

SBE elects Hogan as 2012-2013 president

Ralph Hogan, CPBE, DRB, CBNE has been elected to a second one-year term as president of the Society of Broadcast Engineers. His term begins on October 24 during the SBE National Meeting in Denver, Colo. Hogan is associate general manager at KJZZ-FM/KBAQ-FM in Tempe, Ariz.



Ralph Hogan, CPBE, DRB, CBNE

Elected to one-year terms as officers were Joe Snelson, CPBE, 8-VSB, vice president of engineering at Meredith

Corporation in Las Vegas, Nev. as vice president; James Leifer, CPBE, director of engineering & IT at Clear Channel South Florida in Miami, Fla. as secretary; and Jerry Massey, CPBE, 8-VSB, AMD, DRB, CBNT, corporate regional engineer and DoE at Entercom Communications in Greenville, S.C. as treasurer. All three will be serving their second terms in those offices.

Six directors were elected and will serve

two-year terms. They include Tim Anderson, CPBE, DRB, CBNT, manager, strategic radio market and product development, Harris Corporation Broadcast Communications Division in Mason, Ohio; Gary Kline, CBT, CBNT, senior vice president of engineering, Cumulus Media in Atlanta, Ga.; and Scott Mason, CPBE, CBNT, west coast director of engineering, CBS Radio in Los Angeles, Calif. All are currently members of the board.

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Webinars by SBE presents 'Chief Operator Responsibilities'

One of our most popular webinars, Chief Operator Responsibilities, is being presented live again on October 17. This training will cover the responsibilities of the designated chief operator and the duties necessary to

fulfill this position. Dennis Baldrige, who is presenting this webinar said, "The top 10 most common Notice of Violations issued by the FCC are often directly related to duties required by the station's chief operator."

The licensee of each AM, FM, TV or Class A TV broadcast station must designate a person to serve as the station's chief operator (FCC

WEBINAR, page 12

Remembering John Battison

By John L. Poray, SBE Executive Director

On August 28, we were saddened with the news of the death of John Battison. Our sympathy continues to be extended to his wife Sara, four children and the rest of the Battison family, friends and colleagues. Most members of the SBE know him best as Member #1; the SBE's founder and first president. Many of us also know him as a great broadcast engineer who exhibited a colorful personality and a dry wit. He led a long and productive life - he was almost 97 when he died, that was as diverse as it was long.

Born in England in 1915, John's interest in electronics and broadcasting developed at an early age. As a young adult, he worked



John Battison, P.E., CPBE.

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David Kolesar, Senior Broadcast Engineer
Bonneville International Corporation
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SBE announces detailed plans for 2012 National Meeting in Denver, Oct. 23-24

The SBE is heading to the Rocky Mountain State for the 2012 national meeting. The Rocky Mountain Audio Video Expo will be the event partner while Chapter 48 of Denver will be the local host. All of the events of the expo and the SBE National Meeting will be held at the Crowne Plaza Denver International Airport.

The SBE National Meeting begins on Tuesday, October 23 with a meeting of the SBE Certification Committee from 2 to 4 p.m. The regular fall meeting of the SBE National Board of Directors is scheduled from 6 to 10 p.m.

National Meeting activities continue on Wednesday, October 24 with the annual SBE Fellows Breakfast from 8 to 9 a.m. All SBE Fellows are invited to attend as guests of the SBE. National SBE officers and the chairman of Chapter 48 are also invited. Reservations for the

SBE Fellows Breakfast are required. The SBE is pleased to welcome back a long-time sponsor for the SBE Fellows Breakfast, Kathrein Inc. – Scala Division, which has sponsored every breakfast since the inaugural event in 1997.

An SBE Frequency Coordinators meeting takes place from 1-2 p.m. The SBE Annual Membership Meeting will be held from 4 to 5 p.m. The meeting will include reports and updates on society membership, finances and programs. The induction of newly elected members of the national board and officers will also take place. Membership Drive winner Aaron Savage, CBT, and the Golden Recruiter Award winners, Chapter 58 and Chapter 78, will also be recognized at the meeting.

The Annual Membership Meeting will be

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Grambau, Lettsome, Shah receive 2012 Ennes Trust scholarships

The Ennes Educational Foundation Trust has awarded three scholarships to broadcast engineering and technology students. Members of the SBE, Nathan Grambau, De'Moi Lettsome and Neel Shah have been selected by the Scholarship Committee to receive funding to further their education.

The Harold E. Ennes and Robert D. Greenberg scholarships are awarded to individuals interested in continuing or beginning their education in broadcast engineering and technology. The Youth Scholarship is an award for a graduating high school senior interested in broadcast engineering as a career. Each scholarship awarded this year is for \$1,500.

Shah, of Billerica, Mass., is the recipient of the Harold E. Ennes Scholarship. As a junior majoring in electrical and computer engineering at Northeastern University in Boston, Mass., he plans to use the scholarship money for tuition. Shah has been living in the United States for eight years. English is his fourth language.

Shah has been part of a research team developing state-of-the-art parallel computer vision algorithm called SURF (Speeded Up Robust Features) at Northeastern University. The code is used in a number of emerging broadcast engineering problem domains including computer-assisted medical imaging and airport security. As an undergraduate, Shah has presented his research work at various

conferences, including RICC (Research and Industrial Collaboration Conference) where his poster won the Best Poster Award out of 65 submitted posters.

While studying Engineering at Northeastern, he also has completed one cooperative education (co-op) experience at Advanced Micro Devices (AMD), a multinational semiconductor company. He worked as a co-op design engineer in the team developing state-of-the-art next generation x86 AMD CPU cores. Shah is heavily involved in community services activities at Northeastern University and is the vice president of the Institute of Electrical and Electronics Engineers (IEEE) chapter at Northeastern University.

Grambau, of Ketchikan, Alaska, is the Robert Greenberg Scholarship winner. He recalls getting the broadcasting and media bug in high school during an introduction to broadcasting course. This led to more high school level production courses and eventually a Bachelor of Arts degree in broadcast and cinematic arts from Central Michigan University in 2004.

Along with several jobs in commercial and public radio and public access television, Grambau put himself through school. Looking for adventure after graduation he moved to Alaska to work as a program director for KDLG-AM 670 in Dillingham, Alaska. A "bush" community of roughly 2,100 residents that

SCHOLARSHIP, page 8



LETTER FROM THE PRESIDENT

by Ralph Hogan, CPBE, DRB, CBNE
SBE President
rhogan@kjzz.org

Exam study tools assist engineers reap benefits of CBNE

The latest Society of Broadcast Engineers certification, Certified Broadcast Networking Engineer™ (CBNE™), has become popular with those wanting to demonstrate their knowledge of broadcast IT networks and facilities. Over the last twenty or so years, the need has increased to a point where network engineers are considered necessary to support and build modern broadcast plants. This certification recognizes the importance of computer networking in broadcast engineering and provides potential managers and employers with a benchmark to evaluate an individual's skill in this area. By obtaining this certification, they know those holding the CBNE certification are more than familiar with the essentials of both networking and how it applies to broadcasting.

The CBNE exam is designed for experienced broadcast professionals with significant experience in IP networks and associated storage and play out technologies employed in radio and television operations. As an advanced level of certification, the CBNE exam contains more complex content than the Certified Broadcast Networking Technologist certification.

CBNE candidates must have five years of suitable experience in broadcast engineering or related technology and must achieve a passing grade on the proficiency exam.

Substitution of broadcast engineering or education in related technologies, for experience may be made as follows:

- A state registered Professional Engineer's license will count as four years experience for all levels of certification.
- A bachelor's degree counts as four years experience.
- An associate degree counts as two years experience.
- Years of related accredited education, i.e., military, correspondence, etc. can be substituted, year for year, up to four years.
- Applicant will not receive dual credit for concurrent years of experience and education.

The CBNE Exam

Exams are three hours and consist of 50 multiple-choice questions. Each exam is

computer-selected from a pool of questions, and every exam is unique. Each question is worth two points. One essay-type question is selected specifically for each applicant, based on their reported background and training. Each essay question is worth 20 points.

Eligible applicants may apply to take the CBNE exam during the February 8-18, 2013 exam session offered through local chapters of the SBE. Applications to take the exam must be received in the SBE National Office by December 31. No additional certifications are required to apply.

Most applicants will require some level of review or study. To assist those preparing to take the CBNE exam, the SBE offers SBE CertPreview for CBNE. This is a series of 50 interactive practice questions, which is available for download or on CD at the SBE website; in addition there is a set of recommended references.

The SBE is also presenting a series of IP networking webinars through its education program that will assist those preparing for the exam. The "IP Networking, Part 1 - the OSI Model and Layers" webinar is the first in the series that aids in the self-study for the SBE CBNE certification exam. Instructing the webinar is Wayne Pecena, CPBE, 8-VSB, AMD, DRB, CBNE.

This webinar introduces concepts of the OSI Model, TCP Model, and the application to the Physical, Network, and Transport layers as applied to IP Networking in the broadcast environment. Content focuses on the broadcast plant where possible and is applicable to those sitting for the CBNE exam.

Some of the topics covered are:

- How network models are

related to the development of standards and practices

- Physical layer implementation of Ethernet technology in wired and wireless environments
- Physical network addressing and role of the network layer in Ethernet networks
- TCP & UDP and the role of the transport layer in IP networks
- Why UDP is utilized in the broadcast network environment

For those who hold the CBNT certification and meet the requirements of the CBNE certification, I challenge you to step up and sit for the exam. If you have been working as a broadcast engineer doing IT related tasks without certification, I urge you to pursue a certification that will reflect your skill and experience. Show others that you care about your profession and that you have the required knowledge to do your job. Fill out the CBNE exam application today.



