SBE

the

DECEMBER 2008

Volume 21, Number 6

Learn about 'Continuing the Digital Transition' at the Ennes Workshop at the 2009 NAB Show

2008 National Meeting Complete Coverage

Nominate an engineer or chapter for the 2008 National Awards



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BIMONTHLY PUBLICATION OF THE SOCIETY OF BROADCAST ENGINEERS SBE Webcast kicks off National Meeting



President Barry Thomas, CPBE, CBNT and Vice President Vinny Lopez, CEV, CBNT answer questions live on the SBE National Webcast on October 13. The archive of the webcast can be viewed by clicking the link on the SBE website at www.sbe.org.

See NATIONAL MEETING PHOTO SPREAD on page 11

Fellow nominations now open

BY Troy Pennington, CSRE, CBNT

Chair, SBE Fellowship Committee

Among the members in your chapter, there may be someone who has made a real difference in the chapter over a long period of time; someone who has exhibited a dedication to the advancement of the broadcast engineer, the field of broadcast engineering and the SBE itself. If you have such a person in your chapter, consider nominating him or her for the SBE Fellow rank of membership. The Fellow designation is the highest level of membership and recognition presented to members by the Society of Broadcast Engineers. Members of SBE may earn the Fellow rank through several paths of achievement including conspicuous service, valuable contributions to the advancement of broadcast engineering or its allied professions, or by disseminating their broad-

See FELLOW on page 3

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FELLOW from page 1

casting knowledge and promoting its application in practice.

To nominate a member, candidates must be proposed in writing by a voting member to the Fellowship Committee. The nomination must include a comprehensive professional history of the nominee and the reasons you feel the candidate is deserving of this honor. The nomination must also include the written endorsements of at least five

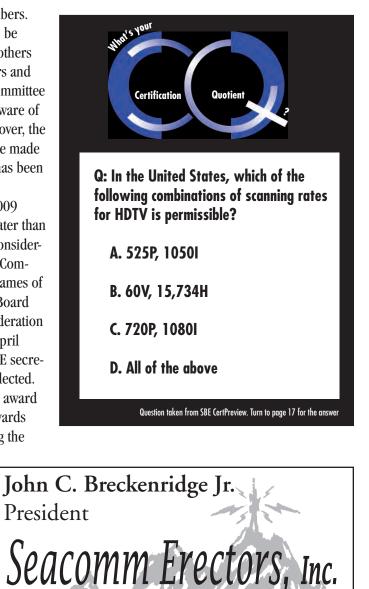
other voting SBE members. All nominations are to be kept confidential. No others besides the nominators and the SBE Fellowship Committee members should be aware of the nomination. Moreover, the nominee should not be made aware that he or she has been nominated.

Nominations for 2009 must be received no later than March 31, 2009 for consideration. The Fellowship Committee will bring the names of nominees to the SBE Board of Directors for consideration and election at their April 2009 meeting. The SBE secretary will notify those elected. They will receive their award at the SBE National Awards Dinner next fall during the

2009 SBE National Meeting (location to be determined as of this writing).

Seventy members have been recognized with the Fellow honor in SBE's almost 45 years of existence. If there is a member in your chapter who has provided distinguished service in the field of broadcast engineering or to the chapter or at the national level, this is an opportunity for your chapter members to prepare a nomination for that person.

Nominations for Fellow are to be submitted to Fellowship Committee Chair: Troy Pennington, CSRE CBNT, 6156 Hampton Hall Way, Hermitage, TN 37076 or to troy.pennington@cumulus.com.



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Get involved and help the Society

SBE President

eparately in The Signal and in the SBE-news e-mail newsletter we've reported on changes the SBE Board of Directors made to the SBE Government Relations Committee structure. As a result of this change I'd like take this opportunity to tell you a little about how the Society business gets handled. Let's call this a civics lesson on the SBE. The full board of directors – those who were sworn in during the SBE National Membership meeting Madison, Wis. - the officers, directors and immediate past president serve as volunteers. That's 17 people plus our general counsel and executive director. In order to keep our volunteer's travel costs reasonable the Board typically meets in person twice a year: at the NAB Show in the spring and at the National Meeting in the fall. We can meet by teleconferences, but you can imagine that 19 people on a teleconference is difficult to handle with more than one or two items on the agenda.

A subset of the Board of Directors is the Executive Committee (EC). This is comprised of the four officers, the immediate past president and two members of the board of directors. The EC meets in person twice a year as well: once in January and once in June. The EC addresses board actions between the spring and fall board meetings.

Outside of that, the authority of the board falls to the president. It's the president's job to act on behalf of the board for the 361 days that the board or EC is not meeting.

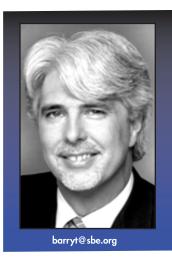
Any EC or presidential action is subject to review by the full board at its next meeting. Full board meetings can be called by only a small number of board members but there is a long lead time required so everyone can be properly informed. So; the board meets twice a year... The EC meets twice more....The president has a paying job as well. You've met or heard about our national staff in Indiana. How does the Society work through its difficult decisions and challenges? The board committees. Each board member is expected to chair either a "standing" committee – one specified in the SBE by-laws – or a committee that is otherwise authorized by the board. That is where the new work of the national Society is developed!

The other day I was describing the role of a committee: It operates as an "execution" arm of the board of directors. A committee is responsible for identifying and researching issues, recommending board action, then actually carrying out the decision laid out by the board of directors. It is both input and output of the board's efforts.

It's more, though. In the May issue of The SBE *Signal* I talked about the genesis of every great program this Society has undertaken; all the way back to the formation of the Society itself. We depended on member champions. Those member champions, however, are surrounded by committees.

Whenever there is a new effort for the Society, it generally starts with the member champion, but then it falls to the volunteer committee to develop. This is important. This is where "proof of concept" is worked out. This is where the objectives and partners are identified. Essentially everything that it takes to get a program or idea off the ground works through the committee.

You'll notice that I'm not talking about the SBE staff yet. The national staff is dedicated to executing all our current long-standing and effective programs and has limited bandwidth to develop new ones. This is the case with organizations such as ours. In the early



stages of a new program, John Poray is a facilitator, but the staff is not in the position to drive the program; the committee must do that.

There is a time for all successful programs when it is handed over and becomes a staff function. Prime examples include Certification and Membership, and hopefully, Education someday soon, but that does not happen until the program is already made a success by the volunteer committee.

So here's where we need your help. On the SBE website you will find the list of the chairpersons for the national board committees. Each of these chairpersons is responsible for a vibrant part of what makes our Society work. I ask you to look into these committees; offer your services, help in every way you can. Get involved in developing the next great program and effort for the Society.

If you're not sure what the committee does, take a look at the board meeting notes. These notes now include the reports written by these committee chairs. That's a really great way to get some insight on what it takes to do this. Still not sure? The chairperson's e-mail is right there on the list of committees. More questions or comments? E-mail me: barryt@sbe.org or president@sbe. org.

Better yet; let's talk about it on the SBE Roundtable! www.sbe.org/Roundtable.php

"CONTINUING THE DIGITAL TRANSITION" to be Ennes Workshop topic

he Society of Broadcast Engineers (SBE) is serving again as the organizing partner with NAB for the upcoming NAB Broadcast Engineering Conference (BEC) at The 2009 NAB Show, to be held April 18-23 in Las Vegas. SBE will present the annual Ennes Workshop which will kickoff the BEC with a special all-day program titled, "Continuing the Digital Transition"

SBE member, Lew Zager is organizing the workshop with assistance from SBE member and Ennes Trustee, Fred Baumgartner, CPBE CBNT. Many of the attendees of the PBS and NPR Engineering Conferences will be attending the Ennes Workshop again this year.

This year's Ennes Workshop will be on Saturday, April 18 from 8:00 am to 5:00 pm at the Las Vegas Convention Center. With the February 17, 2009 analog shut-off and the continuing transition to HD radio, broadcast engineers have much to keep up with. This year's SBE/ Ennes tutorials directly address the issues of the transition, with some of the most recognizable presenters in the industry.

The Workshop will open at 8:00 am with Digital Transmission 101 with speaker Daun Yeagley covering the basics of digital transmission, including modulation systems now commonly used for terrestrial and satellite transmission. Various techniques in QAM, PSK, 8VSB, COFDM, OFDM (IBOC radio) will be covered.

Next, Mike Starling of NPR will cover IBOC Performance: The 1% or 10% Solution, followed by a representative of iBiquity and his presentation, IBOC Works or IBOC's Opportunities. Back to TV with a session on DTV Transition Status.

Jay Adrick of Harris will then take over with Mobile/Handheld Transmission for DTV. After Jay, we'll hear from Rich Schwartz of Axcera, who will cover DTV Translators, On Channel Repeaters and Single Frequency Networks.

A presentation on DTV Maximization: The Value of the Power, will wrap up the day with Antenna Optimization for DTV.

