



# the SIGNAL

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"Indy"

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## Lopez re-elected SBE President

**V**incent Lopez, CEV, CBNT has been elected to a second one-year term as president of the Society of Broadcast Engineers. Lopez is the Director of Engineering for WSYT/WNYS TV, Sinclair Broadcast Group, in Syracuse, N.Y.



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Ballots were tabulated on the evening of August 26 by a Board of Tellers consisting of members of Chapter 25 in Indianapolis. Lopez' second term will begin on October 27, during the SBE Annual Membership Meeting held as a part of the SBE National Meeting in Madison, Wis. Lopez was un-

opposed in his candidacy as were the other three officers, all of whom were re-elected.

Re-elected to a second term as vice president was Ralph Hogan, CPBE, DRB, CBNT, Director of Engineering at KJZZ-FM/KBAQ-FM in Tempe, Ariz. Elected to a fourth term as Secretary was Ted

See **ELECTION RESULTS** on page 12

## 2010 SBE National Meeting returns to Madison

**T**he 2010 SBE National Meeting will be held on October 26-27 at the Marriott Madison West Hotel, located in Middleton, Wis. The meeting will be hosted by Chapter 24 of Madison, Wis. and held in conjunction with the Wisconsin Broadcasters Clinic, held October 26-28, sponsored by the Wisconsin Broadcasters Association (WBA) and SBE Chapter 24.

The Clinic is one of the longest running broad-

cast engineering conferences in the United States. It includes technical papers and panel presentations over all three days and an equipment trade show on the first two days. Registration and more information may be made by going to the WBA website, [www.wi-broadcasters.org](http://www.wi-broadcasters.org) and clicking on "Broadcasters Clinic." Chapter 24, the WBA and SBE invite any and all SBE members and others interested in broadcast technology to attend.

See **NATIONAL** on page 11

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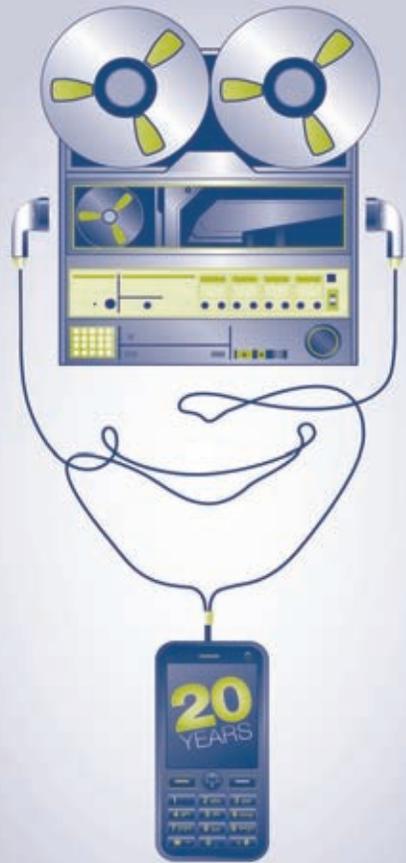
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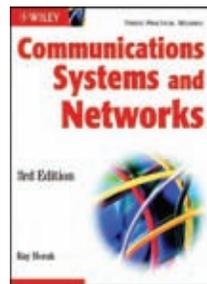
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The SBE Bookstore offers several references suggested for SBE certification exam preparation, including:



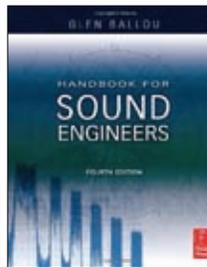
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# SBE to help produce NAB Broadcast Engineering Conference

**T**he Society of Broadcast Engineers will again work closely with the National Association of Broadcasters as its production partner for the NAB Broadcast Engineering Conference (BEC) to be held at the 2011 NAB Show in Las Vegas. The annual event, the largest media show in the world, will be held from April 9-14, 2011.

SBE and the Ennes Educational Foundation Trust will present a full day Ennes Workshop to kick off the BEC on Saturday, April 9. The Workshop will primarily cover broadcast plant infrastructure. Long time SBE member, Fred Baumgartner, CPBE, CBNT, who serves as a trustee of the Ennes Trust, is organizing the Workshop program. A complete description of the topics and speakers who will present during the Ennes Workshop will be available at the SBE and NAB websites. The BEC will continue Sunday through Thursday with dozens of technical presentations, case studies and panels. NAB's Call for Papers deadline is October 22. A nine member committee is working with NAB staff to plan the six-day conference. They include Dom Bordonaro, Cox Radio Connecticut (chairman), Milford, Conn.; Jeff

Andrew, WTTG-TV, Washington, D.C.; Greg DePriest, NBC Universal, New York City; Steve Fluker, Cox Media Group, Orlando, Orlando, Fla.; Ardell Hill, Media General, Richmond, Va.; Brett Jenkins, ION Media Networks, New York City; Jim Kutzner, PBS, Alexandria, Va.; Martin Stabbert, CPBE, Citadel Communications, Las Vegas, Nev.; Jim Stagnitto, WNYC/WQXR Radio, New York City and Glynn Walden, CBS Radio, Philadelphia.

Attendees of the PBS and NPR engineering conferences, which precede the NAB Show in Las Vegas, will have the opportunity to attend the Ennes Workshop as the final day of their respective technical conferences. Attendance at the Ennes Workshop during the BEC requires a full NAB conference registration. Hotel, registration and fee information will be available soon at the NAB website, [www.nab.org](http://www.nab.org).

SBE's other activities during the 2011 NAB Show will include an exhibit booth, board of directors meeting, certification committee meeting and membership meeting.



What's your  
Certification Quotient?

Question: CSMA/CA

- A. Stands for carrier sense, multiple access, collision avoidance
- B. Involves RTS, CTS and ACK
- C. Is utilized in IEEE 802.11
- D. Is essentially identical to CSMA/CD
- E. All of the above except D

answer on page 9

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# Fade out, fade in

by **Vinny Lopez, CEV®, CBNT®**

*SBE President*



vlopez@sbe.org

**W**ell, another year has gone by and another SBE election has concluded. I want to take some time to thank the outgoing directors for their service and welcome our newest directors elected by you on August 26th. The changes to the Board take affect on October 27th.

Going off the board of directors after serving one, two year term will be Mark Simpson, CPBE, AMD, CBNT of Tucson, Ariz. Mark was most recently the chair of the IT Strategies Committee and has chaired the Awards Committee as well. Also leaving us is three-term board member, Jim Bernier, CPBE, CBNT of Atlanta Ga. Jim has been chairman of the Certification Committee for the past five years. He also has chaired the IT Strategies Committee. Jim had also done a previous stint on the board of directors, having served from 1994 to 1997. We wish both our departing directors well, and thank them for their service on the board.

We also want to take the opportunity to welcome our two newest directors to the board. Gary Kline is vice president of engineering and IT for Cumulus Media. With responsibilities for over 360 radio stations in 67 cities, he brings a wealth of knowledge to the SBE board of directors. We also welcome Tim Anderson to the SBE Board. Tim is currently Manager,

Radio Market and Product Development for the Harris Corp. Broadcast Communications Division. Tim has been a broadcast engineer for 34 years, working for iBiquity and Avid before joining Harris. Thanks to both of these men for volunteering to help shape your society for the next two years.