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LEGAL PERSPECTIVE

by Chris Imlay, CBT
SBE General Counsel
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Helicopter noise, RF exposure reregulation and government accountability- regulations from hither and yon

It is always tricky writing these articles for The Signal because one never knows whether by the time this hits your mailbox the issues discussed will have mooted the article. Let's hope this is not one of those times. From the land of overregulation, southern California, we are alerted to the flaring up of an issue that threatens electronic news gathering from time to time. Since it has nothing at all to do with the FCC it is important for SBE members like Tom Weems and Howard Fine to sound the alarm when they hear about local issues that tend to become widespread.

Tom noticed recently that a hearing was scheduled in the Los Angeles area to address what the local residents, especially in the area around Sherman Oaks, said constituted a big problem: news helicopters hovering for long periods of time over newsworthy events in neighborhoods. Aircraft noise complaints are nothing new, of course. They arise as residential development encroaches on airports that were originally built in less densely developed areas. But this is kind of a big deal in L.A. because the citizen's complaints there are focused directly on newsgathering efforts, and it has attracted the interest of United States Representative Howard Berman and the FAA. A hearing was held to evaluate helicopter noise around the region in early August and 250 residents and homeowners' associations showed up to raise their concerns. Howard Fine was there (as he normally is at every event of interest to broadcasters in Los Angeles). The witnesses blamed news helicopters specifically and complained that the noise from the ENG efforts lasted for hours at a time. Public safety helicopters were not blamed at all; instead, it was the broadcasters who were accused of hovering for hours to get news shots - so that they could "make a buck," as the complainants put it. The FAA was asked by these groups to please consider elevation minimums for news helicopters, route restrictions and neighborhood curfews. None of these proposed solutions would accommodate ENG efforts by broadcasters in the larger markets where helicopters are an integral part of broadcast ENG.

Maybe for now this is a California thing. Helicopters in Los Angeles for ENG are certainly not new, but apparently the closing temporarily of the 405 freeway last July resulted in a particularly

intense period of helicopter hovering for ENG purposes, and therefore a sharp increase in the number of complaints of low-flying helicopters which hover over crime and traffic scenes for long periods of time. Representative Berman introduced a bill, the Los Angeles Helicopter Noise Act (which has as much pork in it as it sounds like it has) which apparently is going nowhere in what is left of this session of Congress. But the fact that this has gone this far in Los Angeles indicates that perhaps broadcasters need to be a bit more sensitive about the noise that results from their aeronautical ENG efforts, at least in residential areas. Maybe it is time to do some self-regulation here, in order to avoid mandatory federal limitations on the use of ENG technology. FAA or legislative regulations could be much worse, coming from people who do not understand our industry and the need for real-time ENG as well as broadcast engineers do.

On another topic entirely, it has been a long time now since the FCC took a look at updating its RF Exposure regulations. It appears that they are planning to do so again soon, however. There has been since June of this year, on circulation among the FCC Commissioners, a draft Report and Order; a Further Notice of Proposed Rulemaking; and a Notice of Inquiry dealing with a Reassessment of FCC's Radiofrequency Exposure Limits and Policies. These documents, which may be consolidated into one, will finally advance the ET Doc. 03-137 proceeding, which has been open and pending without any action for almost a decade now. This delay is not really surprising, though, because FCC has never been entirely comfortable establishing regulations in this area. They have quite candidly noted all along that they are not the expert agency in the area of health effects of RF non-ionizing radiation.

In July of this year, the Government Accountability Office (GAO) issued a report at Congress' request titled "Exposure and Testing Requirements for Mobile Phones Should Be Reassessed." As you can tell from the title, the tenor of the article was a bit critical of the FCC (and the Food and Drug Administration, which has shared jurisdiction over this issue with FCC) for not periodically updating FCC's RF exposure rules. Though this study deals with long term RF exposure effects from mobile phones specifically, it is a very good overview of the

United States somewhat tentative efforts since 1998 to regulate RF exposure and to determine the proper levels of protection from non-ionizing radiation. The report is GAO-12-771 (Telecommunications) and is available electronically from the GAO website. Among its findings is that FCC has not updated its RF exposure regulations, including those specifying the maximum specific absorption rate (SAR), a measurement of the amount of RF energy that is absorbed into the human body, since it adopted those regulations in 1996 based on 1991 information from IEEE that was approved by the American National Standards Institute (ANSI) in 1992. The standard based on those recommendations was based on a limit of 1.6 watts per kilogram, averaged over 10 grams of tissue.

Since then, in 2006, IEEE published an updated standard for exposure based on a limit of 2.0 watts per kilogram, averaged over 10 grams of tissue. This limit is apparently approved by the International Commission on Non-ionizing Radiation Protection and has been adopted in 40 countries, including the European Union countries. But it is not in place here. FCC has taken a typically passive attitude about this, and its explanation for why no action has been taken to implement newer standards so far is not surprising to FCC-watchers in this area. Senior FCC officials said that the agency has not adopted a newer limit because "Federal health and safety entities have not advised them to do so." FCC said that it relies heavily on the expertise of these health and safety entities such as FDA and EPA but those agencies reported to the GAO that the FCC never asked them for a formal opinion on the RF energy exposure limit. So it appears that all of the agencies with front-line jurisdiction here can't bring their regulations on this subject up to date because they simply aren't talking to each other about it. Questions not asked should be asked without further delay.

Maybe this is about to change when the commissioners approve this new document in Docket 03-137 and a new Notice of Proposed Rule Making and Notice of Inquiry are issued. The right questions can be asked. The environment in which Broadcast engineers work should be governed by the latest in scientific knowledge about the effects of RF energy on the human body. We deserve that.

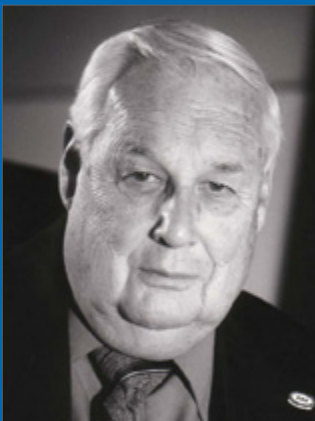
CERTIFICATION UPDATE

LOCAL CERTIFICATION CHAIRMEN Q&A



John Collinson, CPBE, 8-VSB, AMD, CBNT

Certification chairman for Chapter 39, Tampa, Fla. for 17 years. John works at HSN.



Dick Burden, CPBE

Certification chairman for Chapter 47, Los Angeles, Calif. for 25 years. Dick is the owner of Burden Associates.



George Marshall, CBRE

Certification chairman for Chapter 15, New York City, for 16 years. George works at Clear Channel Radio.

How did you get into this business?

J: Even as a kid I always wanted to be in broadcasting. While in school I got a job at my first radio station, then full time at another station, then TV, then management. This business isn't for everyone but it's been good for me and I'm glad to be a part of it.

D: As a youngster, I was fascinated with radio and had an interest in broadcasting. However, my aptitude tests indicated capabilities better pursued with a liberal arts curriculum. While I did not share my guidance counselor's vision, she sweetened the pie by finding me a baseball scholarship. I was a left handed relief pitcher.

In 1949, I enrolled at Lafayette College in economic studies. While I did gain a deeper knowledge and understanding of the concepts of economics, I still had an interest in broadcasting.

The college had a carrier current station and I joined the staff. One afternoon, when I was at the station there was a call from the chief engineer at the local NBC radio affiliate. They were scheduled to broadcast the Lafayette College Choir Christmas Program that evening. He had sickness in his staff and asked if I could engineer the program for them. I agreed to do it. Upon completing my set up, I called the station to check out the line. I was told I didn't understand and that they would be taking their feed from the network and my feed would go to the NBC network in New York. At 18 years of age, it scared the hell out of me, but I did it successfully, and it changed my life.

G: After my tour in the U.S. Marine Corps as a ground field radio repairman. I started working for an electronics manufacturer, making military gear of all things, and quickly learned if I wanted to make real money I was going to have to get a degree. So I went to Brookdale Community College in New Jersey to begin pursuing that degree and, while there, started hanging around the radio station (WJJB-FM) offering my technical expertise. I was quickly bitten by the radio disease there and have worked in the field ever since – and that's over 30 years now (boy, do I feel old).

Why is SBE certification important?

J: Since the demise of the FCC Radiotelephone license employers have little to use as a measurement when looking at candidates. Through the years the SBE has developed different specialties and levels to document someone's skills and experience far better than the FCC license ever did.

D: It is a path to employment and a means of keeping current with technological changes.

G: There is no better way to prove your proficiency in our business.

How many tests have you given?

J: Haven't kept track, but maybe around 50

D: Probably 400 to 500

G: 130

Where do you give most of your tests?

J: About 2/3 at my workplace (HSN). Most of the rest at the applicant's workplace, with a very few at a separate location.

D: The tests are given in my office. This allows each applicant to come at their convenience.

G: At my station (most convenient)

How do you think certification makes the industry better?

J: Three points come to mind:

1. It presents a professional yardstick to employers for hiring and promotion purposes. Some companies provide incentives to staff for achieving higher certification levels, which I highly support.
2. It provides a system for engineers and other technical

people in the industry to receive meaningful recognition of their knowledge and experience.