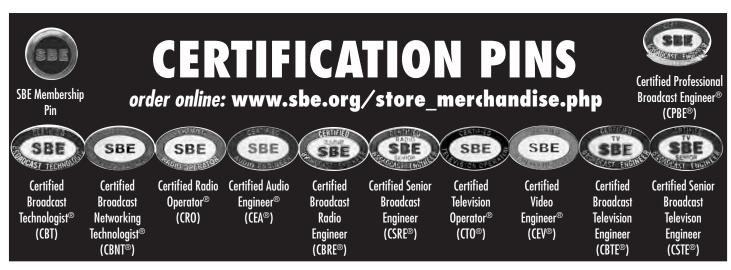
Since 1989, the Ennes Educational Foundation Trust has sponsored more than 65 educational workshops and tutorials. The annual NAB Las Vegas Ennes Workshop is always well attended and one of the highlights of the NAB BEC.

To attend the Ennes Workshop during the NAB BEC, you must be registered through NAB for the full Broadcast Engineering Conference. Watch for a complete program description in the February issue of The SBE Signal and in January, on the SBE website, www.sbe. org.

A nine-member committee, chaired by Joe Snelson, CPBE of Meredith Broadcasting, along with NAB staff and SBE/ Ennes representatives, are engaged in the planning the six-day BEC. Other members of the committee include: Dom Bordonaro, CSRE, Cox Radio; Michael Cooney, CSRE, Beasley Broadcast Group; David Folsom, Raycom Media; Thomas Hankinson, ABC; Andy Laird, Journal Broadcast Group; Glenn Reitmeier, NBC Universal and Jeff Smith, Clear Channel Radio.

Working with the committee in addition to SBE/Ennes representatives Lew Zager, LZ Solutions and Fred Baumgartner, CPBE are John Marino of NAB and John Poray of SBE.

Papers for the conference were recently selected by the committee. The complete program will be available on the NAB website, www.nab.org, in January. Registration and hotel information can also be found at the NAB website.





Draw your lines

BY Chris Imlay, CBT SBE General Counsel

became a huge fan of Soccer, or Futbol as it is more properly known, long after I played it myself in high school and college (not

well in either venue, I admit). What got me hooked on "the beautiful game" was an education that I received as a parent of a high school soccer player over the past four years or so. Coach Eduardo Polon taught the game to spectator-parents in the course of teaching it to the student-athletes. He is a tactical genius as well as a master at motivating adolescent males (a difficult task). One of the things Eduardo said often to our team's players during a game, after an offensive attack on the opposing team's goal had been successfully defended, and the ball was about to be punted or thrown back downfield by the opposing team's goalkeeper, was to "draw your lines" – meaning that our players had to visualize an imaginary line between themselves and the potential recipients of the ball, and another between the holder of the ball and the same potential recipients of the ball, and to follow those lines to their intersection to intercept the ball timely, so as to get it back before the other team could get possession and create offensively.

We are now in that position in the TV White Spaces proceeding. Predictably, the FCC issued on November 5, 2008 a news release (and at this writing, that is all they have done) saying that they have adopted a Second Report and Order incorporating final rules for unlicensed use of television "white spaces." I say that this was predictable because FCC-watchers saw it coming a mile away. The FCC has been frustrated for years at the United States' slow progress toward broadband rollout, and the Commissioners on both sides of the political spectrum are doing everything that they can do to accelerate broadband, in urban, suburban, exurban and rural areas - especially rural areas. I have watched FCC put its head down, ignore any technical obstacles in its path, and allow broadband technologies to proceed with minimal regulatory constraints. Make no mistake: this is, for a student of spectrum management and for broadcast engineers familiar with the technical problems associated with some technologies, ugly rulemaking.

But it was predictable, indeed. It started with FCC Chairman Michael Powell, who came to the conclusion that there really wasn't any spectrum shortage; new uses could be "overlayed" on spectrum allocated to or occupied by incumbent licensees or other users, thus increasing the efficiency of spectrum use and allowing new services. The problem was in establishing the compatibility of the "overlays." Powell also coined the term "white spaces" to describe television channels not occupied by over-the-air television stations, due to the old "taboos" in given markets. The term describes an assumption that was never verified by FCC: it presumes that there in fact are unused television channels in a market. Engineers scoffed early on at the "white spaces" concept, thinking that surely, any fair evaluation of the uses made of channels not occupied by full power television stations would reveal the truth and that FCC would do the right thing. We know that, for example, In most major markets, there are no vacant channels; on the few that are not occupied by Full Power TV, LPTV, Class A TV or TV translators, there are LP Auxliary devices.

FCC didn't do the right thing, however, and they had to stray pretty far from the evidence they had in front of them to get to the point of the Second Report and Order. FCC's own engineers had on October 15, less than a month before the November 4 decision to authorize White Spaces devices (WSDs) on an unlicensed basis, released a report (Evaluation of the Performance of Prototype TV-band White Spaces Devices, Phase II, Report # FCC/OET 08-TR-1005) showing that White Spaces devices pose a potential risk both to TV reception and to wireless microphones. The report showed that WSDs have a substantial potential to cause interference to licensed radio services, especially when an adjacent TV channel is in use. The report's executive summary concluded, however, that white space proponents had shown that the basic concept was sound. That is a far cry from finding that WSDs can protect licensed radio services from interference. The devices, according to the report, are not ready for prime time. Somehow, however, FCC is sure that they will be.

So the FCC did something really weird: they decided to go ahead with the plan to allow WSDs, but said they would put in extra procedures, not before used, to deal with the interference potential of the devices on a case-by-case basis. They are comfortable ignoring the interference potential now, because they can deal with it when deciding whether to authorize individual devices later. FCC (in effect) put off the hard technical decisions by adding extra layers to its approval procedures for white space products. WSDs that rely on sensing the spectrum for TV and microphone signals will (1) have their applications released for public comment before they are authorized; (2) they will be tested by FCC in real-world environments; and (3) they will require approval by the full FCC, not just the engineering staff. The devil is in the details here, folks, and they aren't yet telling us what those details are. Item 3 should scare you the most. Envision Microsoft coming in to FCC claiming that they

have fixed the problems with their devices. (Here is a direct quote from the FCC's October 15 report on WSDs: "During the course of these measurements, the Microsoft prototype sample device began to malfunction and eventually ceased to operate, necessitating the abandonment of further measurements utilizing this device."). Are the FCC Commissioners going to be in any position to tell Microsoft that the WSD should not be approved? Of course not. Draw your lines.

WSDs that rely on "geolocation" – i.e., on location-finding via GPS, coupled with a database look-up for available channels – will have an easier approval process, on the theory that the technology has fewer unknowns. But indoor use of GPS is questionable, and it is unclear how often the database that is to be used to determine the locations of full power TVs, LPTVs, Class A TVs, TV Translators and other fixed facilities will be updated, and how often a user of a WSD will in fact update the database. Of course, the FCC has no control over the user of an unlicensed, mobile device, and there is no reason to believe that a user will in fact do the "right thing" and update the device from the online lookup so that the GPS location-finding function will be meaningful.

In any case, the FCC news release makes warm, fuzzy assurances about the ability of WSDs to protect wireless microphones. Here is what it says: "Wireless microphones will be protected in a variety of ways. The locations where wireless microphones are used, such as sporting venues and event and production facilities, can be registered in the data base and will be protected in the same way as other services. The Commission also has required that devices include the ability to listen to the airwaves to sense wireless microphones as an additional measure of protection for these devices." Really? Here, by stark contrast, is what the FCC Office of Engineering and Technology found about the same subject, after doing actual tests on prototype devices:

Wireless microphone sensing tests were performed with the I2R and Philips devices at 2 locations. The tests were conducted first with microphones off, and then turned on, in pre-determined channels to determine if the devices could sense the presence of wireless microphones. At both sites and all the test locations, the Philips device reported all the channels on which the microphones were designated to transmit as occupied whether the microphone was transmitting or not. The I2R device indicated several channels as available even when the microphones were on. *****

Additionally, during two of the field tests of the of the white space devices' ability to detect TV signals, brief tests were conducted to check the ability of the Philips and the I2R devices to detect wireless microphones. At the Portals location, it was found that the Philips device could detect

the Shure UR1 and the Lectrosonics UM 700 microphones at distances up to 30.5 meters (100 feet) within the building with intervening walls. The I2R device reported detection of the Shure UR1 with less than 100% probability at 4.6 meters (15 feet) or less but could not detect the microphone at 30.5 meters (100 feet). The I2R device reported detection of the Lectrosonics unit with 100 % probability at distances up to 6.1 meters (20 feet) but with only 60% probability at distances of 30.5 meters (100 feet) and 61 meters (200 feet). At the #3 test site, a residential location, the Philips device could not be tested because it indicated that all channels were occupied. At this location, the I2R device could not detect the Shure UR2 even as close as 1.5 meters (5 feet) but it could detect the Lectrosonics UM 700 at distances up to 15.2 meters (50 feet) where the reported probability of detection decreased to 50%.

No reasonable person could read these test results and then arrive at the conclusion that WSDs are going to be able to protect wireless microphones from interference at normal ranges. Why wouldn't the FCC hold off on the decision to allow these devices until they could get a sense of what interference protections are actually going to be available? Because the politics got in the way, that's why. FCC, having made a big deal about BPL, which as a broadband delivery mechanism has failed miserably, is tripping over itself to stand down on any regulatory impediments toWSDs in television spectrum, regardless of the interference potential. Draw your lines.

