critical need and William Havrilla of Bay City Electric will take us through the process of giving our power systems their maximum life and reliability. As power systems become more intelligent, we have more opportunity to know the health of our systems and exercise and maintenance routines.

Maintaining our IT infrastructure means facing IPv6. As much fun as NATs are, the limitations of IPv4 addressing from QOS, to multicast, to maintaining IPsec from end to end, are pushing our infrastructure to the limits. Twelve years into the Standards Track and by NAB time, the last top level block of IPv4 addresses will have been released, IPv6 is widely adopted on commercial networks and moving closer. Wayne M. Pecena, CPBE, 8-VSB, AMD, DRB, CBNT (Texas A&M), has agreed to close out the day with, "what is it Broadcast Engineers most need to know?... IPv6"

Attendance at the Ennes program requires an NAB Flex Pass or Smart Pass registration, or PBS/NPR program access. SBE members can register and get a \$100 discount off the NAB Member or Non-member rate. You may register at www.nabshow.com. Use the promotion code: TF34.

2011 NAB SHOW *from page 1*

for a floor plan indicating the booth location. The BEC technical sessions will be located nearby, in the South Hall second floor meeting rooms.

Be sure to visit the SBE booth while at the show. We will have all of the SBE published handbooks, technical books from major publishers and the SBE CertPreview. There will also be several of our popular SBE logo items for sale. Membership renewals and new memberships may also be transacted at the booth. SBE staff and national Board members will be at the booth to answer your questions about membership, certification, educational programs and regulatory issues.

Booth Hours

Sunday 2:00 pm – 4:00 pm
Monday – Wednesday 9:00 am – 6:00 pm
Thursday 9:00 am – 2:00 pm

SBE Spring Membership Meeting

Highlighting the week for SBE will be the annual spring Membership Meeting, held on Tuesday, April 12 from 5:15 pm to 6:00 pm in the South Hall at the Las Vegas Convention Center, room S225. We will be recognizing a number of our local chapter certification chairs during the meeting and three 25-year Sustaining Members. Prizes will be given away to those who attend. Thanks to our spring Membership Meeting Sponsor - Vislink News and Entertainment.



Meetings held at the Las Vegas Hilton unless indicated otherwise

Saturday, April 9

Ennes Workshop 8:00 am – 5:00 pm
(Conference registration required) LVCC South Hall 2nd Floor
SBE Certification Committee Meeting .. 6:30 pm – 10:00 pm
Conference room 7

Sunday, April 10

SBE Board of Directors Meeting 8:30 am – 12:00 pm
Conference Rooms 7 & 8
SBE Education Committee Meeting 2:00 pm – 4:00 pm
Conference Room 7

Tuesday, April 12

SBE Certification Exams 9:00 am – 12:00 pm
Conference Rooms 9 & 10
SBE Frequency Coordinators Meeting.. 10:00 am – 12:00 pm
Conference Rooms 7 & 8
SBE Spring Membership Meeting 5:15 pm – 6:00 pm
LVCC Room S225 - Sponsored by Vislink News & Entertainment

Registration Discounts for SBE Members

SBE members can get a \$100 discount off either the NAB Member or NAB Non-Member rate Flex Pass Conference registration. Use the special SBE member code, TF34 in the promotional field in Section 1 of the NAB Show registration form. To register, visit the NAB website, www.nabshow.com/2011. Register before April 8 to avoid paying higher registration rates.

The Flex Pass includes admission to the Broadcast Engineering Conference (which includes the Ennes Workshop on Saturday, April 9), Broadcast Management Conference, Content Conference, DCS 2011, Media Business Conference, Military & Government Summit, Telecom Access Networks Conference and Telepresence Conference. It also includes access to Super Sessions, Opening Keynote and State of the Industry Address, Info Sessions, one Luncheon (Radio, Television or Technology), Content Theater, Exhibits and PITS.

We hope you'll join many of your fellow SBE members April 9-14 in Las Vegas for the 2011 NAB Show and NAB Broadcast Engineering Conference.

