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# SBE... Raising the Bar

FEBRUARY 2011 Volume 24, Number 1

SBE.



hile trying to decide what to write about each month, I often bounce ideas off the national office staff, since writing is not one of my best points

SBE President

by Vinny Lopez, CEV<sup>®</sup>, CBNT<sup>®</sup>

(hey, I'm a broadcast engineer ya know). After some debate, I decided to discuss our national theme for the year 2011, and what SBE has done to provide the tools for our members to reach their goals.

*Raising the Bar* will be the yearly theme for SBE in 2011. We were looking for something that

would spotlight our educational missions and programs and their benefits for our 5500 plus members.

Time for a history lesson. In 2008 at the winter Executive Committee (EC) Meeting in Atlanta, the EC voted to expand the educational offerings of the Society. Part of that proposal was the creation of a full-time staff position of Education Director, which was filled by Kimberly Kissel. We all knew that it would be a few years before we really started to see a "return on our investment" so to speak, but the board was prepared to move forward with all possible dispatch.

SBE has decided that 2011 will be the year that we make the big push to take the education

See PRESIDENT'S LETTER on page 4

## SBE at the 2011 NAB Show Schedule of SBE Events and Meetings

he Society of Broadcast Engineers has been NAB's organizational partner for the presentation of the NAB Broadcast Engineering Conference (BEC) since 1995. Following previous years, this year's BEC will be the largest and most comprehensive broadcast technical conference in the world. The conference begins with the SBE Ennes Workshop on Saturday, April 9 and ends on Thursday, April 14. SBE will be very active with a full slate of meetings and events and will have a busy exhibit booth during the week.

## **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

See 2011 NAB SHOW on page 10

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National Board of Directors

**Candidates sought for** 

## New SBE University Course: Broadcast Audio Processing



SBE Chapter Spotlight: 39 - Tampa Bay Area

Have you visited us on the web yet? www.sbe.org

PRESORTED PRESORTED PAID U.S. POSTAGE U.S. POSTAGE PAID POSTAGE POSTAG "We use BRIC-Links for our main STL on107.7 FM, one of the satellite stations for WTOP, with very good results. I was pleasantly surprised at just how easy it is to set up a pair of BRIC-Links out of the box. I had my final configuration within ten minutes of powering up the units. We're running AAC audio that sounds every bit as good as the circuits to our other transmitter sites.

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

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

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# Win in the 2011 Membership Drive alsin

he 2011 Membership Drive begins on March 1st and concludes on May 31st. *Raising the Bar* is this year's membership drive theme.

With the numerous educational opportunities, networking, professional certifications and more, *Raising the Bar* signifies the higher level you can take your career to by being an active and certified member of the SBE. A growing membership helps make the Society strong – and SBE can raise its bar even higher with more members. SBE is the only organization devoted to the advancement of all levels and types of broadcast engineering. Through its members, SBE provides forums for the exchange of ideas, where sharing information helps you keep pace with the rapidly changing industry.

Help engineers you know raise their professional bar. Introduce them to the Society and its many career enhancement opportunities and personal benefits. Maybe there is someone on your staff who is somewhat new to broadcast engineering. Perhaps you know a student who has an interest in our profession. What better way to help someone reach his or her goals by introducing him or her to SBE's certification program, SBE's education programs and SBE JobsOnline? Make your local chapter stronger with the newest SBE member you recruit. Recruiting more members means raising the bar in networking opportunities. Recruiting a new member helps the Society help you.

Perfect,

ow Cost

BRIC-Link

**L**Solution

The SBE will reward you with every new member you recruit. With each new member, your name will be entered in the Membership Drive prize drawing. You receive five entries 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.



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Other prizes include:

- (2) Kathrein AON 65 UHF-TV antennas, courtesy of Kathrein Inc., Scala Division

- (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 receive five dollars off your 2012 membreship 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 and help the Society, *Raise the Bar* for you.



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# Candidates sought for SBE national board of directors

he SBE exists because of the volunteer efforts of members like you at the local and national level. The SBE Nominations Committee is currently seeking candidates to run in the summer elections for the upcoming term. Capable members from all corners of the field of broadcast engineering are needed to serve. To be eligible, candidates for national office must be Member, Senior or Life members of the SBE, or be the designated representative of an SBE Sustaining Member, in good standing. All candidates must also hold a current SBE engineeringlevel certification and must maintain that certification through all terms of office. All of the directors serve in an "at-large" capacity.

Directors serve terms of two years and are expected to attend two full meetings of the board each year. These meetings are held in the spring during the NAB Show, and in the fall during the SBE National Meeting. Terms of officers are one year. Officers are expected to attend the two full meetings of the board plus two meetings of the executive committee, which are held during the winter and summer.

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

Members interested in serving the SBE as a member of the national board are encouraged to contact the chairman of the SBE Nominations Committee, Ted Hand, CPBE, 8-VSB, AMD, Chief Engineer with WSOC-TV/WAXN-TV in Charlotte,

N. Car. Ted is also a current member of the Board, serving as national secretary. He can explain the duties and responsibilities to you in detail and answer any questions you may have. You can reach Ted at ted.hand@coxtv.com or (704) 335-4732. The Nominations Committee must submit its list of candidates to the SBE National Office by April 29, so if you are interested, be sure to contact Ted before that date.

Election ballots will be mailed no later than July 25 to all voting members. The results will be known on August 25 when all the ballots mailed to SBE National Headquarters are counted by the official board of tellers. Those elected will be inducted into office on September 28 during the SBE National Meeting, which will be held in Columbus, Ohio, in conjunction with the Ohio Association of Broadcasters annual OAB Engineering Conference, in cooperation with the SBE chapters of Ohio.