It really is an eve-opener to read, first, the FCC October 15 report (which you can do on the FCC web page) on WSD tests, and then read the November 5, 2008 Public Notice. This, like the BPL decision, shows the toxicity of the FCC's recipe for mixing engineering and politics. They haven't been mixing very well at the FCC lately, which is unfortunate, because they used to. So what do we do now? File a petition for reconsideration with the FCC? Maybe; it is too early to tell, because we have to see the Second Report and Order first. Maybe we will have to comment on individual WSDs as they are proposed by the manufacturers, but be ready for some serious battles, and heavy lobbying by the big boys: Philips, Motorola, Microsoft. Will technical facts rule the day in those device-by-device battles, in an area where the Commissioners, have already shown themselves to be willing to ignore their own engineers' test results, and have drawn conclusions based on a policy of "broadband, are going to be deciding whether individual devices have substantial interference potential to television receivers and wireless microphones. Don't bet on it. We will have to watch each one. Draw your lines.

What does your certification say about you?

BY Cris Alexander, CPBE, AMD, DRB

Director of Engineering, Crawford Broadcasting Company

hat does SBE certification tell me about a person? First, it tells me that they recognize the value of certification and the value of the SBE as a certifying and standards-setting organization that is, in essence, the authority on what level of expertise constitutes a "broadcast engineer."

It also tells me that the person has exhibited a certain level of expertise pertinent to the certifications that he or she holds. As a manager, I know that I can hire that person and expect him or her to perform to that level. In our company, we require SBE certification of all our chief engineers and encourage it for all other engineering staffers. The higher the certification level of an employee-candidate, the more qualified I assume he or she is for the position.

Specialist certifications tell me a good bit more about the person. A person holding a specialist certification has demonstrated specialized knowledge in a certain area – networking (CBNT), digital television (8VSB), digital radio (DRB) or AM directional (AMD). If I am looking for an engineer in one of our AM-heavy markets, the candidate with the AMD has a leg up on all the candidates without. Likewise, in markets where we operate digital stations (which is just about all of them), the candidate with the DRB specialist certification will move up the list ahead of those without. And in today's IT-intensive broadcast environment, the CBNT-holding candidate is way ahead of the game.

So certification is a primary screening and qualifying tool that my company uses in the hiring process, and rightly

so. But what about existing employees? What does certification tell me about the person who may have been working for us for years?

That person's certification level and history tells me a lot about his or her drive, work ethic and enthusiasm for the job. Take for example the otherwise very qualified and very experienced chief engineer who had been grandfathered into his employment sans certification for many years. When he went out and got his CSRE and then followed that up with CBNT and AMD specialist certifications, that said something about his leadership. By obtaining those certifications when he really didn't need them to keep his job, he led by example and several of his engineering staffers followed him to their own certifications.

I certainly consider those things during annual employee reviews. An employee who has gone out of his or her way to demonstrate to me and the company that they are actively improving their professional pedigree and thus their value to the company gets an extra mark in the

"assets" column during the review. As I deal

with engineers



at other companies, those certification marks after their names tell me something about them as well. Their certification tells me I am not dealing with a hobbyist that likes to play with broadcast equipment but rather a certified broadcast engineer, someone who not only has the knowledge and skills to be a real broadcast engineer but who has also taken the time and gone to the trouble of getting the credentials to go with that knowledge and those skills.

Finally, whether I am dealing with a job candidate, an engineer within our company or someone on the outside, those certification marks tell me that their level of certification notwithstanding, I'm dealing with a professional. Certified broadcast engineers are broadcast engineers who take their occupations seriously. That's the kind of people I like to work with.

SBE Certification 2008-09 Exam Schedule

Dates

February 6-16, 2009 April 21, 2009 June 5-15, 2009 August 7-17, 2009 November 6-16, 2009 Location

Local Chapters NAB **Local Chapters Local Chapters Local Chapters**

Application Deadline

December 31, 2008 April 1, 2009 April 17, 2009 June 5, 2009 September 18, 2009



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.

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Applicant must have had 20 years of professional broadcast engineering or related technologies experience in radio and/or television. The candidate must be currently certified on the Certified Senior Broadcast Engineer® level.

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Chapter 59 Reginald Wallace, Bluesprings, MO – Chapter 59

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Gregor Corns George Dominguez Jeremy Hale John Mongiardo Thy Nguyen Juan Carlos Rivas Eduardo Sanchez Stephan Vickers Nori Zahari

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®) Mark Quella, Watertown, MA – Chapter 11

CERTIFIED SENIOR TELEVISION ENGINEER (CSTE®)

Marshall Michel, Missouri City, TX – Chapter 105

CERTIFIED BROADCAST RADIO ENGINEER (CBRE®)

James Ferguson, Mount Vernon, OH – Chapter 52

CERTIFIED BROADCAST TELEVISION ENGINEER (CBTE[®])

Jason Barger, Castle Rock, CO – Chapter 48 Cristie Ogden, Riverside, CA – Chapter 131 Kevin Olden, Adrian, MI – Chapter 104 Vladimir Tuzkov, Fountain Valley, CA – Chapter 47

CERTIFIED BROADCAST RADIO ENGINEER (CBRE®) AM DIRECTIONAL SPECIALIST (AMD) Walter Sewell, Belleville, IL – Chapter 55

CERTIFIED AUDIO ENGINEER® (CEA®) Vincent Piantanida, San Francisco, CA – Chapter 40

CERTIFIED VIDEO ENGINEER® (CEV®) Mark Friedman, Green Bay, WI – Chapter 80

CERTIFIED BROADCAST NETWORKING TECHNOLOGIST® (CBNT®)

Mark Friedman, Green Bay, WI – Chapter 80 Charles Keiler, Fort Lauderdale, FL – Chapter 53

Kate Landow, Denver, CO – Chapter 48

CERTIFIED BROADCAST TECHNOLOGIST® (CBT)

Robert Bertrand, New Brunswick, NJ -Chapter 15 Aaron Brodie, Alpharetta, GA - Chapter 5 James Clarke, Valley Stream, NY -Chapter 15 William Ingram, Cleveland, TN -Chapter 105 W. David Johnson, Columbus, OH -Chapter 52 Kate Landow, Denver, CO – Chapter 48 Kathie Lindsley, El Cajon, CA – Chapter 36 W. Mark McKibben, Chatsworth, CA-Chapter 47 Paul Marcontell, Seattle, WA – Chapter 16 Michael Matovich, Portsmouth, VA-Chapter 54 Kathleen Morgain, Skamokawa, WA -Chapter 16 Carlton Reis, La Mesa, CA - Chapter 36

CERTIFIED TELEVISION OPERATOR® (CTO®)

Chris Homer, Playa Vista, CA – Chapter 47 Charlina Johnson, Altadena, CA Lua Kozlow, Durham, NC Tiffany McKoy, Raleigh, NC John McLaughlin, Raleigh, NC Santiago Torre, Miami, FL Elizabeth Vega, Hialeah, FL

SBE Board of Directors Changes Legal Advocacy Program

t the Oct. 14, 2008, meeting of the SBE Board of Directors, the group abolished a set of internal guidelines for the FCC Liaison Committee filings. The FCC Liaison Committee is typically responsible for drafting FCC Filings on behalf of the Society. These guidelines had been developed over several years and encompassed several mechanisms to insure, among other things, board oversight. After thorough review, the Board of Directors felt that these guidelines were not the most effective way to achieve those ends and voted to rescind them.

The Board also enacted a change to the SBE By-Laws to change the name of this committee to the Government Relations Committee. This change was made to better describe the work the committee was actually doing; working with many government entities, Department of Defense, FCC, Congressional subcommittees, etc.

During that meeting, the Board of Directors ratified the appointment of SBE Past President Richard Rudman, CPBE, as chair of this important committee. During 2008, the preceding FCC Liaison Committee was directed by Interim Chair and SBE General Counsel Chris Imlay.

All of these changes were made to chart a new course for the Society's government relations efforts and refocus the Society's advocacy program to become more effective and member-focused. The Board of Directors decided that current realities require a fundamental change in how the SBE participates in industry regulatory issues, depending on collaboration with strategic partners in addition to FCC filings. Presently, the SBE works with many partners, including the NAB, NASBA, MSTV, DoD and DHS/FEMA, and has consulted with members and staff of both Senate and House committees. The SBE is in the position of providing technical support and information to allied organizations with equal or greater political influence, and thereby become more effective in achieving legislative goals. Essentially, gone are the days where the SBE can make a filing to the FCC and win on logic and sound engineering alone. We need to change our tactics to be effective. The Board was in agreement that the change needs to be in the form of collaboration.

Finally, the Board of Directors instructed the newly renamed Government Relations Committee to develop an annual *Legislative Agenda*. This will be a board-approved, annual outline of the SBE's legislative goals. The board instructed that: "Committee actions should be directed, as much as possible toward the interest and greatest impact of and to our members. Great care is to be taken to insure these issues are specifically related to our members and their concerns, possibly to the de-emphasis of 'industry' concerns as they may not have a close enough relationship to our membership's concerns."

Watch this space and SBE-news for more information about the legislative agenda. If there are issues in which you feel the Society should be active, please contact Government Relations Committee Chair Richard Rudman through his contact information at www.sbe. org/about_committee.php. Also, you're encouraged to discuss and debate issues like this on the SBE Roundtable (www. sbe.org/Roundtable.php). The national leaders of the SBE read and participate in this forum and will appreciate member insights when determining issues for which the SBE will advocate.



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purchasing decisions. If you're not already hearing from them, perhaps it's time you put your message where our members will see it! Contact Holly Essex at hessex@sbe.org or call 317-846-9000 and be in the next issue of the Signal.



