# SBE

the

APRIL 2008 Volume 21, Number 2

Georgia site of June Ennes Workshop

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# **Many SBE events, meetings held throughout the 2008 NAB Show**

he 2008 NAB Show is quickly approaching and now is the time to familiarize yourself with the many events and meetings the Society of Broadcast Engineers will present at this year's show. To start the Show, SBE will present the special in-depth Ennes Workshops on Saturday on the topic of "File Based Workflow." Throughout the rest of the convention, SBE will also be holding a number of informative meetings including meetings of the Board, EAS and Certification Committees.

# **SBE Exhibit Booth**

This year's prominent booth will be on the second floor concourse of the South Hall, booth L27. Be sure to plan to visit the SBE booth while at the convention. Members can connect with the SBE



The SBE booth will be located at L27 on the second floor concourse of the South Hall at the 2008 NAB Show. Board, Certification Committee members and staff at the SBE exhibit booth. Our booth will include the SBE Book Store, SBE logo items and the very popular "CertPreview" exam preparation CDs that now include the AM Directional and 8-VSB Specialist exam sections. Also available will be our SBE published books including the SBE Television

See NAB on page 10

# FCC Extends 2 GHz BAS/LTTS Transition Date to March 5, '09 BY Chris Imlay, CBT and MSTV achieved a major victory for BAS

FCC Liaison Committee Chairman SBE General Counsel

BE is well-aware that broadcast engineers are typically responsible for broadcast auxiliary operations (BAS), and that 2 GHz TV BAS service is at the heart of local news, sports, and weather coverage that are the essence of broadcast localism. In March, SBE and its strategic partners, Sprint Nextel, NAB and MSTV achieved a major victory for BAS licensees across the country by convincing the FCC to recognize the inordinate complexity of reconfiguring BAS systems and extend the deadline for Sprint Nextel to relocate BAS licensees to spectrum between 2025 and 2110 MHz until March 5, 2009. The FCC also stated that it might extend the deadline until August 2009 so long as all parties continue to work in good faith to move BAS above 2025 MHz as

See FCC on page 20

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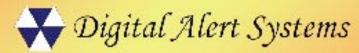
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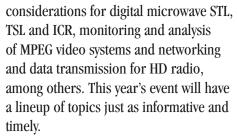
Carol S. Waite, Certification Assistant cwaite@sbe.org

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# Marietta, Georgia site of June 6 Ennes Workshop

or the second consecutive year, SBE Chapter 5 in Atlanta and the Georgia Association of Broadcasters (GAB) will be sponsoring an Ennes Workshop as a part of the GAB Annual Convention. This year, the workshop will be held June 6 at the Marietta Conference Center and Resort in Marietta, Georgia. The program, presented in cooperation with the national Society of Broadcast Engineers, will feature a full day of technical presentations of interest to broadcast engineers and technicians. Those working in television or radio, as well as in related fields, will find the Ennes Workshop an excellent educational experience. Attendance at Ennes Workshops qualifies for SBE recertification credit.

The program for the Georgia workshop is being developed as of this writing. The complete program and registration information will be posted on the SBE website, www.sbe. org in mid-April, in the calendar and education sections. Presentations made at the 2007 Georgia Ennes Workshop included improvements to FM and HD signal quality, digital video transport basics, audio over IP, engineering



Ennes Trustee, Fred Baumgartner, CPBE, of Qualcomm, MediaFlo USA, is organizing the program and will serve as moderator. Local organizational support is being provided by SBE Chapter 5 Chairman, Bill Magliocco, CPBE, 8-VSB, CBNT; Vice-Chairman, Mark Fehlig, P.E., CPBE, CBNT and Jere Pigue, President of the GAB.

The Ennes Workshop is open to anyone interested in broadcast engineering and technology. Those from outside the state of Georgia are welcome to attend. Marietta is located approximately 18 miles northeast of Atlanta. The Marietta Conference Center and Resort is a AAA Four Diamond rated facility.

Other regional Ennes Workshop locations and dates planned for 2008 include August 27 in Oklahoma City, a date in September to be announced in Hartford, Connecticut and October 24 in Eugene, Oregon. The Ennes Trust and



SBE will also present the annual Ennes Workshop on April 12 in Las Vegas. as a part of the NAB Broadcast Engineering Conference.



barryt@sbe.org

# Let SBE be the strong resource for you and your company BY Barry Thomas, CPBE, CBNT

SBE President

know you've all seen the press. TV and radio media seems to be at the front lines of a pending recession. Some large and influential radio companies have announced sometimes massive "restructuring." Some large media groups are

cutting travel budgets and other expenses related to technical staff. The pressure to keep costs down is enormous. Broadcast engineers often get the brunt of this as technical departments are essentially a cost center for station operations. I know we've seen budgets for education and travel have been cut all around the industry. Things seem dire.

In times like these, professional organizations like the Society of Broadcast Engineers become a critical resource for you and for your employer. Many employers support membership through reimbursement of dues or certification expenses. During economic downturns such support may wane as a cost-saving measure. If that's been the case with you, I urge you not to let your membership lapse because now is when you may need us the most. If your employer chooses not to invest in your career, that means you need to do so directly. The one who really stands to gain from your membership is you, although employers gain because your value is increased.

The Society offers career development opportunities through the SBE JobsOnline (sbe.org/career\_jobsonline.php) and ResumeBank (sbe.org/career\_resume.php). These resources are often ignored until they are needed, but they are an important function of the Society that is supported through your membership dues. Your participation in an ongoing way helps us support and improve our career services.

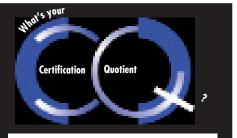
We often talk about the value of SBE certification and how certified engineers earn more than uncertified engineers. When you need to make a change, I cannot stress enough how important this objective measure of your skills can be. I'm extremely proud of my certification, particularly when I achieved CPBE, which is a level subject to peer review. I hope you are just as proud of your certification and are looking for the next challenge. For me it's adding the DRB and AMD specialist certifications for which I hope to test soon. Has my certification made the difference between getting the job or not? I can't say. What I can tell you is it's given me an edge in some cases over another, seemingly-equal applicant and I've been able to get the all-important interview.

SBE membership provides career benefits that extend far beyond the specific programs offered by the National Office. Chapter participation keeps you plugged in to a network of local engineering talent that will not only keep you on top of new opportunities (as an employee or contractor) but will help you develop a knowledge base for solving problems on the job you're now doing. The natural extension of that knowledge base is demonstrated by the engineers that gather on the ham radio Chapter of the Air and the participants in the SBE Roundtable email list (http://www.sbe.org/Roundtable.php). I have said before that I consider these part of my 24-hour tech support network of skilled, capable, and connected broadcast engineers.

The SBE offers educational opportunities through its chapter meetings, Ennes Workshops, online seminars and published resources. Those opportunities are tailored to directly benefit your career as a broadcast engineer and help you build value by learning vital information about your technology. It's redundant to say that technology is changing at a breakneck pace but it's also a truism. You're not going to be able to keep up with everything you need to know to excel at your career

by published resources alone. The social connection to the broadly experienced SBE membership can help you develop real-world education and keep up.

Professional and career development is not the responsibility of your employer. It's yours. Your membership dues and investment in SBE education or Certification programs is an



# What is meant by the term "double conversion superheterodyne"?

- A. A receiver that provides twice as much audio output.
- B. A receiver with two intermediate frequency conversions
- C. A receiver that includes all television audio frequencies
- D. A receiver/transmitter combination

Question taken from SBE CertPreview. Turn to page 20 for the answer

investment in your marketability and value to advance your career objectives. We know that the SBE, the only organization dedicated to the stated purpose of supporting and promoting broadcast engineering, is the appropriate place for your investment.

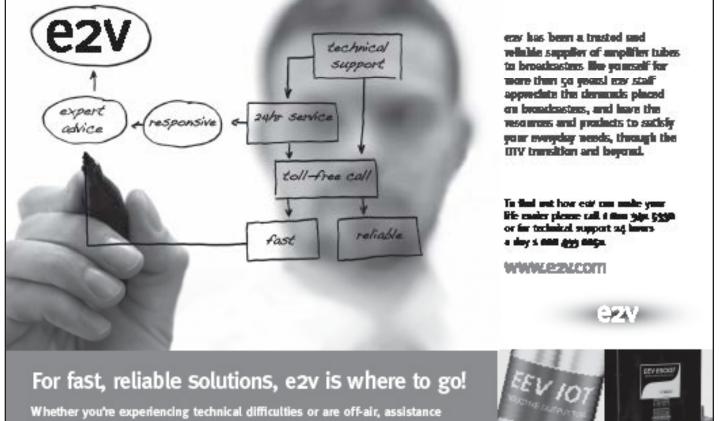
Very often we are faced with a broadcast engineer who, when faced with a job loss, suddenly realizes the value of SBE participation and strives to "do everything at once." This engineer will join, then test for certification and expect results immediately. Unfortunately this is not particularly effective as a short-term solution. Education, Certification, membership, and active participation must be an ongoing process in order to have the most impact. Think of your investment in the SBE as money and your personal capital deposited in the bank. The longer you invest (earn new certifications, attend seminars, participate in chapter or national office, interact with SBE members) before you withdraw, the more valuable the assets will be. Another way that SBE involvement is similar to banking: It's a function of your contribution. The more you contribute, participate and lead, the greater the potential benefit from your participation in the SBE.

I've seen, on the Internet lists, an occasional complaint that "SBE Certification didn't get me the job I wanted" or that "my prospective employer doesn't know about the SBE so it didn't make a difference." In some cases, I've done some digging and discovered that the complaining engineer was often the type I mentioned in the preceding paragraph. When faced with a job search, he or she suddenly reaches out to the SBE for help. Unfortunately, Society membership and certification is not a magic pill that will instantly get you the next job or even the next interview. It is part of a host of factors that go into career advancement. Certification and an impressive resume may get you a response or the interview, but your work history and presentation during the interviews will be the thing that makes the biggest difference. You still need to be a fit for the position both in skill and personality.

Think of another advantage of SBE participation (notice I said "participation", not just membership or certification): You'll be developing a network of skilled engineers who may become references for your next application. I've gained friendships through the Society that presented work opportunities such that (I'm proud to say) a nice number of engineers that I respect can honestly say they've seen my work. Have I used them as references for job applications? Heck yeah! I've been happy to return the consideration, as well. Much of this exposure would not have happened without the Society.

I hope you'll think about your SBE membership and understand how your membership and active participation are crucial to increasing your value and "building a career advancement savings account." The SBE has unmatched value to you as this resource!