I have been running a contest to see how observant you are. I asked for the common theme of the titles of all my *Signal* articles since I became president. We have our winners in the contest, but first the answer to the contest was that all of the titles of my articles were also titles of MASH episodes. Congratulations to the three winners randomly selected from all correct entries: Walt Gradzki, CPBE of Chapter 18, Jonathon Solomon, CBT, CBNT of Chapter 132, and Paul Stoffel, CPBE of Chapter 24. The national office will be in touch with each of you regarding your prize; a free copy of SBE CertPreview for the SBE certification exam of your choice. Thanks to all who participated, and look for more little contests in the upcoming months.

Summer is over, and fall is upon us. With each fall we look to cooler weather, fresh apples right off the trees and SBE fall regional conventions. There are two fall regional events I want to point out to you starting early in October. The 2010 Broadcast & Technology Expo in Verona N.Y., presented by SBE Chapter 22 and the Broadcasters Clinic in Madison Wis. presented by SBE Chapter 24 and the Wisconsin Broadcasters Association.

The Broadcast & Technology Expo is taking place on October 6th at the Events Center at the Turning Stone Casino & Resort in Verona N.Y., about 30 miles east of Syracuse. There is a full day of tech

sessions, as well as a large exhibit floor. This event, held since the early seventies, is produced in its entirety by SBE Chapter 22, with no professional planners involved. More information on this expo is available at <http://www.sbe22expo.org>. The Broadcasters Clinic, held at the Marriott Madison West Hotel in Middleton, Wis. from October 26th-28th, has a rich 50+ year history of service to the engineering community in the Midwest. It is also the site of the 2010 SBE National Meeting and Awards Dinner. The Clinic is a three-day event with radio oriented sessions on the first day, topics of general interest on the second day and TV oriented topics are on day three. There is also an exhibit floor with dedicated exhibit hours. For more information on the Broadcasters Clinic, visit <http://www.wi-broadcasters.org>.

Time to get on the soapbox folks. If you are within a reasonable distance from either of these conventions, I encourage you to attend. The chapters and members who organize these events do a tremendous job providing a valuable educational experience for all attendees, and the best way for you to show your gratitude to them is to attend. Continued strong attendance at these events translates into their continuation for years to come and provides you, the member, with another important benefit. (stepping off the soapbox now)

That's going to about do it for this month. Hope to see you in Verona or Madison!

# Speaking words of wisdom, Let it be



by **Chris Imlay, CBT®**  
*SBE General Counsel*

I have had the great fortune to work with a guy almost daily for the past 30 years who is pretty much the smartest person I know. He prefers to remain anonymous so I won't identify him. He is not in the broadcasting industry, but he made an observation recently that really

struck me as unusually insightful, even for him. This relates somewhat to my column in the last Signal, about the broadband spectrum grab of television broadcast channels. I asked my colleague recently if I could share it with the SBE members and he kindly agreed. He said:

"I can't resist noting the irony; Broadcast spectrum uses a bit stream to deliver content simultaneously to thousands of viewers. One reason why there is a high demand for wireless broadband spectrum is because of the demand for video streaming, which requires a separate bit stream to each subscriber. So, Congress is considering taking a step to encourage replacing an efficient content delivery system that delivers content to the public free of charge with an inefficient one that the public has to pay for."

Profound? Yeah, buddy. Yet such an articulate point is seemingly lost on the policymakers in Congress and at the FCC, who are tripping over themselves to facilitate the conversion of broadcast television spectrum to mobile broadband uses. Take for example H.R. 5947, the "Voluntary Incentive Auctions Act of 2010." This Bill was introduced very late in this session of Congress, which will end very shortly. It was introduced by Rep. Rick Boucher (D-VA), the Chairman of the House Communications, Technology and the Internet Subcommittee, and Rep. Cliff Stearns (R-FL), the ranking member of that Subcommittee. Briefly, this Bill will permit the FCC to conduct incentive-based spectrum auctions on a voluntary basis. It gives FCC the authority to conduct voluntary auctions in which the revenue generated by the auction is shared with the (former) licensees that have voluntarily relinquished their spectrum. It also ensures that the Commission cannot reclaim spectrum on an involuntary basis. Under this Bill, the spectrum released by the licensee could be auctioned for licensed or unlicensed uses. The FCC would, under this Bill, have the discretion to determine the amount or percentage of auction proceeds that will be given to a licensee that voluntarily relinquishes its spectrum.

The FCC would have a year after enactment of the Bill to come up with rules to implement the voluntary incentive

auction revenue sharing plan. The Bill is very careful to not allow the FCC to reclaim frequencies of broadcast licensees or any other licensees, directly or indirectly on an involuntary basis for the purpose of conducting an incentive auction. Now this last provision is interesting. It would seem to limit FCC's ability to reallocate spectrum that is in the hands of any licensee in any radio service for auction purposes. That would seem to include not only broadcast main channel licensees, but Part 74 broadcast auxiliary licensees, Part 80, 87, 90, some Part 95, and all part 97 spectrum as well. So maybe the Bill has some redeeming qualities after all. In all likelihood, because there is something of a stalemate between the majority and the minority lately on FCC-related legislation, this Bill will die when this legislative session is over, which will be relatively soon. But surely some identical or very similar legislation will be reintroduced early in January 2011.

Another potential victim of the infighting between the majority and the minority in Congress on FCC-related legislation is the FCC Commissioners' Technical Resource Enhancement Act, S.2881 and H.R. 4809. While neither the majority nor the minority in the House has any concern with the House version of the Bill, and although the Senate reported the Senate Bill out of Committee on August 5 with a favorable recommendation that the Bill should pass, apparently it won't. This is because there is some other "FCC Reform" type legislation that each party has and is promoting. Since neither can agree to include the other side's bills in a package of FCC reform legislation, nothing gets to pass, including H.R. 4809 (which is caught in the crossfire). While this is frustrating (to say the least), if SBE's legislation does not pass this term, we will work toward having it reintroduced early in the next session, which starts in January, and take it from there. Control of the House and Senate is unknown as of this writing, and a change in either or both could have some effect on what gets introduced in January, but these Bills have broad bipartisan support and so we are hoping for the best. We did make good progress this time, and so we are hoping that selling the concept of Engineers in the Commissioners' offices will be even easier than it was this session.

So much for what is not happening. What is happening is that the FCC has proposed to permit fixed service point-to-point microwave facilities in the 7 and 13 GHz bands. FCC issued a Notice of Proposed Rule Making and Notice of Inquiry on August 5 in Docket 10-153. It wants to increase the amount of Fixed Service microwave spectrum to permit broadband wireless backhaul, for example. FCC said that the 2 GHz band, just now finished with repacking, would not be suitable for



# Certified Broadcast Networking Engineer

by **James T. Bernier, CPBE, CBNT**

*SBE Certification Committee Chairman*

It's been almost ten years since the SBE Certification Committee rolled out the Certified Broadcast Networking Technologist level. It has become one of the most popular certification levels. That's really

no surprise to those of us on the Certification Committee who helped develop it. We saw the emergence of computer networking within a broadcast facility and sought to find a way to help broadcast engineers meet the new challenges associated with computer networking.