Donald C. Borchert received recognition for chairing the Broadcasters Clinic from President Barry Thomas, CPBE, CBNT. Chapter 24 Chair Dennis Baldridge looks on.



SBE members and guests attend the 2008 SBE National Awards Dinner. This annual event was held at the Marriott Madison West Hotel in Middleton, Wis, as part of the SBE National Meeting, in conjunction with the Wisconsin Broadcasters Clinic on October 14-15.



SBE member Dennis C. Baldridge, CPBE, AMD, CBNT, Immediate Past President Chriss Scherer, CPBE, CBNT and SBE Executive Director John Poray, CAE created the band, Sticks and Bones, to share their musical talents during the SBE Awards Reception on October 15.



The new 2008-09 SBE Board of Directors was recognized after the new directors were inducted. (L-R) Immediate Past President Chriss Scherer, CBPE, CBNT; Jim Bernier, CPBE, CBNT; Jeff Smith, CEA, CBNT; Scott Mason, CPBE; Andrea Cummis, CBT, CTO; Mark T. Simpson, CPBE, CBNT, AMD; Treasurer Ralph Hogan, CPBE, DRB, CBNT; Gary Liebisch, CPBE; Clay Freindwald, CPBE; Vice President Vinny Lopez, CEV, CBNT; Cris Alexander, CPBE, AMD, DRB; President Barry Thomas, CPBE, CBNT; and Jerry Massey, CPBE, CBNT, 8-VSB, AMD, DRB.





Left: Honorary member Richard D. Cupka, Sr. was the keynote speaker for the Annual SBE Awards Dinner.

Above: President Barry Thomas, CPBE, CBNT presented Cupka with a special plaque recognizing his 43 years of teaching leader skills to broadcast engineers.



Left: Ennes Trustee, Douglas W. Garlinger, CPBE, CBNT, 8-VSB, tpresented a check for \$10,000 to SBE in support of its education program.

Below Left: Garlinger giving the donation to President Barry Thomas, CPBE, CBNT.



Above: Cris Alexander, CPBE, AMD, DRB accepted the award for Broadcast Engineer of the Year presented by President Barry Thomas, CPBE, CBNT.

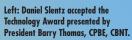
Left: Broadcast Engineer of the Year Cris Alexander, CPBE, AMD, DRB gave thanks after receiving the honor.





Above: Immediate Past President Chriss Scherer, CPBE, CBNT accepts the award for Best Technical Article on Doug Irwin's behalf, presented by President Barry Thomas, CPBE, CBNT.

Left: Karen Schaeffer of Iowa Public Television accepted the Award for Educator of the Yaer on William T. Hayes' behalf, presented by President Barry Thomas, CPBE, CBNT.





Jim Leifer, CPBE won the door prize of 16 GB Apple iPod Touch donated by Microwave Radio Communications, presented by President Barry Thomas, CPBE, CBNT.



Dennis C. Baldridge, CPBE, AMD, CBNT, chairman of Chapter 24, Madison, accepted the Chapter Award for Higest Member Attendance from President Barry Thomas, CPBE, CBNT.



Bill Magliocco, CPBE, 8-VSB, CBNT chairman of Chapter 5, Atlanta, accepted the Chapter Award for Most Interactive Chapter from President Barry Thomas, CPBE, CBNT.



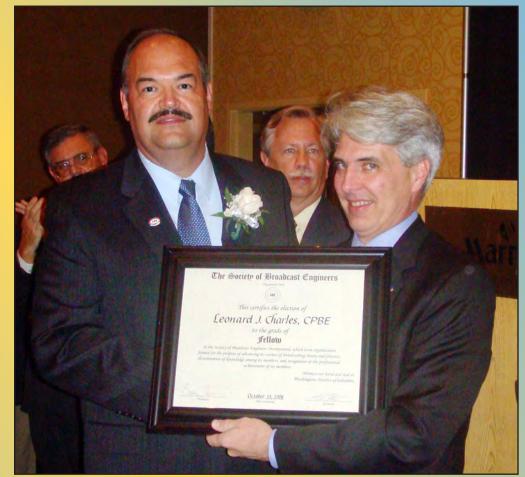
Vice President Vinny Lopez, CEV, CBNT accepted the Award for Best Regional Convention or Conference for Chapter 22, Central New York, presented by President Barry Thomas, CPBE, CBNT.



Clay Frienwald, CPBE accepted the Chapter Award for Greatest Growth in New Members for Chapter 16, Seattle, presented by President Barry Thomas, CBPE, CBNT.



Dennis H. Orcutt, CPBE accepted the award for Best Frequency Coordination Effort for Chapter 85, Central/Western, Okla., presented by President Barry Thomas, CPBE, CBNT.



Leonard J. Charles, CPBE, was presented a certificate by President Barry Thomas, CPBE, CBNT honoring him as the newest SBE Fellow.

in the Circle a snapshot of an SBE Member

Louis "Lou" R. Sabatini Jr. CSRTE

Production Audio Supervisor ABC/Disney WLS TV Palos Park, IL SBE Chapter 26, Joined SBE in 1989

Getting Started: When I was 10, my uncle (who was a HI FI nut and ham operator) had a Webcor tape recorder that I would mess around with and I was hooked on audio. Later in high school, I hung around the local radio stations, made trips to transmitter sites and would make the pilgrimage to WLS on Saturday to press my face against the glass and take it all in. At 18, I received my first pay check as a DJ at WGSB in Geneva, Illinois.

Job Satisfaction: The new era of digital television and audio is challenging and I love to learn new stuff. Disney has been on the cutting edge here in Chicago.

You May Not Know ... In 1984 I was part of the Emmy Award winning ABC Engineering team at the Summer Olympics in LA. I was mixing audio at the Boxing Venue working with Howard Cosell.

When I'm Not Working: Enjoy spending time with my family, ham radio, especially CW, and restoring and collecting vintage microphones.







Resume Bank Deposit your resume where prospective employers can view your profile and make a withdrawal from SBE. For information on submitting or accessing resumes, contact Scott Jones at kjones@sbe.org or visit: www.sbe.org/career_resume.php

Jobs ONLINE Check out the latest broadcast industry job openings across the nation. For information on submitting or accessing positions, contact Scott Jones at kjones@sbe.org or visit: www.sbe.org/career jobsonline.php

Internships Online Let students know the opportunities you have available and place an internship opportunity on the SBE InternshipsOnline webpage. For information on submitting or accessing positions, contact Scott Jones at kjones@sbe.org or visit: www.sbe.org/career jobsonline intern.php

the **SIGNAL**

The Society of Broadcast Engineers would like to welcome its newest members to the organization:

New Members

Armando Gonzales - Wylie, TX Wilson S. Helmericks - Denver, CO Aaron Weitekamp - Lowell, MA Edward J. Adams - Rockville, CT Allan D. Freedman - Seattle, WA Dennis L. Kronenberg - Germantown, MD David W. Prenoslo - Edmonton, Alberta, Canada Timothy Ames - Watertown, NY Jamie D. Pyles - Lexington, KY Larry C. Whately - Gladys, VA Steven P. Cordova - San Francisco, CA Patrick Gleason - Midvale, UT Andrew C. Stern - San Francisco, CA Thomas Lewandowski - Perrysburg, OH Chris L. Connely - Clovis, CA Randall L. Greenly - St. Paul, MN Dennis R. Perry - Sequim, WA Drew D. Pinkney - Napanoch, NY Ricardo GM Ramos - Foz Do Iguacu, Prana, Brazil Dana A. Swann - Ellicott City, MD Ka Ho Thai - Hong Kong Kam Tsz Kin - Hong Kong Hing Sung Yeung - Hong Kong Joseph J. Zeppuhar - Cocoa Beach, FL Erika D. Byers - Kansas City, MO Thomas J. Campbell - Kansas City, MO Mike Dausend - Valley Springs, CA R. Scott Green - Kansas City, MO Jack L. Hansen - Blue Springs, MO Daniel M. Juric - Parkville, MO Adam J. Lancaster - Bakersfield, CA Ken Moore - Ojai, CA Brian N. Siegelwax - Fort Bragg, NC Christopher L. Whitfield - Largo, MD

Patrick Young - Boise, ID William L. Blum - San Francisco, CA Eamon M. Coyne - St. Paul, MN Jenna E. Hendershot - Silver Spring, MD Mick Rush - Antelope, CA Mark S. Steers - Raymore, MO Monte A. Wachter - Freeman, MO Kurt J. Billings - Knoxville, TN Steve Millard - San Ramon, CA Hans J. Reiche - San Marcos, TX William R. Shultz - Morgantown, WV Douglas A. Thompson - Osceola, WI Jeffrey C. Cave - Kennesaw, GA Mark J. Kaska - Orlando, FL M. Sajid A. Malik - Riyadh, Saudi Arabia Gayle Scott - Stillwater, OK William Stanton - North Branch, MI Gregory M. Stone - Madison, VA Michael S. Watson - Tallahassee, FL Jeff Welton - Hackett's Cove, Nova Scotia, Canada Mark Carey - Frankfort, IL Brent Haun - Lincoln, NE Mark Jahnke - Chicago, IL Richard A. Lindley - Albion, MI William A. Lissemore - Dumont, NJ A. J. Roberts - Edmonds, WA James R. Bunch - Greeneville, TN Skip Erickson - Golden, CO Doug Holland - Birmingham, AL Michael Marshall - Tallahassee, FL James D. Roethig - Boise, ID