Please consider contributing your leadership and experience to the Society by offering to run as a candidate, and if elected, serving as a member of the national board of directors. Not only will your Society benefit from your leadership, but you'll benefit too, as you develop friendships and strengthen your professional network with other members from around the country.



## **PRESIDENT'S LETTER** from page 1

program to the next level and provide important educational opportunities for our members, and make important enhancements that will benefit all.

We are going to add a new certification level, hopefully for an NAB rollout. It is called Certified Broadcast Network Engineer, or CBNE. It is the next step for the existing CBNT certification level. One difference with the CBNE is that it will have a five year experience requirement. It is the next natural step for those holding the CBNT to try this new certification.

SBE University is expanding as well. With a total of eight courses currently available and more on the way, our newest course is titled "Broadcast Audio Processing" and is authored by Stephen M. Poole, CBRE, AMD, CBNT. Stephen is the market Chief Engineer for Crawford Broadcasting's Birmingham, Alabama Stations. The course takes a practical, real-world approach. An entire chapter is devoted to human hearing and how it actually responds in the real world. All of the familiar terms are here: attack and release times, compression, peak limiting ... but emphasis is given to how these sound to the listener. More information on this and other SBE

University courses is available on the new and improved SBE website at www.sbe.org.

Speaking of SBE University, if you want to win a free SBE University course of your choice, send an e-mail to vlopez@sbe.org with the subject "University Contest" and the words "Welcome to Santa Rosa County" in the body of the message.\*

The Society continues to offer a variety of webinars. Coming up will be another session of our popular RF Safety course, presented by Richard Strickland of RF Safety Solutions. Over 650 people have taken this web training since its inception, making it one of SBE's most popular webinars. This will be held on Thursday, February 17 at 2:30 p.m EST. Right on the heels of this is a two part webinar, Networking Technology for Broadcast Engineers. Part 1 will be on March 3, 2011 and Part 2 is scheduled for March 24, 2011. Both sessions are from 2:00 - 4:00 pm. The instructor for this webinar is Wayne M. Pecena, CPBE, 8-VSB, AMD, DRB, CBNT.

Wayne is the Assistant Director of Educational Broadcast Services in the Office of Information Technology at Texas A&M University. As usual with all SBE educational offerings, these qualify for recertification credits. We have two upcoming Ennes Workshops coming up as well. The Sacramento Ennes Workshop co-sponsored and hosted by SBE Chapter 43 - Sacramento and KVIE will be held on Saturday, February 12, 2011. For those in the sunshine state, the South Florida Ennes Workshop, hosted by SBE Chapter 53 - Miami will be held on Thursday, March 10, 2011. Last but not least, don't forget about the biggest Ennes Workshop of the year, on Saturday April 9th, 2011 at NAB.

2011 does indeed look to be the year that SBE takes our educational opportunities to the next level. You will see this phrase used extensively throughout the year, from mailings to e-mail campaigns and all things SBE. I hope all of you join us in *Raising the Bar*.

## \*the fine print

Winner will be determined by a random draw of all correct entries received by 12:00pm February 28, 2011. Winner must be a current member of SBE. Prize is transferable by the winner to another SBE member. Prize has no cash value.

# Time to renew your SBE membership

nsure your continuing membership in the only professional organization dedicated solely to the advancement of the broadcast engineer and the field of broadcast engineering by renewing your membership. Most members of the SBE will receive their annual membership renewal form in the mail during the first week of February. Those in the Member, Senior, Student, Associate and Fellow membership categories will receive the mailing. Renewals are due by April 1<sup>st</sup>.

You can renew by filling out the form and mailing or faxing it with payment information to the SBE National Office, or you can use the on-line renewal form on the SBE website, www.sbe.org. The system is fast and secure and you will receive an automated email confirmation message/ payment receipt. More than 1,000 members used the on-line system last year, which was the first year on-line renewal was available.

Membership dues may be paid using a personal or company check, money order, debit or credit card (MasterCard, VISA or American Express).

Membership dues for the member classifications listed above (except Student) are \$68 for the April 1, 2011 - March 31, 2012 membership year. The SBE Board of Directors approved an increase last October of \$5, the first increase in four years. Student member dues remain at \$20. Life members are automatically renewed with no form to complete or dues to pay. Youth and Sustaining Members renew in the anniversary month of their membership. The membership dues for those classifications have not changed.

If you have any questions about your renewal, or if you do not receive your renewal reminder by February 15, please contact Scott Jones at the SBE National Office at (317) 846-9000 or kjones@sbe. org.

# Diluting the waters by

cimlay@sbe.org

t is certainly no secret that the broadcast industry was hit hard by the 2008 recession. It has not recovered significantly since then. It is still very hard times for even the best commercial broadcasters, especially radio station licensees. It is still bad enough that I was asked to present as part of a workshop at NAB this Spring a session for broadcast engineers about working for an employer in reorganization. And I am

doing it, because unfortunately, it is a timely subject.

Against this backdrop, it was surprising to me to read the FCC's Notice of Proposed Rule Making, proposing to vastly expand the uses (and the numbers) of Traveler's Information Stations (TIS) released at the end of last year. As a guy who represents a lot of AM broadcast stations, there is a lot that strikes me as just plain wrong about this proposal, and about TIS in general.

TIS is and always has been a low-power AM broadcast service. There is no doubt about that. It is a point-to-multipoint service with the specific purpose of delivering information to everyone with an AM broadcast receiver within range of the devices about certain local conditions. The transmitters operate day and night in the AM broadcast band with power levels of 10 watts into vertical antennas, or 50 watts into leaky cables. The field strength of TIS stations cannot exceed 2 mV/m at a distance of 1.50 km (0.93 miles) from the transmitting antenna system. They are limited to transmitter sites considerably outside the 0.5 mV/m contour of co-channel or first adjacent channel AM stations, but other than those restrictions, technical regulation of TIS is hazy in the one rule section that deals with them. They are a secondary service in the 535-1705 kHz band, and primary at 530 kHz.