It was a two prong approach. First was the development of the certification level itself. We decided that it would be a stand-alone certification, that is to say that an individual could make application and take the exam without holding any other SBE certification. An applicant would still need to be involved within the broadcast industry or allied fields in order to be eligible.

The second element was developed by Terry Baun, CPBE, CBNT. Terry wrote and presented a class on broadcast networking and the implementation of both computer systems and their networking. Terry presented this class many times in many different cities in the United States. After the class, participants had the opportunity to sit for the CBNT exam. And most were able to pass the exam, which really should not have been too surprising since Terry was one of the authors of the CBNT exam question pool.

Much of the material that was covered in those early days are considered rudimentary by today's broadcast networking requirements. As more and more equipment within a broadcast facility has integrated network interfaces for either control and/or media/data distribution, the networks themselves have become more and more complex. The added concerns about network security for either the protection of assets or maintaining the integrity of the computer network itself, have taken the skills required for a broadcast engineer to maintain such systems beyond the skill set which CBNT was intended to review.

At the NAB 2010 meeting of the SBE Certification Committee, it was decided that a new certification level needed to be developed to meet this new challenge.

Certified Broadcast Networking Engineer is expected to be introduced for 2011. It will be equivalent to a five year certification level, such as CBRE or CBTE. It is expected that applicants will already have the basic competencies tested with

the CBNT exam.

Certified Broadcast Networking Engineer will delve into deeper networking and IT issues such as firewalls, DNS, DHCP, VLANs, NAT, routing tables, SAN, NAS, cloud computing and more which are permeating the broadcast technical environment and which broadcast engineers are being required to understand more and more.

It was decided not to offer this as a "specialist" certification level so that it could be a stand-alone certification level as the current CBNT is, if the applicant so desired. Also, since we are hoping to appeal to an emerging segment of engineers within the broadcast community, it would allow an IT professional working within broadcasting to achieve a certification level sponsored by the SBE and be engaged into becoming more deeply involved in the broadcast engineering aspects.

A test rollout of this new certification level is expected to be conducted late this year with a full introduction ready for the early part of 2011.

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Christopher Des Jardins, Napa, CA – Chapter 40  
Stephen Holt, Moreno Valley, CA – Chapter 131  
Gary Knittel, Las Cruces, NM  
Dale Pendleton, Raleigh, NC – Chapter 93  
Bart Schrum, Perris, CA – Chapter 131

### CERTIFIED RADIO OPERATOR® (CRO™)

#### CERTIFIED RADIO OPERATOR® (CRO™)

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Dana Corkill, Henderson, NV  
Jesse Cowan, New Bern, NC  
T. Howard Ford, Brunswick, GA  
Karl Parker, Portland, OR  
Matthew Piurkowski, Las Vegas, NV  
Will Simonds, Reno, NV

### 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®)

Roger Bishop, Indianapolis, IN – Chapter 25  
John Chestnut, Grain Valley, MO – Chapter 59  
Joseph Geerling, Florissant, MO – Chapter 55  
David Otey, Billings, MT – Chapter 48  
Derk Van Rijsewijk, Ballston Spa, NY – Chapter 58

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

Gordon Carter, La Grange, IL – Chapter 26

#### CERTIFIED SENIOR RADIO ENGINEER™ (CSRE®)

Michael Kerley, River Ranch, FL – Chapter 88

#### CERTIFIED SENIOR TELEVISION ENGINEER™ (CSTE®)

Jeffrey Tucker, Terre Haute, IN – Chapter 25

#### CERTIFIED SENIOR RADIO ENGINEER™ (CSRE®) AM DIRECTIONAL SPECIALIST™ (AMD™)

Robert Bowe, Jr., New York, NY – Chapter 15  
CERTIFIED BROADCAST RADIO/TELEVISION ENGINEER™ (CBRTE™)  
Yidong Chen, Cortland, OH – Chapter 122

#### CERTIFIED BROADCAST RADIO ENGINEER™ (CBRE®)

Richard Barnes, Pasadena, MD – Chapter 46  
Pablo Garcia, Burbank, CA – Chapter 47  
Stephen Poole, Warrior, AL – Chapter 68

#### CERTIFIED BROADCAST TELEVISION ENGINEER™ (CBTE®)

John Cleary, Rome, GA – Chapter 5  
James Corbin, Valencia, CA – Chapter 47  
Benjamin Cummins, Iroquois, ON Canada  
Randall Hinton, Fort Smith, AR – Chapter 56  
William Hooper, Glendale, CA – Chapter 29  
Jeffrey Koscho, Clinton, MD – Chapter 37  
James Kresge, Jr., APO, AE – Chapter 120  
John Langer, Topeka, KS – Chapter 3  
Michael Mattson, Independence, CO – Chapter 124  
B. Allan Pullman, St. Cloud, FL – Chapter 42  
Matt Saplin, Niskayuna, NY – Chapter 42  
Trenton Sheppard, Vashon, WA – Chapter 16

#### CERTIFIED AUDIO ENGINEER® (CEA®)

Robert Fields, San Antonio, TX – Chapter 69

#### CERTIFIED VIDEO ENGINEER® (CEV®)

Nicholas Coelho, Los Angeles, CA – Chapter 47

#### CERTIFIED BROADCAST NETWORKING TECHNOLOGIST® (CBNT®)

Gordon Carter, La Grange, IL – Chapter 26  
Carrie Coleman, Riverton, WY – Chapter 129  
James Corbin, Valencia, CA – Chapter 47  
Joseph Geerling, Florissant, MO – Chapter 55  
Randall Miller, Jr., Harrisburg, PA – Chapter 41  
John McMellen, Battlefield, MO – Chapter 55

#### CERTIFIED BROADCAST TECHNOLOGIST® (CBT®)

Ricardo Alfaro-Zayas, San Juan, Puerto Rico – Chapter 142  
Luz Anderson, Wamego, KS – Chapter 59  
Ralph Beaver, Tampa, FL – Chapter 39  
Wesley Boyd, Girard, OH – Chapter 122  
Mark Chiolis, Brubank, CA – Chapter 47  
Mark Dubosky, Banfor, ME  
William Hamm, Lookout Mountain, TN – Chapter 5  
Robert Henry, Albuquerque, NM – Chapter 34  
David Jackson, Conroe, TX – Chapter 105  
Michael Ketchersid, Yukon, OK – Chapter 85  
Robert McCormick, Chicopee, MA – Chapter 11  
James Paluzzi, Tempe, AZ – Chapter 9  
Michael Ridely, Welland, Ontario, Canada  
Eric Smith, Arvada, CO – Chapter 48

#### CERTIFIED TELEVISION OPERATOR® (CTO®)

Evelyn Chmura, Reno, NV – Chapter 139

## 2010-11 SBE Certification Exam Schedule

Dates	Location	Application Deadline
November 5-15, 2010	Local Chapters	CLOSED
February 4-14, 2011	Local Chapters	December 31, 2010
April 12, 2011	NAB Convention	March 25, 2011
June 3-13, 2011	Local Chapters	April 15, 2011
August 5-15, 2011	Local Chapters	June 3, 2011

# SBE Education Program Updates

## 2010 SBE Leadership Development Course

The 2010 Leadership Development Course was held in Atlanta, Ga., August 3-5 with a record number of 25 students representing nine companies. The course was very well received by all, as demonstrated by the verbal and written feedback. Everyone who took the course said they would recommend this program. One student said the course was "a class every manager should attend!" SBE is particularly grateful to Rodney Vandever, the course instructor, for making the course fun, challenging and valuable to attendees.