3. Maintenance of certification provides incentive for engineers to continue to upgrade their skills through SBE meeting attendance, seminars, schools, writing articles, etc.

D: It offers a degree of competency.

G: Certification is the "quality control" stamp of our industry. If someone is certified they have proven they have the knowledge and experience to do the job.

Is there a special circumstance that took more coordination to administer the test?

J: Once I had an applicant quite some distance away and gave the exam in a transmitter building about halfway between the two of us.

D: No.

G: There was one exam period where I had test takers who all wanted exams at different times of the day – and on different days. That required me to get a couple of different proctors and locations to accommodate all the examinees.

What is the most common or most unique question you are asked?

J: Most common probably regards what level of certification someone should try to apply for.

D: When do I learn that I have passed?

G: How do I get certified is the most common.

How do you promote certification?

J: I report at every chapter meeting about recently certified individuals and report on the next application deadline - always with an admonition to apply for a new level. I also try to relay any news regarding changes in the program and really stress that more of the members very well could and should be certified.

D: We offer a rebate on both the cost of the course material and the cost of the exam if they pass.

G: Besides always talking about certification, we have set up a system where we will reimburse the exam fee for any chapter member that takes an exam and passes. So it becomes a "no fee" exam for our members, if they pass. We will also reimburse the cost of CertPreview if they purchased it and passed.

How many are certified in your chapter?

J: Thirty-nine members, plus at least one non-member I know of offhand.

D: Many, but I really don't know.

G: Not as many as we would like unfortunately.

What is the most common test you administer?

J: Ten years ago it was a blend of CBRE, CBTE, CSRE, & CSTE. Recently it seems to be more CRO and CTO exams, with others still in the mix.

D: It's a wide variation. When the CBNT became available we had a number of applicants.

G: Lately it's been the CBNT exam.

What are common mistakes that people make when arriving for a test?

J: Have really had very little problem with this. A couple times applicants have really wanted the FCC rules for an open book portion, so I've allowed them to use mine.

D: Generally everyone is on time. Sometimes there are traffic delays. But since each test is administered individually, lateness is not an issue.

G: It's not having books for the open book exams. I can't tell you how many come in and just try and "wing it."

New SBE Certification Achievements

CONGRATULATIONS

LIFE CERTIFICATION

Current CPBE and Certified Senior Broadcast Engineer members who have maintained the SBE certification continuously for 20 years 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 approved, the person will continue in his/her current level of certification for life.

Certified Broadcast Networking Technologist® (CBNT) Barry Siegfried, Stockholm, N. J. – Chapter 15
Certified Professional Broadcast Engineer® (CPBE®) Fred Sperry, Madison, Wis. – Chapter 24
Barry Siegfried, Stockholm, N. J. – Chapter 15

NEWLY CERTIFIED CPBE

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.

Certified Professional Broadcast Engineer (CPBE) Michael Golchert, Pelham, Ala. – Chapter 68
Herbert Boaz, Montvale, Va. – Chapter 78
Dennis Maddox, Fountain Inn, S.C. – Chapter 86
Timothy Kelly, Alexandria, Va. – Chapter 37

JUNE EXAMS

Certified Audio Engineer® (CEA) Paul Claxton, Moreno Valley, Calif. – Chapter 131
Bill Baty, Burke, Va. – Chapter 57
Michael Helke, College Park, Md. – Chapter 57
Jesse Janosky, Arlington, Va. – Chapter 37
Jesse Janosky, Mira Loma, Calif. – Chapter 131
Rafael Aguillon, Murrieta, Calif. – Chapter 131
Paul Claxton, Moreno Valley, Calif. – Chapter 131
Alan Jurison, Syracuse, N.Y. – Chapter 22
Jerry Martin, Loma Linda, Mo. – Chapter 56
Michael Norton, Madison, Wis. – Chapter 24
Christopher Tarr, Mukwonago, Wis. – Chapter 28
Barry Thomas, Dunwoody, Ga. – Chapter 5
John Justin Tucker, Charleston, S.C. – Chapter 107
Digital Radio Broadcast Specialist™ (DRB™) Barry Thomas, Dunwoody, Ga. – Chapter 5
Certified Broadcast Networking Technologist® (CBNT) Cheryl Lustenberger, Norwood, Mass. – Chapter 11

AUGUST EXAMS

Certified Broadcast Radio Engineer™ (CBRE®) Joshua Smith, Atlanta, Ga. – Chapter 5
Certified Broadcast Television Engineer™ (CBTE®) Jay Ballard, Middleton, Mass. – Chapter 14
William Baty, Burke, Va. – Chapter 57
John Lewis, Panorama City, Calif. – Chapter 47
James Price, Charlotte, N. C. – Chapter 45
William Simmonds, Reno, Nev. – Chapter 139
Certified Audio Engineer (CEA) William DeFelice, Monroe, Conn. – Chapter 14
8-VSB Specialist™ (8-VSB™) Robert Richardson, Campobello, S. C. – Chapter 86
Michael Streby, Wausau, Wis. – Chapter 80
Certified Broadcast Networking Technologist (CBNT) Kevin Callahan, Jersey City, N.J. – Chapter 15
Paul Taldone, Milwaukee, Wis. – Chapter 28
Certified Broadcast Technologist® (CBT™) Norman Reynolds, Riverside, Calif. – Chapter 131
David Vermaak, Annapolis, Md. – Chapter 140
Certified Radio Operator® (CRO®) Raul Camarillo, Pasadena, Texas – Chapter 105
Maria Oliver, Tampa, Fla. – Chapter 39
Certified Television Operator® (CTO®) Kyle Bell, Largo, Fla. – Chapter 39
James Elmer, Salt Lake City, Utah – Chapter 62
Mark Franklin, Rancho Cordova, Calif. – Chapter 43
Mark Salansky, Nicholson, Pa. – Chapter 2

SPECIAL PROCTORED

Certified Broadcast Radio Engineer (CBRE) Prasad Ranganath, Port au Prince
Chuck Springer, Garden City, Kas.
Certified Broadcast Networking Engineer (CBNE) Wayne Pecena, College Station, Texas – Chapter 99
Mark Simpson, Marana, Ariz. – Chapter 32
Certified Broadcast Networking Technologist (CBNT) Jim Shryne, Tacoma, Wash. – Chapter 16
ALABAMA BROADCASTERS ASSOCIATION
Certified Broadcast Technologist (CBT) Gregory Butler, Birmingham, Ala. – Chapter 68
Randy Cook, Wetumaka, Ala. – Chapter 68
Chris Daniel, Mena, Ark.
William Halsey, Birmingham, Ala. – Chapter 68
Jeanie Hickman, Pleasant Grove, Ala. – Chapter 68
Steven Hoard, Jackson, Ga. – Chapter 5
Christopher Johnson, Clanton, Ala. – Chapter 118
Michael Keith, Helena, Ala. – Chapter 68
Stephen Levet, Hoover, Ala. – Chapter 118
Mark McKinney, Myrtle Beach, S.C. – Chapter 107
Shannon O'Neal, Huntsville, Ala. – Chapter 68
Gregory Rickaby, Montgomery, Ala. – Chapter 118
Lewis Soli, II, Hayden, Ala. – Chapter 68
Kreg Worthington, Birmingham, Ala. – Chapter 68
George Young, Franklin, N.C. – Chapter 86

COURSE COMPLETION

LOYALIST COLLEGE Nathan Campbell, Ottawa, Canada
NAPA VALLEY COLLEGE Alexander Gutana, Vallejo, Calif. – Chapter 40
DEFENSE INFORMATION SCHOOL Christopher Auken – Chapter 132
Norman Portillo, Baltimore, Md. – Chapter 132
James Pronath, Fayetteville, N.C. – Chapter 93
Andres Sandin, Bowie, Md. – Chapter 132
Andrew Terhall, Fort Bragg, N.C. – Chapter 93

CERTIFIED BY LICENSE

Certified Broadcast Technologist (CBT) Timothy Allen, Thornton, Colo. – Chapter 48
Gary Cox, Milwaukee, Wis. – Chapter 28
James Harden, Milford, Ma. – Chapter 11
Oscar Hernandez, Desert Hot Springs, Calif. – Chapter 131
John Johnson, Davenport, Iowa – Chapter 65
John Kosian, Holliston, Mass. – Chapter 11
Kenneth Koyan, Wellington, Ohio – Chapter 70
Tom Morris, Miami, Fla. – Chapter 53
Bryan Nye, St. Charles, Mo. – Chapter 55

CERTIFIED RADIO OPERATOR

Matthew Green, Los Angeles, Calif.
Lisa Nalbandian, Milwaukee, Wis.
Nicolas Payne, Brawley, Calif.

CERTIFIED TELEVISION OPERATOR

Roy Couch, Indianapolis, Ind.
Daniel Rasmussen, Big Lake, Minn.
Michael Streit, Big Lake, Minn.
Dennis DePrisco, Boulder, Colo.
Ryan Weaver, Boulder, Colo.
DIRECTV
Dancee Barroso, Los Angeles, Calif.
Jerry Boyer, Chino Hills, Calif.
Nelly Lay, Los Angeles, Calif.
Kenneth Love, II, Los Angeles, Calif.
Rona Mackay, Los Angeles, Calif.
Chris Manning, Culver City, Calif.
Kenneth Maultsby, Pomona, Calif.
Urvish Patel, Los Angeles, Calif.
Kris Pettie, Los Angeles, Calif.
Sara Raya, Los Angeles, Calif.