The rule section that deals with them (Section 90.242) is in Part 90, not Part 73 or Part 74. Why? These stations are regulated not by the Audio Division at FCC, but by the Public Safety and Homeland Security Bureau. This low power broadcast service is administered by the folks who regulate two-way radio use by local governments. The licensees who operate TIS broadcast stations are Public Safety eligibles. It has been this way since 1977 when this service was first formed. As of now, TIS stations may only transmit "noncommercial voice information pertaining to traffic and road conditions, traffic hazard and travel advisories, directions, availability of lodging, rest stops and service stations, and descriptions of local points of interest." TIS transmitter sites are restricted to "the immediate vicinity of ... [a]ir, train, and bus transportation terminals, public parks and historical sites, bridges, tunnels, and any intersection of a Federal Interstate Highway with any other Interstate, Federal, State, or local highway." But the FCC proposes, in response to three petitions filed by (of course) the associations representing the interests of TIS stations, and the American Association of State Highway and Transportation Officials (AASHTO) to vastly expand the scope of TIS stations. AASHTO had asked that TIS stations be permitted to transmit AMBER alerts and the availability of 511 (a nationwide telephone number for traveler information). Highway

**by Chris Imlay, CBT** *SBE General Counsel* Information Systems, Inc. asked that the Commission re-title TIS as the "Local Government Radio Service; expand the permissible uses of TIS stations to include broadcast information of a non-commercial nature "as determined by the government entity licensed to operate the station and other government entities with which the licensee cooperates;" and to eliminate the limitation on TIS sites to areas near roads, highways and public transportation terminals, so that they can be located anywhere. Local governments commented on the proposals, and suggested in essence that TIS stations be allowed to broadcast virtually all noncommercial information such as local government official notices etc.,

similar to low power FM stations.

The FCC's Notice of Proposed Rule Making takes the bait offered by AASHTO and the other two petitioners and the commenting local governments. As is the case with a lot of other FCC NPRMs lately, no actual rules are proposed by FCC, making it difficult to comment on the proposal, but the NPRM does ask a lot of questions, including whether the public interest would be served by expanding TIS to include the broadcast of all non-commercial information; whether to limit the expanded authority to just emergency alerts, or to some other permissible content; and whether to expand TIS while retaining the travel-nexus requirement.

FCC is not interested (probably because this rulemaking was initiated by the Public Safety and Homeland Security Bureau) in what the impact of this wholesale change in the concept of TIS would be on radio broadcasters. Instead, they ask whether the changes would diminish the ability of TIS stations to communicate information of local concern to travelers. Is that really the issue here? FCC asks to what extent the type of information broadcast over the TIS service might be broadened without "diluting" the value of the service to travelers.

I don't suggest here that TIS stations are now a major source of interference to the AM broadcast service. But it should be patently obvious that anecdotal tallies of interference complaints by AM broadcast listeners are not an accurate measure of the interference potential of the stations now, because of course AM listeners do not complain of interference, they simply tune away to FM, or just turn off the radio entirely. It should also be patently obvious that a radical increase in the number of ten-watt transmitters in the AM broadcast band will have a measurable aggregate effect on ambient noise, especially nighttime, throughout the AM band.

More to the point, however, the effort to make local governments into non-commercial broadcasters is misplaced conceptually. Broadcast radio stations in most markets, and especially AM stations, do local broadcasting because they have no other choice if they want to survive. There is no need to replicate the AM, FM or LPFM services with a local government broadcasting service. Broadcasters broadcast AMBER alerts, weather information, road closures, and other breaking emergency news. It is not necessary or beneficial to dilute the broadcast service, and especially the AM broadcast service, with a local government sponsored broadcast service. And it is not necessary to increase the number of full-time low power AM transmitters in the AM Broadcast





# Is it time to recertify?

by James T. Bernier Jr., CPBE, CBNT SBE National Certification Committee Chairman

rom time to time, we receive feedback from both certified members and certified non-members questioning the recertification process. Some don't appreciate the requirements for

recertification. Others don't understand why there's a five year term to the certification itself, after all, "once you're certified, no one can take it away from you".

Those of us old enough to remember the FCC's first class ticket will also recall that it had a five year term, upon which it was your responsibility to remember to renew it. All that was required for renewal was a clean service record.

SBE Certification, like the old FCC licenses and many other professional certifications, is a renewable certification with a five year term. You will receive a renewal notice six months prior to the end of that five year term. This notice will include the recertification application and instructions for filling it out. For all engineering certifications, you need to renew by professional credits.

You may ask, "Why do I have to fill out an application if I have been working in the broadcasting field?". The reason

John C. Breckenridge Jr. President Seacomm Erectors, Inc. Complete Tower Erection • Inspection • Maintenance 24 Hour Emergency Service P.O. Box 1740 Phone: (360) 793-6564 Sultan WA 98294-1740 Fax: (360) 793-4402 www.seacomm.com seacomm@premier1.net Earn Your Degree at Home! New PLC **Cleveland Institute** www.cie-wc.edu <sup>2</sup>Course Visit our Web Site for course Visit of Electronics offers nationally accredited distance descriptions, tuition prices or to learning programs in electronics request a FREE Course Catalog.

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Or call 1-800-243-6446 1776 E. 17th St., Cleveland, OH 44114 is similar to why you had to take an exam to be certified in the first place. You are showing that you have continued your education and knowledge in our technical world.

The professional credit requirements encourages individuals to do more during their five year term than just hold employment, professional memberships and attend meetings. The activity distribution across ten different categories is a way to encourage you to engage in activities that expand your knowledge and education with the ever changing industry before us.