The mostly highly regarded session in this three day intensive course was the session on the C.A.P.S. Model, which identifies four quadrants, or categories of people: Controllers, Analyzers, Promoters and Supporters. Each category defines typical characteristics that people exhibit on the job and at home. The students took time to identify which type they were, and then embarked on several exercises to better understand how to best respond to each type of person in their daily work. This session involved much "discussion of the importance of all styles and the need for flexibility and balance," as one student put it. Another engineer noted, "It helped me figure out my individual strengths and weaknesses.

Plans are under way for next year's course. If you think there is interest in bringing the 2011 SBE Leadership Development Course to your area, contact Kimberly Kissel at the National Office. SBE is again considering early August to offer the course.

## It's time to check out SBE University

By now you have probably heard of one of SBE's education programs called SBE University. SBE University is made up of online self-study courses where you pick the date, time and location to learn. SBE is doing the hard work by identifying topics and experts to develop the courses. Now it's up to you to sign up for one of seven courses currently available, including Computer Networking for Broadcast Engineers, AM Antenna Systems, AM Antenna Computer Modeling, Voice Telco Networks & Studio Interface Systems, 8-VSB, FM Transmission Systems and Matching Networks & Phasing. In addition, a new course on audio processing is about to be released. It's never been a better time to check out the continuing education you can complete when it's convenient for you! SBE University is just one more way for the broadcast engineering professional to get the education needed to succeed. For more information on SBE University, visit our website at <http://www.sbe.org/SBEUniversity.php>.

## Webinars by SBE

### FCC Self Inspection Checklist - November 18

The FCC publishes a self-inspection checklist for TV and radio stations to help them ascertain their level of compliance with the FCC rules and regulations. An affirmative response to all 100+ questions in the list implies substantial compliance. This webinar covers the purpose, scope and limitations of the self inspection

checklist. It also addresses the technical and non-technical aspects, as well as the public inspection file, antenna structures, the Emergency Alert System and more. The cost for SBE Members to attend this webinar is \$39 and \$55 for non-members.

**Why should you attend?** Participants will benefit by having the ability to verify substantial compliance with the FCC Rules and Regulations for the Radio and TV stations they serve, making them better equipped to serve the facilities. Dennis Baldrige, CPBE, AMD, 8-VSB, DRB, CBNT, is instructing this course. Dennis has been working in the field of broadcasting for over 30 years and is a Senior Member of the SBE. He has been associated with the Alternate Inspection Program of the Wisconsin Broadcasters Association for the past four years.



2010 Leadership Development Course students with instructor Rodney Vandever.

## MARK YOUR CALENDAR

### October 5-6 - SBE Chapter 22 Expo

**Where:** Turning Stone Resort & Casino, Verona, N.Y.

**Registration:**

[www.sbe22expo.org/html/registration%20portal.htm](http://www.sbe22expo.org/html/registration%20portal.htm)

**More Information:** [www.sbe22expo.org/](http://www.sbe22expo.org/)

### October 16 - San Diego, California Ennes Workshop

Hosted by SBE Chapter 36

**Where:** Doubletree Hotel San Diego Downtown, 1646 Front Street, San Diego, California 92101

**Cost:** SBE Members-\$35/Non-Members-\$45/Students-\$25

**More Information:**

[www.sbe.org/ennes\\_workshops.php#SanDiego](http://www.sbe.org/ennes_workshops.php#SanDiego)

### October 20-22 - 60th Annual IEEE Broadcast Symposium

**Where:** Westin Hotel in Alexandria, VA

**Registration:** [www.ieee.org/organizations/society/bt/](http://www.ieee.org/organizations/society/bt/)

### October 26-28 - SBE National Meeting

Hosted by Chapter 24, Madison, Wis., Held in conjunction with the Wisconsin Broadcasters Clinic.

**Where:** Madison Marriott West Hotel, Middleton, Wis.

**More Information:**

[www.sbe.org/pub\\_sc.php#NationalMeetingSite](http://www.sbe.org/pub_sc.php#NationalMeetingSite)

### 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](http://www.sbe.org/ennes_workshops.php#Boston)

### November 18 - FCC Self-Inspection Checklist Webinar

More information coming soon

# Ennes Trust scholarships awarded for 2010

The Ennes Educational Foundation Trust has awarded three scholarships for 2010. Winners were chosen from applications received by July 1, 2010 from the previous 12 months.

The Harold E. Ennes and Robert D. Greenberg scholarships are awarded to individuals interested in continuing or beginning their education in broadcast engineering and technology. The Youth

Scholarship is specifically for a graduating high school senior interested in broadcast engineering as a career. Each scholarship awarded this year was for \$1,500.

## Harold E. Ennes Scholarship

**Johnny Finley**, from Tacoma, Wash., is a sophomore at Bates Technical College studying Broadcast/Video Production. Finley is currently participating in an internship as a cameraman and audio technician for the Tacoma Rainer's minor league baseball team. He is also a volunteer camera operator and sound engineer for the youth department at the Champions Centre church in Tacoma. Finley will be using this scholarship towards his tuition and textbook expenses.

## Robert Greenberg Scholarship

**Jeffrey Edward Miller, CTO** from Parma Heights, Ohio, is currently enrolled at Cuyahoga Community College (Tri-C) studying electrical engineering. He plans to use this scholarship for classes and books for the fall of 2010. While in high school, Miller was the audio engineer for the Parma Area Community Television of Parma High School. He also attended radio and television vocational

classes at Normand High School.

## Youth Scholarship



**Michael Malec**, from Oregonia, Ohio, is a graduate of Bishop Fenwick High School where he participated in the building, design and operations of the school's radio

station, WFXR. In the fall, Malec will be using this scholarship for his tuition at the University of Cincinnati where he will major in electrical engineering.

The Ennes Educational Foundation Trust is a non-profit, charitable organization dedicated to the education of current and future broadcast engineers. It provides scholarships, offers workshops and supports other projects that meet the Trust objectives of training broadcast engineers, as well as preparing a new generation for the field. The Ennes Scholarship Committee congratulates the above recipients and wishes them well in future endeavours.

**Answer:**  
**(A) E - All of the above except D.**

question on page 3

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The Ennes Educational Foundation Trust offers scholarships, 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.