New Student Members

Timothy G. Cappalli - North Kingstown, RI Jason J. Ornellas - South San Francisco, CA Kirstie Williams - Boise, ID Arun Khanna - Mississauga, Ontario, Canada Michael Stellino - Pennington, NJ Dale Comer - Burien, WA

New Associate Members

James P. Harrington - Grand Rapids, MI Kathy Haley - Wynnewood, PA Michael Klickstein - Costa Mesa, CA Erin P. Rice - Lexington, KY

Reinstated Members

PKenneth B. Romans - Scappoose, OR Bill Whitford - Lilburn, GA Michael D. Halleck - St. Paul, MN Patrick G. Appleson - Hickory, NC David R. Krauskopf - Austin, TX Jason M. Gorodetzer - Ithaca, NY Don A. Pettifor - Goshen, IN Charles A. Roberts - Milford, PA Deidric S. Cave - Fort Washington, MD Thomas P. Wagner - Belgium, WI Kevin A. Plumb - Trumbull, CT Bachar H. Dib - Safat, Kuwait Adam L. Daniel - Tacoma, WA Robert A. Guzman - Las Vegas, NV Gregory S. Laughrin - Albuquerque, NM Laura B. Mir - Silver Spring, MD Sean S. Carpenter - Clearwater, FL Michael S. Ridley - Welland, Ontario, Canada

Many to thank

BY John L. Poray, CAE

SBE Executive Director

The SBE National Meeting in Madison, Wis., held October 14-15, was a big success and there are number of people and organizations that deserve our thanks.

We began the week prior to the National Meeting with the 2nd Annual SBE National Webcast on Monday, October 13, from the facilities of Wisconsin Public Television. What a great organization this is and we are indebted to WPT for the use of their facilities and to Paul Stoffel, CPBE, Engineering Supervisor and his crew for their time and effort to make this possible. Production staff from WPT included Steve Doebel. Director: Steve Lukes, Production Supervisor; Kurt Kaspar, Technical Director; Curt Sorensen, Audio Operator; Joe Tannerbauer, Video Operator; Russ Awe, Tape Operator; Tom Bruno, Floor Manager; Mike Norton, Messaging Support; Vicki Kipp, Windows Media encoder and satellite uplink; Jennifer Hadley, Graphics; Nate Richter, Camera, Adam Bliefernicht, Teleprompter.

Also assisting the production as camera operators were Steve Paugh and Jim Hermanson from WISC-TV. Handling the telephones and email, Instant Messaging, etc. were Greg Noggle of Chapter 24 and Megan Clappe and Holly Essex of SBE.

Our thanks also go to, The Space Connection, which donated satellite time and to seven corporate sponsors, whose financial support made the show possible. That group included Acrodyne, Broadcast Electronics, Continental Electronics, Microwave Radio Communications, the National Football League and WSI Lighting.

The National Meeting, which began

on Tuesday afternoon and ran through Wednesday evening, was made possible with the support of Chapter 24 of Madison and the Wisconsin Broadcasters Association, organizers of the annual Broadcasters Clinic. We were pleased to be working with the Broadcasters Clinic this particular year as it was the 33rd and final one for Clinic chairman, Don Borchert. Our thanks to Don and

next year's Clinic chairman, Leonard Charles as well as to Chapter 24 chairman, Dennis Baldridge



jporay@sbe.<u>org</u>

and WBA vice president, Linda Baun for their work and support. We also thank our National Meeting corporate sponsors, which included National Awards

Board Approves Change to By-laws

The Board of Directors of the Society of Broadcast Engineers approved a change to the SBE By-laws on October 14, 2008. The change took affect immediately following the vote. The amended By-law is in Article VI., Section 2(f) and changes the name of one of the SBE' standing committees.

The former language of Article VI., Section 2:

The following Committees may be appointed by the President with consent and approval of the Board. The chairman of each committee shall be a Regular, Senior, or Life Member, and all officers shall be members <u>ex officio</u> of each committee. Appointees to the committees must be members of the Society.

(a) Nominations(b) Membership(c) Finance(d) Certification

(e) Fellowship(f) FCC Liaison(g) FrequencyCoordination

(h) Chapter Liaison(i) Education(j) Such other Committees as may be deemed necessary

The new language of Article VI., Section 2, effective October 14, 2008:

The following Committees may be appointed by the President with consent and approval of the Board. The chairman of each committee shall be a Regular, Senior, or Life Member, and all officers shall be members <u>ex officio</u> of each committee. Appointees to the committees must be members of the Society.

- (e) Nominations (f) Membership (g) Finance
- (h) Certification
- (e) Fellowship
 (f) Government Relations
 (g) Frequency Coordination
- (h) Chapter Liaison
 (i) Education
 (j) Such other Committees as may be deemed necessary

Dinner sponsor, MRC; Awards Reception sponsor, Trilithic and Fellows Breakfast sponsor, Scala Division of Kathrein.

The SBE Board of Directors met for its regular fall meeting during the National Meeting. Among the actions taken by the Board was the approval of an operating budget for 2009. The budget includes no changes to individual member dues levels (Regular, Senior, Associate, Student and Youth). An increase was approved, beginning January 1, 2009, for SBE Sustaining Members, our corporate supporters, from \$575 to \$600 per year. This will be the first increase in three years.

The Board approved a change to the By-laws, changing the name of one of our standing committees, the FCC Liaison **Committee, to Government Relations** Committee. The change was made following a recommendation made by the Executive Committee earlier in the year. The change reflects the more comprehensive role that committee will take in working on our legislative and regulatory agenda. You'll find more information about this change in the article, SBE Board of Directors Changes Legal Advocacy Program, on page 10 of this issue of the Signal. The official notice to members of the By-law change is in the side-bar article on page 16.

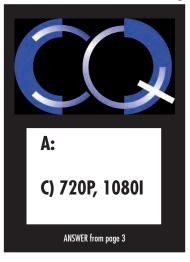
The Board also requested the By-laws Committee review and make a recommendation to the Board to lower the number of business days required to call a full meeting of the Board. The requirement is currently 21 business days. The Board would like to be able to move more quickly, when necessary, than the current By-law allows. It would permit the full 17-member Board to be engaged in more of the Society's policy decisions. The Board will next meet via conference call on November 25 and this item will be on the agenda for consideration.

On that same call, the Board will consider invitations from local chapters to host the 2009 National Meeting. Those chapters which hold regional events in September or October have been invited to submit invitations to be considered. An announcement about the location is expected shortly after the meeting.

SBE membership continues to track approximately the same as in 2007. At the end of October, 2008, membership stood at 5,363, which was 14 more than the same date in 2007. A good number of non-members attend the meetings of many chapters. Please take the opportunity to encourage them to join the Society. They'll gain full benefit of SBE membership while helping to pull their share of the load.

I've noticed a good number of chapters have recently held, or will be holding, special educational seminars or tutorials for their local members. I encourage all chapters to consider doing this in the next 12 months. There is no shortage of topics, TV or radio, and an ample pool of willing and capable speakers. It's a great way for SBE chapters to provide added value to local members. I'd like to hear from chapter chairs whose chapters have held a special half or full-day program during 2008 or have one on their calendar in the next 12 months. Please send me an email with the name of the seminar, the date and key instructor(s). We'll make these available as an idea list for others to benefit from.

I extend my best wishes to each of you during this holiday season and a Happy New Year! With the coming changes in Washington and the ongoing economic situation, it should be an interesting one.



2008-2009 SBE Committee Chairs

BE President Barry Thomas, CPBE, CBNT, has named the committee chairs for 2008-09 as listed below. The committees are responsible for developing SBE policies and programs at the national level. All committees report to the Board of Directors.

Awards Mark T. Simpson, CPBE, CBNT, AMD mark.simpson@citcomm.com

| Bv-Laws | Hal Hostetler, CPBE |
|--------------|---------------------|
| hhh@kvoa.com | |

CertificationJim Bernier, CPBE, CBNT jbernier@sbe.org

Chapter Liaison Christopher H. Scherer, CPBE, CBNT cscherer@sbe.org

EAS.....Clay Freinwald, CPBE k7cr@blarg.net

Education Cris Alexander, CPBE, AMD, DRB crisa@crawfordbroadcasting.com

Fellowship Troy Pennington, CSRE, CBNT troy.pennington@cumulus.com

FinanceJerry Massey, CPBE, CBNT, 8-VSB, AMD, DRB jmassey@entercom.com

Frequency Coordination...... Ralph Beaver, CBT bevo@mediaalert.com

Government Relations.. Richard Rudman, CPBE remotepossibilities@earthlink.net

Industry Relations Gary Liebisch, CPBE gary.liebisch@nautel.com

| International | Chuck Kellv |
|------------------------|-------------|
| chuck.kelly@nautel.com | , |

IT Strategy..... Chris Tarr, CBRE, CBT, CBNT chris@broadcastdoc.net

Marketing & PR Tom Ray, CPBE tomray@wor710.com

MembershipScott Mason, CPBE scmason@cbs.com

Nominations..... Christopher H. Scherer, CPBE, CBNT cscherer@sbe.org

Publications Andrea Cummis, CBT, CTO acummis@totalrf.com

Strategic PlanningVinny Lopez, CEV, CBNT vlopez@wsyt.sbgnet.com

Student Chapter SubcommitteeJeff Smith, CEA, CBNT jeffsmith@clearchannel.com

Sustaining Membership Scott Mason, CPBE scmason@cbs.com

SPOTLIGHT: HD Radio Implementation

THOMAS R. RAY III

HD Radio is the FCC-approved standard for digital radio. Since its official approval in 2005, stations around the United States have started converting their analog stations to also contain a digital signal. This book provides in-depth material -- an excellent value for any station budgeting a conversion. It covers the installation process, uses examples from real-life implementations, and information not found in manufacturer's manuals. F-100 • Pub. 2008 • 224pp

Member Price USD: \$71.96 Non-Member Price USD: \$89.95 Shipping/Handling: \$6.00

Published by SBE/Focal Press

Video Engineering, 3rd Ed.