The Society's certification committee has detailed different activities within the ten categories that coincide with what they believe demonstrates your continuing education efforts within the industry. The Certification Committee is a group of volunteers that work as broadcast engineers throughout the United States. Many different individuals have served on the committee over the past 35 years. The categories and activities within those categories are reviewed regularly to make sure that the renewal process remains relevant.

The categories that they have identified for recertification by professional credits include: employment, membership, chapter meetings, conferences or seminars, factory or instation schools, continuing education units, publication of an article or a presentation on a relevant subject, SBE educational courses, workshops and a number of other areas. Each certification level has a number of minimum credits that needs to be reached for recertification spread over a minimum of four categories.

When you are initially certified, and with each renewal, you receive a "Maintenance of Certification" brochure. This brochure is provided so that you can keep track of items that should be included in your recertification application when it is due. By keeping a track record as the years tick by, it will make the application easier to fill out when the time to renew is upon vou.

The founders of SBE's certification program were purposeful in requiring recertification every five years. The new program needed to provide employers a basis for assuring that this new process was better than the old FCC renewal process. In doing so, they created a program that was more meaningful to both member and non-member participants.

I want to thank the local certification chairmen, and the National Certification Committee, for dedicating their time to the program of certification. Without their volunteer efforts, this program would not exist.

## New SBE Certification Acbieventers Robin Cole, Spokane, WA – Chapter 21 III. ACA COLLEGE Man Kilgore, Oconto Falls, W1 – Chapter 80

## 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®)

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Thomas Lyons, St. Louis, MO – Chapter 55

## NEWLY CERTIFIED CPBE®

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Timothy Anderson, Covington, KY – Chapter 33

## **NOVEMBER EXAMS**

"Thank You" CHAPTER CERTIFICATION CHAIRS FOR YOUR ASSISTANCE

### CERTIFIED SENIOR TELEVISION ENGINEERTM (CSTE<sup>®</sup>)

Robert Clinton, Manassas, VA – Chapter 37 John Fleetwood, Ellicott City, MD – Chapter 37 Thomas Neuse, Cantonsville, MD – Chapter 37 Brien Laufer, Torrance, CA – Chapter 47 Robert Lindner, Reston, VA – Chapter 37

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CERTIFIED BROADCAST TELEVISION ENGINEER™ (CBTE®) Ernesto Camareno, Riverview, FL – Chapter 39

FEBRUARY 2011

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

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## SPECIAL PROCTORED EXAMS

CERTIFIED BROADCAST NETWORKING TECHNOLOGIST® (CBNT®) Benjamin Allen, Beebe, AR

## **CERTIFIED BY LICENSE**

CERTIFIED BROADCAST TECHNOLOGIST<sup>®</sup> (CBT<sup>TM</sup>)

Norman Corliss, Chapter 110 Dewey Newton, Canton, GA – Chapter 5

## CERTIFIED RADIO OPERATOR<sup>®</sup> (CRO<sup>™</sup>)

CERTIFIED RADIO OPERATOR<sup>®</sup> (CRO<sup>TM</sup>) FAMILY LIFE BROADCASTING

Joel Hime Thor Moldrem Joseph Neubaum

#### FAMILY STATIONS INC. Tony Giang Lisa Sovulewski

#### **PASADENA CITY COLLEGE** Justin Bernal

Justin Bernal Richard Garcia Samuel Cartwright Nicel Guerra Elizabeth Jahelka Myrone McCarty Dwayne McClendon Joana Morales Joaquin Ramos Isaac Derfel Isaac Derfel Rob Engelsman Emily Junge Stephen Koplick Stacey Lawrence Amy Obarski Alex Ogle Collin Schuck Theodore Slipko

#### PARMA CITY SCHOOLS

Taylor Colaric Michael Dawson Matthew Madej Melissa Powell Nicole Septaric Adam Zapotechne

## CERTIFIED TELEVISION OPERATOR<sup>®</sup> (CTO<sup>®</sup>)

CERTIFIED TELEVISION OPERATOR® (CTO®) Linda Brantley, Palm Harbor, FL Ray Denton, Meridian, MS Mario DiBiasi, Kansas City, KS Mark Dixton, Knoxville, TN Aaron Eisenman, Aurora, CO Beau Foster, Greensboro, NC Justin Hempstead, Orlando, FL Robin Hendrix, Greensboro, NC Kara Langston, Shawnee, KS Tim Lemos, Orlando, FL Andrew Magyar, Burbank, CA Patrick Mahon, Roseville, MI Mike Melendez, Albuquerque, NM Laura Morser, Aurora, CO Eric Olsen, Marrero, LA Ernest Schimizzi, Wainscott, NY Josh Taylor, Meridian, MS Dustin Vasko, Chesapeake, VA Dan Villasenor, Burbank, CA Matt Vinke, Burbank, CA

## **OUTDOOR CHANNEL**

Kevin Butts Jeff Campbell Julie Crouch Nicholas Hambarian Jamaal Harley Brett Klaus Wes Knippers Tom Loya Gabe Tenuta

### ION MEDIA NETWORK

Eddie Gray Michael Hall Tim Janda David Johnson Alex Norman

## WESTERN CAROLINA UNIVERSITY

Barry Brigham Jacqueline Marshall Nathan Rowe Courtney Ebejay Thomas Alexander

## 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®)

Andres Diaz, Guaynabo, PR – Chapter 142

Alan Kilgore, Oconto Falls, WI – Chapter 80 Scott Mason, Los Angeles, CA – Chapter 47 Lang Sturgeon, Thurmont, MD – Chapter 46

## CERTIFIED SENIOR RADIO ENGINEERTM

(CSRE®) Roswell Clark, Clearwater, FL – Chapter 39 Lewis Ray, South Bend, IN – Chapter 30 Michael Smith, Concord, NC – Chapter 45