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# For the birds BY Chris Imlay, CBT SRE General Counsel

he American Radio Relay League challenged the FCC's rules governing the interference potential of Broadband Over Power Line (BPL) systems. Lately, I have been waiting not-sopatiently for a decision on this from the United States Court of Appeals for the District of Columbia Circuit. ARRL's appeal was argued back in October, and a decision seems to me to be overdue. Win, lose or draw, I would surely like to know the outcome of the case (and I probably will by the time you read this). In the meantime, however, I noticed a case decided in February of this year, in which the FCC took it on the chin from the Court of Appeals. This was a case brought by the American Bird Conservancy to test the FCC's responsiveness to the environmental issue of bird kills from communications towers. Since the case involves tall towers (which are always of great interest to me, being the means by which radio magic is performed), I thought you might be interested in hearing about it.

I have written in this column before about the alleged problem of bird collisions with communications towers. My previous column was a bit too flippant, and I received some responses from broadcast engineers who were environmentalists taking me to task for it. Those criticisms were well-taken; this is a very serious issue and I should have treated it as one. Certainly enough, the American Bird Conservancy and Forest Preservation Council are serious about the issue, and everyone wants to prevent bird kills if at all possible. My only concern, and this is apparently shared by the FCC as well, is that there isn't a lot of conclusive environmental science about bird kills due to communications towers, and it doesn't seem reasonable to me to proceed with regulations of tower placement or height based on what right now is still fundamentally incomplete science. But that is not what American Bird Conservancy, Inc. et al., v. FCC, Case No. 06-1165 (D.C. Cir. February 19, 2008) was about, really. It was, instead, about what the FCC has to do when it registers a tower, and who gets to object before FCC registers one, and why. And it has some lessons about what you can expect when you do your station's next tower registration.

This case is related to the long-pending FCC WT Docket 03-187, which addresses the effects of communications towers on migratory birds (and on which no firm action has been taken by FCC yet). What happened started in August of 2002. The Bird Conservancy asked the FCC to prepare an Environmental Impact Statement (EIS) under the requirements of the National Environmental Policy Act (NEPA) which would analyze the effects of all past, present and reasonably foreseeable future tower registrations on migratory birds in the Gulf Coast region. It also asked the FCC to initiate a formal consultation process with the United States Fish and Wildlife Service (FWS) under the Endangered Species Act (ESA) to evaluate the Gulf Coast towers collective impact on various bird species. Finally, it asked the FCC to take steps in accordance with the Migratory Bird Treaty Act (MBTA) to reduce bird mortality at Gulf Coast tower sites. They also wanted notice to be given and an opportunity to comment on proposed Gulf Coast tower registration applications before they are granted.

Yes, I know, this is not what the FCC's tower registration procedure

# SBE General Counsel

was all about. It was implemented not as a tower approval or evaluation process, but rather purely as a registration procedure so that the FCC had a reliable basis for knowing where its licensees were locating their antennas, and that they were where they were supposed to be located relative to the locations specified in their licenses.



Before the FCC acted on the Bird Conservancy's request, the FCC in 2003 commenced a rulemaking proceeding about bird kills, in a Notice of Inquiry. FCC received 250 comments on that NOI. The comments reflected very different views about the effect of towers on birds. The Bird Conservancy said at the time that "towers kill" between 4 and 50 million birds per year. Telecom companies such as CTIA and NAB claimed that those estimates were far overstated.

By April of 2005, the Bird Conservancy had had enough of FCC's slow pace on their petition about Gulf Coast bird kills. They asked the U.S. Court of Appeals in D.C. to order the FCC to act on their petition filed in 2002. Five days after the oral argument on the Bird Conservancy's Petition for a Writ of Mandamus, the FCC issued an order denying in part, dismissing in part and deferring in part action on the Bird Conservancy's petition. FCC said it would address the Bird Conservancy's issues in a separate docket dealing with the bird collision issue on a nationwide basis.

FCC did nothing thereafter until November of 2006, when it issued a Notice of Proposed Rule Making in the same docket proceeding asking for further comment on the subject from factual, legal and policy perspectives. FCC asked whether the impact of communications towers on migratory birds was significant enough that it would have to take action under the environmental statutes that affect all Federal agencies. What FCC didn't seem to have were facts about the magnitude of the problem. The only decision from FCC was really no decision at all: it said that it "tentatively" proposed the use of medium intensity white strobe lights rather than red lights, since red lighting seemed to have a higher risk to migratory birds. Meanwhile, in May of 2006, the Bird Conservancy asked the Court of Appeals to review the FCC's order dismissing the Bird Conservancy's Gulf Coast request.

In its February, 2008 decision, the Court reversed and remanded the FCC's order denying and dismissing the Conservancy's petition because the FCC failed to apply the proper NEPA standard, and because FCC failed to provide a reasoned consultation with the FWS under the ESA. The Court also held that the FCC did not provide meaningful notice of pending tower registration applications before acting on them.

The court seemed to believe that tower registrations by FCC are actually approvals. Of course, they are not. Tower registrations are simply a means of allowing FCC to know where the towers are. On the other hand, the FCC is subject to the NEPA, ESA and MBTA statutes, and so even the process of registration of towers, said the Court, are

exclude communications towers from environmental processing because they are deemed individually and cumulatively to have no significant effect on the quality of the human environment. However, there is still a procedure to challenge that presumption, in which case the tower owner must prepare an Environmental Assessment (EA).If that EA shows a significant effect on the environment, the FCC has to prepare an Environmental Impact Statement (EIS). FCC refused to do a programmatic EIS for tower registrations, because of lack of specific evidence concerning the impact of towers on human environment and the lack of consensus of scientists regarding the impact of communications towers on migratory birds. The Court, however, said that neither reason is sufficient to sustain the FCC's refusal to take action pursuant to NEPA. The FCC's action violated its own NEPA procedures. The Court vacated the FCC order on the NEPA part and told the FCC to conduct a programmatic EA as the Conservancy requested. So, the FCC will now have to conduct an environmental assessment about the location of towers within the tower registration process. It is obligated to do so under NEPA when a Federal action (such as a tower registration) "may" have a significant environmental effect. The Court said that on the record before it, there was no dispute that towers "may" have significant environmental impact, and therefore the FCC rules implementing NEPA are triggered, and an EA is necessary for the tower registration program. The Court also said that under the ESA, the FCC was required to Want SBE certifications to apply to your degree?

"permits or other regulatory decisions" under NEPA. That creates

obligations during the registration process. The FCC has in the past

taken the position that regulations implementing NEPA categorically

consult with the Fish and Wildlife Service. The ESA requires that a Federal agency ensure that any action they take, authorize, fund or carry out is not "likely" to jeopardize the continued existence of any endangered or threatened species or result in destruction or adverse modification of critical habitats. The FCC said only that there were no collective impacts of towers that were separate from their impacts individually. The basis for that conclusion was completely unexplained, however, and for that reason, that issue was remanded to FCC for further proceedings consistent with the ESA. The FCC will have to better explain what kind of showing would have to be made in order to justify the kind of study that the Bird Conservancy asked for.

Finally, the FCC was told to provide adequate public notice of tower registration applications before they are granted, in order that the public could ask for EAs relative to specific applications. This is the big hammer. The FCC only provides notices now after tower registrations are processed. After this remand by the Court, the FCC will have to air them out before they grant a registration. This will allow conservation groups to protest tower registrations (and actually, as the result, tower siting) both at the FCC and before local zoning boards. A new tower project could become a real nightmare, and the construction period for new station permits could become even more complicated than it now is.

Heck, it is for the birds, right? But why am I still wondering, after all these studies and requirements, whether there is enough science behind the guesswork? FCC can do EAS and EIS' until the cows come home. It is hard to make regulations without firm science backing them up. It just doesn't seem to be on the table.

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**APRIL** 2008

# SBE Annual Membership Meeting to honor local Certification Chairmen

BY Megan E. Clappe SBE Certification Director

ow, what a whirlwind year it has been and 2008 doesn't seem to be any less exciting. With the Digital Television conversion less then a year away the SBE Program of Certification is taking steps to replace all of the information that will become 25 Years obsolete come February 17, 2009.

In 2003 we began the tradition of honoring our local Certification Chairmen on a recurring five-year cycle. This year at NAB we will continue this practice of recognizing the service anniversaries of our volunteers at the SBE Membership Meeting. The annual SBE Membership Meeting will be held **men** at NAB2008 on Tuesday, April 15, from 5 to 6 p.m., in Room S226/227 of

the Las Vegas Convention Center. During the meeting we will present plaques to the following:

5 Years

- William Magliocco, CPBE, 8-VSB, CBNT Chapter 5, Atlanta, GA
- Christopher Scherer, CPBE, CBNT Chapter 59, Kansas City, KS/MO
- Edward Roos, CPBE Chapter 88, W. Palm Beach, FL

First Year of Service

- David Fort, CPBE Chapter 25, Indianapolis, IN
- Dennis Vigil, CSTE, 8-VSB, CBNT Chapter 34, Albuquerque, NM
- Winston Tharp, CPBE Chapter 40, San Francisco, CA
- Ernest Harvey, Jr., CSRTE Chapter 72, New Orleans, LA
- Philip Mowbray, CPBE Chapter 81, Grand Junction, CO
- Britt Lockhart, CPBE Chapter 85, Central Western, OK
- J. Gibson Prichard, CBNT Chapter 103, Nashville, TN
- John Ross, CSRE, CSTE, CBNT Chapter 136, Rio Grande Valley

2008 also brings two anniversaries for the Certification Committee.

- Troy Pennington, CSRE, CBNT 15 Years as a Certification Committee Member
- Christopher Scherer, CPBE, CBNT 10 Years as a Certification Committee Member

Thank you to the local Chapter Certification Chairmen and the National Certification Committee members for the endless hours they devote to the Program of Certification. Without their help and dedication, the program would not be what it is today.

Please feel free to stop by the booth at the Show or contact me at anytime at <u>mclappe@sbe.org</u> or 317-846-9000, if you have questions.