Arch C. Luther and Andrew F. Inglis

This book gives you instant access to formats, standards and technology for capturing, storing, editing, transmitting and reproducing all kinds of video. From cutting-edge digital postproduction technology to streaming video on the Internet, this desktop database of essential video knowledge puts your professional career in high gear! M-76 • Pub. 1999 • 549pp

Member Price USD: \$63.20 Non-Member Price USD: \$79.00 Shipping/Handling: \$6.00 S/H

Streaming and Digital Media Dan Ravburn

This book gives you a concise and direct analysis to understand a scalable, profitable venture, as well as the common and hidden pitfalls to avoid in your business. By focusing on both the business implications and technical differences between online video and traditional broadcast distribution, you will learn how to gain significant time-to-market and cost-saving advantages by effectively using streaming and digital media technologies. F-93 • Pub. 2007 • 256pp

Member Price USD: \$35.96 Non-Member Price USD: \$39.95 Shipping/Handling: \$5.00

Books You Can Use!

A complete list of available titles can be foundand ordered at: www.sbe.org/store books.php

The RF Transmission Systems Handbook

Jerry Whitaker, CPBE

This handbook addresses the underlying concepts, operation and maintenance of high-power RF devices, transmission lines and antennas for broadcast, scientific and industrial use. Focusing on devices and systems that produce more than one kilowatt of output power, it covers the common uses of radio frequency energy; power vacuum and solid-state power devices, RF components and transmission lines and basic troubleshooting. C-34 • Pub. 2002 • 504pp

Member Price USD: \$143.96 Non-Member Price USD: \$179.95 Shipping/Handling: \$10.00

Folded Unipole Antennas

Jeremy Raines

Theory and Applications is the first comprehensive sourcebook on the design and uses of folded unipole antenna technology, featuring never-before-published mathematical equations and configurations. This "one-stop" reference offers detailed accounts of the physics underlying the remarkably compact, broadband, and versatile folded unipole antenna, as well as mathematical models suitable for design and analysis. M-78 • Pub. 2007 • 400pp

Member Price USD: \$92.00 Non-Member Price USD: \$115.00 Shipping/Handling: \$8.00

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weeks for processing and shipping within the continental U.S. Please provide a street address as all orders are shipped via ground delivery service. For express shipping or shipping outside the U.S., please contact SBE at sbestore@sbe.org or call (317) 846-9000. Credit card orders may also be called in or made online at the SBE website. Checks should be made payable to "SBE" and mailed to: SBE Bookstore, 9102 N. Meridian St., Ste. 150, Indianapolis, IN 46260.

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SB

AWARDS 2008-2009 **Individual** Awards

INSTRUCTIONS: Use one form per nomination. Photocopy this form for additional nominations. Please include all pertinent information about your nomination, as well as yourself. Supply as much information as possible, as this will assist the Awards Committee in its selection process. Nomination materials will be photocopied for each judge, if you wish each judge to have an original of any of your support materials (such as newsletters, CDs or anything printed in full-color), please send five sets. Nominations may be disqualified if requested support material is not provided. SUBMISSIONS: Mail completed entries to: The Society of Broadcast Engineers, Inc., Attn: Awards Committee, 9102 North Meridian St., Suite 150, Indianapolis, IN 46260. For questions concerning nominations, contact: Megan E. Clappe, Certification Director, at mclappe@sbe.org or (317) 846-9000 or

Mark Simpson, Awards Committee Chair, at mark.simpson@citcomm.com or (334) 240-9274. DEADLINE: The National SBE Office must receive Materials by May 31, 2009. Winners will be announced in July and awards presented October 15, 2008, at the 2008 Awards Dinner during the SBE National Meeting. OFFICIAL RULES: Nominations valid only for achievements/data occurring from January 1, 2008 through December 31, 2008. Only active SBE Members and Chapters in good standing (having reported at least five [5] chapter meetings for 2008) are eligible for awards. Class awards are determined using the median chapter size as of December 31, 2008, as the dividing line between Class A (less than the median) and Class B (greater than the median). The decision of the judges is final.

BROADCAST ENGINEER OF THE YEAR: Recognizes the SBE Member who has made the greatest contribution to the broadcasting industry and to furthering the goals and objectives of the Society. INCLUDE: A) City and state; B) Current employer; C) Detailed written description of contributions; **D**) His/her portfolio (if possible).

EDUCATOR OF THE YEAR: Recognizes the SBE Member who is dedicated to the education of the broadcast engineers throaugh personal writings, teachings, programs and employment and who furthers the goals and objectives of the Society. INCLUDE: A) City and state; B) Current employer; C) Detailed written description of contributions; D) His/her portfolio (if possible).

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. INCLUDE: A) Technology Item/Idea; B) City and state; C) Written description.

BEST TECHNICAL ARTICLE, BOOK OR PROGRAM BY AN SBE MEMBER: Recognizes the author of the best technical article, book or paper in its contribution towards the increase of scientific, operational, artistic or technical knowledge in the broadcast engineering industry. INCLUDE: A) Title of book/article/program; B) City and state; C) Copy of article, book outline or program paper.

BEST ARTICLE, PAPER OR PROGRAM BY A STUDENT MEMBER: Recognizes the SBE Student Member who has shown excellence in the presentation of a technical, operational or scientific paper published in an SE local, national or industry-related publication; or program presented at a local chapter meeting, national/regional convention or broadcast engineering-related class. INCLUDE: A) Title of article/paper/program; B) School attending, city and state; C) Copy of article, book outline or program paper.

SBE LIFETIME ACHIEVEMENT AWARD: Recognizes and pays tribute to individuals for their dedication, lifelong achievement and outstanding contribution to the broadcast industry. Nominees must be SBE members in good standing and have been active for 40 years or more in the broadcast engineering industry or a closely allied field that benefits broadcast engineering. Nominations must come from SBE members in good standing, and will include the endorsement of three other SBE members in good standing. INCLUDE: A) City and state; B) Current employer (if applicable); C) Career biography; D) Detailed written description of contributions. OFFICIAL RULES FOR LIFETIME ACHIEVE-MENT AWARD: Nominations for this award can be made at any time, but no more than one recipient will be named in a given year. Awards are determined by a ³/₄ majority vote of the SBE Board of Directors, based upon recommendations made by the SBE Awards Committee.

| AWARD: | |
|------------------------|---|
| NOMINATION (CHAP | TER OR INDIVIDUAL NAME): |
| SUPPORT ITEM A: | |
| ITEM B: | |
| ITEM C & D: Please sub | omit descriptions on a separate sheet; other items requested may be orginals or photocopies |
| т | |

, respectfully submit the above nomination for consideration by the National SBE Awards Committe. Daytime Phone: ______ E-mail: ______ Chapter Name and No. _____ City/State/Zip: _____ Date Submitted: _____

Address: _

DECEMBER 2008

SBE

AWARDS 2008-2009 Chapter Awards

INSTRUCTIONS: Use one form per nomination. Photocopy this form for additional nominations. Please include all pertinent information about your nomination, as well as yourself. Supply as much information as possible, as this will assist the Awards Committee in its selection process. Nomination materials will be photocopied for each judge, if you wish each judge to have an original of any of your support materials (such as newsletters, CDs or anything printed in full-color), please send five sets. Nominations may be disqualified if requested support material is not provided. SUBMISSIONS: Mail completed entries to: The Society of Broadcast Engineers, Inc., Attn: Awards Committee, 9102 North Meridian St., Suite 150,

Indianapolis, IN 46260. For questions concerning nominations, contact: Megan E. Clappe, Certification Director, at mclappe@sbe.org or (317) 846-9000 or Mark Simpson, Awards Committee Chair, at mark.simpson@citcomm.com or (334) 240-9274. DEADLINE: The National SBE Office must receive Materials by May 31, 2009. Winners will be announced in July and awards presented October 15, 2008, at the 2008 Awards Dinner during the SBE National Meeting. OFFICIAL RULES: Nominations valid only for achievements/data occurring from January 1, 2008 through December 31, 2008. Only active SBE Members and Chapters in good standing (having reported at least five [5] chapter meetings for 2008) are eligible for awards. Class awards are determined using the median chapter size as of December 31, 2008, as the dividing line between Class A (less than the median) and Class B (greater than the median). The decision of the judges is final.

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. INCLUDE: A) Conference Location/Dates; B) Conference Coordinator(s); C) Conference brochure or brief written description.