#### CERTIFIED BROADCAST RADIO ENGINEER<sup>TM</sup> (CBRE<sup>®</sup>) AM DIRECTIONAL SPECIALIST<sup>TM</sup> (AMD<sup>TM</sup>)

Gregory Armstrong, Columbus, OH – Chapter 52

#### CERTIFIED BROADCAST RADIO ENGINEERTM (CBRE®)

Javid Antoine, Bronx, NY – Chapter 15 Jack Roland, Wheat Ridge, CO – Chapter 48 Joseph Torsitano, Grants Pass, OR – Chapter 141

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

Timothy Davis, Fort Worth, TX – Chapter 67

**CERTIFIED VIDEO ENGINEER® (CEV®)** Larry Tanaka, Chicago, IL – Chapter 26

#### CERTIFIED BROADCAST NETWORKING TECHNOLOGIST<sup>®</sup> (CBNT<sup>®</sup>)

Michael Source (Control Control Contro

#### CERTIFIED BROADCAST TECHNOLOGIST<sup>®</sup> (CBT<sup>TM</sup>)

Christopher Hays, La Canada, CA – Chapter 47 William Hoctor, Salisbury, MD – Chapter 22 James Martin, Richardson, TX – Chapter 67 Michael Maville, Boca Raton, FL – Chapter 88 Douglas Melanson, Yuma, AZ – Chapter 138 David Palmeira, Winter Springs, FL – Chapter 42

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

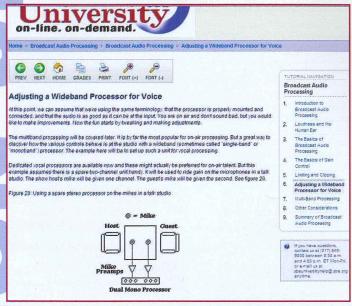
Lawrence Andersen, Wauwotosa, WI – Chapter 28 Tom Dailey, Denver, CO David Edmonds, Denver, CO Sarita Gurung, Denver, CO Jennifer Larson, Bozeman, MT Steven Michael, Wyandotte, MI Shawn Morgan, Riverside, CA Ron Santos, Medford, OR Keith Silvester, Talent, OR Megan Shaw, Bozeman, MT Alyca Taylor, Encino, CA William Thompson, Raleigh, NC Ringo Wong, Artesia, CA

**CERTIFIED RADIO OPERATOR® (CROTM)** Frank Baptista, Westport, MA – Chapter 11

# **SBE Education Update**

## New SBE University Course · Available Online, On-demand Broadcast Audio Processing

SBE University has a new course on Broadcast Audio Processing geared toward the intermediate to experienced broadcast engineer who is already familiar with the basics of good broadcast engineering. The course concentrates on loudness and the human ear, the basics of broadcast audio processing, the basics of gain control, limiting and clipping, adjusting a wideband processor for voice and multi-band processing. The SBE is grateful to Stephen Poole, CBRE, AMD, CBNT, for all his work in developing this course. The cost is \$80 for SBE Members and \$105 for non-members.



A View of the Broadcast Audio Processing Course - Chapter 6

SBE University consists of online courses of interest to broadcast engineers. These courses can be accessed again and again at a time that is convenient for you. Other courses on SBE University include 8-VSB, Computer Networking, Voice Telco Networks, Studio Interface Systems and more.

## **2011 SBE Leadership Development Course** August 2-4 · Atlanta, Georgia

This three-day course, led by leadership consultant and college professor Rodney Vandeveer, challenges you to refine your leadership skills as you better understand and improve how you interact with others. One attendee of the 2010 Course said of his experience, "The insight into my own management style and the motivational techniques was excellent." Another student said this is "a class every manager should attend!"

## **Upcoming Webinars**

## SBE RF Safety Course - February 17

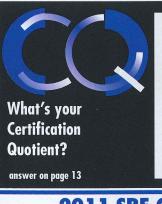
Need to brush up on your knowledge of RF and RF Safety? The SBE RF Safety Course provides an overview of RF radiation issues and practices for broadcasters, including workplace hazards, transmitter sites, SNG and ENG trucks, the biological effects of RF radiation and the distinct differences between RF radiation and ionizing radiation and more. *Instructor - Richard Strickland* 

## Networking Technology for Broadcast Engineers March 3 and March 24

This subject is broken into two webinars. Each webinar can be taken independently but note that SBE Members save \$20 when they purchase both. The first webinar covers TCP/IP and UDP fundamentals and IP addressing (IPv4 focused). The second webinar focuses on the fundamentals of IPv6, switching and routing fundamentals, QoS basics, controlling traffic and security concerns. *Instructor - Wayne Pecena* 

## KREX — the Real World of Disaster Recovery April 28 · FREE for SBE Members! registration required

For most engineers, the disaster recovery plan is a file on their hard drive that is a sketchy and rarely updated plan on what should be done if the station is destroyed. Find out what real world lessons in disaster planning were learned when the CBS and Fox affiliate in Grand Junction, Colorado burned completely to the ground and the Super Bowl was just two weeks away. This session includes helpful checklists and templates related to disaster planning and recovery. Thank you to Harris Corporation for sponsoring this webinar.