RECERTIFICATION

The following completed the recertification process by re-examination, point verification through local chapters and national Certification Committee approval and/or met the service requirement.

Certified Professional Broadcast Engineer (CPBE) Larry Estlack, Lansing, Mich. – Chapter 91
Mark Quella, Watertown, Mass. – Chapter 11
Martin Stabbert, Reno, Nev. – Chapter 139
Certified Senior Broadcast Engineer (CPBE), 8-VSB Specialist (8-VSB) Allen LeMelle, Clovis, Calif. – Chapter 66
Certified Professional Broadcast Engineer (CPBE), 8-VSB Specialist (8-VSB), AM Directional Specialist™ (AMD™) James Dalke, Bellevue, Wash. – Chapter 16
Digital Radio Broadcast Specialist (DRB) Doug Irwin, Jersey City, N.J. – Chapter 15
Certified Senior Radio Television Engineer™ (SRTE) Craig Butler, Orange Park, Fla. – Chapter 7
Certified Senior Radio Engineer™ (CSRE®) Doyle Garner, Greenland, Ark. – Chapter 56
Ron Martens, Cordova, Tenn.
Michael Tosch, Thousand Oaks, Calif. – Chapter 47
Certified Senior Television Engineer™ (CSTE®) Steve Benedict, Vancouver, Wash. – Chapter 124
Certified Senior Radio Engineer (CSRE), AM Directional Specialist (AMD) Edward Dulaney, Kamay, Texas – Chapter 67
Certified Broadcast Radio Engineer (CBRE), AM Directional Specialist (AMD) Steven Callahan, Middleboro, Mass. – Chapter 11
Certified Broadcast Radio Engineer (CBRE) Dominic Mitchum, Slidell, La. – Chapter 72
Pete Tridish, Philadelphia, Pa. – Chapter 18
Certified Broadcast Television Engineer (CBTE) Robert Byrne, Sugar Land, Texas – Chapter 105
Robert Schumaker, Broomall, Pa. – Chapter 18
Certified Audio Engineer (CEA) Ron Jones, Manhattan, Kan. – Chapter 3
Certified Broadcast Networking Technologist (CBNT) Mark Dubosky, Wake Forest, N.C.
Edward Dulaney, Kamay, Texas – Chapter 67
Doyle Garner, Greenland, Ark. – Chapter 56
Randall Jones, Newman Lake, Wash. – Chapter 21
Dominic Mitchum, Slidell, La. – Chapter 72
Roger Newton, Tulsa, Okla. – Chapter 56
Gene Parker, Hermitage, Tenn. – Chapter 103
Glen Tapley, Birmingham, Ala. – Chapter 68
Michael Tosch, Thousand Oaks, Calif. – Chapter 47
Certified Broadcast Technologist (CBT) Nicole Alexander, Wildomar, Calif. – Chapter 131
Curtis Caylor, Torrance, Calif. – Chapter 47
Mark Danziger, Grand Cayman, Cayman Islands
Gary Davis, Knoxville, Tenn. – Chapter 113
Robert Farkas, Oakville, Ontario Canada
William Flud, Sacramento, Calif. – Chapter 43
Brian Flynn, Englewood, Colo. – Chapter 48
Harold Henderson, New Orleans, La. – Chapter 72
Randy Lee, Waco, Texas – Chapter 67
Eric Miller, Jenks, Okla. – Chapter 56
Gene Parker, Hermitage, Tenn. – Chapter 103
Reynato Semilla, Manama, Bahrain
Aaron Savage, Mililani, Hawaii
Paul Stanion, Ithaca, N.Y. – Chapter 140
Aaron Stella, Saginaw, Mich. – Chapter 91
Certified Television Operator (CTO) Chris Burns, Little Rock, Ark.
Joaquin Coronel, Nampa, Idaho
Andrew Humphries, Murfreesboro, Tenn. – Chapter 105
Jhonny Moscoso, Annandale, Va.
Robert Walkney, Albuquerque, N.M.
Certified Radio Operator (CRO) Michael Cornelli, Suring, Wis.
Sheila Cowley, Tampa, Fla.
John Tyler, Pawcatuck, Conn. – Chapter 14
Robert Walkney, Albuquerque, N.M.

is only accessible by plane. It's here, where Nathan began to grow a greater interest for the technical side of broadcasting. He gained further experience in broadcast engineering as the general manager for KRBD-FM 105.3 in Ketchikan, Alaska through a project that involved moving the entire station from its long time home on historic Creek Street to a new location on Copper Ridge Rd. This involved everything from installing new digital audio consoles and broadcast chain equipment to STL antennas and satellite dishes. After the project was over Grambau decided he wanted to pursue the more technical aspects of broadcasting even further and returned to Michigan to receive a Bachelor of Science in Electronics Engineering and certification through the SBE. Nathan will be taking courses through the Cleveland Institute of Electronics and Northern Michigan University, where he currently works as an IT support specialist.

Lettsome, of St. Thomas, US Virgin Islands, is the recipient of the Youth Scholarship. He is a graduate of the Charlotte Amalie High School and is currently attending Gannon University in Erie, Pa., to pursue a degree in computer engineering.

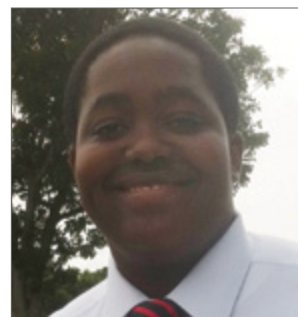
Lettsome remembers developing a passion for learning about mechanical devices and how they worked at a very young age. He took apart and restored devices found at his home, such as fans, VCRs, and old game consoles to determine what made the equipment function.

As he grew, Lettsome continued to seek opportunities throughout his high school career that would further his knowledge about how various mechanical devices function. Therefore, his quest for knowledge led him to become a member of the Technology Club and later the club's first president.

Lettsome looks forward to becoming an active member of the U.S. Virgin Islands Chapter of the SBE. Lettsome said, "Through the initiatives of this chapter, my former high school and our local Public Television System,



Robert D. Greenberg Scholarship Recipient Nathan Grambau



Youth Scholarship Recipient De'Moi Lettsome



Harold E. Ennes Scholarship Recipient Neel Shah

WTJX-Channel 12, several of my classmates in the engineering field participated in an internship program that provided valuable work related experience and exposure in the broadcast field. I have seen the benefits of such a program and the educational value and foundation provided by the partnership and I look forward to the opportunity to provide similar contributions to my community."

The Harold Ennes Scholarship Fund Trust was initiated by Chapter 25, Indianapolis of the SBE in 1980 in memory of Harold E. Ennes, author of many textbooks for broadcast and broadcast-related communications training and a member of the Indianapolis chapter. Ennes was a member of the SBE National Certification Committee and made many contributions to the early development of the Certification Program. To encourage greater growth, Chapter 25 transferred the trust to the SBE national organization to administer in 1981. Scholarships presented by the Ennes Trust are made possible by donations from the SBE members and chapters and companies that do business with broadcast industry.

The Ennes trust announced the creation of the John H. Battison SBE Founder's Scholarship on September 11, 2012. The scholarship was created to honor the SBE's founder, John Battison who passed away on August 28, 2012. Applications for the Battison SBE scholarship will be available October 1, with the first scholarship awarded in 2013.

Those wishing to make a contribution to the scholarship fund may send donations to: Ennes Educational Foundation Trust, 9102

N. Meridian Street, Suite 150, Indianapolis, IN, 46260. Checks should be made payable to: Ennes Educational Foundation Trust with the specific scholarship name written on the memo line. The Ennes Educational Foundation Trust is a 501(c)3 charitable organization. Contributions by individuals are tax deductible. More information on the Ennes Educational Foundation Trust can be found on the education section of the SBE website.

Also elected, former director and officer, Andrea Cummis, CBT, CTO, senior director of engineering and operations, WNET in New York, N.Y., John Heimerl, CPBE, vice president of strategic technologies, WHRO-TV, WHRO-FM, WHRV-FM in Norfolk, Va.; and Wayne M. Pecena, CPBE, 8-VSB AMD, DRB, CBNE, director of engineering, Texas A&M University-Educational Broadcast Services in College Station, Texas. Heimerl and Pecena are new to the board of directors.

The newly elected members of the board will join six other directors who are in the middle of two-year terms. They include Mark Heller, CPBE, CTO, president and chief engineer of WGBW and WLWB Radio, Two Rivers, Wis.; Ray Benedict, CPBE, director of spectrum engineering, CBS, Washington, D.C.; Paul Burnham, CPBE, Poughkeepsie, N.Y.; David Priestler, CPBE, Director, technical operations, Roy H. Park School of Communications, Ithaca College, Ithaca, N.Y.; Ched Keiler, CPBE, 8-VSB, CBNT, Ft. Lauderdale, Fla.; and Gary Stigall, CPBE, San Diego, Calif. Completing the board for 2012-13 is immediate past president, Vinny Lopez, CEV, CBNT, director of engineering, WSYT/WNYS TV, Syracuse, N.Y.

This was the first election which the SBE

2012-13 SBE BOARD OF DIRECTORS

 President Ralph Hogan, CPBE, DRB, CBNE	 Vice President Joseph Snelson, CPBE, 8-VSB	 Secretary James Leifer, CPBE	 Treasurer Jerry Massey, CPBE, 8-VSB, AMD, DRB, CBNT
 Tim Anderson, CPBE, DRB, CBNT	 Andrea Cummis, CBT, CTO	 John Heimerl, CPBE	
 Gary Kline, CBT, CBNT	 Scott Mason, CPBE, CBNT	 Wayne Pecena, CPBE, 8-VSB, AMD, DRB, CBNE	

offered online voting. There was a 64 percent increase in member participation from the previous year with more than 1,300 ballots cast. Ninety percent of ballots cast were electronic.