SPECTRUM MANAGEMENT *from page 5*

It is unclear, and the staff of the Homeland Security Committee could not adequately explain to us, why either of the bands listed was included in this Bill, except to say that they asked some Public Safety entity or entities what bands would be “commercially attractive” in an auction. However, because neither band is a dedicated public safety allocation, and never have been, the suggestion that this is some sort of “spectrum swap” for the D-Block makes no sense at all. There is no justification to be found anywhere in H.R. 607 for the reallocation of the 420-440 MHz or 450-470 MHz bands, and the specification of either band in the Bill as a quid pro quo for the allocation to Public Safety of the D-Block is seriously ill-conceived.

How serious is this? If you listen to some Public Safety advocates, this is a temporary issue that will go away on its own. They say that it was introduced this way just to make the point that there is no free lunch for Public Safety as against either the D-Block auction revenues not had, and the cost of the construction of the public safety network. But Rep. King has not indicated any willingness to amend the Bill. It has been sent to the House Energy and Commerce Committee. Many different entities, including SBE, are actively working to oppose Section 207(d) of this Bill, though of course the remainder of the Bill has no effect on broadcasting or broadcast engineering, so we don't have any reason to oppose the entire Bill. Add your voice to SBE's. Send a letter to your Congressperson or Senator about this.

The sooner that Congress gets out of spectrum management and leaves it to the spectrum managers, the better off we will all be.

SBE Membership Meeting will recognize years of service



jpokay@sbe.org

by **John L. Poray, CAE**

SBE Executive Director

With the annual NAB Show just days away, I'd like to remind those of you who will be attending that the SBE will be holding its spring membership meeting on Tuesday, April 12 at 5:15 pm. I hope you will include it on your schedule. The meeting will be in room S225 of the convention center's

South Hall and we will conclude by 6:00 pm.

This year, the first 125 members in attendance will receive a special SBE key chain. We'll be giving away free dinner gift cards and one lucky winner will win a Garmin 1300 LMT GPS with lifetime maps and traffic. The prize also includes a dash mount, in home charger and carrying case. Our thanks to **Vislink News and Entertainment** for their sponsorship once again this year. Vislink is also continuing their commitment to the education of current and future broadcast engineers with their contribution of \$500 to the Ennes Educational Foundation Trust Scholarship Fund!

We are going to be recognizing a number of members during the membership meeting who serve their local chapters as the Certification Chair. SBE National Certification Committee Chair, **Jim Bernier** (Chapter 5-Atlanta) will present these members with a plaque or pin, commemorating their service anniversary. A good number of those we will be recognizing have volunteered in this capacity for many years. They all serve as the face of SBE's certification program to members locally, helping to promote the value of certification as well as ensure that SBE exams are proctored in their area. We are indebted to them.

We will also be recognizing three national SBE Sustaining Members as they celebrate 25 consecutive years of membership with the SBE. The three companies include, **Broadcast Supply Worldwide (BSW)**, **Fujinon** and **Radian - a Division of Prestige Telecom**. We are grateful that all three of these companies joined the SBE back in 1986 and are still with us today. In fact, of our more than 100 Sustaining Member companies, 16 of them have been with SBE for 25 or more years. Please be sure to consider these Sustaining Member companies first, when you are in need of equipment or services.

An update on projects in the works... the Certification Committee continues to prepare for the release of the new **Certified Broadcast Networking Engineer (CBNE)** certification with expectations that it will be ready this spring. This new certification will reflect today's expectations of broadcast engineers to

know how to maintain and build computer networks used in a broadcast station environment.

In the area of education, our Education Committee, chaired by **David Priester** (Chapter 140-Ithaca), has approved the creation of seven new SBE University courses. Two of these are expected to be available by June, including, **ENG Truck Operations and Modulation**.