Question: Which signal is located 310 kHz above the lower edge of the 8-VSB Channel:

A. Pilot Signal B. Data Segment Signal C. Q Signal D. I Signal

2011 SBE Certification Exam Schedule

## Dates

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

the **SIGNAL** 

## 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.

February 12 · Sacramento Ennes Workshop · 9:00 a.m.-5:00 p.m. PST Hosted by: SBE Chapter 43 and KVIE-TV Cost: SBE Members · \$25; Non-Members · \$35

 February 17 · SBE RF Safety Course · 2:30-5:45 p.m. EST

 Instructor:
 Richard Strickland, RF Safety Solutions

 Cost:
 SBE Members · \$85; Non- Members · \$125

March 3 • Networking Technology Webinar • 2:00-4:00 p.m. EST TCP/IP and UDP Fundamentals and IP Addressing (IPv4 focused) Instructor: Wayne M. Pecena, CPBE, 8-VSB, AMD, DRB, CBNT Cost: SBE Members • \$59\*; Non-Members • \$79 \*SBE Members get a \$20 discount when you purchase both Networking Technology webinars

March 10 · South Florida Ennes Workshop · 9:00 a.m.-5:00 p.m. EST Hosted by: SBE Chapter 53 Cost: SBE Members · \$30; Non- Members · \$45

March 24 • Networking Technology Webinar • 2:00-4:00 p.m. EDT IPv6 Fundamentals, Switching and Routing, QoS Basics, Controlling Traffic and Security Concerns Instructor: Wayne M. Pecena, CPBE, 8-VSB, AMD, DRB, CBNT Cost: SBE Members • \$59\*; Non-Members • \$79 \*SBE Members get a \$20 discount when you purchase both Networking Technology Webinars

> 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.



## Fellow Nominations Deadline March 26

he Fellow designation is the highest level of SBE membership and recognition presented by the Society of Broadcast Engineers. Nominations for 2011 must be received no later than March 25 for consideration this year.

Information on how to submit a nomination is available at the SBE website. Click on the "About Us/Awards & Recognition" tab on the red menu bar and click on "SBE Fellow." Submit your nominations to Fellowship Committee Chair: Troy Pennington, CSRE CBNT, 6156 Hampton Hall Way, Hermitage, TN 37076 or to troy.pennington@cumulus.com.



Start preparing for your Certification Exam Today!

Download the new and improved SBE CertPreview software at www.sbe.org/CertPreview.php



(805) 968-9621 www.moseleysb.com

## 2011 NAB SHOW from page 1

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, 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 plan to visit the SBE booth while at the convention. 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 5:00 pm to 6:00 pm in the South Hall at the Las Vegas Convention Center (room to be announced). We will be recognizing a number of our local chapter certification chairs during the meeting. Prizes will be given away to those who attend.

## Saturday, April 9

**SBE Certification Committee Meeting** .. 6:30 – 11:00 pm Conference room 7

## Sunday, April 10

**SBE Education Committee Meeting** ...... 2:00 pm – 4:00 pm Conference Room 7

## **Frequency Coordination**

## Monday, April 11

## Tuesday, April 12

SBE Frequency Coordinators Meeting.. 10:00 am – 12:00 pm Conference Rooms 7 & 8

**SBE Spring Membership Meeting** ......... 5:00 pm – 6:00 pm IVCC Room TBA

## **Registration Discounts for SBE Members**

Members of SBE whose employers are not members of the NAB, can register for the full conference (Conference Flex Pass) using the special "Partner Rate", which provides a \$100 discount off the non-NAB member rate. SBE members should use the Pass Code: BE25, on the on-line NAB Show registration form to get the discount. To register, visit the NAB website, www.nabshow.com/2011. Register before April 8 to avoid paying higher registration rates.

The Conference Flex Pass is \$495 for NAB members, \$595 for SBE members using the Partner Rate and \$695 for non-NAB members. 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.

## WATERS from page 5

band. I cannot for the life of me understand why the Public Safety and Homeland Security Bureau is in charge of this rulemaking, or for the matter of that, in charge of TIS stations. It seems to me that the Audio Division of the Media Bureau at FCC ought to be regulating this broadcast service. I recall a case not long ago in which an AM broadcaster that I represent was prepared to commence operations of a new station the licensee had built. Well within the 0.5 mV/m contour of the new station was a TIS station operated by a state transportation authority, which had been on the air for some time. Convincing the local government that it was necessary to take this station off the air on that frequency was not easy and it took an FCC complaint and several months to accomplish. Can you imagine the same effort if the FCC allows TIS stations to transmit emergency information and other local government information?

# Raising the Bar with the new SBE website



jporay@sbe.org

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

BE President, Vinny Lopez, in his Signal column, which appears in this issue, introduced our organizational theme for the year, Raising the Bar. I'd like to take a moment to tell you about one of the ways we have worked to do just that.

On January 19, we unveiled a complete overhaul of the SBE website. We've made changes that will provide quicker access for members to the information you most frequently seek. Our web site statistics have told us that the JobsOnline, Certification and Education pages are typically the most viewed areas of the website. We've made those, and several other key areas, easier to access on the home page. Time specific events or activities can cause other areas of the website to experience a great number of visitors over limited time spans, such as membership renewal in February and March and the government relations pages when an important issue has taken center stage, such as the recent EAS implementation deadline. Those are also easier to access.

Of course, the SBE website is designed for audiences in addition to our membership. Prospective members, industry manufacturers, students, the media and elected and appointed government officials all have reason to visit the SBE website and we feel the changes made throughout the site will help all of these groups get the information they need in a quick and effective manner.

The changes to the website have not just been about site organization or a new (and attractive) graphic design. Every page on the website has been updated or completely re-written with the aim of providing the most up-to-date information available.

The opening of the new site also marks the introduction of a new feature. We are now providing the opportunity for every chapter to post their meeting dates and information on their own calendar pages, which they update themselves. Each chapter will be able to authorize a chapter member to enter, delete and modify information in their chapter's calendar pages. You can include a brief synopsis of upcoming meeting programs as well. This will be especially helpful to prospective members, students and manufacturers who may not be familiar with the chapter but come across the national SBE website, looking for a local connection. Of course, the SBE site also includes a complete list of chapters, their chairmen and contact information.