The national board of directors of the SBE is responsible for the development of policy and determines the programs and services the society provides to its more than 5,000 members. "I am looking forward to continuing

the excellent progress the society has made in the past year and begin exploring the recommendations of the strategic planning committee with the board of directors at our October National Meeting," said Hogan.

The National Meeting is scheduled for October 23-24, at the Crowne Plaza DIA Hotel in Denver, Colo. and is being held in conjunction with the AVX and SBE/SMPTE Engineering Boot Camp.

and transmission business units.

A highlight of the dinner program will be the presentation of the Robert W. Flanders SBE Engineer of the Year Award to Wiely Boswell, CBRE of Chapter 118, Montgomery, Ala. and the James C. Wulliman SBE Educator of the Year Award to Wayne Pecena, CPBE, 8-VSB, AMD, DRB, CBNE of Chapter 99, College Station, Texas. Chapters and individual members will also be recognized during the dinner for best technical article, best chapter newsletter, best chapter website, best regional conference, most certified chapter and chapters with the greatest percentage growth and highest average member attendance at chapter meetings. A presentation of the SBE Technology Award will be made to Orban. The SBE National Awards Dinner is being sponsored by the Telos Alliance.

The AVX includes broadcast, audio, video,

animation, production and media sessions and will include the annual Broadcast Engineer's Boot Camp, presented by SBE Chapter 48 and the Rocky Mountain Section of SMPTE. A tradeshow of approximately 130 companies in more than 100 booths will take place both days.

Registration for the SBE National Meeting and AVX can be made online at www.avxpo.biz. There is no cost to attend the expo, Engineer's Boot Camp and most of the sessions. Registration for the SBE Awards Reception and Dinner is \$15. The AVX has several special optional workshops available at a small cost.

To make hotel reservations, call the Crowne Plaza DIA direct at (303) 371-9494 and ask for the special SBE rate of \$105 plus tax. The deadline for discounted reservations is October 1. After that date, rooms will be available on a space and rate-available basis.

MARK YOUR CALENDAR

CERTIFICATION EXAM SCHEDULE

Dates	Location	App. Deadline
Feb. 8-18, 2013	Local Chapters	Dec. 31, 2012

ENNES WORKSHOP

October 5 Orlando, Fla.
Hosted by Chapter 42
members \$45; non-members \$60

BROADCASTERS CLINIC

October 9-11 Middleton, Wis.
Presented by WBA and Chapter 24
Early Reg. - Two Days \$115; Three Days \$130

BROADCAST AND TECHNOLOGY EXPO

October 11 Verona, New York
Hosted by Chapter 22

2012 SBE NATIONAL MEETING

October 23-24 Denver, Colo.
With the: AVX and SBE/SMPTE Boot Camp
Hosted by Chapter 48

AUDIO LOUDNESS SEMINAR

November 13 Atlanta, Ga.
Hosted by SBE and ATSC
SBE or ATSC members \$95; non-members \$150

WEBINARS BY SBE

Chief Operator Responsibilities
October 17
Instructor: Dennis Baldrige
members - \$49; non-members - \$69

BXF: Improving Broadcast Operation Workflow
November 27

Instructor: Chris Lennon
members - \$49; non-members - \$75



THANK YOU 2012 SBE Election Board of Tellers

Members of Chapter 25, Indianapolis gather on August 28, 2012 at the SBE National Office to act as the election board of tellers. Members of the SBE had the option to vote online, which resulted in fewer paper ballots to count than previous years.

Left to right, front Dave Fort, CPBE; Charlie Sears, CPBE; and John Kimsey. Back Michael Goode, CPBE; Mark Flesner, CBNT, CTO; Jake Robinson; Schyler Wood, CRO; and Dale Smiley, CPBE.



The FCC rules regarding unavoidable under power operation for broadcast stations specify:

- A. Notice must be given to the FCC on the 10th consecutive day of under power operation, and Special Temporary Authority must be obtained if under power operation extends beyond thirty consecutive days.
- B. Notice must be given to the FCC on the 15th consecutive day. No further action is required.
- C. Notice must be given to the FCC on the 30th consecutive day of under power operation, and at monthly intervals thereafter.
- D. No notice to the FCC is required.

Certification Question
answer on page 15



EDUCATION UPDATE

by Gary Kline, CBT, CBNT
SBE Education Chairman
gary.kline@cumulus.com

SBE Leadership Development Course sees record attendance

The 2012 SBE Leadership Development Course took place July 31-August 2 in Atlanta, Georgia, and for the third year in a row experienced record attendance. Twenty-seven people attended representing 11 companies. This is the third course instructed by Purdue professor Rodney Vandever. When asked about the teacher and teaching methods, Krissy Mabry from CNN – DC Best, said, “Rodney is energetic, interesting and humorous.”

The course tackled such topics as the nature and function of leadership, building winning teams, leadership as an attitude, communication, motivation and managing conflict. Students of the course were asked to complete a leadership style assessment to use during the discussion on how to communicate better with people of various personality types. Other subjects explored include generational differences in the workplace and emerging world class leaderships.

Jeff Franck of Clear Channel commented on which sections of the course were the most relevant. Franck said, “I felt all areas were very informative. I’ll put them all to good use!”



Course participants Jeff Paquin, Andy Renner and Bob Sulecki work together as a department during an exercise at the SBE Leadership Development course on July 31 in Atlanta, Ga. During the exercise all participants were split into five departments of a imaginary company.

One of the most popular sections was that of communications. Rodney focused on numerous topics, including defining communications and its functions, determining

purpose and reasons for engaging, identifying causes behind communication failures

[LEADERSHIP, page 12](#)

Final Audio Loudness Management Seminar set for Nov. 13

The final ATSC/SBE Audio Loudness Management Seminar takes place on Nov. 13 in Atlanta. Registration is open on the SBE website.

The seminar series kicked off in Chicago on August 23. WTTW hosted the program in the “Check Please!” studio, a local restaurant review show.

“The Audio Loudness seminar was very beneficial to me with its detailed overview & different industry prospective. I found it very helpful to hear how other people are dealing with the Calm Act,” said Dave Boltz, an engineer with over 25 years of experience in the broadcast industry, who attended the Chicago loudness seminar.

With the idea of helping broadcast engineers prepare their stations for compliance with the CALM Act by December 13, the SBE and ATSC put together this well-rounded program. Topics include a background on loudness, measurement and monitoring, DTV loudness compliance practices, content creation, a systematic approach to loudness



Steve Silva of Fox talks to participants during the ATSC/SBE Audio Loudness Management Seminar on August 23 in Chicago, Ill. WTTW hosted the program in the “Check Please!” studio, which is a local restaurant review program.

measurement for Multichannel Video Programming Distributors (MVPDs), and consumer experiences.

The cost for the Nov. 13 seminar for

members of the SBE or ATSC is \$95; the non-member cost is \$150. For more information about the seminar and to register, visit the SBE website under Education.



FOCUS ON SBE

by John L. Poray, CAE
SBE Executive Director
jporay@sbe.org

BATTISON from page 1

in early television and radio manufacturing research. When Great Britain became embroiled in World War II, he served the length of the war as a fighter and bomber pilot in the Royal Air Force. After the war, John came to the United States and went to work for KMBC in Kansas City and later, CBS Television. In 1955, he moved to New Mexico and built his own television station, KAVE.

John later worked for the ABC network, helping to design some of its owned and operated stations. In 1968, he served as chief engineer of Saudi Television in Saudi Arabia. He returned to the States and became director of engineering at Ohio State University’s WOSU TV and radio stations. It was there that he led a series of well attended annual broadcast engineering conferences that were held in very high regard. He was an ordained Anglican priest and in his later years, continued to faithfully serve his local church.

Even with an engineering career that had so many highlights, perhaps the greatest accomplishment of John’s professional life was organizing the Society of Broadcast Engineers. It didn’t happen over night. In fact, it took almost three years from the time he penned an editorial that appeared in Broadcast Engineering magazine in December 1961, extolling the need for an organization dedicated solely to the broadcast engineer, to when the first official meeting was held on April 5, 1964 in Chicago, during the annual NAB convention. Assisted by members of his family, John prepared and mailed more than 5,000 letters to engineers in the U.S. and Canada that explained the need for a new organization

that would focus on representing the interests of broadcast engineers. He told them that the new organization would provide educational and career development opportunities for the station engineer. A membership application was included with the letter.

Interest in a new organization was building because of his efforts and assistance came from others who were eager to see the organization get off the ground. People like Charlie Hallinan of Binghamton, N.Y., Joe Risse of Scranton, Pa., Gordon Brown of Rochester, N.Y., Howard Town of Ann Arbor, Mich., Ben Wolf and Leo Reitz, both of New York City, and others.

In recent years, Battison’s ability to travel was hampered by his health, yet he managed to attend the NAB spring convention as recently as 2006, at age 90. The SBE recognized him at the membership meeting that year with the coveted SBE Lifetime Achievement Award.