We've held two successful Ennes Workshops so far in 2011, in Sacramento and South Florida, with programs at NAB and in Pittsburgh and New York City coming up. Our thanks to Ennes Trustee and member of the SBE Education Committee, **Fred Baumgartner** (Chapter 48-Denver), for his work to make these programs possible. We have room on the schedule to add two more Ennes Workshops in the fall of this year. If your chapter is interested, contact Kimberly Kissel at the National Office and she'll explain what's involved.

Finally, I would like to encourage every member to participate in this year's membership drive, themed, "Raising the Bar," by recruiting one new member. You may know someone at your station, or a client, who would benefit from membership in the SBE. Invite them to join! More information about the drive can be found on page 12 of this issue of the *Signal*. And, if you haven't renewed your own membership, be sure to take care of that soon. Go to the SBE website and click on "Renew Membership" in the upper right hand corner of the home page.

I hope to see many of you in Las Vegas at the NAB Show!

PROJECT MANAGEMENT *from page 1*

responsibilities of those involved in planning and executing a capital project. Emphasis is placed on the roles and responsibilities of the station, consultants and system integrators.

Who Should Attend: This webinar will assist managers, design engineers, chief engineers and staff members planning and executing upgraded or new facilities plan effectively, and manage without undue conflict.

About the Instructor: A member of SBE and named the SBE Engineer of the Year in 2010, John Luff is an independent media technology consultant. In a career spanning over four decades he has provided technology expertise to hundreds of clients in North America, South America, Africa, Asia and Europe.

SBE Recertification Credit: The completion of this webinar qualifies for one credit, identified under Category I of the Recertification Application for SBE Certifications.

Registration & Pricing: SBE Members: \$59/Non-Members: \$79

More information: For more details about this webinar and about the instructor, John Luff, visit the SBE website at www.sbe.org/sections/ManageaProjectWebinar.php. Questions? Contact Education Director, Kimberly Kissel at kkissel@sbe.org or (317) 846-9000.

Honor a member or chapter with an SBE National Award

Some SBE Members go above and beyond the call of duty to do their jobs and serve SBE and the broadcast industry. Some local SBE chapters do an absolutely excellent job of serving their members. But oftentimes these efforts go unrecognized. Don't let that happen this year. Nominate a deserving individual or SBE chapter for the SBE National Awards.

To nominate a deserving individual or chapter, go to the SBE website and download and submit the nomination form to

the SBE National Office. Mail to: Society of Broadcast Engineers, Attn. Awards Committee, 9102 North Meridian St., Suite 150, Indianapolis, IN 46260; fax to (317) 846-9120 or email to Megan Clappe at mclappe@sbe.org.

Award winners will be notified in July and invited to receive their award at the 2011 SBE National Meeting, which will be held in conjunction with the Ohio Association of Broadcasters Engineering Conference, September 27-28 in Columbus. The winners will be recognized during the SBE

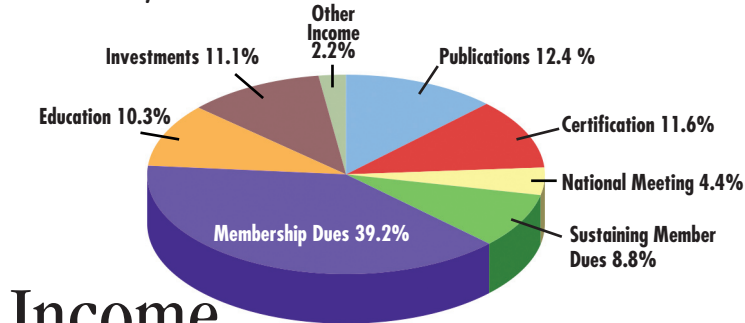
National Awards Dinner on September 28.

The deadline for all nominations is June 15, 2011, recognizing achievements that occurred from June 1, 2010 through May 31, 2011. For additional information, please contact Megan Clappe at mclappe@sbe.org or (317) 846-9000 or contact the Awards Committee Chairman, Tim Anderson at tim.anderson@harris.com or (859) 445-7135.