**The Ennes Educational Foundation Trust would like to thank the following supporters for their scholarship fund contributions:**

**Harold Ennes Scholarship Fund**  
Chapter 24 - Madison, Wis.

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# Simple and efficient structure

by **John L. Poray, CAE**  
SBE Executive Director

The SBE is structured in a somewhat unique way, as professional associations go. There is no rigid hierarchy of local, state and national organizations, each with their own dues structures and duplicative administrative functions. During my career in the non-profit association field, I've worked for several organizations that had such organizational structures. Though it was a serviceable enough system for them, it seemed to come with a more than necessary administrative burden at each level.

I think one of the strengths of the SBE has been our simple structure. When one joins the SBE, he or she joins the national organization and is placed in the local chapter of his or her choice. Dues are only paid once, at the national level. Though they are free to do so, the vast majority of SBE chapters do not assess any dues on local members and instead, generate the funds they need to run their chapter from other sources. For most chapters, those funding sources include sponsorships and newsletter or website advertising from local and regional vendor representatives and sometimes area broadcast stations, providing the chapter with the added benefit of the involvement of these companies. The largest source of funding for many chapters is the annual rebate of dues from the national SBE organization.

This structure relieves the local chapter from having to collect local dues, keeping track of payments, follow-up, etc., all of which can be time consuming, especially so for volunteers who have full-time jobs. Instead, the national organization takes a portion of the dues collected each year and sends it to qualifying chapters which use the money to help run their operations.

Qualifying for a rebate is not dif-

icult. A chapter must meet at least five times during the calendar year and send the National Office a simple report of what the program was about and who attended. This level of activity has been considered the minimum necessary for a chapter to be providing a quality program. In 2009, 72 chapters qualified and received rebates ranging from about \$60 to almost \$2,000; a total of more than \$37,000.

Chapter Rebates are based on the number of members in a chapter that pay the full \$63 membership dues amount. For each member the chapter has, 15% of the dues they pay goes back to the chapter. In addition, \$5 is added to the chapter's rebate for each new member who joined the SBE and is affiliated with the chapter during the calendar year. The larger the chapter, the larger the rebate.

Chapter Rebate checks are mailed annually to each qualifying chapter on June 1st based on their record the previous calendar year. To be sure your chapter qualifies, be sure to have at least five meetings before year-end and send the corresponding meeting reports to the national office.

The SBE's simplified operation also creates some efficiency in other ways, helping to minimize what can be a cumbersome governance structure used in other organizations. All of SBE's elected national board of directors are elected on an "at-large" basis. In other words, they represent each member of the SBE, not just those from any one city, state or region. This not only simplifies

the election process, but allows the board to look at issues from the stand point

of what's best for the organization as a whole and not to the favor of any one region. A lot less time is spent by volunteers and staff on the mechanics, and yes, the politics of elections, and more on the issues important to the membership.

There is something each member can do to help their chapter and the national SBE. At almost every chapter, there are local broadcast engineers who regularly attend the meetings but who have not joined the SBE. Encourage them to join! Their dues will help your chapter as well as the national SBE continue to provide the programs and services needed that help all broadcast engineers and advance the broadcast engineering field.



jporay@sbe.org



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## **NATIONAL** from page 1

The schedule for the National Meeting begins on Tuesday, October 26 (All times CDT) with a meeting of the SBE Certification Committee from 2:00 pm to 4:00 pm. The regular fall meeting of the SBE national Board of Directors will be held beginning at 6:00 pm and will run until about 10:00 pm.

National Meeting activities continue on Wednesday, October 27 with the annual SBE Fellows Breakfast, sponsored by Kathrein Inc. Scala Division, from 8:00 am to 9:00 am. All SBE Fellows are invited to attend and will be guests of the SBE. SBE National officers and the Chapter 24 chairman and convention chairman are also invited.

A Frequency Coordination Committee Meeting will be held Wednesday at 9:00 am. Local coordinators are invited and welcomed to attend.

The SBE Annual Membership Meeting, sponsored by Nautel, will be held from 4:00 pm to 5:00 pm. The meeting will include recognition of newly elected members of the Board and officers, the introduction of the SBE Membership Drive Grand Prize winner, John Ramsey of Hartford, Conn. and several brief reports and updates on national SBE activities.

With the assistance of Chapter 24, the SBE Annual Membership Meeting will be streamed live via the Internet. To view the meeting live go to [www.sbe.org](http://www.sbe.org) and click on the SBE National Membership Meeting live webstreaming icon.

At 5:00 pm the SBE National Reception, sponsored by The Durst Organization, will be

held in the hotel's beautiful atrium and will include cocktails, hors d'oeuvres and live music featuring the "SBE Band," Sticks & Bones.

The SBE National Awards Dinner, sponsored by Vislink, will follow the reception at 6:00 pm and last until 8:45 pm. The National Awards Dinner will feature guest speaker, Dr. Barry Orton, Professor of Telecommunications at the University of Wisconsin - Madison who specializes in telecommunications planning and public opinion research in addition to broadband policy and regulation. Dr. Orton will speak on the future of the broadcast industry in relation to the pending federal broadband plan. The dinner program will also include the presentation of the SBE Broadcast Engineer of the Year Award to John Luff and the SBE Educator of the Year Award to Charles "Buc" Fitch, P.E., CPBE, AMD. Two members will be recognized with the highest membership rank awarded by the SBE, the SBE Fellow: Sterling Davis, Vice President of Engineering, Cox Media Group in Atlanta, Ga. and Robert Locke, CPBE, CBNT, Chief Engineer for KPTS-TV in Maize, Kan. Chapters and individual members will also be recognized during the dinner for best technical article, best chapter newsletter, website, regional conference, most certified chapter and chapters with the greatest percentage growth and highest average member attendance at chapter meetings.

Tickets for the SBE National Awards Dinner are \$15 dollars each and are available to order on-line at the SBE website, [www.sbe.org/cal\\_conv.php](http://www.sbe.org/cal_conv.php) or by calling the SBE National Office, (317) 846-9000 between 8:30 am and 4:30 pm EDT, Monday through Friday.

A limited block of rooms has been set aside at the Marriott Madison West Hotel (313 John Q Hammons Drive in Middleton, Wis.) for guests and exhibitors to use should you desire overnight accommodations. A special guest room rate of \$ 109 single, \$129 double has been arranged for attendees of the National Meeting and Clinic. To make reservations, call (888) 745-2032 and ask for the special WBA rate. The cutoff date for reservations is October 11. After that, rooms are available subject to a space and rate-available basis.

We hope to see many of you in Madison for this year's SBE National Meeting and the Wisconsin Broadcasters Clinic.

### **Thank you to our SBE National Meeting Sponsors:**

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## LET IT BE from page 5

sharing. The 6425-6525 MHz and 13.2-13.25 GHz bands (as well as the 17.7-18.3 GHz and 19.3-19.7 GHz bands) are already shared among FS, BAS and CARS. FCC says that this sharing has been facilitated by frequency coordination procedures which "have helped to minimize interference concerns among the services." With this premise, FCC now proposes to permit sharing among FS, BAS and CARS licenses at 6875 - 7125 MHz and at 12,700 - 13,200 MHz. FCC asks for comment on this sharing plan, and how, for example, 7 GHz ENG and temporary fixed links would be affected by it. FCC proposes to apply its "existing frequency coordination processes." For those who believe that the existing coordination processes are inadequate, FCC asks for alternatives or modifications that will solve the problem identified.