For the new chapter calendar feature to be effective, we'll need every chapter to participate by updating their information. The calendar program is simple to use and is self-contained. You won't need to download or buy any software. For those who

## want a little help getting started, we'll be providing a short webinar tutorial in the coming weeks. Watch for an announcement about it soon. The chapter calendar feature is not intended to take the place of anything chapters currently are doing on their own websites or newsletter, but rather supplement those efforts.

There is also a new SBE National Calendar feature, listing all of the important national SBE event dates, certification deadlines, education programs and more. All of these national SBE dates will also automatically appear on each of the individual chapter calendars, providing a convenient way for the viewer to see the dates of the chapter they have chosen to view, and the national dates, without having to leave the chapter calendar.



View of the SBE's website National Calendar feature

Like the old website, the new site offers some member-only benefits, including the member-search and chapter search features. Using your member number as your log-in and your website password, you can search for another member or get a list of all of the members in a specific chapter.

The SBE JobsOnline continues to be a very popular memberonly benefit. Though the list of jobs is available for anyone to see, only members are able to see the name of the employer and the contact information. SBE JobsOnline is also searchable, using as many as six different criteria. And, members can subscribe to the SBE JobsOnline and be notified with an automated email when a new job is posted that meets the chosen criteria.

The SBE ResumeBank also has a place in the new website, providing another way for members to seek new positions; and it's an easy and automated process too.

There are many convenient e-commerce opportunities on the website that give you access to many SBE programs and services 24/7. You can renew your membership on-line and a prospective member can join on-line. You can sign up for any of the many education programs SBE has to offer and the SBE Store is filled with technical books and SBE logo items, all of which are available to purchase on-line.

We hope you'll like the changes we've made. The address remains the same, www.sbe.org.

## **FEBRUARY** 2011

# Recognize the best in the industry with the SBE National Awards

ome 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 National SBE Awards.

There are five chapter and six individual award categories:

**Broadcast Engineer of the Year** recognizes the SBE member who has made a great contribution to the broadcasting industry and to furthering the goals and objectives of the Society.

**Educator of the Year** recognizes the SBE member who is dedicated to the education of the broadcast engineer through personal writings, teachings, programs and employment and who furthers the goals and objectives of the Society.

**Technology Award** recognizes the SBE individual or Sustaining Member who has provided the industry with the best new or innovative technical item or idea to further the science of broadcast engineering and to assist the broadcast engineer to be more productive in the craft. Only ideas that have been shared with others in the industry are eligible

## Best Technical Article, Book or Program by an SBE

**Member** recognizes the author of the best technical article, book, paper or program in its contribution towards the increase of scientific, operational, artistic or technical knowledge in the broadcast engineering industry.

## Best Article, Paper or Program by an SBE Student

**Member** recognizes the SBE Student member who has shown excellence in the presentation of a technical operational or scientific paper published in an SBE local, national, or industryrelated publication; or program presented at a local chapter meeting, national/regional convention or broadcast engineeringrelated class.

**Best Regional Convention or Conference** recognizes the effort of the local chapter that sponsored, organized and held a regional technical conference and/or convention that best furthered the goals and objectives of the Society.

**Best Chapter Newsletter**\* recognizes two local chapters that produced the best locally published newsletter in its class, providing up-to-date and relevant information about the chapter in a graphically pleasing and editorially sound manner. Both print and electronic newsletters are eligible.

**Most Interactive Chapter** recognizes the local chapter that most actively attempted inter-association with organizations in industries related to the Broadcast Engineering profession.

**Best Chapter Frequency Coordination Effort**\* recognizes two local chapters that expended the greatest and most effective effort toward frequency coordination in its market and service area.

**Best Chapter Website** recognizes the local chapter with a website providing up-to-date information about the chapter, including officers and meetings, making effective and creative use of graphics; providing links to the SBE National website and effectively representing the chapter and SBE.

**Most Certified Chapter\***, **Highest Member Attendance\*** and **Greatest Growth in New Members\*** are three awards determined with statistical information based on December 31, 2010 figures on file at the SBE National Office. Chapters established in 2011 are not eligible for the Greatest Growth in New Members award.

\*Denotes categories with two class awards determined by size of chapter so that chapters with vastly different membership sizes are not competing with each other.

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 attend the 2011 SBE National Meeting, which will be held in conjunction with the Ohio Association of Broadcasters Engineering Conference, September 27-28 in Columbus, Ohio. The winners will be recognized at the SBE National Awards Dinner as part of the National Meeting.

The deadline for all nominations is May 31, 2011 recognizing achievements that occured 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.

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

**Patrick C. Shearer** Chief Engineer, KRCW-TV / Tribune Broadcasting, Beaverton, OR Joined SBE in 2001, Chapter 124 - North Oregon

**Getting Started:** From the ages of four to 11 years old, I spent time hanging out with my uncle who was a Ham. I was always fascinated by broadcasting and began my career in this field when I got out of the military in 1980. **Job Satisfaction:** What I like most about my job are the endless varieties of problems to solve.

Focal Point: With SBE, I value the opportunity to keep current on industry trends and to network with local engineers. You may not know ... I lived in Alaska through three brutal winters, and that is where my daughter was born.

When I'm not working ... I'm riding either of my two Harleys with my wife. Photography is also one of my favorite hobbies.

# Chapter 39 - Tampa Spotlight www.sbe39.com



## Members of Chapter 39 at the engineering conference "Theory vs. Fact" held November 11, 2010 **Planning programs - don't be afraid to try**

In Tampa Bay, we are committed to bringing opportunities for education to our members. In November we held an engineering conference "Theory vs. Fact." It was an attempt to look at where we have gone in digital broadcasting, looking back at what we thought digital broadcasting would be, from the manufacturers' perspective - where we are and what do they see on the horizon for digital broadcasting. We also addressed issues of regulation and how they have impacted digital broadcasting and the "business" of operating broadcast facilities. We try to have the very latest of topics that are currently on the minds of our members, or the latest issues that our members need to be aware of.