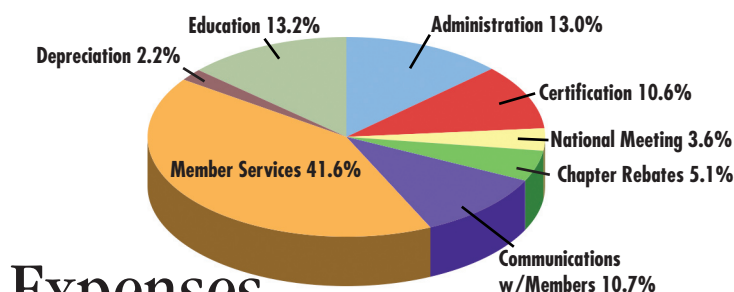
2010 SBE Financial Review

The Society of Broadcast Engineers, Inc. completed 2010 with net revenue from all operations of \$-11,431. Net revenue from cash operations only, was -\$73,979. Gross income from all sources was \$706,031 while expenses were \$717,462. The value of SBE medium and long term investments as of December 31, 2010 was \$1,047,469, which was \$77,840 greater than at December 31, 2009. Total SBE assets as of December 31, 2010 were \$1,138,048, a decrease of \$11,431 over 2009.

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



Income



Expenses

Win in the 2011 Membership Drive

The 2011 SBE Membership Drive is going on now! Keep *Raising the Bar* and recruit more members. The drive started on March 1 and will end May 31, 2011, meaning there is still time to be entered in the Membership Drive prize drawing!



With each new member, your name will be entered in the Membership Drive prize drawing. Your name will be entered five times for each Sustaining Member you recruit.

This year's grand prize is a trip to the SBE National Meeting in Columbus, Ohio September 27-28, which includes airfare for one to Columbus from within the continental US and two nights stay at the Crowne Plaza Downtown Hotel.

Other prizes include:

- (2) Kathrein AON 65 UHF-TV antennas, courtesy of Kathrein Inc., Scala Division
- *Small Antennas* by Volakis, Chen and Fujimoto, courtesy of McGraw-Hill
- CamAlign Front-lit Charts, courtesy of DSC Laboratories
- (1) Trifield Meter, courtesy of Middle Atlantic Products
- (2) Logo Polo Shirts, courtesy of Middle Atlantic Products
- (2) Logo Polo Shirts from Broadcast Electronics
- And Many More Prizes to Come!

You also will receive five dollars off your 2012 membership renewal for each new member you recruit (up to \$25), which means everyone is a winner! *Raise the Bar* this year and recruit even more members than last year.

In the Circle ... *a snapshot of an SBE Member*



Lou Mueller, CPBE, AMD Sole Proprietor - Louis Mueller Broadcast Service, Altamonte Springs, Fla.
Joined SBE in 1981, Chapter 42 - Central Florida

Focal Point: With SBE, I value the chance to communicate with fellow engineers to exchange ideas and become better educated about technology and regulations.

Getting Started: I started in broadcasting as an announcer during high school and always appreciated the technical side of the business. After 15 years of asking questions and handing the station engineer his tools, I worked my way into the department and up the ladder from there.

Pictured Here: My wife bought me an hour of flight in this beautiful Stearman for Valentine's Day. What a great day off!

Chapter Spotlight

38 - El Paso
www.kint98.com/sbe38/sbe38.html



Members of SBE Chapter 38 during a chapter meeting

Advice for chapters from SBE Chapter 38 - El Paso

Having a strong chapter means keeping the members motivated and well informed at all times. Having good and attractive programs assures high attendance and helps keep chapters going strong.

Outside of the ENNES workshop we hosted in May, 2010, our most successful programs have been "BAS Relocation", held in November with T-Mobile, and "Data File Transfer", held in December with Harris. In order to have successful programs, we choose subjects suitable for both radio and TV. The ideas for our programs come from discussion with the chapter members, sustaining members and by contacting reps from the industry.