In 2011, John and Sara made the 70 mile trip from Loudonville, Ohio to Columbus, Ohio to attend the SBE National Meeting. They spent the entire day there, attending the Fellows Breakfast, some of the education sessions and trade show. Later in the day, they attended the annual SBE Membership Meeting, National Awards Reception and Dinner. As will be the case this year, the meeting was streamed live and videotaped and we were treated to a three and half minute interview with John, conducted by Vinny Lopez, who himself was minutes away from completing his second and final term as SBE’s 26th president. John reminisced about the early days of the SBE, how the organization began, and what the initial goals and aspirations of the organization were. The video is available to view on the SBE website.

The SBE has grown in size and expanded

its scope beyond what John had originally imagined. For instance, he said he didn’t foresee the development of the society’s certification program, which came in the 1970’s and developed into one of the society’s signature elements. But the mission he had set forth for the society in the early 1960’s had been fulfilled; an organization that would help members develop their careers and provide station engineers who work “in the trenches” with educational opportunities and professional relationships that would help them in their work every day.

Today, the SBE is developing plans designed to keep it a relevant and vibrant organization valued by members, as the industry evolves. The mission remains the same as John imagined more than 50 years ago; to have an organization that serves to build careers through education and professional relationships. More than 30,000 broadcast engineers have been members of the SBE over the last 48 ½ years. We have John to thank for not only having the vision so many years ago to create this organization, but the determination to get it off the ground. His work set the stage for the society’s growth to more than 100 chapters and over 5,300 members in the U.S. and 20 other countries. More importantly, the positive impact that the organization has had on so many.

Thank you, John Battison, P.E., CPBE. From all of us.

John H. Battison, P.E., CPBE

September 11, 1915 - August 28, 2012

Member #1
SBE Founder
First SBE President
SBE Fellow
SBE Lifetime Achievement Award Winner
Namesake of the John H. Battison Award for Lifetime Achievement and John H. Battison SBE Founder’s Scholarship



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KLINE
TOWERS

WEBINAR from page 1

Rules 73.1870). Depending on the type of facilities, there are varying requirements as to who this person may be and their responsibilities. Members of the SBE often serve as the designated, or alternate, chief operator. This webinar will shed light on topics such as the station's chief operator designation; administrative, technical and accuracy responsibilities; and communication and authentication requirements.

Sample templates of required documents will be provided and discussed, including a complex log sample, an official station log example, and a designation letter.

A recent webinar attendee said, "This was my first webinar and it went great! Congrats to Mr. Baldrige for his non-stop performance!"

LEADERSHIP from page 10

and breakdowns, recognizing barriers to communications, describing an effective communication program, and understanding the importance of listening as a vital communication skill. Within this lesson, the participants were asked to complete several exercises, including a communication skill survey to identify possible strengths and weaknesses in their own communication abilities. The styles were discussed in length.

Participants were asked to rate and comment on the course overall. Tom Bentz said, "Wealth of material. Will take time to fully digest and apply fully. Thoroughly enjoyed the interaction and participating environment."

Plans for the 2013 course are in progress. Information will be available soon on the SBE website, www.sbe.org. Email questions about the course to kkissel@sbe.org or call the SBE National Office at (317) 846-9000.

Participants of this webinar will benefit by having the ability to verify substantial compliance with the FCC Rules and Regulations for the radio and TV stations they serve as it pertains to the chief operator duties, making them better equipped to serve their facilities.

Presenter Dennis Baldrige, CPBE, 8-VSB, AMD, DRB, CBNT has been working in the field of broadcasting for over 30 years. He is a Senior Member of the SBE, holds an FCC Lifetime General License (formerly a First Class FCC License) and Amateur Radio Extra Class License (K0DB). Baldrige holds a master's degree in education and teaches science courses for Upper Iowa University. As owner of Baldrige Communications, LLC, he works as a contract engineer and has also authored several articles for Radio Guide.

Baldrige has been associated with

the Alternate Inspection Program of the Wisconsin Broadcasters Association for over four years. His focus has been helping stations verify substantial compliance to the FCC rules through the use of the FCC's Self-Inspection Checklists. In addition to presenting webinars, Baldrige is a presenter with the SBE Technical Presenters Group. The Group consists of presenters knowledgeable on topics of interest to broadcast engineers. These presenters are available for a reasonable fee and travel expenses to participate in engineering conferences, or as a trainer for engineering staff. Speakers from the SBE Technical Presenters Group are generally available to speak across the country. Email SBE Education Director Kimberly Kissel at kkissel@sbe.org for details on how to confirm Baldrige for your program.



SBE Leadership Course Instructor Rodney Vandever gives instruction to Bob Walkney, Andy Renner, Dave Slack, Jeff Franck, and Ed Rupp during a group exercise on Tuesday, July 31, 2012. Twenty-seven individuals from 11 companies participated in the course, which took place in Atlanta, Ga. for the third straight year.

SUSTAINING MEMBERS Support the companies who support the SBE and the industry

Advanced Broadcast Solutions • 2012

Arco Groenenberg (206) 870-0244
Systems Integrator

Advanced Electronic Services (AES) • 2012

Eda Gray (336) 719-0755 Ext. 142
Electronic, Hydraulic, Motor Repair

American Tower Corporation • 2000

Peter A. Starke (781) 461-6780
Development/Construction/Management

Anton/Bauer Inc. • 2004

Kyle Dann (203) 929-1100
Manufacturer Portable Power Systems

AT&T • 2012

Anthony Graves (480) 844-8501
Satellite Communications Solutions Provider

Audemat-Worldcast Systems Inc. • 2000

Christophe Poulain (305) 249-3110
Control Manufacturer

AVCOM of Virginia, Inc. • 2010

Warren McElfresh (804) 794-2500 ext. 312
Spectrum Analyzers

Avid Technology • 2011

Bill Barton (978) 640-4020
Broadcast Products and Services

Belden Electronic Division • 1991

Steve Lampen (800) 235-3361
Cable and Connectivity

Bexel • 2009

John Root (818) 565-4314; Calrec
Broadcast and Audio Consoles

Blackmagic Design • 2012

Terry Frechette (978) 337-0991
Switchers, Digital Cameras, Routers

Bracke Manufacturing LLC • 2012

Lawrence Pasternack (949) 756-1600
RF & Microwave Components

Broadcast Electronics Inc. • 1978

Ray Miklius - Studio Products
Tim Bealor - RF (217) 224-9600
Radio Equipment Manufacturer

Broadcast Engineering Magazine • 1984

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

Broadcast Microwave Services Inc. • 1997

Jim Kubit (805) 581-4566
Manufacturer, Transmitters, Receivers, Antenna Systems

Broadcast Supply Worldwide • 1986

Shannon Nichols (800) 426-8434
Audio Broadcast Equipment Supplier

Broadcasters General Store • 2004

Buck Waters (352) 622-7700
Broadcast Audio Video Distributor

Canon USA Inc. • 1985

Larry Thorpe (201) 807-3300, (800) 321-4388
Broadcast Lenses & Transmission Equipment

Cavell, Mertz & Associates Inc. • 2011

Gary Cavell (703) 392-9090
Consulting Services

Comrex Corporation • 1997

Chris Crump (978) 784-1776
Audio codecs & Telephone Interface Products

Comsearch • 2004

Tim Hardy (703) 726-5651
Frequency Coordination Services

Content & Communications World (CCW) • 2006

Michael Driscoll (203) 371-6322
HD World, 3D World and SATCON

Continental Electronics Corporation • 1976

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

Dialight Corporation • 2006

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

Dielectric Communications • 1995

Joe Zuba (609) 256-8190
or Matt Leland (207) 655-8139
TV & FM Broadcast Products

Digital Alert Systems, LLC • 2005

Bill Robertson (585) 765-1155
Emergency Alert Systems

DoubleRadius, Inc. • 2012

Jeffrey Holdenrid (704) 927-6085
IP Microwave STL

DSI RF Systems, Inc. • 2010

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

du Trell, Lundin & Rackley, Inc. • 1985

Jeff Reynolds (941) 329-6000
Consulting Engineers

DVEO - Division of Computer Modules Inc. • 2011

Laszlo Zoltan (858) 613-1818
Everything About Transport Streams

e2v • 1997

Mark Strohecker (914) 593-6831
Electronic Components, SATCom Amplifiers

Econco • 1980

Debbie Storz (800) 532-6626 or (530) 662-7553
New & Rebuilt Transmitting Tubes

Elenos USA • 2012

Mary Ann Seidler (305) 799-5571
Energy Efficient FM Transmitters

Electronika America Inc. • 2010

Maria Quintero (305) 592-4506
High Efficiency FM/TV Transmitter & Exciters

ENCO Systems Inc. • 2005

Don Backus (800) 362-6797
Digital Audio Automation & Delivery

ERI - Electronics Research • 1990

David White (812) 925-6000
Broadcast Antennas, Transmission Line, Filters/
Combiners, Towers and Services

Federal Communications Compliance LLC. • 2012

Jim Purther (202) 670-4322
FCC Public File Compliance

Floral Systems • 2008

Ashley Condon (352) 372-8326
Television Broadcast Automation

Fujinon, Inc. • 1986

Thom Calabro (973) 633-5600
Broadcast & Communications Products

Geppo International/General Cable • 1995

Joe Zajac (847) 795-9555
Audio, Video Cable Products

Graham Brock, Inc. • 2012

Marilyn Matheny (912) 638-8028
Technical Consultation - Radio/TV

Grass Valley • 2000

Andy Jackson (404) 929-5000
TV/Film Production & Broadcast Professionals

Harris Corporation • 1977

Dave Hopson (TV) (513) 445-5243
Mark Goins (Radio) (513) 899-9124
Broadcast Equipment Manufacturer