BEST CHAPTER NEWSLETTER*: Recognizes two local chapters that produced the best locally published newsletter it its Class, providing up-to-date and relevant information about the chapter in a graphically pleasing and editorially sound manner. Chapters must exercise full control over its content, mailing and size. INCLUDE: A) Newsletter Name; B) Newsletter Editor; C) Description of how it is produced, including list of contributors; **D**) Three (3) samples of 2008-published issues.

MOST INTERACTIVE CHAPTER:

Recognizes the local chapter that most actively attempted inter-association with organizations in industries related to the Broadcast Engineering profession (example: SCTE, ITVA, SMPTE, et. Al.). INCLUDE: A) Interacting Organizations; B) Dates/descriptions of common events; C) Program announcements, attendance sheets or other evidence of common meetings/events between your chapter and associated groups.

BEST CHAPTER FREQUENCY COORDINATION EFFORT*:

Recognizes two local chapters that expended the greatest and most effective effort toward frequency coordination in its market, service area and Class. **INCLUDE:** A) Frequency Coordinator(s); B) Database URL link or printouts; C) Written description.

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. INCLUDE: A) Website address; B) Webmaster.

MOST CERTIFIED CHAPTER*, HIGHEST MEMBER ATTENDANCE*, and GREATEST GROWTH IN

NEW MEMBERS*: These three awards are determined with statistical information based on Dec. 31. 2008, figures on file at the SBE National Office. Chapters established in 2008 are not eligible for the Greatest Growth in New Members award. *Denotes categories with two class awards.

| AWARD: |
|---|
| NOMINATION (CHAPTER OR INDIVIDUAL NAME): |
| SUPPORT ITEM A: |
| ITEM B: |
| ITEM C & D: Please submit descriptions on a separate sheet; other items requested may be orginals or photocopies |
| I,, respectfully submit the above nomination for consideration by the National SBE Awards Committee |

Daytime Phone: _____ E-mail: _____ Address: _____

_____ Chapter Name and No. _____

City/State/Zip: _____ Date Submitted: _____



The Ennes Educational Foundation Trust would like to thank the following supporters for their scholarship funds contribution:

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DECEMBER 2008

| 7 | Silver Members, those with at least 25 years of membership, are highlighted with a silver box, New Members are listed in blue | | | | | |
|---|---|--|---|--|--|--|
| | ADC Telecommunications Inc.•1998 Anne-Marie Gunderson (952) 917-3072 End to End Connectivity Solutions | Communications Labratories •2008 Jared Maynard (321) 409-9898 Emergency Management Network | ERI - Electronics Research-1990 David White (812) 925-6000 Antennas, Towers, Filters, Combiners | | | |
| | Advanced Test Equipment Rentals*2006 Martin Jahn (800) 404-2832 Test and Measurement | Comrex Corporation*1997 Chris Crump(978) 784-1776 Remote Audio Broadcast Equip- ment | ETS-Lindgren/Holaday EMF Measurement•2003 Dave Seabury (908) 876-5042 DE Sefet Letermentation | | | |
| | Equipment Rentals Ai•1995 Mark Polovick (607) 215-0653 UHF TV Broadcast Transmitters | Comsearch*2004 Tim Hardy (703) 726-5651 Frequency Coordination Services, Continental Electronics | RF Safety Instrumentation Florical Systems-2008 Jim Berry(352) 372-8326 Television Braodcast Automation | | | |
| | American Tower Corporation*2000 Peter A. Starke (781) 461-6780 Broadcast Tower Development/ Construction/Management | Continental Electronics Corporation*1976 Michael Troje (214) 381-7161, (800) 733-5011 | Freeland Products-1997 Joel Freeland (800) 624-7626 Rebuilt Power Tubes | | | |
| | Anixter*2005 David Ste-Marie (800) 995-6158 Audio/Video Cable & Interconnect Products | AM & FM IBOC Transmitters Crispin Corporation-2006 Brian Gleason(919) 845-7744 Broadcast Automation Solutions | Frontline Communications Corp. •2000 Doug McKay (727) 573-0400, ext. 120 Broadcast/Command/HLS | | | |
| | Anton/Bauer Inc.*2004 Paul Dudeck (203) 929-1100 Battery Solutions for ENG | Crouse-Kimzey Co.*2008 Mark Bradford (972) 660-6100 Broadcast Equipment Sales | Vehicles Fujinon, Inc.*1986 Thom Calabro (973) 633-5600 | | | |
| | Audemat-Aztec Inc.*2000 Sophie Lion Poulain (305) 249-3110 RDS Generator, Metering, Monitoring, Remote Control | CUC Broadcast+2008 Michael Johnson \(951) 278-5626 Shared Storage System Integrator | Broadcast & Communications Products Gepco International, Inc.•1995 Ken Bernd | | | |
| | Manufacturer Autodesk•1998 Christina Shackleton | Dataworld•1998 John T. Neff (800) 368-5754 Coverage Maps and Services Dialight Corporation•2006 | (847) 795-9555 Audio, Video Cable Products Google Inc.•2005 | | | |
| | (212) 338-3888 Digital Content Creation Software AXCERA-1983 Mike Rosso | Doug Woehler (732) 991-2837 Obstruction Lighting, L.E.D. Based Dielectric Communications•1995 | Scoti Bodgan (949) 791-1200 SS32, Maestro, ASP Solutions Harris Corporation, Broadcast | | | |
| | (800) 215-2614 ext. 101 Television Transmitters & Exciters | Jay S. Martin (207) 655-4555 TV & FM Broadcast Products Digital Alert Systems, LLC•2005 | Communications Division 1977 Joe Mack (TV), Chris Pannell (Radio), Bob Duncan (Software) (513) 459-3406, (406) 556- | | | |
| | Belden Electronic Division•1991 George Stillabower (765) 983-5200 Cable and Connectivity | Bruce Robertson (520) 488-8667 IP Based EAS ENDEC DiskStream Incorporated•2006 | 0280, (719) 439-0130 Broadcast Equipment & Services HD World•2006 | | | |
| | Beveridge Consulting, Inc.•2006 Gregory J. Beveridge (720) 810-3464 Broad ext Enzine entities | Rein Taul (519) 579-8166, ext. 57 Capsa Video Archive DMT USA, Inc.•2003 | Michael Driscoll (203) 371-6322 HD World Conference & Exposition (Oct 10 11 2007 New York) | | | |
| | Broadcast Engineering Technical Consulting Broadcast Electronics, Inc.•1978 Ray Miklius - Studio Products | Tom Newman (856) 423-0010 Television Transmitters, Transla- tors and Antennas | (Oct. 10-11, 2007, New York) Holbrook Enterprises, Inc.•2006 Heywood Bagley (208) 468-8797 | | | |
| | Tim Bealor - RF (217) 224-9600 | DSC Laboratories•2002 | WireCAD - Serious design tools | | | |

Broadcast Engineering Magazine•1984 Bradley L. Dick (913) 341-1300 Journal of the Broadcast Industry

Radio Equipment Manufacturer

Broadcast Microwave Services, Inc. •1997 Russell Murphy - East Jim Kubit - West (540) 932-3660, (805) 581-4566, (800) 669-9667 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

CANARE-1991 Luis Sotomayor (818) 365-2446 Audio/Vido Interconnect Products

Canon USA, Inc.•1985 Gordon Tubbs (201) 807-3300, (800) 321-4388 Broadcast Lenses & Transmission Equipment

Chyron Corp.•1992 Carol Keane (631) 845-2031 HD/SD Character Generators & MOS

Clark Wire & Cable•1991 Shane Collins (800) 222-5348 Audio, Video and Remote Camera Cables

COMET North America•2005 Steve Claterbaugh (214) 235-6596 Capacitors, Variable & Fixed

Michael Kent (905) 673-3211 Image Video•1997 Fest Charts & Illum Dave Russell (416) 750-8872 ext. 230 Under Monitor Tally Display

DTVinteractive•2007 Jennifer Jang (+82) (0)2-3446-2040 Test & Measurement Solution Provider

Rick Bossert

Accessories

Delivery

John Cahill

Satellite Antennas

Empower RF Systems-2008 Jon Jacocks (310) 412-8100 DTV Transmitter & Translator

ENCO Systems Inc.•2003

Digital Audio Automation &

Environmental Technology Inc.•1997

(800) 234-4239, ext. 229

Dehydrators, Deicing Sensor & Controls for Broadcast/FM and

Don Backus(800) 362-6797

5338

Jay S. Gerber, CBT•1999 (205) 491-6904 du Treil, Lundin & Rackley, Inc.•1985 Manager, NFL Frequency Organization Group Jeff Reynolds (941) 329-6000 Consulting Engineers JDSU-2007

Systems, Monitor Walls, Signal

Alarm Systems

Brigette Robbins (919)338-5061 DYMO Corporation•2006 Robert Garvey (717) 342-8090 RHINO Professional Labeling Products Joseph Electronics Inc.•2003

Yohay Hahamy (847) 501-1584 e2v technologies Inc.•1997 Broadcasters One-Stop Supplier (800) 433-8269, (800) 342-

Kathrein Inc., Scala Division•1985 Klystrons, MSDC IOTs, IOTs, Michael W. Bach or Mike Johnson Satcom Amps, TWTs (541) 779-6500 Antennas for Broadcasting &

Econco-1980 Communications (800) 532-6626 or (530) 662-7553 **KPFF Consulting Engineers**•2004 662-7553 New & Rebuilt Transmitting Tubes Madison Batt