My advice to other chapters would be to make good use of chapter funds by putting it toward scholarships, social events, reunions, sponsoring meetings, etc. Keep communications and fellowship strong by continuously approaching members outside of regular meetings. Use your chapter newsletter as an outlet to provide education to your members.

- Jose Antonio Castro, Chapter 38 Chairman



Members on the Move

Jay Gerber, CBT recently announced his retirement. Gerber had served for more than 15 years as manager of the NFL's Game Day Coordination program, which followed his long career with NFL Films.

Bob du Treil will receive one of two of the 2011 NAB Engineering Achievement Awards during the Technology Luncheon at the 2011 NAB Show.

ENNES

EDUCATIONAL FOUNDATION TRUST

Harold Ennes Scholarship

John Batson, Birmingham, AL
Frederick Baumgartner, Elizabeth, CO
Wilson Brown, Chantilly, VA
Ronald Capan, Pittsburgh, PA
Timothy Carroll, Lancaster, PA
Hai-jong Chon, Woodbridge, CT
Jorge Conde, Guayama, Pu
Jack Conner II, South Freeport, ME
Andrea Cummis, Roseland, NJ
Scott Curts, Aurora, IL
Edward Damerel, Richmond, VA
Richard Dana, Richmond, VT
James Daskiewicz, Omaha, NE
Stephen Davis, Coweta, OK
Alan Eng, Oakland, CA
James Kirklin, Mattawan, MI
Peter Magee, Poland, ME
Anthony Neece, Tarzana, CA
James Pollock, Mount Laurel, NJ
Jan Pritzl, Milwaukee, WI
Bradford Scott, Cincinnati, OH
Robert Sleight, Apex, NC
Ernest Sutton, Jr., Sweetwater, TN

thank you to the following supporters for their scholarship funds contributions:

Christopher Thomas, Vienna, VA
Barry Thomas, Dunwoody, GA
Richard Thomas II, Okemos, MI
Alan Wray, Alexandria, VA
SBE Chapter 136, Rio Grande Valley

Robert Greenberg Scholarship

Scott Curts, Aurora, IL
Craig Fox, Syracuse, NY
Russell Harbaugh, Southfield, MI
William Harris, Albuquerque, NM
Milford Smith, Jr., Lawrenceville, NJ
John Strahler, Santa Barbara, CA
Ernest Sutton, Jr., Sweetwater, TN

Youth Scholarship

Harold Borth, Long Island City, NY
Ronald Crockett, San Antonio, TX
Joe Dimaggio, Wethersfield, CT
Gregory Foss, Riverside, CA
James Grimes, Chatham, IL
Kishore Persaud, Fairfax, VA
Matthew Saplin, Niskayuna, NY

The Ennes Educational Foundation Trust offers scholarship, presents educational programming and provides grants for educational projects that benefits broadcast engineering and the broadcast engineer. To make a tax-deductible donation, make your check payable to the Ennes Educational Foundation Trust and mail it in care of the Society of Broadcast Engineers, 9102 North Meridian Street - Suite 150, Indianapolis, IN 46260.



Answer:
(4) TCP/IP

question on page 6

Support these companies who support the industry and the Society of Broadcast Engineers