Having a membership that is interested and active encourages local broadcasting and industry companies to participate. Besides the presentations, vendors supported the effort financially, and provided prizes for attendees. An effort like this brings the engineers of various stations together, and helps to increase the bonds between individuals.

The best part of the session, to me, was that everyone walked away knowing they gained something valuable that day. Because we have active members in both TV and radio, we strive to have topics that address both groups.

If I were to give advice to other chapters it would be, "Don't be afraid to try". It will take some work and planning, but the reward to the membership is worth it.

- Chapter Chairman Mike Galik, CBTE, CBNT

# **SBE** Members on the Move

**Otto Schellin** was named Director of Engineering at WPXI-TV in Pittsburgh, PA. Schellin was formerly the Information Systems Manager.

## **Accredited SBE Frequency Coordinators**

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

Arthur Hoover	Baton Rouge, LA
Mike Moravec	Little Rock, AR



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

ADC Telecommunications Inc. • 1998 Anne-Marie Gunderson (952) 917-3072 End to End Connectivity Solutions 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 Battery Solutions for ENG Audemat-Worldcast Systems Inc. • 2000 Christophe Poulain (305) 249-3110 udio Signal Processing Audionamix • 2009 Olivier Attia (800) 787-4134 RDS Generator, Metering, Monitoring, Remote Control Manufacturer AVCOM of Virginia, Inc. • 2010 Warren "Buck" McElfresh (804) 794-2500 - Spectrum Analyzers **AXCERA • 1983** Mike Rosso(800) 215-2614 ext. 101 **Television Transmitters & Exciters 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 ournal 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 Labratories • 2008** lared 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 Dataworld • 1998 Ed Czarnecki (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 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) 564-6248 Brad Eckwielen (920) 564-6248 elevision Reception Antenna Manufacturing DSC Laboratories • 2002 Michael Wiegand (905) 673-3211 Test Charts & Illuminators

Micronet Communications, Inc. • 2005 DSI RF Systems, Inc. • 2010 Judy Mueller (732) 563-1144 RF Service/Installations/Products DTS • 2009 Mark Seigle (425) 814-3200 Surround Sound Technologies du Treil, Lundin & Rackley, Inc. • 1985 leff Reynolds (941) 329-6000 Consulting Engineers e2v • 1997 Mark Strohecker (914) 593-6831 Klystrons, MSDC IOTs, IOTs, Satcom Amps, TWTs Econco • 1980 Debbie Storz (800) 532-6626 or (530) 662-7553 New & Rebuilt Transmitting Tubes Elettronika 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** Florical Systems • 2008 Jim Bery(352) 372-8326 Television Broadcast Automation Frontline Communications Corp. • 2000 Stephen Williamson (727) 573-0400, ext. 160 Broadcast/Command/HLS Vehicles Fujinon, Inc. • 1986 fhom 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 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 Under Monitor Tally Display Systems, Monitor Walls, Signal Alarm Systems Jay S. Gerber, CBT • 1999 (205) 491-6904 Manager, NEL Fronting Continued Contention Contin 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 Kintronic Labs, Inc. • 2010 Eric Miramontes (423) 878-3141 MAUD Actemes (5423) 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 Bliek (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

Members with at least 25 years of membership New members listed in blue

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 Sencore, Inc. • 2005 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 NSOEM • 2010 Robert Sorbet (281) 500-8940 Power Quality 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 Fracchini (201) 392-6183 Professional Broadcast Equipment Pasternack Enterprises • 2001 Christine Hammond (949) 261-1920 Coax & Fiber Products Polyphaser/Transector 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 ProAudio.com - A Crouse-Kimzey Co. • 2008 Mark Bradford (800) 433-1205 ext. 560 Propagation Systems Inc. - PSI • 2010 Doug Ross (814) 472-5540 Quality Broadcast Antenna Systems Pulsecom • 2003 Doug Cost (202) 471 2009 Dave Corp (703) 471-2908 AM, FM and HD STLs, Copper & Optical Quintech Electronics and Communications Inc. • 2002 Paul Campagna (724) 349-1412 RF Signal Management Radian Communication Services Inc. • 1986 John McKay (866) 4-RADIAN Antennas, TV Transmitter Installation RCS • 2003 John Gager (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 Group • 2008 www.rfspecialties.com Trasmitters, 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 Seacomm Erectors, Inc. • 1997 John Breckenridge (360) 793-6564 Tower/Antenna Erections Garrett Carter (800) 736-2673 MPEG Operation and Test Equipment Shively Labs • 1996 David Allen 888-SHIVELY FM Antennas & Combiners Sigmet • 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 L Mize (960) 507 2052 Michael J. Miga (860) 507-2052 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 (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 & 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 Ward-Beck Systems Ltd. • 2004 Michael Jordan (416) 335-5999 Metering, Monitoring, Distribution, Conversion Warning Systems, Inc. • 2008 Elysa Jones (256) 880-8702 CAP, Warning, Emergency Alert Wheatstone • 2010 Jay Tyler (252) 638-7000 IP Consoles, Routers & Processors Wireless Infrastructure Services • 2006 Travis Donahue (951) 371-4900 Broadcast System Integration Services

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David R. Gunderson - Minden, NE Sarah Hill - Folsom, CA Sean M. Hillman - FPO, AE Ronald F. Krauss - Youngstown, OH Joseph A. Metzger - Mountain View, CA

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## **New Student Members**

Michael J. Benonis - Blacksburg, VA Nicholas M. Righi - Ithaca, NY Kaitlin W. Blaylock - Cherokee, NC

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