(206) 926-0508 **Electrorack Enclosure Products *2008** Todd Schneider (714) 776-5420 Racks, Enclosures, Power, 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

IFA International•2004 Carol Rassier (208) 762-6121 Power Quality Products & Services

Lincoln Financial Media•2007 Don Shaw 704-374-3639 Media Communications

LYNX Technik•2007 Steve Russel (661) 251-8600 biners Broadcast Terminal Equip

> Mackay Communication•2002 Patrick Fisher (919) 850-3164 Satellite Communications Equipment & Airtime

Markertek Video Supply•2002 Tom Moretti (845) 246-3036 Audio, Video, Audio Visual Broadcast Supply

Maxell Corporation of America•1991 Patricia Byrne (201) 794-5900

Broadcast Video Products Micro Communications, Inc.•1998

Frank Malanga (603) 624-4351, (800) 545-0608 TV & FM Antennas & RF Components

Inc.•2005 Jerry Armes (972) 422-7200 Coordination Services / Frequency Planning

Micronet Communications,

Microwave Filter Company, Inc.•2003 Sherry Bell (315) 438-4700 Passive Electronic Filters

Microwave Radio Communications•1991 Nadine Frechette 977 (978) 671-5700 Video Microwave Systems vare)

Microwave Service Corporation•1997 Warren J. Parece (978) 556-0970 Microwave Equipment Rentals/ Sales/Service

Middle Atlantic Products•2005 David Amoscate

(973) 839-1011, ext. 1197 Enclosures, Power, Accessories, Furniture

Minkin Design Inc.•2005 Jay Minkin (206) 250-7481 System Integration/Design/ Documentation

Mohawk•1995 Jamie Silva (800) 422-9961 Wire and Cable

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

Nautel, Inc.•2002 Wendell Lonergan (207) 947-8200 Radio Broadcast Transmitter Manufacturer

Neural Audio•2006 Mark Seigle Surround Sound Technologies

Nott Ltd.•2002 Ron Nott (505) 327-5646 Folded Unipole Antennas; Detune Systems; Lightning Prevention

Nucomm, Inc.•1996 John Dulany (908) 852-3700 Digital Microwave Transmission Equipment

NVISION, Inc.•1997 Doug Buterbaugh (530) 265-1000 Routers, Master Control & Terminal Equipment

Oldcastle Precast, Inc.•2006 Douglas Domas (678) 371-8315 Precast Buildings/General Construction/Program Management

OMT Technologies Inc.•2001 Ron Paley (888) 665-0501 Automation, Skimming/Logging Software

Orban/CRL•2008 David Rusch (480) 403-8300 Audio Processing

Panasonic Broadcast & Digital Systems Company•1985 Tom Moore (201) 392-6176 Professional Broadcast Equip ment

Pasternack Enterprises•2001 Christine Hammond (949) 261-1920 Coax & Fiber Products

PESA Switching Systems, Inc.•1997 Robert McAlpine (800) 328-1008 Routing Switcher Manufacturer

Pike & Fischer*1991 Andy Myers (800) 255-8131, ext. 234 FCC Rules & Regulation

Prime Image, Inc.•1997 Rodney Hampton (408) 867-6519 Digital Audio/Video Equipment

Pro-Bel•2002 Terry Barnham (631) 549 5159 Automation, Routing & Infrastructure

Propagation Systems, Inc.(PSI)*2005 Doug Ross (814) 472-5540 Quality Broadcast Antenna Systems

ProVideo Systems, Inc.•2000 Dave Goldsmith (419) 874-2850 Sales, Consulting, Design & Integration

Pulsecom•2003 Stan Bailey (630) 961-3253 Telco Broadband Audio Transmis-

sion

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 Michael J. Miga (860) 585-4552, (800) 787-3532 Installation

RCS+2003 Diana Stokey (308) 284-30007 Audio and Video Content Management. Music Scheduling. Radio Automation

RDI-2004 John Gatts (928) 778-9678, ext. 111 Audio, Video, Control & Test Equipment Manufacturer

RF Central, LLC+2005 Jeff Winemiller (717) 249-4900, ext. 222 Digital Wireless Microwave Equipment

RF Specialities of Texas, Inc. •2008 Tektronix, Inc.•1977 Don'S. Jones (806) 372-4518 Jon Hammarstrom (503) 627-6936 TV Test, Measurement Equipment

Trasmitters, Antennas and More RF Technologies a Ferrite Company •2008 Bill Ammons

(800) 634-4075 Television Broadcast Antenna Systems Richardson Electronics•1987

Chris Chinchilla (800) 348-5580 Power Grid Tubes Richland Towers•2001

David Denton (813) 286-4140, ext. 6872 Tower Owner/Management

Rohde & Schwarz•2003 Eddy Vanderkerken (469) 713-5322 Broadcast Transmitters Test & Measurement

Tom Voigts (847) 299-8080

Burt Young (613) 652-4886

cast Equipment

Bob Cauthen (800) 438-6040

SCMS, Inc.•2000

DTV System Integration

Ross Video Ltd.•2000

Manufacturer, Television Broad-

Seacomm Erectors, Inc.•1997

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

Jeff Murray (800) 736-2673 Audio/Video Test Equipment

FM Antennas & Combiners

David Allen (207) 647-3327 or 888-SHIVELY

Broadcast Equipment Support

Video Equipment Manufacturer

Stratos Global Corporation•2006 Folef Hooft Graafland (Eastern

Streaming & Voice via Satellite

Strobe Tech, LLC•2008

Tower Lighting Experts

Sundance Digital, Inc.•2004

Broadcast Automation Solutions

Superior Broadcast Products•1999

Wes Pimentel

Steve Krant

Transmitters

(931) 648-8414

(972) 444-8442

Benny Springer (800) 695-7919

Vacuum Tube & Solid State

Superior Electric•1995

Sutro Tower, Inc.•1989

Broadcast Tower Leasing

Switchcraft, Inc.•1995

Jim Hoffman (773) 792-2700 Electronic/Electromechanic

DTV Audio Level Processing

Telemetrics Inc.•2008

Denny Sanders (216) 241-7225

Company•2003 Steven Slocum

Telos Systems/Omnia/Axia•2003

Telos Systems - Talk-Show Systems

Terrestrial RF Licensina

(888) 373-4832 FCC Licensing Services

Iim Wolfe (201) 848-9818

Gene Zastrow (415) 681-8850

Components

TC Electronic+2008

Stacey Moran (818) 665-4906

Power Protection Equipment

Snell & Wilcox, Inc.•1995

Sencore, Inc.•2005

Shively Labs•1996

et•2008 Ed Portko (610) 783-6666

John Shike

(818) 556-2616

Les Kutasi (215) 631-1313

The Durst Organization -4 Times Square•2004 John M. Lyons, CPBE (212) 997-5508 **ROSCOR Corporation**•1998 TV/FM/Microwave Tower Site

TESSCO-2008

Scott Palermo (410) 229-1562

STL, Cable Test Equipment

The Whitlock Group•2000 Kevin Thompson (800) 726-9843 Broadcast and Presentation Solutions

Thomson Broadcast & Media Solutions•2000 William Powers (404) 929-5007 TV/Film Production & Broadcast Broadcast Equipment- New/Used Professionals

> Tieline Technology•2003 Kevin Webb (888) 211-6989 POTS, ISDN Codecs & Audio/ Video Products

Total RF Marketina•2001 Tom Sharkoski (215) 633-1000 Wireless Broadcasting Equipment Rental

Trilithic, Inc.•2007 Art Leisey (317) 895-3600 EAS ENDEC Equiptment

Troll Systems, Inc.•2006 Brian Goldberg (661) 702-8900 Broadcast Control Systems

TRON-Tek Inc. •1993 W.M. (Bill) Grass (888) 819-4877 Part 74 Video Links

TV Magic•2008 Eva Langer (858) 650-3155 Stainless LLC/Doty-Moore*2004 Broadcast Systems Integrator

Unimar, Inc.•2001 Michael A. Marley (315) 699-4400, (800) 739-9169 Tower Engineering/Tower Service Tower Obstruction Lighting De-signer, Manufacturer, Distributor

USA), Chris Mott (Western USA) VALCOM-1996 (888) 766-1313 (USA) (709) 748-4233 (Rest of World) Bill Burtenshaw (519) 824-3220 AM/FM Broadcasting Antennas

> VCI Solutions•2007 Kristin Garini (413) 272-7200 Broadcast Traffic & Automation Solutions

V-Soft Communications+2002 Adam Puls (319) 266-8402 Broadcast Engineering Software & Consulti

Ward-Beck Systems Ltd.+2004 Michael Iorda (416) 335-5999 Metering, Monitoring, Distribution. Conversion

Warning Systems, Inc.•2008 Elysa Jones (256) 880-8702 CAP, Warning, Emergency Alert

Westwood One+2006 Conrad Troutman (212) 641 - 2014Radio and TV Programming

Wire Wizards Integration•2007 Mr. Mark Guidire (619) 992-0549 Reliable Specialized Installation Technicians

Wireless Infrastructure Services+2006 Mr. Travis Donahue (951) 371-4900 Broadcast System Integration Services

Wohler Technologies Inc.•2004 Milton Garcia (510) 870-0810 In-Rack Audio & Video Monitoring

WSI Lighting-2008 Randy Daremus (800) 783-1450 Lighting Distributor/Obstruction

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