While there is plenty to be concerned about in this rulemaking, there are a few bones tossed to BAS licensees, such as the proposal to eliminate content regulations for BAS transmissions, since "bits is bits" and categorizing digital

transmissions by content is no longer a meaningful endeavor. The Notice also raises again the subject of Category A (efficient) versus Category B (less stringent performance specification) antennas. SBE has been beating this drum for years without result, but now that FS facilities are to find their way into BAS allocations, all of a sudden efficiency is called for. Better late than never.

SBE's Frequency Coordination Committee and its Government Relations Committee are looking into this docket. Let them have your input via SBE Headquarters. The comment date is October 25, 2010, and reply comments are due November 22, 2010, so there is plenty of time to be heard. There is plenty to fear here; the impact on mobile and temporary fixed links in these bands in covering production, news and sporting events, is potentially very high. Mixing mobile uses and new fixed, point to point facilities is without doubt the more problematic of the issues raised in this NPRM. Talk to us about this. We want to hear from you.

## ELECTION RESULTS from page 1

Hand, CPBE, 8-VSB, AMD, Chief Engineer, WSOC-TV, WAXN-TV in Charlotte, N.C. Andrea Cummis, CBT, CTO, Technology and Operations Consultant in Roseland, N.J., was elected to a second term as treasurer.

There were eleven candidates running for six seats on the national board. The six with the most votes were elected and will also begin their two-year terms on October 27. They include Timothy Anderson, CSRE, DRB, CBNT, Manager, Radio Market and Product Development for Harris Corporation, Broadcast Communications Division in Mason, Ohio; Ralph Beaver, CBT, President and CEO, Media Alert, LLC

### **Elected to two-year terms on the Board:**

in Tampa, Fla.; Gary Kline, CBT, CBNT, Vice President of Engineering and IT at Cumulus Media Inc. in Atlanta, Ga.; Gary Liebisch, CPBE, Eastern Regional Sales Manager for Nautel, in Milford, Ohio; Scott Mason, CPBE, Regional Director of Engineering for CBS Radio in Los Angeles, Calif. and Jeff Smith, CSRE, CBNT, Supervisor of Studio Systems for Clear Channel Radio in New York City.

Upon hearing the results of the election, President Lopez stated, "I am looking forward to my second term serving as the Society's President and to working with the newly elected directors of the board."

The national board of directors is responsible for the development of Society policy and determines the programs and services the organization provides to its more than 5,200 members. Those elected will join six other directors who have another year remaining in their two-year terms as well as immediate past president, Barry Thomas, CPBE, CBNT.

The SBE National Meeting will be held in conjunction with the Wisconsin Broadcasters Clinic, hosted by SBE Chapter 24 of Madison, Wis. and the Wisconsin Broadcasters Association. The event will take place at the Madison Marriott West Hotel in Middleton, Wis.



**Tim Anderson, CSRE, DRB, CBNT**  
Manager, Radio Market & Product Development for Harris Corporation  
Covington, KY



**Ralph Beaver, CBT**  
President, CEO  
Media Alert, LLC  
Tampa, FL



**Gary Kline, CBT, CBNT**  
Vice President of Engineering & IT  
Cumulus Media  
Atlanta, GA



**Gary Liebisch, CPBE**  
Regional Sales  
Manager - Eastern,  
U.S.; Nautel, Inc.  
Milford, OH



**Scott Mason, CPBE**  
CBS Radio  
Los Angeles, CA



**Jeff Smith, CSRE, CBNT**  
Supervisor of Studio Systems  
Clear Channel Radio  
New York, NY

# Chapter 25 Spotlight Indianapolis, IN

<http://sbe25indy.blogspot.com/2010/07/sbe-chapter-25-notes.html>

[www.facebook.com/pages/SBE-Chapter-25-Indy/107921259231249](http://www.facebook.com/pages/SBE-Chapter-25-Indy/107921259231249)

**Chapter Chairman: Mike Rabey**



Members of Chapter 25 in Indianapolis served as the 2010 SBE Board of Tellers (L-R): Douglas Salewsky, Charlie Sears, Tom Weber, Doug Garlinger, Jim Borgioli, David Fort, Michael Goode, Dale Smiley, Don G. Hemenover, Chapter Chair Mike Rabey, John Bisset, Roger Bishop. Phil Alexander also served on the Board of Tellers but is not pictured.

SBE Chapter 25 in Indianapolis, Indiana, USA was organized on August 21, 1969 and has a long and proud history. SBE's fifth president and Indianapolis resident, Bob Flanders, who was Director of Engineering at WRTV-TV, moved the SBE headquarters to Indianapolis in 1972 and "Indy" has been the home of the SBE National Office ever since.

Members of Chapter 25 have assisted the national staff over the years in many ways including office moves, telephone and computer system installations, and in the earlier days, procuring needed office equipment. Each year, members of the chapter are also designated by the SBE Executive Committee to serve as the official "Board of Tellers", who tabulate the hundreds of ballots submitted for the SBE Board of Directors' election. A number of local members have served on the national Board of Directors and have been helpful resources to national staff.

In 1980, Chapter 25 established the Harold Ennes Foundation Trust to memorialize one of their members who was known nationally as a writer and educator in the broadcast engineering field. A year later, the chapter gave the Trust to the national SBE to provide more visibility and increase its fund raising capability. Now, 30 years later, dozens of scholarships have been presented totaling more than \$50,000 and, in conjunction with the SBE, Ennes Workshop programs are presented each year around the country to hundreds of local SBE members.

Our thanks to SBE Chapter 25 of Indianapolis, this issue's Spotlight Chapter.

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



**Doug Stallard, CPBE, CBNT** Chief Engineer, WVLT-TV, Knoxville, Tenn.

Joined SBE in 1991, Chapter 113 - Knoxville, Tenn.

**Best known for:** making people laugh and encouraging them to embrace the changes facing the broadcast industry.

**When I'm not working I ...** Spend quality time with my wife of 37 years, Mary, pictured here.

**You may not know ...** While working in radio our staff won a Peabody award for around the clock emergency coverage and emergency assistance during a devastating flood in Southeast Kentucky.

**Favorite Gadget:** One of my most prized possessions is a 1949 copy of the NAB Engineering Handbook 4th Edition. I have searched diligently for editions 1 through 3 and cannot find them anywhere.

**Sphere of Influence:** I admire John Battison. I met him several times during the early WOSU conferences and subsequent NAB meetings etc. What a smart man. I am basically self taught and admire Carl Smith, Harold Ennes and all of the authors that wrote and still write material that we can read daily and educate ourselves in this ever changing industry.