- Robert Locke, CPBE, CBNT Chapter 3, Kansas
- Thomas Valosin, CBT Chapter 58, Northeast, NY
- John Batson, CPBE, CBNT Chapter 68, Birmingham, AL
- Richard Goldy, CPBE Chapter 105, Houston, TX
- Robert Connelly, CPBE Chapter 129, Wyoming

- Thomas Alderson, CSTE Chapter 21, Spokane, WA
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- Carl Davis, CPBE Chapter 93, Raleigh-Durham, NC

15 Years

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20 Years

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- William Croghan, CPBE Chapter 128, Las Vegas, NV

8



#### 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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#### NAPA VALLEY COLLEGE

Brian Hughes, Cotati, CA - Chapter 40

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"Thank You" CHAPTER CERTIFICATION CHAIRS FOR YOUR ASSISTANCE **CERTIFIED BROADCAST RADIO ENGINEER (CBRE®)** Mark Heller, Two Rivers, WI – Chapter 80

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**CERTIFIED RADIO OPERATOR® (CRO®)** Sheila Cowley, Tampa, FL – Chapter 39

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

Hugo Isensee, San Antonio, TX – Chapter 69 Richard Zamora, San Antonio, TX – Chapter 69

### **CERTIFIED BY LICENSE**

#### CERTIFIED BROADCAST

TECHNOLOGIST® (CBT®) William Bleyle, Fayetteville, NY – Chapter 22 Mark Morton, Oxford, CT- Chapter 14 Kent Peterson, Redlands, CA – Chapter 131

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

CERTIFIED RADIO OPERATOR® (CRO®)

Richard Frischkorn, Suring, WI Brian Hay, Peshtigo, WI Dennis Jones, Oconto Falls, WI Thomas Smith, Landing, NJ Rodney Thomas, Valencia, CA Lorra Queen, Mountain Home, AR

## CERTIFIED TELEVISION OPERATOR® (CTO®)

CERTIFIED TELEVISION OPERATOR® (CBT®) Forte Anglley, Irving, TX

Ozzie Carrillo, El Paso, TX Clara Colmenero, Phoenix, AZ Richard Disney, Spuerior, NE Tasha Freeman, Hemet, CA Lauren George, Strongsville, OH Dale Jones, Grand Junction, CO Luis Lua, Thousand Palms, CA Daniel Marquez, Phoenix, AZ Jhonny Moscoso, Falls Church, VA John O'Leary, Temecula, CA George Ovalle, El Paso, TX John Peterson, El Paso, TX Malcolm Rackley, El Paso, TX Joshua Schiano, Norfolk, VA Michael Spivey, Burke, VA Mark Westermeyer, Norfolk, VA

## 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®)

Jon Bennett, Richmond, VA – Chapter 60 Roger Dowdy, Cottontown, TN – Chapter 103 James Hermanson, Middleton, WI – Chapter 24

Robert Hoffman, St. Louis, MO – Chapter 55 K. Terry Horbatiuk, Mississauga, Ontario, Canada

David Ohmstede, Newton, IA – Chapter 109 Mark Rapson, Shelby Twp., MI - 82 Andrew Suk, Nampa, ID – Chapter 115 Thomas Wixon, Sunland, CA – Chapter 47

# **CERTIFIED SENIOR RADIO ENGINEER** (CSRE<sup>®</sup>)

Richard Gilbert, Tulsa, OK – Chapter 56

### **CERTIFIED SENIOR TELEVISION**

ENGINEER (CSTE®) Jerry Shorter, Menifee, CA – Chapter 131 Edgar Woodfin, Spartanburg, SC – Chapter 86

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

William Gaddis, Tuscaloosa, AL – Chapter 68 Stephen Konopka, Depere, WI – Chapter 80 Michael Lennen, Omaha, NE – Chapter 74 Saul Perez, Northridge, CA – Chapter 47 Joseph Portelli, State College, PA – Chapter 41

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

Melville Berry, Prospect Heights, IL – Chapter 26

Thomas Brotsky, Rochester, MN – Chapter 17 Francis Butler, Norfolk, VA – Chapter 54 Renato Calalang, Orlando, FL – Chapter 42 Jay Caldwell, Plain City, OH – Chapter 52 David Falcon, San Antonio, TX – Chapter 69 Miguel Garcia, Pembroke Pines, FL – Chapter 53

Bryan Gordon, Atlanta, GA – Chapter 5 James Hartland, North Olmsted, OH – Chapter 70 Rashid Khawaja, Germantown, MD – Chapter 37

Tim Lange, El Cajon, CA – Chapter 36 Michael Nudi, Oakdale, PA – Chapter 20

**CERTIFIED BROADCAST TELEVISION ENGINEER (CBTE®) 8-VSB SPECIALIST** Chris Novy, Yukon, OK – Chapter 85

# **CERTIFIED AUDIO VIDEO ENGINEER** (CEAV)

David Erickson, Anchorage, AK - Chapter 89

**CERTIFIED VIDEO ENGINEER® (CEV®)** Michael Belanger, Morrow, OH – Chapter 33

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

W. Bradley Darby, Neptune Beach, FL – Chapter 7 Albert Flores, Houston, TX – Chapter 105 Kevin Foley, Knoxville, TN – Chapter 113 Bichard Gilbert Tilea OK – Chapter 67

Richard Gilbert, Tulsa, OK – Chapter 67 James Hartland, North Olmsted, OH – Chapter 70 James Hermanson, Middleton, WI – Chapter

24

Joseph Kirby, Hartselle, AL – Chapter 111 Chris Novy, Yukon, OK – Chapter 85 Mark Simpson, Marana, AZ – Chapter 32

#### CERTIFIED BROADCAST TECHNOLO-GIST® (CBT)

Gregory Ardrey, Thornville, OH – Chapter 52 Herbert Boaz, Montvale, VA – Chapter 78 Edward Buchan, Harrisburg, PA – Chapter 41 Marshall Deets, Baraboo, WI – Chapter 24 Raymond DeFrances, Atlanta, GA – Chapter 5 Robert Fields, San Antonio, TX – Chapter 69 Paul Hadley, Tucson, AZ – Chapter 32 Clark Jillson, Boscobel, WI – Chapter 24 William Kelley, Gig Harbor, WA – Chapter 16 Timmy Mendenhall, Knoxville, TN – Chapter 113

Timothy Parish, Centeral Point, OR – Chapter 43

Mauro Pena, Honolulu, HI – Chapter 63 Frank Peterman, Manuel, TX – Chapter 105 John Sessler, Newark, TX – Chapter 67 Randal Smith, Denton, TX – Chapter 67 Brandon Stadler, Sachse, TX – Chapter 67 Gary Spangler, Omaha, NE – Chapter 74 Brian Urban, Gerogetown, TX – Chapter 67 Paul Yonge, Syracuse, NY – Chapter 22

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

Robert Dawson, Menifee, CA – Chapter 131 John Johnson, Billings, MT Orlando Porter, Chicago, IL

# NAB from page 1

Operators Handbook, SBE Handbook for Radio Operators and the SBE Radio Chief Operators Handbook.

## **BOOTH HOURS**

Sunday: 2:00 p.m. to 4:00 p.m. Monday to Wednesday: 9:00 a.m. to 6:00 p.m. Thursday: 9:00 a.m. to 4:00 p.m.

# **SBE SPRING MEMBERSHIP MEETING**

Don't miss the annual spring Membership Meeting, at 5 p.m. on Tuesday, April 15. This annual meeting will highlight the week for SBE and will be held in S226/227, located on the second floor of the South Hall of the Las Vegas Convention Center. Some special prizes are in the works, so be sure to include the SBE Membership Meeting on your NAB convention schedule.

# **SBE Meetings**

SBE will hold several informative meetings during the NAB convention that may be of interest to you. (Meetings located at the Las Vegas Hilton Hotel unless otherwise indicated; subject to change)

## Saturday, 4/12

**Certification Committee** (partially closed meeting), 6:30 p.m. to 11:00 p.m.; Conference Room 7

## Sunday, 4/13

**Board of Directors Meeting**, 8:30 a.m. to noon; Conference Rooms 4-5

EAS Committee, 4:00 p.m. to 5:30 p.m.; Conference Rooms 1-2 Monday, 4/14

**SBE/NFL Game Day Coordinators Meeting**, 8:30 a.m. to 11:30 a.m., Conference Rooms 7-8

**SBE/U.S. Department of Defense** (closed meeting), 1:30 p.m. to 3:30 p.m.; Board Room

# Tuesday, 4/15

**SBE Certification Exams** will be conducted from 9 a.m. to noon for those who pre-registered by the February 29th deadline. Conference Room 10

**SBE Frequency Coordinators Meeting,** 10 a.m. to noon; Conference Room 7-8

**SBE/ U.S. Department of Defense Meeting**, 1:30 pm to 3:00 pm; Conference Rooms 7-8

**SBE Membership Meeting**, 5 p.m. to 6 p.m.; Las Vegas Convention Center, South Hall Second Floor, Room S 226/227

## **NAB Broadcast Engineering Conference**

SBE is proud to be partnering again with NAB to produce the NAB Broadcast Engineering Conference (BEC). The BEC features a special Saturday in-depth Ennes Workshop as mentioned earlier, plus more than 20 informative sessions covering the latest in broadcast technology beginning Sunday and running through Thursday morning.

This year, SBE member Steve Fluker of Cox Radio in Orlando, FL, chairs the BEC.

Also serving on the committee are Talmadge Ball of Bonneville International; Dave Converse of ABC/Disney Television Stations Group; Al Grossniklaus of WTHR-TV, Indianapolis; Gary Kline, CBNT of Cumulus Media; Wayne Kube of Belo Corporation; John Merrill of KPHO-TV, Phoenix and Paul Shulins, CBRE of Greater Media, Boston.

# **Registration Discounts for SBE Members**

Members of SBE can register for the NAB convention at a special "partner" rate, a savings of \$200 off the NAB non-member rate. To receive the discount, SBE members register using the regular on-line registration form found at the NAB convention registration web site, <u>www.nabshow.com/registration.asp</u>. When you reach the "Profile" section, check the "Partner" box and select SBE from the drop-down box. The discount is only available using the on-line registration method. Hotel reservations can also be made through the NAB Housing office by visiting the NAB website.

## **ENNES Workshop**

The Ennes program is the Saturday before the 2008 NAB Show floor opens. It will be held at the Las Vegas Convention Center (S226) with the topic focusing on file-based workflow. This year's SBE/Ennes tutorials directly address the issues of this shift, with the most recognizable

presenters in the industry. It's unlike anything else that happens at NAB. To attend, you must have full NAB Convention credentials.

The Ennes Workshop begins early at 8 a.m. April 14, with a beginner's tutorial – "File-Based Workflow 101." Harlan Neugeboren, CEO of the Workflow and Technology Group, will cover the basics of file-based workflow from acquisition through playback and archiving.

At 9:10 a.m. James O'Brien, president of Building4Media, will

# MARK YOUR CALENDAR

# July 17, 2008 Broadcast Trade Show

**Roanoke Civic Center convention center, Roanoke, VA. Hosted by** The Blue Ridge Chapter - SBE Chapter 78 and the Broadcast General Store.

# October 14 & 15 2008 SBE National Meeting

Marriott Hotel Madison West, Madison, Wisc.

**In conjunction with** The Wisconsin Broadcasters Clinic, presented by SBE Chapter 24, Madison and the Wisconsin Broadcasters Association.

present "Cross Platform Work Flow." O'Brien will be discussing considerations and developments in cross platform media operations and automation.

Following at 9:55 a.m. Al Kovalic, Strategist and Pinnacle Fellow, will present "Video Timing and Synchronization in a Web Services Environment." His talk will cover the essentials of timing concepts across distributed software systems, the salient aspects of how to achieve frame accurate video control using web services and SOA concepts.

Next, Clyde Smith of Turner Broadcasting System will present "Understanding and Describing File-based Workflow" at 10:35 a.m. He will be highlighting efforts by users and manufacturers to develop and deploy file-based workflow solutions in the broadcast environment.