- ADC Telecommunications Inc. • 1998**
Anne-Marie Gunderson (952) 917-3072
Fiber and Copper Interconnect
- Advanced Broadcast Solutions • 2008**
Mark Siegel (206) 870-0244
Systems Integrator
- American Tower Corporation • 2000**
Peter A. Starke (781) 461-6780
Broadcast Tower Development/
Construction/Management
- Anton/Bauer Inc. • 2004**
Sol Comerchero (203) 929-1100
Manufacturer Portable Power Systems
- Audemat-Worldcast Systems Inc. • 2000**
Christophe Poulain (305) 249-3110
RDS Generator, Metering, Monitoring, Remote
Control Manufacturer
- Audionamix • 2009**
Olivier Attia (800) 787-4134
Audio Signal Processing
- AVCOM of Virginia, Inc. • 2010**
Warren "Buck" McElfresh
(804) 794-2500 ext. 312 - Spectrum Analyzers
- AXCERA • 1983**
Mike Rosso (724) 873-8100
Broadcast Television Transmitter Manufacturer
- Belden Electronic Division • 1991**
Kip Coates (765) 983-5200
Cable and Connectivity
- Beveridge Consulting, Inc. • 2006**
Gregory J. Beveridge (720) 810-3464
Broadcast Engineering Technical Consulting
- Bexel • 2009**
Garrick Lewis (818) 565-4314; Calrec
Broadcast and Audio Consoles
- Broadcast Electronics, Inc. • 1978**
Ray Miklius - Studio Products
Tim Bealor - RF (217) 224-9600
Radio Equipment Manufacturer
- Broadcast Engineering Magazine • 1984**
Bradley L. Dick (913) 341-1300
Journal of the Broadcast Industry
- Broadcast Microwave Services, Inc. • 1997**
Jim Kubit (805) 581-4566
Manufacturer, Transmitters, Receivers, Antenna
Systems
- Broadcast Supply Worldwide • 1986**
Shannon Nichols (800) 426-8434
Audio Broadcast Equipment Supplier
- Broadcasters General Store • 2004**
Buck Waters (352) 622-7700
Broadcast Audio Video Distributor
- Canon USA, Inc. • 1985**
Larry Thorpe (201) 807-3300, (800) 321-4388
Broadcast Lenses & Transmission Equipment
- Communications Laboratories • 2008**
Jared Maynard (321) 409-9898
Emergency Management Network
- Comrex Corporation • 1997**
Chris Crump (978) 784-1776
Audio codecs & Telephone Interface Products
- Comsearch • 2004**
Tim Hardy (703) 726-5651
Frequency Coordination Services
- Content & Communications World (CCW) • 2006**
Michael Driscoll (203) 371-6322
HD World, 3D World and SATCON
- Continental Electronics Corporation • 1976**
Michael Troje (800) 733-5011
AM & FM IBCB Transmitters
- Dejero Labs • 2009**
Bogdan Frusina, CTO (519) 886-8070
Complete Cellular ENG Platform
- Dialight Corporation • 2006**
US Headquarters (732) 919-3119
FAA Obstruction Lighting, L.E.D. Based
- Dielectric Communications • 1995**
John George (803) 951-7443
or Matt Leland (207) 655-8139
TV & FM Broadcast Products
- Digital Alert Systems, LLC • 2005**
Bill Robertson (585) 765-1155
Emergency Alert Systems
- DigiTenna, LLC • 2009**
Brad Eckwielen (920) 564-6248
Television Receiving Antenna Manufacturing
- DSI RF Systems, Inc. • 2010**
Judy Mueller (732) 563-1144
RF Service/Installation/Products
- DTS • 2009**
Mark Seigle (425) 814-3200
Surround Sound Technologies
- du Treil, Lundin & Rackley, Inc. • 1985**
Jeff Reynolds (941) 329-6000
Consulting Engineers
- DVEO - Division of Computer Modules, Inc. • 2011**
Laszlo Zoltan (858) 613-1818
Everything About Transport Streams
- e2v • 1997**
Mark Strohecker (914) 593-6831
Electronic Components, SATCom Amplifiers
- Econco • 1980**
Debbie Storz (800) 532-6626 or (530) 662-7553
New & Rebuilt Transmitting Tubes
- Elektronika America Inc. • 2010**
Maria Quintero (305) 592-4506
Television Transmitter & Exciters
- ENCO Systems Inc. • 2003**
Don Backus (800) 362-6797
Digital Audio Automation & Delivery
- ERI - Electronics Research • 1990**
David White (812) 925-6000