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**Advanced Broadcast Solutions • 2008**

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Peter A. Starke (781) 461-6780  
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Battery Solutions for ENG

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**Beveridge Consulting, Inc. • 2006**

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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 Bealar - 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**

Tim Noonan (319) 277-4767 - EAST  
Jim Kubit (805) 581-4566 - WEST  
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  
One Stop Broadcast Store

**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  
Remote Audio Broadcast Equipment

**Comsearch • 2004**

Tim Hardy (703) 726-5651  
Frequency Coordination Services

**Continental Electronics Corporation • 1976**

Michael Troje (800) 733-5011  
AM & FM IBOC Transmitters

**Crouse-Kimzey Co. • 2008**

Lee Edwards (972) 660-6100  
Broadcast Equipment Sales

**Dataworld • 1998**

Ed Czarecki (800) 368-5754  
Coverage Maps and Services

**Dejero Labs • 2009**

Bogdan Frusina, CTO (519) 886-8070  
Complete Cellular ENG Platform

**Dialight Corporation • 2006**

US Headquarters (732) 919-3119  
Obstruction Lighting, L.E.D. Based

**Dielectric Communications • 1995**

John George (207) 655-4555  
or Matt Leland (803) 951-7443  
TV & FM Broadcast Products

**Digital Alert Systems, LLC • 2005**

Bill Robertson (585) 765-1155  
Emergency Alert Systems

**DigiTenna, LLC • 2009**

Brad Eckwielen (920) 564-6224  
Television Reception Antenna Manufacturing

**DSC Laboratories • 2002**

Michael Wiegand (905) 673-3211  
Test Charts & Illuminators

**DSI RF Systems, Inc. • 2010**

Judy Mueller (732) 563-1144  
RF Service/Installations/Products

**DT5 • 2009**

Mark Seigle (425) 814-3200  
Surround Sound Technologies

**du Treil, Lundin & Rackley, Inc. • 1985**

Jeff Reynolds (941) 329-6000  
Consulting Engineers

**e2v • 1997**

Vijay Patel (914) 592-6050  
Klystrons, MSDC IOTs, IOTs, Satcom Amps, TWTs

**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

**Empower RF Systems • 2008**

Jeff Eade (310) 412-8100  
DTV Transmitter & Translator

**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**

Doug McKay (727) 573-0400, ext. 120  
Broadcast/Command/HLS 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**

Joe Mack (TV) (513) 459-3406  
Chris Pannell (Radio) (406) 556-0280  
Bob Duncan (Software) (719) 439-0130  
Broadcast Equipment & Services

**HD World • 2006**

Michael Driscoll (203) 371-6322  
HD World Conference & Exposition

**Image Video • 1997**

Zach Wilkie (416) 750-8872 ext. 228  
Dave Russel (416) 750-8872 ext. 228  
Under Monitor Tally Display Systems, Monitor  
Walls, Signal Alarm Systems

**IneoQuest • 2009**

Tom Tucker (508) 339-2497  
Video Quality Assurance Solutions

**Jay S. Gerber, CBT • 1999**

(205) 491-6904 Manager,  
NFL Frequency Organization Group

**JDSU • 2007**

(919)338-5061

**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

**Kintronic 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 Blik (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, Communications

**LYNX Technik • 2007**

Steve Russel (661) 251-8600  
Broadcast Terminal Equip

**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**

Daniel Loeffler (360) 618-1474  
Audio CODECS: Mobile/ 1/21 RUrack

**Micron Communications, Inc. • 2005**

Jerry Armes (972) 422-7200  
Coordination Services / Frequency Planning

**Microwave Radio Communications • 1991**

Nadine Frechette (978) 671-5700  
Video Microwave Systems

**Middle Atlantic Products • 2005**

David Amoscato (973) 839-1011 x1192  
Enclosures, Power, Accessories, Furniture

**MoreCom, Inc. • 2009**

Kyle Moorehead (763) 533-5535  
Networking & AV Construction

**Moseley Associates, Inc. • 1977**

Dave Chancey (805) 968-9621  
RF & T1 STLs

**National Association of Broadcasters • 1981**

(202) 429-5340  
Industry Trade Association

**National Football League • 1999**

Jay Gerber  
Game Day Coordination Operations

**Nautek, Inc. • 2002**

Gary Manteuffel (877) 662-8835  
Radio Broadcast Transmitter Manufacturer

**NSOEM • 2010**

Robert Sorbet (281) 500-8940  
Power Quality

**NuComm/RFCentral • 2009**

Frank Giannuzzi (908) 852-3700  
Digital and Analog Video Microwave Systems

**Panasonic Broadcast & Digital Systems  
Company • 1985**

Tom Moore (201) 392-6176  
Professional Broadcast Equipment

**Pasternack Enterprises • 2001**

Christine Hammond (949) 261-1920  
Coax & Fiber Products

**Polyphaser/Transecter Systems • 2005**

Carol Rassier (208) 762-6121  
Power Quality Products & Services

**Preferred Tank & Tower, Inc • 2010**

Vie Majors (270) 826-7950 ext 227  
Communication Tower Maintenance/repair

**Prime Image, Inc. • 1997**

Rodney Hampton (408) 867-6519  
Digital Audio/Video Equipment

**Propagation Systems Inc. - PSI • 2010**

Doug Ross (814) 472-5540  
Quality Broadcast Antenna Systems

**Pulsecom • 2003**

Dave Corp (703) 471-2908  
AM, FM and HD STLs, Copper & Optical

**Quintech Electronics and Communications  
Inc. • 2002**

Richard E. Bush (724) 349-1412  
RF Signal Management

**Radian Communication Services Inc. • 1986**

John McKay (866) 4-RADIAN  
Towers, Antennas, TV Transmitter Installation

**RCS • 2003**

Diana Stokely (308) 284-3007  
Audio and Video Content Management

**RDL • 2004**

Chuck Smith (928) 778-9678, ext. 142  
Audio, Video, Control & Test Equipment Manufacturer

**RF Specialties Corp • 2008**

www.rfspecialties.com  
Transmitters, Antennas and More

**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 Integration

**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**

Vinnie Marci (888) 782-4391  
Professional Audio Solutions

**SCMS, Inc. • 2000**

Bob Cauthen (800) 438-6040  
Broadcast Equipment- New/Used

**Screen Service America • 2010**

Graziano Casale (212) 695-8341  
Broadcast Transmitter & ATSC Mobile

**Seacom Erectors, Inc. • 1997**

John Breckenridge (360) 793-6564  
Tower/Antenna Erections

**Sencore, Inc. • 2005**

Garrett Carter (800) 736-2673  
MPEG Operation and Test Equipment

**Shively Labs • 1996**

David Allen 888-SHIVELY  
FM Antennas & Combiners

**Sigmat • 2008**

Ed Portko (610) 783-6666  
Broadcast Equipment Support Sales

**Snell Inc. • 1995**

John Shike (818) 556-2616  
Video Equipment Manufacturer

**Staco Energy Products Co. • 2010**

Paul Heiligenberg (937) 253-1191 ext 128  
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) 507-2052  
Power Protection Equipment

**Sutro Tower, Inc. • 1989**

Eric Dausman (415) 681-8850  
Broadcast Tower Leasing

**TC Electronic • 2008**

Stacey Moran (818) 665-4906  
DTV Audio Level Processing

**Technostrobe • 2009**

Francis Lacombe (877) 578-7623  
FAA lights - High Intensity

**Tektronix, Inc. • 1977**

Richard Duvall (503) 627-3203  
TV Test, Measurement Equipment

**Telos Systems/Omnia/Axia • 2003**

Denny Sanders (216) 241-7225  
Telos Systems - Talk-Show Systems

**Terrestrial RF Licensing Company • 2003**

Steven Slocum (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 & AV Products