The following tutorial will sort through the hype and go into exactly what BXF was designed to do, what it can do today, and what it might do in the future. Director of Integration and Standards of Harris Corp., Chris Lennon will present this session, "Broadcast Exchange Format" at 11:20 a.m.

After lunch at 1:15 p.m., Kovalic will be back to present "A Brief History of the Second." This short session will cover the development of timekeeping from water clocks to cesium fountain clocks to GPS and SMPTE 12M. Kovalic ties all of this into the needs of broadcasters. At 1:30 p.m. consultant John Luff will present "Implementing Workflow Changes," covering planning and implementation from a holistic approach, centered on defining goals and managing change.

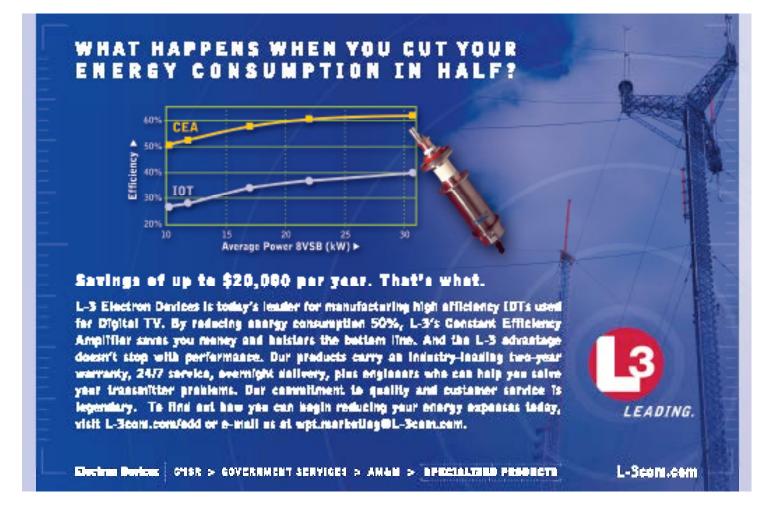
Following Luff at 2:15 p.m., John Footen, Vice President of National TeleConsultants, will present "Business Process Analysis." This presentation will be focused on Service-Oriented Architecture (SOA).

Engineering Director Michael Wellings will present "Codec Performance" at 3:00 p.m. The engineers at the University of Washington and the Research Channel have analyzed HD codec performance and documented their results. Wellings will present this data, along with an illustrative HD video showing codec loss using the SMPTE StEM uncompressed Mini-Movie.

At 3:45 p.m. John Wadle, Vice President of Technology at OmniBus Systems, will present "File-based Transmission Process." This will explore the impact and benefits of deploying at softwarebased transmission system in conjunction with file-based content workflows.

Finishing up at 4:30 p.m. Leonard (Joe) Fabiano, Chief Technology Officer of Pathfire, will present "Pathfire's Distribution of Files and the Impact of File Based Workflow."

We hope you'll join many of your fellow SBE members this year in Las Vegas for the 2008 NAB Show!



# Candidates for National Election BY Chriss Scherer, CPBE, CBNT at that time, pomingtions from the floor will still be accented until

Nominations Committee Chairman, Immediate Past President

he SBE Nominations Committee is assembling a slate of candidates for the next national election that will be held this summer. In the last issue of The Signal, I provided an overview of the eligibility requirements and responsibilities for candidates. The committee has received several inquiries from interested candidates, and we will continue to assemble a candidate list through April. The Committee's list of candidates is due in the National Office by April 30.

While the Nominations Committee's function will be completed

at that time, nominations from the floor will still be accepted until July 14. For an individual to be nominated from the floor, he or she must notify the SBE secretary and have the support of 10 voting members.

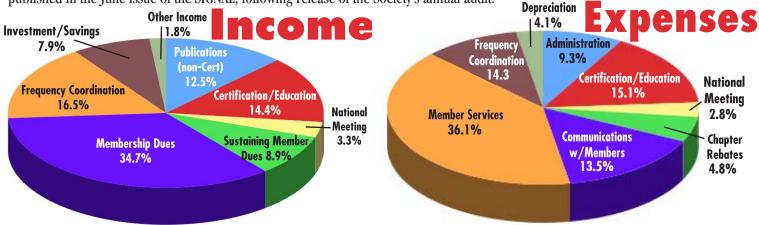
Election ballots will be mailed to all members by July 29. The ballots will be tallied on Aug. 28 by a board-appointed board of tellers.

Serving on the Nominations Committee this year are Robert Hess, CPBE, of Chapter 43 Sacramento, CA; Kevin Kidd, CSRE AMD, of Chapter 111 Huntsville, AL; and Eric Reinert, CBTE, of Chapter 120 Lehigh Valley PA. I thank them for their work on this committee.

# **2007 SBE Financial Review**

The Society of Broadcast Engineers, Inc. completed 2007 with net revenue from all sources of \$80,955. Gross revenue was \$825,622 while expenses were \$744,667. The value of SBE medium and long term investments increased in 2007 by \$55,669 over 2006. Total assets as of December 31, 2007 were \$1,193,792, an increase of \$80,809 over 2006.

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







# **Delivering Reliability**



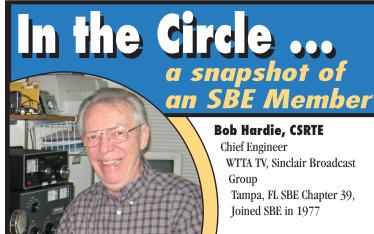
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# Join us at NAB Show Booth #N2532





**Getting Started:** I became an Amateur Radio Op when I was 14 years old. Seems like I had a natural desire to go into broadcast engineering. Nothing else was interesting to me.

**Sphere of Influence:** I admire the "single shop" technicians/engineers that trudge along every day doing a great job in broadcasting and literally having to fight with management and other departments. These guys/gals are under direct fire. This also describes the job of the average Chief Engineer. Typically, this person is not thought of as a "down in the trenches engineer," even though he feels he is. This is one of the things that the monthly SBE meetings can do, is help these people to cope with the everyday stress.

**When I'm not working:** I've been a ham for 54 years now. My mother used to say, "ham radio keeps me off the streets and out of trouble". It still does, and my wife now says that she likes me being at home and out of trouble too. (smile)

**You may not know** ... I went to Purdue University to get a BSEE degree. I highly recommend to all to get as much education as one can. Don't just take electrical engineering courses. Take Business, HR and last but not least, getting along with "those guys." You know, the other people who work in broadcasting. The "non-engineers." Good education will make your life much easier not to mention make you more money. GET SBE CERTFIED too.

# Membership Drive going on now: Recruit and win!

here's still time to "Be part of a Winning Team" during the 2008 Membership Drive. The annual drive started March 1 and continues through May 31,2008. Now is the time to recruit new members for SBE. Members are what make our society strong, so help strengthen SBE by adding to its growing membership.

All current SBE Members who sponsor a new member during this year will receive \$5 off their 2009 dues for each Regular, Associate or Sustaining member that you sponsor (up to \$25). In addition, sponsors will have their names entered into the Membership Drive Prize Drawing where you could win one of many great prizes donated by SBE Sustaining Members and SBE Bookstore publishers.

If you plan to attend The 2008 NAB Show, this is a great time to introduce your friends and colleagues to SBE. Bring them to the SBE Booth in the upper level of the South Hall of the Las Vegas Convention Center with their applications where you can both pick up an SBE membership ribbon; or bring them to the booth so they can apply online. Then invite them to the SBE Membership Meeting on Tuesday April 15, at 5 p.m.

# Be part of a March 1 - May 31 2008 SBE Membership Drive This year's prizes:

### This year's prizes: GRAND PRIZE

Trip to the 2008 SBE National Meeting in Madison, WI from October 14 - 15. Two night hotel stay, airfare for one within the continental U.S., Conference ticket

# **OTHER PRIZES**

- (2) Eton E1XM AM/FM/Shortwave/XM ready Radio Courtesy of Westwood One
- Apple IPOD Nano Courtesy of ADC
- Antenna Engineering Handbook courtesy of McGraw-Hill
- Digital Signage Broadcasting by Lundstrom Courtesy of Elsevier
- HD Radio Implementation by Thomas Ray Courtesy of Elsevier
- Basic NEC with Broadcast Applications by JL Smith Courtesy of Elsevier
- Directional Antennas Made Simple by Jack Layton
- The Public Inspection File by Jack Layton
- NAB Engineering Handbook Courtesy of National Association of Broadcasters
- Telos ProFiler Automated Program Archiver software Courtesy of Telos Systems / Omnia / Axia
- Heil Sound Fin Courtesy of Broadcast Supply Worldwide
- Yamaha AV Receiver RX-V661 Courtesy of Neural Audio
- \$100 Gift Certificate to L.L. Bean Courtesy of Shively Labs
- \$100 Gift Certificate to Amazon.com Courtesy of Dielectric
- \$75 Gift Certificate to Powell.com Courtesy of du Treil, Lundin & Rackley, Inc.
- STABILINE Uninterruptible Power Supply Courtesy of Superior Electric
- (2) Logo Polo shirts Courtesy of Kathrein Scala
- Logo pull over fleece Courtesy of Kathrein Scala
- Logo Golf Shirt Courtesy of Continental Electronics
- (2) 1 GB USB Drive Courtesy of Broadcast Electronics
- (5) White ball cap Courtesy of Broadcast Electronics
- (5) Logo T-shirt Courtesy of Broadcast Electronics
- (25) Adjustment Tweaking Tools Courtesy of Continental Electronics

# **Need a little inspiration?**

Recruit a new member during the 2008 SBE Membership Drive, March 1 - May 31, and not only will you strengthen the voice of broadcast engineers in the industry, but your name will be entered into a prize drawing with many great prizes!

# Renew your membership

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

SBE Membership dues for Regular, Senior and Associate Members are \$63. Dues for Student Members are \$20.

Membership renewal notices were mailed out to all Regualr, Senior, Associate and Student members in early February. If you did not receive your renewal notice, contract the SBE National Office at (317) 846-9000.

Membership Renewal for Youth and Sustaining members is due on the anniversary month of joining the Society.