FM & TV Antennas, Transmission Line, Filters,
Combiners and Towers
- Floral Systems • 2008**
Jim Berry (352) 372-8326
Television Broadcast Automation
- Frontline Communications Corp. • 2000**
Stephen Williamson (727) 573-0400, ext. 160
Manufacturer Broadcast Vehicles
- Fujinon, Inc. • 1986**
Thom Calabro (973) 633-5600
Broadcast & Communications Products
- Gepco International • 1995**
Dave Chapa (847) 795-9555
Audio, Video Cable Products
- Grass Valley • 2000**
Andy Jackson (404) 929-5000
TV/Film Production & Broadcast Professionals
- Harris Corporation, Broadcast
Communications Division • 1977**
Dave Hopson (TV) (513) 445-5243
Mark Goins (Radio) (513) 899-9124
Broadcast Equipment Manufacturer
- Image Video • 1997**
Zach Wilkie (416) 750-8872 ext. 228
Design and Manufacture Broadcast Equipment
- Jay S. Gerber, CBT • 1999**
(205) 491-6904 Manager,
NFL Frequency Organization Group
- Joseph Electronics Inc. • 2003**
Yohay Hahamy (847) 501-1584
Broadcasters One-Stop Supplier
- Kathrein Inc., Scala Division • 1985**
Michael W. Bach (541) 779-6500
Antennas for Broadcasting & Communications
- Kintron Labs, Inc. • 2010**
Eric Miramontes (423) 878-3141
AM HD Antenna Systems
- KPFF Consulting Engineers • 2004**
Madison Batt (206) 926-0508
Tower Engineering, Inspections Design
- L-3 Communications Electron Devices • 2003**
Steve Bliet (570) 326-3561, ext. 229
Tubes, Power
- LBA Technology, Inc. • 2002**
Jerry Brown (252) 757-0279
AM/MW Antenna Equipment & Systems
- Lincoln Financial Media • 2007**
Barry Thomas (404) 261-2970
Media Group Owner
- LYNX Technik • 2007**
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Broadcast Terminal Equipment Manufacturer
- Markertek Video Supply • 2002**
Andrew Barth (845) 246-3036
Audio, Video, A/V Broadcast Supply
- Maxell Corporation of America • 1991**
Patricia Byrne (201) 794-5900
Data/Broadcast Video Media
- MAYAH Communications • 2010**
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Audio CODECS: Mobile/ 1/21 RUrack
- Micronet Communications, Inc. • 2005**
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- Middle Atlantic Products • 2005**
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- MoreCom, Inc. • 2009**
Kyle Moorehead (763) 533-5535
Networking & AV Construction
- Moseley Associates, Inc. • 1977**
Dave Chancey (805) 968-9621
Digital STLs AM/FM/TV
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(202) 429-5340
Industry Trade Association
- National Football League • 1999**
Jay Gerber
Game Day Coordination Operations
- Nautel, Inc. • 2002**
Gary Manteuffel (877) 662-8835
Radio Broadcast Transmitter Manufacturer
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Robert Sorbet (281) 500-8940
Electrical Equipment Sales
- NuComm/RF Central • 2009**
Don Hoeler (908) 852-3700 ext. 3110
Digital and Analog Video Microwave Systems
- OTL • 2010**
Martin Rochon (574) 318-5810
Tower Lights (Lighting)
- Panasonic Solutions Company • 1985**
Joe Facchini (201) 392-6183
Professional Broadcast Equipment
- Pasternack Enterprises • 2001**
Christine Hammond (949) 261-1920
Coax & Fiber Products
- Preferred Tank & Tower, Inc • 2010**
Vic Majors (270) 826-7950 ext 227
Communication Tower Maintenance/repair
- Prime Image, Inc. • 1997**
Rodney Hampton (408) 867-6519
Digital Audio/Video Equipment
- ProAudio.com - A Crouse-Kimzey Co. • 2008**
Mark Bradford (800) 433-2105 ext. 560
Proaudio Broadcast Equipment Distributor
- Propagation Systems Inc. - PSI • 2010**
Doug Ross (814) 472-5540
Quality Broadcast Antenna Systems
- Pulsecom • 2003**
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AM, FM and HD STLs, Copper & Optical