Heartland Video Systems, Inc. • 2011

Dennis Klas (920) 893-4204
Systems Integrator

Henry Engineering • 2011

Hank Landsberg (626) 355-3656
"We Build Solutions"

High Resolution Systems • 2011

Drew Taylor (888) 742-7690 ext. 108
Systems and Show Control

Image Video • 1997

Zach Wilkie (416) 750-8872 ext. 228
Under Monitor Tally Display Systems, Monitor
Design and Manufacture Broadcast Equipment

Inovonics Inc. • 2012

Lukas Hurwitz (831) 458-0552
Radio Broadcast Equipment

International Datacasting Corporation • 2012

Rudi Polednik (613) 596-4120 ext. 2222
Media-aware Content Delivery

JAMPRO Antennas Inc. • 2011

Alex Perchevitch (916) 383-1177
DTV/DVBT & HD Radio-IBOC Solutions

Ka You Systems • 2011

George Gimourginas (301) 585-4302
Audio, Video, IP - Satellite

Kathrein Inc., Scala Division • 1985

Michael W. Bach (541) 779-6500
Antennas for Broadcasting & Communications

Kintronix Labs Inc. • 2010

Eric Miramontes (423) 878-3141
AM HD Antenna Systems

KPFF Consulting Engineers • 2004

Madison Batt (206) 926-0508
Tower Engineering, Inspections Design

L-3 Communications Electron Devices • 2003

Steve Bliker (570) 326-3561, ext. 229
Tubes, Power

Latakoo Inc. • 2011

Rod Taylor (512) 825-8709
Internet Video Distribution

LBA Technology Inc. • 2002

Jerry Brown (252) 757-0279
AM/MW Antenna Equipment & Systems

Lincoln Financial Media • 2007

Barry Thomas (404) 261-2970
Media Group Owner

LYNX Technik • 2007

Steve Russel (661) 251-8600
Broadcast Terminal Equipment Manufacturer

Markertek Video Supply • 2002

Andrew Barth (845) 246-3036
Audio, Video, A/V Broadcast Supply

Maxell Corporation of America • 1991

Patricia Byrne (201) 794-5900
Data/Broadcast Video Media

Micronet Communications Inc. • 2005

Jeremy Lewis (972) 422-7200
Coordination Services / Frequency Planning

Micronetix Communications LLC. • 2011

Bill Ammons (480) 496-0165
Polarized DTV Broadcast Antennas

Microwave Video Systems • 2011

Warren J. Parece (781) 665-6600
Microwave Equipment Rental, Sales & Service

Middle Atlantic Products • 2005

David Amoscatto (973) 839-1011
Equipment, Mounting, Solutions

MoreCom Inc. • 2009

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

Moseley Associates Inc. • 1977

Dave Chancey (805) 968-9621
Digital STLs AM/FM/TV

National Association of Broadcasters • 1981

(202) 429-5340
Industry Trade Association

National Football League • 1999

Ralph Beaver (813) 282-8612
Game Day Coordination Operations

Nautel Inc. • 2002

Jeff Welton (877) 662-8835
Radio Broadcast Transmitter Manufacturer

Nemal Electronics Int'l Inc. • 2011

Benjamin L. Nemser (305) 899-0900
Cables, Connectors, Assemblies and Fiber Optic

Neutrik USA, Inc. • 2012

Kathy Hall (704) 972-3050
Ruggedized Optical Fiber Systems

NSOEM • 2010

Robert Sorbet (281) 500-8940
Electrical Equipment Sales

NuComm/RF Central • 2009

Don Hoeler (908) 852-3700 ext. 3110
Digital and Analog Video Microwave Systems

Orban • 2011

David Rusch (480) 403-8300
Audio Processing AM/FM/TV

Panasonic Solutions Company • 1985

Joe Facchini (201) 392-6183
Professional Broadcast Equipment

Pasternack Enterprises • 2001

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

Potomac Instruments Inc. • 2012

Guy Berry (301) 696-5550
RF Measurement Equipment Manufacturer

ProAudio.com - A Crouse-Kimzey Co. • 2008

Mark Bradford (800) 433-2105 ext. 560
Proaudio Broadcast Equipment Distributor

Propagation Systems Inc. - PSI • 2010

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

Pulsecom • 2003

Winnie Evans (703) 471-2926
AM, FM and HD STLs, Copper & Optical

Qualis Audio Inc. • 2011

Douglas Ordon (310) 621-4448
Audio and Loudness Monitoring

Quintech Electronics and Communications Inc. • 2002

Paul Campagna (724) 349-1412
State-of-the-art RF Hardware Solutions

QVC • 2011

Kevin Wainwright (484) 701-3431
Multimedia Retailer

RCS • 2003

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

RDL • 2004

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

RF Specialties Group • 2008

www.rfspecialties.com
Everything from the microphone to the antenna

Richland Towers • 2001

Ryan Willaman (813) 579-4239
Tower Owner/Management

Rio Steel & Tower • 2010

Keith Cendrick (817) 225-0890
Turn-key Tower/Antenna Services

Rohde & Schwarz • 2003

Eddy Vanderkerken (469) 713-5322
Broadcast Transmitters, Test & Measurement

ROSCOR Corporation • 1998

Tom Voigts (847) 299-8080
DTV System Integrator

Ross Video Ltd. • 2000

Kyle Luther (613) 652-4886
Manufacturer, Television Broadcast Equipment

Sage Alerting Systems Inc. • 2010

Gerald LeBow (914) 872-4069 ext. 210
Emergency Alert Systems Products

Salzbrenner Stagetc Media Group • 2009

Professional Audio Solutions

SCMS Inc. • 2000

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

Screen Service America • 2010

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

Shively Labs • 1996

David Allen 888-SHIVELY
FM Antennas & Combiners

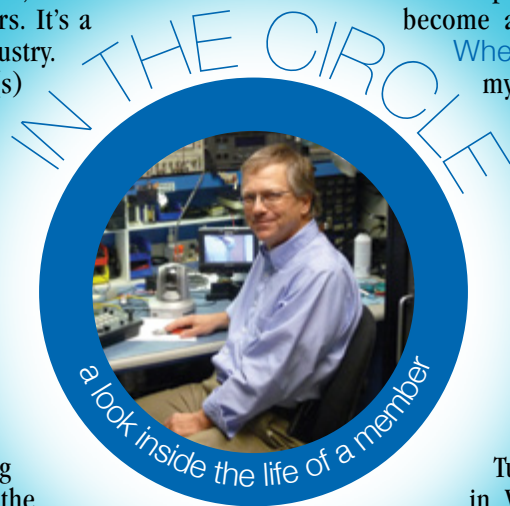
Shure Incorporated • 2012

Bill Ostry (847) 600-6282
Microphones, Wireless Systems, Headsets

Sierra Automated Systems and Engineering Inc. • 2011

Cam Eicher (818) 840-6749
Routers, Mixers, Consoles, Intercoms

Terry Horbatiuk, CPBE, of Toronto, Canada, is a national sales manager of the Professional Imaging Group at Panasonic Canada Inc. Best known for: Proctor in Canada for the SBE exams. Focal Point: SBE allows me to assist folks, most often younger than myself, to grow in their careers. It's a very positive way of giving back to our industry. Getting Started: I have to blame the writer(s) of the Rick Brandt Electronic Adventure series of books; Harold Leland Goodwin and Peter J. Harkins who wrote the books under the pseudonym John Blain, for giving me the idea of working in electronics. The books resided in my elementary school library. While these were adventure books, they were science based with a strong focus on physics and electronics. The problems and solutions were always real world. Sphere of Influence: Len Harrington, one of my pros in first year, who began his working career with British Telecom has always been the example to me of engineering at work. He was the definition of a "field engineer". Whether travelling the world or building radios/antennas/towers at home (Ham Guru) Len was all about getting your hands into things and problem solving.



Job Satisfaction: I really like the work I do because every now and then I get to be where the blue of a new technology flame meets the oxygen of the air. When that new technology becomes real product I get to go out into the world and become a prophet and pioneer for that technology. When I'm not working I ... I'm assisting my wife in her many adventures as a sculptor and teacher. Next week she will conduct a class called "Plasti-scenes" with younger students. Plasticine allows students to create and rework frame bound scenes. Such scenes combined with a student script become sets for a "Claymation" workshop. Lights, action, camera! The resulting edited videos get posted to YouTube. **What you may not know ...** In 1978 I provided audio/video consulting and support for the build of a replica of King Tutankhamun's tomb, which later was on display in Village By The Grange in Toronto in 1979. **Favorite Gadget:** I have a Swedish made Abu-Garcio bait cast reel, which is just a marvel to me. It's a beautiful design mixing new and old materials/technology. It's so smooth and so lovely to use.

CHAPTER SPOTLIGHT

by Ken Drewes, CPBE
SBE Chapter 109 Chairman

Participation drives Iowa chapter

Chapter 109 serves members in central and into part of eastern Iowa. This includes the Des Moines- Ames TV and radio markets (DMA #73). We have twenty-eight members in our group and half of them have earned their certification from the SBE. We schedule our monthly meetings on the last Wednesday of the month and we have discovered it helps to have a consistent meeting time and place. Some of us work at stations with news or production operations and multiple engineers, while several others of us are one-man-band engineers who may support multiple stations.