# **STILL MORE TO COME!**

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

# **New Members**

Douglas E. Allen - Baton Rouge, LA Eric Anderson - Charlotte, NC Solomon N. Bachman - Tucson, AZ Dave M. Calhoun - Beachwood, NI Wendell D. Claibourn - Columbia, SC Javier Cruz - Roy, UT Philip C. Davis - Smyrna, GA Glen A. Dion - Nashua, NH Gordon C. Dunlap - Glen Burnie, MD Richard K. Foley - Hubbard, OH John Footen - Valencia, CA Robert W. Goessler - Schenectady, NY Bruce H. Hanselman - Lawrenceville, GA Douglas Houston - Aurora, CO Brian Hughes - Sterling, VA Hugo H. Isensee - San Antonio, TX John B. Jackson - Wentzville, MO Stephen Jaskela - Brookline, MA Bobby Johnson - Chicago, IL Richard H. Lieb - Pittsburgh, PA Varian C. Lucas - Lewisville, TX Dennis W. Lusk - Odessa, FL Steven D. Lynch - Chapel Hill, TN Omar Malik - Land O Lakes, FL Frank L. Martin - Monrovia, CA James R. Offerdahl - Fosston, MN Ilir Prifti - Albuquerque, NM Lloyd P. Robinson - Louisville, KY Robert D. Romonosky - Harrisburg, IL Christopher J. Schnur - Fairfield, OH Bruce Sherman - Prescott, AZ Dan F. Smith - Brooks, KY Scott Solko - Greenfield, WI Edward L. Stoffel - Stephens City, VA Patrick A. Turley - Chicago, IL Mark E. Turner - Syracuse, NY Fernando M. Vega - Leesburg, VA Derrick W. Warren - Johns Creek, GA Robert C. Worek - Cheswick, PA David W. Ahneman - Lopez Island, WA Nickolas P. Anderson - Onawa, IA Stephen B. Anthony - Bristol, RI Justin L. Atkin - Eugene, OR David W. Bash - Ashburn, VA Marlon S. Baskerville - Portsmouth, VA William R. Bleyle - Fayetteville, NY Claude L. Booth - Garden Grove, CA John J. Braunreiter - Milwaukee, WI Kevin L. Buskirk - Parkersburg, WV James D. Byron - Houston, TX Brandon M. Cantrell - Moreno Valley, CA William P. Case - Springfield, MO Ibrahim Cerda - El Paso, TX Rome Chelsi - Evergreen, CO **APRIL** 2008

Shea Clark - Clearwater, FL Zach R. Cochrane - Eugene, OR Bruno Cruz - El Paso, TX Marvin E. Dabelow - Terre Haute, IN Lee J. Damschroder - Centennial, CO Roger D. Dawson - Hurricane, WV Clifford T. Dos Santos - Aventura, FL Benjamin G. Echols - Riverside, CA Jon M. Edwards - Wagoner, OK Yvonne A. Ewry - Rancho Cucamonga, CA Thomas R. Gabauer - Mesa, AZ Paul Hagan - San Francisco, CA Roger W. Hall - Boulder, CO William C. Hohnstein - Seward, NE Canice Hong - West Covina, CA Matthew S. Hosman - Timmins, Ontario, Canada Jisun Kang - Riverside, CA Ronald D. Kelly - Raleigh, NC Timothy A. Kelly - Columbus, OH Jeremiah Lavno - Chula Vista, CA Robert E. Locke - Redlands, CA Delfred W. Lyons - Charleston, WV Alexander T. Marbella - Rowland Heights, CA Neil Mazur - Atlanta, GA Barry G. McClain - San Jose, CA Terence D. McDougall - Ottawa, Ontario, Canada Gordon D. McFarland - Omaha, NE Scott McPherson - Concord, NH Rick A. Miller - San Jacinto, CA Shawn D. Moore - Hemet, CA Edward L. Morsett - Castle Rock, CO Mark Morton - Oxford, CT George B. Murphy - Sioux City, IA Joseph Mutaku - Baltimore, MD Carl O'Day - Redlands, CA Kent R. Peterson - Redlands, CA Chris T. Prewitt - Kansas City, MO Richard A. Quiroga - San Antonio, TX Allen E. Robey - Lynchburg, VA Kelley L. Rosenlund - Newberry, FL Jim Rossiter - Hollywood, FL Maria LL Salcido - APO, AP Matthew H. Schiller - North Las Vegas, NV Jeff Schroeder - Delavan, WI Dana Seay - Milwaukee, WI Darius A. Sims - Riverside, CA Roy Stephenson - Lawrenceville, GA Allen A. Stewart - Littleton, CO Luis Taveras - Raleigh, NC Chris S. Thomas - Bremerton, WA Joel Traynor - Ft. Pierce, FL Jorge F. Trimarchi - Miami, FL Roger L. Wallace - Centennial, CO Geoffrey Wheeler - Yorktown, NY David Windham - Pelahatchie, MS

Bart Young - Manassas, VA

## **New Student Members**

Jesse Y. Alexander - Austin, TX Ethan Bach - Troy, NY Jeffrey J. Brown - Kirkland, WA Kent W. Daniel - Plainwell, MI Andrew T. Kiel - Rock Hill, SC Don E. Litspey - Tulsa, OK Neka N. Sharp - Willingboro, NJ Lawrence D. Barrows - Tenino, WA Andrew S. Cloud - Murfreesboro, TN Lee H. Fisher - Catasauqua, PA Mitchel W. Flannery - Fife, WA Andrew M. Hall - Tacoma, WA Joshua S. Huxhold - Lakewood, WA Alan M. Jaskiewicz - New Kensington, PA Michael B. Kempton - Tacoma, WA David Kerins - Brentwood, MO Matt G. Laubach - Eugene, OR Roxana Mehrian - Beverly Hills, CA Carleton W. Raymond - Gloucester, MA Richard Reagan - Cape Girardeau, MO Andrea Rule - Brighton, MA

## **New Associate Members**

Abe Bennett - Seattle, WA Roger Rafson - Pittsburgh, PA Paul Sablan - Hagatna, GU Jack Wenzinger - Broomfield, CO Thomas Conroy - Rocky Mount, VA Rodney C. Vandeveer - West Lafayette, IN

## **New Youth Members**

Jeffrey E. Miller - Parma Heights, OH Jon C. Jones - Lexington, KY

## **Reinstated Members**

Juan P. Alviz - Miami, FL Brent Branley - Sacramento, CA Donald W. Chapman - Houston, TX Peter D. Dennant, Jr. - Chesapeake, VA David D. Falcon - San Antonio, TX John E. Flanagan - Sierra Vista, AZ Clark HV Jillson - Boscobel, WI Noley W. Keener - St. Petersburg, FL Dan C. Kuznicki - Streetsboro, OH John H. Matthiesen - Seattle, WA Eugene McEfee - Chicago, IL John R. Owen - Peebles, OH Frank H. Peterman - Manvel. TX Gregory W. Ristau - Kent, WA Dennis W. Thompson - Fresno, CA Phillip S. Vaughan - Cathedral City, CA William M. Wall - Sacramento, CA Ronald M. Yurman - Short Hills, NJ William L. Amos - APO, AE

Larry L. Beavers - Fall River, MA Brian Bonds - Gary, IN Robert T. Carroll - Slidell, LA Ronald E. Davis - Ravville, LA Peter A. Douglas - Ruskin, FL Michael L. Douthat - Wichita, KS Joseph W. Hartmann - New Bern, NC John D. Kennedy - Nashua, NH Wade D. Klassen - Englewood, CO Jorge A. Lopez - Tucson, AZ Todd D. Lubbers - Laramie, WY Arthur J. Mendell - Kirklin, IN Alan E. Muniz - San Antonio, TX Anthony R. Neece - Tarzana, CA Anthony G. Padgett - Cocoa, FL David K. Peabody - Gardner, MA George Racz - Littleton, CO Laurence L. Richesin - Youngstown, FL Neal Sitler - Woodlands, TX David J. Smith - Boise, ID Danny G. Swope - Houston, TX Daniel S. Whitman - Frederick, MD Mark D. Williams - Kingston, OK Christopher F. Booth - Williamsport, IN Joseph H. Daniels II - Greensboro, NC Mark C. Doan - Topeka, KS Donald R. Horton - Shenandoah, IA Torrance Jones - Fort Washington, MD Jose G. Martinez - Aibonito, PR Jason R. Notermann - Watertown, MA Cristie L. Ogden - Riverside, CA Jerry L. Vohar - Lafayette, IN Jason N. Wallace - Las Vegas, NV Sheweet Yohannes - Washington, DC Victor B. Alcala - San Antonio, TX Gary G. Hetler - San Antonio, TX Michael R. Martin - Lakeland, FL Daniel P. Copher - Front Royal, VA Benjamin Hill - Pennsauken, NJ Peter J. Vernaglia - North Miami, FL Jonathan S. Weirmeir - Zanesville, OH William W. Ford, III - Lynchburg, VA Paul R. Jellison - Wilmington, OH Anthony H. Kurz - Gilbert, AZ Paul H. Sakrison - Santa Ana, CA Perry V. Priestley - Ellicott City, MD William R. Covert - Harrisburg, PA Peter A. Kingslien - Madison, WI Thomas H. Sittner - Bulverde, TX

## **REINSTATED ASSOCIATE MEMBERS**

James F. Armstrong - Duluth, GA

# **REINSTATED STUDENT MEMBERS**

Quentin E. Silver - Crofton, MD

# Chapters – A great resource

# BY John L. Poray, CAE

SBE Executive Director

BE chapters have been the backbone of the Society since the earliest days of SBE, when Chapter 1 was organized in Binghamton, New York. Monthly chapter meetings are, for many members, the place where they feel they get the most benefit from their SBE membership. Continuing education, professional and social networking and recognition are all a part of a good chapter program that, if you have not been attending chapter meetings, you've been missing. If you have gotten away from attending your chapter's meetings, why not put the next one on your calendar. I've included below a list of SBE chapters, organized alphabetically by state. The chapter chairperson is listed with, in most cases, their e-mail address. Where we don't have an e-mail address on record, their telephone number is included. If you haven't been to a chapter meeting in a while, contact your chapter chair and find out when and where the next meeting is and plan to attend.