**Troll Systems, Inc. • 2006**

Brian Goldberg (661) 702-8900  
Broadcast Control Systems

**TV Magic • 2008**

Gary Stigall (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

**V-Soft Communications • 2002**

Lisa Erickson (319) 266-8402  
Broadcast Engineering Software & Consulting

# SBE would like to welcome its newest members:

## New Members

Francisco Abril, Jr. - Tucson, AZ  
Chester L. Allamon - Greenville, NC  
Michael J. Baker - St. Michael, MN  
William S. Brown - Grass Lake, MI  
William W. Bryan - Livonia, MI  
Roger Crooks - Portland, OR  
Christopher S. Des Jardins - Napa, CA  
Jeffrey J. Dinsmore - Indianapolis, IN  
Chris C. Donhou - Henderson, NV  
Komivi A. Edah - Brandon, FL  
J. Stephen Faul - Delphos, OH  
Joseph E. Fiorini - Punta Gorda, FL  
Chuck A. Freeman - Shawnee, KS  
A.J. Fridgen - Shelly, MN  
Peter Gogas - College Station, TX  
Joseph Grimaldi - New York, NY  
Stephen P. Halatyn - Texarkana, TX  
James T. Halpin - Phoenix, AZ  
Dexter L. Johnson - Shreveport, LA  
David Keleshian - Van Nuys, CA  
Maria Laing-Smith - Van Nuys, CA  
Anthony Landi - Bethel, CT  
Albert D. Miller - Endicott, NY  
Leeland E. Mitchell - Oswego, NY  
Rob Mueller - Albuquerque, NM  
Joseph P. Oliveira, III - Los Angeles, CA  
Dale A. Pendleton - Raleigh, NC  
Wendy Reed - Nashville, TN  
Heidi F. Roach - Luzerne, PA  
Joe C. Roberts - Alta Loma, CA  
Greg Rogers - Las Vegas, NV  
Joseph H. Schmelter - Lebanon, TN  
Bart L. Schrum - Perris, CA  
Robert O. Sims - Fairborn, OH  
Tom Spaight - Weaverville, NC  
Timothy E. Stumpp - Scottsdale, AZ  
Gordon R. Thomas - Nanticoke, PA  
Patrick Tuttle - New Castle, PA  
Tim P. Valley - Northfield, MN

Nate Wheeler - Springfield, OR  
David Whitehead - Dacula, GA  
Wai Ho Wong - Kwun Tong, Kowloon, Hong Kong  
Victor Zarrilli - Rocky Hill, CT

## Reinstated Members

Elaine Poppell - Jacksonville, FL  
Mike L. Moravec - Benton, AR  
Kelly T. Williams - Washington, DC  
Stephen R. Holt - Moreno Valley, CA  
Edwin A. Brediger - Phoenix, AZ  
Mathew C. Brandes - Angier, NC  
Jack D. Dillon - Ruskin, FL  
Steven P. Barousse - Washington, DC  
Mark T. Heitman - Spokane, WA  
Christopher A. Fraley - Piscataway, NJ  
Christopher R. Aufer - FPO, AP  
Wesley W. Bishop - Cumming, GA  
Arthur C. Botterell - Fairfield, CA  
Travis C. Glazener - Las Vegas, NV  
Daniel B. Paixao - Nampa, ID  
Matthew L. Shea - Silver Spring, MD

## Reinstated Senior Members

C. Wayne Schuler - Vancouver, WA

## New Student Members

Travis P. Arrington - Chancellor, AL  
Fuad Cuzmar - Albuquerque, NM  
Anthony V. Green - Bronx, NY  
Christopher D. Peters - Kansas City, MO

## New Associate Members

Brian J. Fitzpatrick - Ashby, MA  
Drew Smith - Baraboo, WI

## New Youth Members

Mark Baldrige - Hillsboro, WI

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tombunk@verticalts.com  
Owen Garland – Gen. Superintendent  
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# Does your SDI to HDMI Converter do this?



- Support SDI video formats up to 3Gbit (1080p)?
- Display Timecode and indicate Metadata presence?
- Provide fiber options to receive and transmit SDI streams?
- Provide access to all 16 channels of embedded audio?
- Provide an AES output which can also pass through DolbyE?
- Provide balanced or line level stereo analog audio outputs?
- Provide video and audio presence indication?

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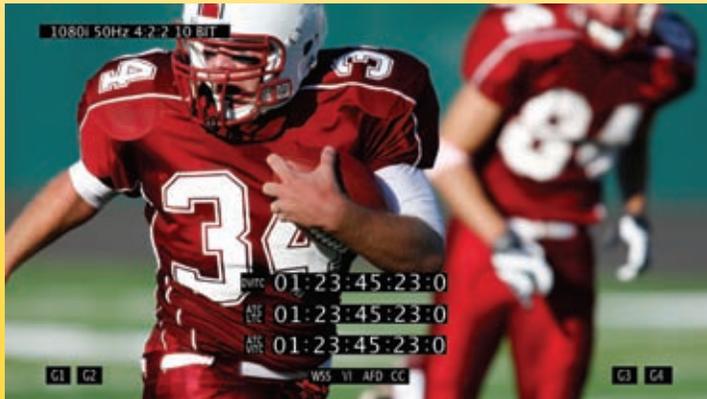
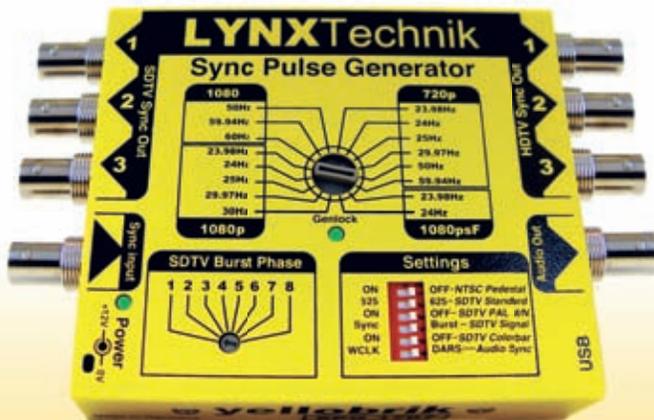


Image showing timecode and metadata overlay mode. G1-G4 indicate AES audio presence, WSS,VI, AFD and CC are present when highlighted.

Introducing the **CDH 1811 yellobrik** from LYNX Technik. Simply the most versatile **SDI to HDMI converter** "brick" available today. From viewing an SDI signal on an HDMI display, to an integrated SDI fiber transmission system with HDMI confidence monitoring on both ends.

**- the possibilities are endless -**



## Sync problems?

- ✓ Need an HDTV, SDTV and audio reference sync source?
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With a myriad of new HDTV formats and legacy NTSC and PAL formats to deal with, the **SPG 1707 yellobrik Sync Generator** solves a multitude of synchronization problems. Use as a stable standalone reference sync source, or slave to any reference signal with fully automatic format detection and cross-lock....

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## Simple to use, easy to operate..

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