We share a common bond as engineers who need to stay self-sufficient with a broad range of technologies, yet have modest resources for doing so. We find it very helpful to keep close ties with our colleagues in the central Iowa area. Outside of our regular meetings, we stay in touch via email, and the acquaintances and friendships we form through the SBE are helpful when we need to just pick up the phone and call someone. Our group finds that the benefits of membership to the SBE and local chapter participation are definitely worth the small effort involved.

One of our recent meetings we invited Maryfrances Evans, the IRIS executive

director, which is operated by the Iowa Radio Reading Information Service for the Blind and Print Handicapped, Inc. IRIS provides reading services via special over-the-air receivers, free of charge, to vision impaired people in Iowa. They have a dedicated group of volunteers that read everything from newspapers, including advertisements, to magazines and books. We learned about the network of public radio stations and most recently the Iowa Public Television Network that carries IRIS programming via FM SCA or DTV private audio services, respectively. Our chapter members were challenged to volunteer their time either by assisting in installing receivers in distant locations or to serve as on-air readers.

Our chapter has attended and held our monthly meetings at the fall Iowa DTV Symposium, which were held here in Des

Moines and hosted by Iowa Public Television. We also have in the past sponsored the NAB Road Show, which was a great and well-attended event.

Our chapter Certification Chairman, Jon Strom, had the opportunity to attend the SBE Strategic Planning Meeting in Indianapolis, June 23 on our behalf. We met twice prior to that meeting to suggest ideas that Jon could bring to the meeting. We look forward to working with and implementing the strategies that will help our chapter and the whole organization thrive and continue to be relevant in the constantly evolving broadcast industry.



Attendees gather for a group photo during the Chapter 109 August meeting in Ankeny, Iowa. Left to right, front Joe Farrington; Chapter Treasurer Bill Hayes; Chapter Certification Chair Jon Strom, CBTE; Doug Hammond; Randy Schildmeyer; and Jon Farrington. Back Robert Carothers; Chapter Chairman Ken Drewes, CPBE; Eldon Schlenker; Chapter Vice Chairman Kevin Schrader, CBTE; Leonard Wallace; Chapter Membership Chair Gregg Richwine, CBTE; and Chapter Secretary Chris Wilde, CBTE.

MEMBERS ON THE MOVE

Ken Broeffle, CBRE is now the director of engineering & information technology at KUNC Community Radio for Northern Colorado.

ENNES EDUCATIONAL FOUNDATION TRUST

The trust offers scholarship and educational programming and grants that benefit broadcast engineering and the broadcast engineer. Submit tax-deductible donations, payable to the Ennes Educational Foundation Trust, to the Society of Broadcast Engineers, 9102 N. Meridian St., Suite 150, Indianapolis, IN 46260.

THANKS TO THE FOLLOWING SUPPORTERS FOR THEIR CONTRIBUTIONS:

Harold Ennes Scholarship
Chapter 11, Boston, Mass.
Chapter 24, Madison, Wis.
Chapter 74, Omaha, Neb.
Jacob Meadows, Concord, N.C.

Robert Greenberg Scholarship
Chapter 24, Madison, Wis.

Youth Scholarship
Chapter 24, Madison, Wis.

John H. Battison SBE Founder's Scholarship

The first Battison scholarship will be awarded in 2013. Those wishing to make a contribution in honor of John Battison should send a check with "Battison Scholarship" written on the memo line to the above address.



Answer

question on page 9

A. Notice must be given to the FCC on the 10th consecutive day of under power operation, and Special Temporary Authority must be obtained if under power operation extends beyond thirty consecutive days.

NEW MEMBERS

Derrick C. Chesfield - Charlotte, N.C.
Robert J. Galbraith - Jackson, Ala.
Jeanie A. Hickman - Pleasant Grove, Ala.
Steven E. Hoard - Jackson, Ga.
Jamel F. Holcey - Montgomery, Ala.
Stephen L. Levet - Hoover, Ala.
Mark E. McKinney - Myrtle Beach, S.C.
Michael D. Missildine - Dothan, Ala.
Pete L. Philpott - Yuba City, Calif.
Jonathan Rice - Bessemer, Ala.
David A. Stewart - Monroeville, Ala.
Stephen White - Matthews, N.C.
George H. Young - Franklin, N.C.
Brian K. Broadwater - Ellijay, Ga.
Michael M. DaSilva - Sacramento, Calif.
Michael E. Jammick - Minnetonka, Minn.
Randy Mills - Dunnellon, Fla.
James R. Pronath - Fayetteville, N.C.
Carlos Sarabasa - Aled, Ill.
Daniel Black - Cottondale, Ala.
Gregory A. Butler - Birmingham, Ala.
Randy L. Cook - Wetumaka, Ala.
Jakob Foglesong - South Bend, Ind.
Michael A. Keith - Helena, Ala.
Shannon M. O'Neal - Huntsville, Ala.
Lewis E. Soli, II - Hayden, Ala.

Abrenica E. Stewart - Bressemer, Ala.
Kreg R. Worthington - Birmingham, Ala.
Dave Doros - Chatsworth, Calif.
Debra Sheppard - Camp Hill, Pa.
Ronald K. Stekeur - Tuckerton, N.J.
David N. Wilson - Greenville, S.C.
Jason P. Hodge - Hauppauge, N.Y.
Chris Moran - Morgantown, W. Va.
Larry Quick - El Cajon, Calif.
Rich C. Riggles - Ridge, N.Y.
Andres A. Sandin - Bowie, Md.
Cheuk Yiu Wong - Tsing Yi, Hong Kong
Joseph R. Korab - Franklin, N.C.
Paul Lyons - West Liberty, Ky.
Anthony D. Butler - Filer, Idaho
Victor C. Cenusa - Roselle Park, N.J.
Mark S. Alpert - Rockville, Md.
Scott Gross - Milwaukee, Wis.
Andrew M. Hamann - Atlanta, Ga.
William S. Dargan - Fairfax, Va.
David A. Dragosin - Barrington, Ill.
Louis E. Sosa - The Woodlands, Texas
Michael E. Brandenburg - Snohomish, Wa.
Dennis M. Hamilton - Okeechobee, Fla.
Christopher Miller - Northumberland, Pa.
Jonathan Cote - Lafayette, Colo.

REINSTATED MEMBERS

Harold E. Protter - Thousand Oaks, Calif.
Orvin H. Debban - Holdrege, Neb.
Patrick M. McGinnis - Atlanta, Ga.
Rick M. Cruz - Gibsonburg, Ohio
David Greene - Toluca Lake, Calif.
Christopher W. Johnson - Clanton, Ala.
Lazaro A. De La Vega - Miami Lakes, Fla.

Paul A. Byers - Allison Park, Pa.
Stephen B. Roth - Bayside, N.Y.
Darrell G. Vick - Summerville, S.C.
Alexandre Rukashaza - Bellingham, Wash.
Chris C. Donhou - Kent, Wash.
Danielle M. Morton - Canyon, Texas

NEW STUDENT MEMBERS

Cory K. Best - Clanton, Ala.
Chiu Yang Chan - Chai Wan, Hong Kong
Mei Po Chan - Yuen Long, NT, Hong Kong
Pak Nin Chan - Tuen Mun, NT, Hong Kong
Chin Ho Chan - Kwai Chung, Hong Kong
Kwok Tung Chan - Tseung Kwan O, Hong Kong
Yuk Tat Cheng - Tsing Yi, Hong Kong
Kwan Ning Cheng - Mongkok, Hong Kong
Chung Man Cheung - Wong Tai Sin, Hong Kong
Shing Lee Chun - Tseung Kwan O, Hong Kong
Ka Yiu Fok - Shatin, Hong Kong
Ka Chun Ho - Diamond Hill, Hong Kong
Kwok Wai Ho - Tai Wai, Hong Kong
Ka Lai Ho - Hong Kong
Cheuk Kei Ho - Hong Kong
Wan Leung Ho - Kowloon Bay, Hong Kong
Wang Kei Ho - Shatin, NT, Hong Kong
Chau Hin Kwan - St, NT, Hong Kong
Kin Ting Lam - Tseung Kwan O, NT, Hong Kong

Ka Ho Lam - Kwai Chung, Hong Kong
Man Him Lam - Hong Kong
Yeuk Ying Lau - Wong Tai Sin, Hong Kong
Chun Yin Li - Tsuen Wan, NT, Hong Kong
Wai Ching Lin - Tung Chung, Hong Kong
Kin Hoi Sit - Tan Shui Wai, Hong Kong
Ka Fai Tam - Kwun Tong, Hong Kong
Chi Chung Tang -, Hong Kong
Ka Ming Tong - Tai Po, Hong Kong
Tsz Yeung Tsui - Tsuen Wan, NT, Hong Kong
Siu Yi Wong - Kwun Tong, Hong Kong
Ka Hin Wong - ST, NT, Hong Kong
King Lam Woo - Shek Kip Mei, Hong Kong
Tsz Lun Yan - Tai Wai, NT, Hong Kong
Ching Lok Yau - Fanling, Hong Kong
Jeremy L. Slate - Tulsa, Okla.
Craig D. Fowler, II - Jessup, Md.
Bernard G. Kokinchak - Southbury, Conn.
George Despins - Waverly, Tenn.
Sean P. Garrett - McAllen, Texas
John A. Salvatore, Jr. - Elmer, N.J.
Gong Chen - Walnut, Calif.

NEW ASSOCIATE MEMBERS

Mark J. Hepfer - Fairborn, OH
Gordon Moore - Bronx, NY
David Pichner - La Crosse, WI

John C. Mendenhall - Seattle, WA
John F. Schaab - Denton, TX
James Culligan - El Cajon, CA



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