You'll notice that a handful of chapters say "TBD" in the chapter chairperson

column. In those cases, there is no chapter chair and the chapter is likely not currently meeting. Would you like to see some chapter



activity in your area and feel you can help? Contact me at the SBE National Office, jporay@sbe.org or (317) 846-9000; or Chriss Scherer, Chapter Liaison Chairman, cscherer@sbe.org. We'll work to help you get your chapter moving again.

missing. say "TBD" in the				
State Ch #			Chairperson & Contact information.	
AK	Alaska	89	Terry K. Reynolds, CPBE reynolds@mtaonline. net	
AL	Birmingham	68	Tim Costley, tcostley@wtto.sbgnet.com	
AL	Huntsville	111	Joseph W. Kirby, CBTE, CBT, CBNT engineerjoe@bellsouth.net	
AL	Montgomery	118	Montgomery Larry J. Wilkins, CPBE, CBNT, AMD larrywilkins@charter.net	
AZ	Lower Colorado River	138	Robert J. Russell, CSTE, CBNT robert.russell@ sprint.com	
AZ	Phoenix	9	Rick R. Salsman, CPBE rsalsman@univision.net	
AZ	Tucson	32	TBD	
CA	Fresno	66	Patrick C. Fennacy, sbe66@hotmail.com	
CA	Inland Empire	131	Jerry L. Shorter, CSTE shortjl@dodmedia.osd. mil	
CA	Los Angeles	47	James E. Sensenbach, CPBE jsensenbach@ univisionradio.com	
CA	Sacramento	43	Jack L. Davis, CPBE tvchief@engineer.com	
CA	San Diego	36	Eric B. Schecter, CBRE eschecter@jpc.com	
CA	San Francisco	40	Arthur Lebermann, CPBE artleb@earthlink.net	
CO	Denver	48	James B. Schoedler, CBNT jschoedler@usa.net	
CO	Grand Junction	81	Bill Frost, CSRE bill@datavix.com	
СТ	Connecticut Valley	14	Valley Scott A. Baron, engineer@worc.com	
DC	District of Columbia	37	Thomas P. Shedlick, tom.shedlick@citicomm. com	
FL	Central Florida	42	Frank Torbert, ftorbert@wkmg.com	
FL	Jacksonville	7	James O. Biggers, CPBE jobtv4@aol.com	
FL	Palm Beach	88	Gary A. Minker, gary@radioworksrfconsulting. com	
FL	South Florida	53	TBD	
FL	Tampa Bay Area	39	Roswell D. Clark, CSRE, CBNT roz.clark@ coxtampa.com	
GA	Atlanta	5	William P. Magliocco, CPBE, CBNT, 8-VSB wmagliocco@earthlink.net	
HI	Hawaii	63	TBD	
14				

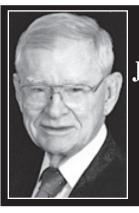
IA	Des Moines	109	Gregg T. Richwine, CBTE gregg.richwine@ whotv.com
IA	Quad Cities	65	TBD
ID	Palouse Clearwater	117	Darryl D. McGlothen, CBNT darryl.mcg@klewtv. com
ID	Southern Idaho	115	Richard Kemp, rick-kemp@qwest.net
IL	Central Illinois	49	Brian L. Dougherty, react96@hotmail.com
IL	Chicago	26	Mark S. Albert, CBTE msalbert@aol.com
IL	Rockford	96	Gregory A. Dahl, CPBE gregorydahl@ secondopinioncomm.com
IN	Indianapolis	25	Philip B. Alexander, CSRE, AMD dynotherm@ earthlink.net
IN	South Bend	30	David E. Gooding, CPBE dgooding@fox28.com
IN	Tri-State	121	Ben A. Davis, bdavis@regentevansville.com
KS	Kansas	3	John R. Langer, CBTE jlanger@k-state.edu
KS	Kansas City	59	Robert W. Cross, crossr@umkc.edu
KY	Kentucky	35	Jerry M. May, CPBE, CBNT jmay@wtvq.com
LA	New Orleans	72	Ernest J. Kain, erniekain@i-55.com
LA	Shreveport	44	Rudolph C. Johnson, CBRE rudy707@bellsouth. net
MA	Boston	11	Robert B. Yankowitz, CPBE rbyankowitz@cbs. com
MD	Baltimore	46	Vernon L. Dennis, Jr., radio.eng@verizon.net
MD	Fort Meade	132	Paul A. Curtis, Jr., CBT drillcurt@yahoo.com
MI	Central Michigan	91	Gary W. Blievernicht, garyb@wkar.org
MI	Grand Rapids	102	Patrick J. Tobin, CBTE, CBNT tobinp@ferris.edu
MI	Southeast Michigan	82	Robert D. Bracken, CBTE, CBT b.bracken@ wb20detroit.com
MN	Minneapolis	17	Jon G. Blomstrand, CSRE jblomstrand@ am1500.com
MO	Kansas City	59	Robert W. Cross, crossr@umkc.edu
MO	St. Louis	55	Terrence E. Dupuis, CBRE, CBNT tdupuis@ umsl.edu
MP	Saipan	26	Robert L. Springer, CPBE saipan@febc.org

the **SIGNAL** 

MS	Mississippi	125	Donald B. Driskell, CPBE donnie.driskell@ mpbonline.org
MT	Montana	137	Eric A. Hyyppa, CBNT eric_hyyppa@ montanapbs.org
NC	Charlotte	45	Michael C. Smith, CSTE, CBNT msmith@wtvi.org
NC	Raleigh-Durham	93	Charles B. Britt, cbritt@vnet.net
NC	Winston-Salem	84	ТВА
NE	Holdrege	87	Laverne T. Killion, CPBE vkillion@alltel.net
NE	Midland	74	Gina L. Dierks, CBT, CBNT, CTO gdierks@kptm. com
NH	Northern New England	110	David J. Raymond, CBTE wneu.sbe.chpt_110@ comcast.net
NM	Albuquerque	34	Michael F. Snyder, CPBE mike.snyder@ citcomm.com
NV	Las Vegas	128	Steven Scott, CPBE, CBNT, 8-VSB kd8s@ intermind.net
NV	Reno	139	Timothy J. Stoffel, CSTE timba@lionlamb.us
NY	Binghamton	1	Thomas G. Siglin, tiglin@sigtomics.com
NY	Buffalo	133	Raymond Felckowski, rfelckowski@pce.net
NY	Central New York	22	Christopher P. Baycura, CEV cbaycura@sbe22. org
NY	Ithaca	140	David D. Allen, allend@ithaca.edu
NY	New York City	15	Thomas R. Ray III, CPBE tomray@wor710.com
NY	Northeast	58	Charles Zarriello, CBTE (518) 456-1516
NY	Rochester	57	Edward Y. Wright, CPBE ewright@wxxi.org
OH	Central Ohio	52	John R. Owen, (703) 930-3763
OH	Northeast Ohio	70	Ronald Bartlebaugh, CBNT bartlebaugh@wksu. org
OH	Southwestern Ohio	33	George C. Hopstetter, CPBE ghopstetter@ thinktv.org
OH	Toledo	104	Kevin E. Olden, CBTE, CBNT kevin@ provideosystems.com
OH	Youngstown	122	Michael A. Heim, kd0ar@sbcglobal.net
OK	Central Western	85	Leonard Youngblood, CTO lyoungbl@sbgnet. com
OK	Tulsa	56	Roger W. Newton, CBNT rnewton@oeta.tv
OR	Eugene	76	Dennis R. Hunt, dhunt@cmc.net
OR	Medford	141	Rick Carrara, rcarrara@cmc.net
OR	North Oregon	124	Everett E. Helm, CPBE everett@helm.net
PA	Central Pennsylvania	41	Randall F. Miller, Jr., CBNT randamille@state. pa.us
PA	Lehigh Valley	120	Eric D. Reinert, CBTE ericr@wfmz.com
PA	Northeastern Pennsylvania	2	Joseph A. Glynn, CPBE joeglynn@wvia.org
PA	Northwest Pennsylvania	130	Michael J. Kobylka, mkobylka@erie.net
PA	Philadelphia	18	Mark D. Humphrey, CPBE, CBNT mark@xy- mark.com
PA	Pittsburgh	20	John J. Humphrey, CPBE john.humphrey@ azcar.com
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PR	Puerto Rico	142	Enrique Garcia, rgarcia@sistema102.com
PR SC	Puerto Rico Charleston	142 107	TBA

SC	Greenville Area	86	Jerry K. Massey, CPBE, CBNT, 8-VSB, AMD jmassey@entercom.com
TN	Knoxville	113	Charles D. Stallard, CPBE, CBNT doug.stallard@ wvlt-tv.com
TN	Middle Tennessee	135	David D. Dunsford, CBNT, CTO ddunsford@ sath.com
TN	Nashville	103	Donald E. Griffey, CPBE, CBNT engineer@wnkj. org
TX	Austin	79	Ernie Saldana, esaldana@kvue.com
TX	Beaumont/Lake Charles	134	Richard N. Rhodes, CBRE rrho170@sbcglobal. net
TX	Bryan	99	Jon P. Bennett, CBRTE jon.bennett@kamu. tamu.edu
TX	Corpus Christi	29	Stephen R. West, (361) 886-6100
TX	El Paso	38	Jose A. Castro, antonio.castro@cox.com
TX	Houston	105	Thomas A. Daniels, Jr., CPBE tdaniels@ univision.net
TX	North Texas	67	Paul J. Brown, CPBE buddyb@ktvt.com
TX	Rio Grande Valley	136	Jerry Jeske, jrjeske@riogrande.edu
TX	South Texas	69	Lewis E. Miller, (210) 270-9000
UT	Utah	62	Michael L. Hansen, CBRE, CBTE, CBNT, 8-VSB mike@4utah.com
VA	Blue Ridge	78	Eddie R. Durham, ecs@rev.net
VA	Hampton Roads	54	Chris G. Gunnufsen, chrisg@whro.org
VA	Richmond	60	Jon A. Bennett, CPBE, CBNT jbennett08@ verizon.net
WA	Seattle	16	James A. Dalke, CPBE, AMD jim@dalke.com
WA	Spokane	21	Kent A. Abendroth, kentabendroth@ clearchannel.com
WA	Tri-Cities	51	Martin L. Gibbs, (509) 547-5196
WI	Fox Valley	80	Keith M. Kintner, CPBE, CBNT kmkint3@yahoo. com
WI	UW Oshkosh	80.1	Dale J. Schroeder (Student Chapter)
WI	Madison	24	Dennis C. Baldridge, CPBE, CBNT, AMD baldridge@mwt.net
WI	Milwaukee	28	Todd A. Boettcher, CPBE tboettcher@milwpc. com
WI	Western Wisconsin	112	Paul A. Orth, CBNT paulorth@clearchannel. com
WV	Mountain State	116	Noel W. Richardson, CSRE nrichardson@ wvradio.com
WY	Wyoming	129	ТВА

Is an update necessary to your chapter listing? Contact Scott Jones at kjones@sbe.org



John 'Jack' M. Bushnell OKLAHOMA CITY, OKLA. 1924-2008 SBE Charter, Life Member

# 2008 Leader-Skills Registration

COURSE INFOR**MENOES** Each course includes three days (24 hours) of programming, all seminar materials, completion certificate and classroom refreshments. Class size to limited to a minimum of 10 and a maximum of 18 periodynais per course.

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If sensors other then the participant is filling out this form, please	provide the following information:						
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Course    Course I: Leadenship - The Premework of People Skills, Jone 3-5, 2008 (Systemics doubles: My 1, 208) ELECTION:    Course II: Leadenship - Repeading Your People Skills, August 5-7, 2009 (Exploration doubles: July 1, 208) Prorequisite: Course I, phase int location and your :    Course I and Course II (Systemics doubles: May 1, 2080)							
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<b>GE FILE TO:</b> (317) 846-9120							
Querrouse Holy here at home who are or (317) 545-9000	OFFICE USE OFFICE Date Localesis:						

Refail Confirmations

# **Attend 2008 Leader Skills Series**

he deadline to register for the 2008 Leader Skills Series is quickly approaching. Register now to reserve your spot to gain valuble leadership skills this summer. By attending this popular seminar specfically created for broadcast engineers, you'll make your company better and become a better leader. "My leadership skills improved and now our department will excel," said Michael Linz, who attended Leader-Skills Courses I and II in June and August of 2007.