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Inc. • 2002**
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Multimedia Retailer
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Towers, Antennas, TV Installation
- RCS • 2003**
Diana Stokey (308) 284-3007
Audio and Video Content Management
- RDL • 2004**
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- RF Specialties Group • 2008**
www.rfspecialties.com
Everything from the microphone to the antenna
- Richland Towers • 2001**
David Denton (813) 286-4140, ext. 4235
Tower Owner/Management
- Rio Steel & Tower • 2010**
Keith Cendrick (817) 225-0890
Turn-key Tower/Antenna Services
- Rohde & Schwarz • 2003**
Eddy Vanderkerken (469) 713-5322
Broadcast Transmitters, Test & Measurement
- ROSCOR Corporation • 1998**
Tom Voigts (847) 299-8080
DTV System Integrator
- Ross Video Ltd. • 2000**
Kyle Luther (613) 652-4886
Manufacturer, Television Broadcast Equipment
- Sage Alerting Systems, Inc. • 2010**
Gerald LeBow (914) 872-4069
Emergency Alert Systems Products
- Salzbrenner Stagetec Media Group • 2009**
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Professional Audio Solutions
- SCMS, Inc. • 2000**
Bob Cauthen (800) 438-6040
Broadcast Equipment- New/Used
- Screen Service America • 2010**
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Broadcast Transmitter & ATSC Mobile
- Seacomm Erectors, Inc. • 1997**
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Tower/Antenna Erections
- Sencore, Inc. • 2005**
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MPEG Operation and Test Equipment
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- Sigmat • 2008**
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- Staco Energy Products Co. • 2010**
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Manufacturer Voltage Regulators, UPS
- Stainless LLC/Doty-Moore • 2004**
Ed Deetscreek (215) 631-1323
Towers - Engineering - Services - mods
- Superior Electric • 1995**
Michael J. Miga (860) 507-2025
Power Protection Equipment
- Sutro Tower, Inc. • 1989**
Eric Dausman (415) 681-8850
Broadcast Tower Leasing
- TC Electronic • 2008**
Ed Simeone (818) 665-4902
DTV Audio Level Processing
- Technostrobe • 2009**
Francis Lacombe (877) 578-7623
FAA lights - High Intensity
- Tektronix, Inc. • 1977**
James Lang (800) 833-9200
Video Test Equipment Manufacturer
- Telos Systems/Omnia/Axia • 2003**
Denny Sanders (216) 241-7225
Telos Systems - Talk-Show Systems
- Terrestrial RF Licensing Company • 2003**
Steven Slucom (888) 373-4832
FCC Broadcast Auxiliary Licensing Services
- The Durst Organization - 4 Times Square • 2004**
John M. Lyons, CPBE (212) 997-5508
TV/FM/Microwave Tower Site
- The Whitlock Group • 2000**
Kevin Thompson (800) 726-9843
Broadcast and Presentation Solutions
- Tieline Technology • 2003**
Mary Ann Seidler (317) 845-8000
POTS, ISDN, Codecs & A/V Products
- TV Magic • 2008**
Benito Behar (858) 650-3155
Broadcast Systems Integrator
- Unimar, Inc. • 2001**
Thad Fink (813) 643-6791 or (813) 943-4322
Tower Obstruction Lighting Designer,
Manufacturer, Distributor
- VALCOM • 1996**
Bill Burtenshaw (519) 824-3220
AM/FM Broadcasting Antennas
- Vislink News and Entertainment • 1991**
Nadine Frechette (978) 671-5700
Video Microwave Systems
- Ward-Beck Systems Ltd. • 2004**
Michael Jordan (416) 335-5999
Metering, Monitoring, Distribution,
Conversion
- Warning Systems, Inc. • 2008**
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CAP, Warning, Emergency Alert
- Wheatstone • 2010**
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