"Every aspect was beneficial and relevant," he said. Linz was one of 10 who attended the Leader-Skills Seminars in Indianapolis.

The Leader-Skills Series is in its 12th consecutive year with SBE. It is specifically designed for broadcast engineers who have or aspire to have management responsibilities.

Many of the most respected broadcast engineering managers in the country today are graduates of the program and continue to send members of their staffs to the seminars. "This is what I needed, and now my team will be on the front lines," said Benja-

min Higley, who also attended Course I last June.

The Leader-Skills Seminars are designed to take technically proficient people and instill in them sound supervisory and management skills. "The series opened my eyes to a whole new way of looking at leadership and challenged me to act," explained Rich Parker, an attendee from 2006.

SBE offers the two-part series in cooperation with instructors Richard D. Cupka and Rodney Vandeveer. "Dick Cupka is one of the most influential people I have ever in my life had the pleasure to learn from. Rodney Vandeveer is also most excellent," said Linz. "I have never been so moved by a speaker and educator in my life."

Known for his unique style of teaching, Cupka has directed and taught the Leader-Skills seminars to broadcast engineering managers, supervisors and technicians for over 40 years. This summer is Cupka's last year instructing the Leader-Skills Seminars before he fully retires, then Vandeveer will continue on instructing the SBE series in future years.

This year, Course I, "Leadership – The Framework of People Skills" will be held June 3-5 at the Holiday Inn Select Airport in Indianapolis. It covers the function and nature of your leadership role; how to build stronger teams and effective internal cooperativeness; the complex differences of people; and discovery of your natural style of leading and how to nurture a developed style to help you adjust to different people in differing situations. Course II, "Leadership – Expanding Your People Skills" picks up where Course I leaves off and will be offered from August 5-7. Each course is limited to a minimum of 10 and a maximum of 18 participants, so register early. "I wish I'd done this years ago, but I'm glad I finally did it," said Parker.

The cost of the registration is \$580, which includes three days of instruction, all course materials, a certificate of completion and classroom refreshments. All transportation, housing and meals are the responsibility of the participant. A single or double room can be reserved through SBE at the Holiday Inn Select Airport, where the course will be held, at a rate of \$115 per night.

Register now, as space is limited. Fax your registration to 317-846-9120 or mail it to 9102 N. Meridian St., Suite 150, Indianapolis, IN 46260. If you would like more information on the SBE Leader-Skills Series, please contact Holly Essex at (317) 846-9000 or hessex@sbe.org.

# ENNES E D U C A T I O N A L FOUNDATION TRUST

## Harold Ennes Scholarship

Bradford Scott, Cincinnati, OH Richard Thomas, Okemos, MI David Anderson, Albuquerque, NM Barry Thomas, Atlanta, GA Wilson Brown, Holden, MA Ernest Sutton, Jr., Sweetwater, TN Frederick Ervin, Grove City, OH R. Wayne Estabrooks, Pittsboro, NC Jorge Conde, Guayama, PR Robert Orban, San Leandro, CA David Stewart, Dallas, TX Jan Pritzl, Milwaukee, WI Alan Wray, Alexandria, VA Timothy Parish, Kennewick, WA Britt Lockhart, Yukon, OK Thomas Wimberly, Bakersfield, CA John Turner, Mountain Lakes, NJ John Batson, Birmingham, AL Robert Connelly, Riverton, WY

# thanks to the following supporters for their scholarship funds contributions:

## Robert Greenberg Scholarship

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## Youth Scholarship Scholoarship

David Lamoreaux, Brecksville, OH J. Cole McClellan, Austin, TX Gary Faller, Winter Garden, FL Richard Barnes, Pasadena, MD David Stewart, Dallas, TX Stephanie Weil, New York, NY Timothy Parish, Kennewick, WA Kishore Persaud, Charlottesville, VA

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

# FCC on page 1

expeditiously as possible.

This decision is extremely good news. The BAS transition has not proceeded as quickly as we would like, despite good faith by licensees, Sprint Nextel, manufacturers and systems integrators. The short extension will give broadcasters, manufacturers, and Sprint Nextel the time they need to produce, integrate, and install new equipment in local markets across the country.

But neither the BAS licensees, nor Sprint Nextel can take the additional time for granted. The FCC has sought comment on whether and how to allow MSS and MSS ATC operations to commence nationwide regardless of whether the transition is complete beginning January 1, 2009. To allow mobile-satellite service licensees to enter the 2000-2020 MHz band this vear, moreover, the FCC has required Sprint Nextel to transition four additional market clusters - Salt Lake City, Utah; Raleigh-Durham, North Carolina; Washington, DC; and Houston, Texas - no later than September 30, 2008. In addition, the FCC required Sprint Nextel to file station-specific reports every other month on BAS relocation progress beginning April 1, 2008. The reports must identify each station's

progress in obtaining price quotes for BAS equipment, finalizing frequency relocation agreements with Sprint Nextel, submitting purchase orders, and other areas. The existing schedule also includes several important benchmarks for BAS performance, including:

- March 18, 2008 Quote Packages for Replacement BAS **Equipment Due**
- July 1, 2008 Signed Frequency **Relocation Agreements Due**

With MSS market entry looming, nationwide MSS-BAS sharing on the horizon, and detailed reporting requirements beginning in April, every day counts.

The FCC now knows, thanks to the joint parties' ongoing and extensive lobbying efforts at the FCC, how challenging the BAS relocation is. The FCC has acknowledged the unanticipated complexity of the relocation effort, the highly specialized equipment, and the limited number of qualified manufacturers and installers. While the FCC has done the right thing in granting additional time, the agency's patience will not last forever. Therefore, we urge you to pay close attention to the cutover schedule and make every effort to meet the interim benchmarks for relocation performance leading up to the anticipated relocation weekend in

# **SBE Certification 2007 Exam Schedule Application Deadline**

# Dates

April 15, 2008 June 6-16, 2008 August 8-18, 2008 November 7-17, 2008 Location

NAB **Local Chapters Local Chapters Local Chapters** 

CLOSED April 18, 2008 June 6, 2008 September 19, 2008

\*\*Chapter 78 will be giving exams during the Virginia Regional, July 17, 2008. Please have your application into the National Office by June 26, 2008

your market. If problems arise, contact your market's frequency coordinator, SBE, and/or the local market's Sprint Nextel representative, before issues can contribute to delay. Working together, we will complete a smooth BAS relocation.



Ben Allen, CBT has joined Burk Technology as Applications Engineer. Prior to that Allen was with Equity Broadcasting of Little Rock.

## Larry Bornacelli, CBRE, CBNT

became the new Cheif Engineer and IT Direcetor for Northeast Broadcasting - WXRV-FM, WNYN-FM, WGAW-AM, WJOE-AM - in Haverhill, MA.

## Ralph Hogan, CPBE DRB CBNT, is

now Director of Engineering for KJZZ-FM and KBAQ-FM of Maricopa Community College in Tempe, Arizona. He was formerly Assistant General Manager, Engineering Services at Washington State University in Pullman.

If you or someone you know moved, changed positions, or been honored in some way in the broadcast engineering industry, submit details to Member on the Move at hessex@sbe. org or to Attn Holly Essex, 9102 North Meridian St., Suite 150, Indianapolis, IN 46260



A: (B) A receiver with two intermediate frequency conversions

ANSWER from page 4

# Annual Awards Nomination Form for 2007

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# CHAPTER AWARDS

# INDIVIDUAL AWARDS

# SAIT EXHOUSE CONVERTION OF CONVERTIGA

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## COMPLETE THE FOLLOWING INFORMATION

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NOMINATION (GUPTEL DE FONDUL IMEE)

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Tayloo Hann Jamb \_\_\_\_\_ \_\_\_\_\_Chapter Name and No. \_\_

Address \_\_\_\_

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Silver Members, those with at least 25 years of membership, are highlighted with a silver box New Members are listed in blue

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Bradley L. Dick (913) 341-1300 Journal of the Broadcast Industry

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 Niche (800) 426-8434

Audio Broadcast Equipment Supplier **Broadcasters General Store**•2004 Buck Waters (352) 622-7700

One Stop Broadcast Store

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

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

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

22

ADC Telecommunications Inc. 1998 | COMET North America 2005 Steve Claterbaugh (214) 235-6596 Capacitors, Variable & Fixed

> Comrex Corporation•1997 Chris Crump (978) 784-1776 Remote Audio Broadcast Equipment

Comsearch•2004 Tim Hardv (703) 726-5651 Frequency Coordination Ser-vices, Continental Electronics

Continental Electronics Corporation•1976 Michael Troje (214) 381-7161, (800) 733-5011 AM & FM IBOC Transmitter Rebuilt Power Tubes

Crispin Corporation•2006 -2000 Brian Gleason (919) 845-7744 Broadcast Automation Solutions

Dataworld•1998 John T. Neff (800) 368-5754 Coverage Maps and Services

Dialight Corporation+2006 Doug Woehler (732) 991-2837 Obstruction Lighting, L.E.D. Based

Dielectric Communications•199 Jay S. Martin (207) 655-4555 TV & FM Broadcast Products

Digital Alert Systems, LLC•2005 Bruce Robertson (520) 488-8667 IP Based EAS ENDEC DiskStream Incorporated•2006

Rein Taul (519) 579-8166, ext. 57 Capsa Video Archive

DMT USA, Inc.•2003 Tom Newman (856) 423-0010 Television Transmitters, Trans-lators and Antennas

DSC Laboratories•2002 Michael Kent (905) 673-3211

Test Charts & Illuminators DTVinteractive•2007 Jennifer Jang (+82) (0)2-3446-2040 est & Measurement

Solution Provider du Treil, Lundin & Rackley, Inc.•1985 Jeff Reynolds (941) 329-6000

Consulting Engineers DYMO Corporation•2006 Robert Garvey (717) 342-8090

Broadcasters One-Stop Supplier RHINO Professional Labeling Product

e2v technologies Inc.•1997 Johnson (541) 779-6500 Rick Bossert (800) 433-8269, (800) 342-5338 Klystrons, MSDC IOTs, IOTs, Satcom Amps, TWTs Communications

100.1980 (800) 532-6626 or (530) Madison Batt (206) 926-0508

Electrorack Enclosure Products •2008 L-3 Communications Electron

Todd Schneider (714) 776-5420 Racks, Enclosures, Power, Accessories

662-7553

ENCO Systems Inc.•2003 Don Backus (800) 362-6797 Digital Audio Automation & Delivery

Environmental Technology Inc.•1997 Iohn Cahill (800) 234-4239, ext. 229 Dehydrators, Deicing Sensor & Controls for Broadcast/FM and Satellite Antennas

David White (812) 925-6000 Antennas, Towers, Filters, Combiners ETS-Lindgren/Holaday EMF Measurement•2003 Dave Seabury (908) 876-5042 **RF** Safety Instrumentation Excelsior College•2007 Andre Adams (518) 464-877

ERI - Electronics Research • 1990

Distance Education Degree Programs Florical Systems+2008 Jim Berry (352) 372-8326

Television Braodcast Automation Freeland Products•1997 Joel Freeland (800) 624-7626

Frontline Communications Corp. Doug McKay (727) 573-0400, ext. 120 Broadcast/Command/HLS Vehicles

Fujinon, Inc.•1986 Thom Ćalabro (973) 633-5600 Broadcast & Communications Products

Gepco International, Inc.•1995 Ken Bernd (847) 795-9555

udio, Video Cable Products Google Inc.•2005 Scott Bodgan (949) 791-1200 SS32, Maestro, ASP Solutions

Harris Corporation, Broadcast Communications Division-1977 Joe Mack (TV), Chris Pannell (Radio), Bob Duncan (Software) (513) 459-3406, (406) 556-0280, (719) 439-0130

Broadcast Equipment & Services HD World+2006 Michael Driscoll (203) 371-6322 HD World Conference & Exposition

(Oct. 10-11, 2007, New York) Holbrook Enterprises, Inc.•2006

Heywood Bagley (208) 468-8797 WireCAD - Serious design tools Image Video•1997

Dave Russell (416) 750-8872 ext. 230 Under Monitor Tally Display Systems, Monitor Walls, Signal Alarm Systems

JDSU•2007 Brigette Robbins (919)338-5061

Joseph Electronics Inc.•2003 Yohay Hahamy (847) 501-1584

Kathrein Inc., Scala Division•1985 Michael Wm. Bach or Mike

Antennas for Broadcasting & KPFF Consulting Engineers•2004

New & Rebuilt Transmitting Tubes Tower Engineering, Inspections Design

> 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 LEA International•2004 Carol Rassier (208) 762-6121 Power Quality Products & Services Lincoln Financial Media•2007 Don Shaw 704-374-3639 Media, Communications

LP Technologies, Inc.•2006 Samuel Lee (316) 816-9696

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

Spectrum Analyzers

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

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

Planning

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

Passive Electronic Filters Microwave Radio Communications•1991 Nadine Frechette (978) 671-5700

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

Middle Atlantic Products•2005 David Amoscato (973) 839-1011, ext. 1197

Enclosures, Power, Accessories Minkin Design Inc.•2005

Jay Minkin (206) 250-7481 System Integration/Design/ Documentation

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

**RF** Signal Management Morrow Technologies, Inc.•2002 **Radian Communication** Tish Boyles (727) 531-4000 Services Inc.•1986 Spectrum Analyzers

Moseley Associates, Inc.•1977 Towers, Antennas, TV Transmitter Dave Chancey (805) 968-9621 Installation RDL+2004 RF & T1 STLs

Iohn Gatts (928) 778-9678, ext. 111 Audio, Video, Control & Test nal Association of Broadcasters ·1981 (202) 429-5340 Equipment Manufacturer

Industry Trade Association RF Central, LLC•2005 National Football League 1999 Jeff Winemiller (717) 249-4900, ext. 222 Iav Gerber Game Day Coordination Operations Digital Wireless Microwave Equipmen

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

**ROSCOR Corporation**•1998 Nucomm, Inc.•1996 John Dulany (908) 852-3700 Digital Microwave Transmission Tom Voigts (847) 299-8080 DTV System Integration Equipment

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

Terminal Equipment

Ross Video Ltd.+2000

Manufacturer, Television

Broadcast Equipment- New/Use

Seacomm Erectors, Inc.•1997

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

Video Equipment Manufacturer

Stainless LLC/Doty-Moore•2004

Tower Engineering/Tower Service

Stratos Global Corporation•2006

Folef Hooft Graafland (Eastern USA), Chris Mott (Western USA)

Sundance Digital, Inc.•2004

Broadcast Automation Solution

Superior Broadcast Products•1999

Vacuum Tube & Solid State Transmitter

Michael J. Miga (860) 585-4552, (800) 787-3532 Power Protection Equipment

Superior Electric•1995

Sutro Tower, Inc.•1989

Broadcast Tower Leasing

Switchcraft, Inc.•1995

ektronix, Inc.•1977

Electronic/Electromechanic

Jon Hammarstrom (503) 627-6936 TV Test, Measurement Equipm

Gene Zastrow (415) 681-8850

Jim Hoffman (773) 792-2700

Murray Porteous (818) 566-6700

(216) 241-7225

Company•2003 Steven Slocum

(888) 373-4832

(212) 997-5508

FCC Licensing Services

4 Times Square•2004 John M. Lyons, CPBE

The Durst Organization -

TV/FM/Microwave Tower Site

Denny Sander

Intercom Systems, Microphones, Headsets

Telos Systems/Omnia/Axia•2003

Telos Systems - Talk-Show Systems

Terrestrial RF Licensina

Components

Steve Krant (972) 444-8442

Benny Springer (800) 695-7919

FM Antennas & Combiners

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

Shively Labs+1996

SignaSys•2005

John Shike (818) 556-2616

Les Kutasi (215) 631-1313

Jay McGrath (518) 731-7447

Equipment Racks

Stantron/APW•2006

leff Wolter

Broadcast Equipment

Burt Young (613) 652-4886

SCMS, Inc.•2000

Bob Cauthen (800) 438-6040

The Whitlock Group+2000

Broadcast and Presentation Solutions

Thomson Broadcast & Media

TV/Film Production & Broadcast Professionals

Tieline Technology•2003

POTS, ISDN Codecs & Audio/

Total RF Marketing•2001

Wireless Broadcasting Equip-

Kévin Thompson (800) 726-9843

Solutions•2000

William Powers

(404) 929-5007

Kevin Webb (888) 211-6989

Video Products

Tom Sharkoski

ment Renta

(215) 633-1000

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

Brian Goldberg (661) 702-8900

Troll Systems, Inc.•2006

Broadcast Control Systems

Turner Broadcasting/CNN •2007

Television Engineering Services

Michael A. Marley (315) 699-4400, (800) 739-9169

Tower Obstruction Lighting De-signer, Manufacturer, Distributor

Broadcast Systems Integrator

AM/FM Broadcasting Antennas

Broadcast Traffic & Automation

Venture Technologies Group,

V-Soft Communications+2002

Broadcast Engineering Software

Ward-Beck Systems Ltd.+2004

(416) 335-5999 Metering, Monitoring, Distribu-

Wire Wizards Integration•2007

Reliable Specialized Installation

Broadcast System Integration

Wohler Technologies Inc.•2004

Lighting Distributor/Obstruction

Wysong Enterprises Inc.+2005

Helicopter E.N.G. Solutions

the **SIGNAL** 

In-Rack Audio & Video

TRON-Tek, Inc.•1993

W.M. (Bill) Grass

Part 74 Video Links

Unimar, Inc.•2001

TV Magic•2008

Eva Langer (858) 650-3155

VALCOM-1996

Bill Burtenshaw (519) 824-3220

VCI Solutions•2007

Kristin Garini (413) 272-7200

Larry Rogow (323) 965-5400 Television Stations

(319) 266-8402

Solutions

LLC•2006

Adam Puls

& Consulting

Michael Iordan

tion. Conversion

Mr. Mark Guidire

(619) 992-0549

Services+2006 Mr. Travis Donahue

(951) 371-4900

Milton Garcia

Monitoring

Lighting

(510) 870-0810

WSI Lighting-2008 Randy Daremus (800) 783-1450

Rodney Wysong (423) 325-6900

Services

Technicians

Telex Communications, Inc.•1992 Wireless Infrastructure

(888) 819-4877

Brad Ramer (404) 827-5020

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

Sencore, Inc.•2005 Panasonic Broadcast & Digital Systems Company•1985 Jeff Murray (800) 736-2673 Tom Moore (201) 392-6176 Audio/Video Test Equipment

Professional Broadcast Equipment Pasternack Enterprises•2001

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

(408) 350-7210 PESA Switching Systems, Inc.•1997 Robert McAlpine (800) 328-1008 Integration, Support, Training Snell & Wilcox, Inc.•1995 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 (888) 766-1313 (USA) (709) 748-4233 (Rest of World) Quality Broadcast Antenna Syster Streaming & Voice via Satellite Strobe Tech, LLC•2008 Prophet Systems Innovations\*2003

John Gager (308) 284-3007 Wes Pimentel (931) 648-8414 Audio and Video Content Management Tower Lighting Experts ProVideo Systems, Inc.•2000

Sales, Consulting, Design & Integration

Telco Broadband Audio Transmission

Quintech Electronics and Communications Inc.•2002

Dave Goldsmith (419) 874-2850

Pulsecom•2003

Stan Bailey (630) 961-3253

Richard E. Bush

John McKay

866) 4-RADIAN

Richardson Electronics•1987

Chris Chinchilla

(800) 348-5580 Power Grid Tubes

Richland Towers•2001

David Denton (813) 286-4140, ext. 6872

Tower Owner/Management

Broadcast Transmitters, Test &

Rohde & Schwarz•2003

Eddy Vanderkerken

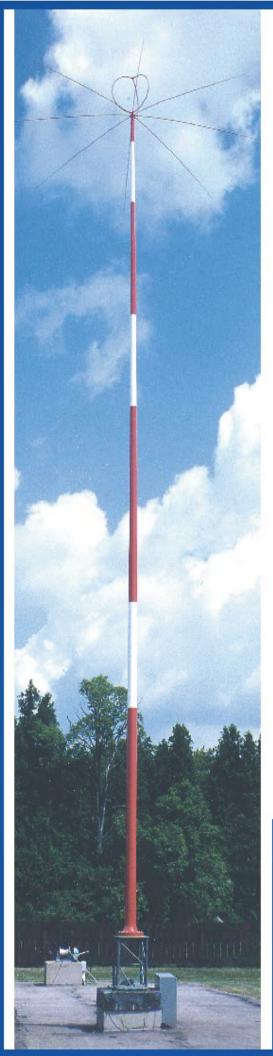
(469) 713-5322

Measurement

(724) 349-1412

# AM Antenna Solutions





# Free Standing AM Broadcasting Antenna

# FCC Media Bureau Adopts Simplified Application Procedures for AM Nondirectional Valcom Antennas

By this Public Notice, the Media Bureau ("Bureau") announces simplified procedures for AM station construction permit applications which specify Valcom antennas. Based on its review of the Valcom field tests and internal reports submitted to the Commission for evaluation, the Bureau announces that it will not routinely require the submission of a proof of performance, current distribution measurements, or a formula for the vertical plane radiation characteristic for nondirectional AM facilities which utilize these antennas.

# Thirty (30) Years Proven Experience



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