



December 2014

Society of Broadcast Engineers Chapter 24 Newsletter Madison, Wisconsin

Next Meeting



Thursday, December 18

SBE HOLIDAY CELEBRATION DINNER

Join us for this month's meeting when we celebrate the Holidays and toast the New Year in a relaxing atmosphere at Fitzgerald's in Middleton. We'll gather in the bar area before heading to the dining area.

You can sign-up for the dinner on the Chapter 24 web site: www.sbe24.org Follow the links to the December Holiday Party sign-up sheet.

Happy Hour 6:00 – 7:00 PM

Dutch Treat Dinner at 7:00PM



Fitzgerald's 3112 Parmenter Street Middleton, WI

Visitors and Guests are welcome at all SBE meetings and events!

Reflection

>>> by Leonard Charles

As the year draws to a close it's natural to reflect. This year I was once again elected to a Chapter Officer position, that of Treasurer. I am honored and proud to continue to serve the Chapter. As much as this is a repeat accomplishment for me, I'm afraid it's not what is best for our Chapter.

In my days on the SBE National Board I saw all too often active chapters become less active and eventually go stagnant over a period of years. In all cases it began when the Chapter started recycling elected officers. It's no secret that there is a lot of gray hair at our monthly meetings, an indication that we will soon face a real crossroads to the future of Chapter 24. Unless we get active participation from the younger among us, our Chapter may find itself in a tail spin from which we can't recover.

We need the next generation of Chapter 24 leadership to begin to step forward. This is an effort that cannot be solely left up to the nominations committee. It means that all of us must take some time to identify candidates that will take the Chapter to the next generation. In some cases it's as easy as looking in the mirror. Being a Chapter Officer is a great way to inspire new ambition in yourself and others. It's a great way to take your career to the next level. It's really not a tough job at all, just ask those who have done it and are now

redoing it.

After the first of the year we will begin the nominations process for the 2015 slate of officers. If you have never served the Chapter in an officer capacity, I urge you to begin the process of convincing yourself that you can do it. Please don't wait for others to take a step back, instead you should take a step forward. No one I know has ever regretted going for it.

SBE Chapter 24 membership and certification totals for the past eight years:

Table with 2 columns: Date and Membership/Certification counts.

The current Chapter 24 membership totals 51 members. Shown are the decades when members joined (* thru 2014):

Table with 2 columns: Decade and Member Count.

Compiled by Paul Stoffel, Membership Chair

Coming Up

- Tues., Jan. 13 Rich Wood; KSJB rebuild in North Dakota
Wed., Feb. 11 TBD & 1st Call for Nominations

In this Issue

Meeting Minutes 2
Auction Setting Records..... 3
Amateur Radio News..... 4



Chapter Contacts

Chair

Kevin Trueblood, CBNT
Wisconsin Public Radio
608-345-3248
kevin.trueblood@wpr.org

Vice Chair

Kevin Ruppert, CPBE, CBNT
WISC-TV
W: 608-271-4321
kruppert@wisctv.com

Secretary

Pete Deets, CBT
WMTV
W: 608-274-1515
mldeets@nbc15.com

Treasurer & Webmaster

Leonard Charles, CPBE
WISC-TV
608-271-4321
lcharles@wisctv.com

Past Chair

Bill Hamilton, CBT
CW57 (WBUW)
608.957.2449
bill@cw57.tv

Committee Appointees

Program Committee

Steve Paugh, CPBE, CBNT
608-277-5139
spaugh@wisctv.com
*Volunteer for the
program committee!*

Membership / Newsletter Editor

Paul Stoffel, CPBE
608-263-2175
paul.stoffel@wpt.org

Sustaining Membership

Fred Sperry, CPBE
608-264-9806
fred.sperry@ecb.org

Certification & Education

Jim Hermanson, CPBE, CBNT
services@jimhermanson.com

Frequency Coordination

Tom Smith, CPBE
608-837-2729
tcsmith100@frontier.com



Meeting Minutes

from the November 2014 Business Meeting

Chapter 24 of the Society of Broadcast Engineers met on Wednesday, November 19, 2014 at WISC-TV in Madison, Wisconsin. There were 11 members in attendance, 9 of whom were SBE Certified, and 2 guests. Kevin Trueblood, Chairperson, called the meeting to order at 7:02 pm. There were no October Meeting Minutes to be approved since we did not hold a business meeting during the Broadcasters Clinic.

Treasurer, Leonard Charles, reported that the chapter's bank account is in the black, and no checks have been written since his last Treasurer's Report. Newsletter Editor, Paul Stoffel, thanked members for contributing articles to the newsletter. Paul reported the deadline for the next newsletter as midnight on Wednesday, December 3.

Program Committee, Steve Paugh, announced that the December program, the Chapter 24 Holiday Party, would be held on December 18 at Fitzgerald's in Middleton. The January program is in the planning phase. Steve is working on plans for a loudspeaker shootout at Full Compass Systems for a future program. On behalf of Certification Chairperson, Jim Hermanson, Kevin Trueblood reported that the next local exam period will be February 6 – 16. Applications are due by December 31.

National Liaison, Leonard Charles, reported that National Board Member RJ Russell has been assigned as our national board liaison for the next year. The liaison serves as a contact for chapter leadership and members if we have a question, comment or concern. Russell is also the liaison for all of the other Wisconsin chapters, as well as Minneapolis and the Quad Cities chapters. RJ Russell lives in Tucson, Arizona. Also, John Poray and the national office would like to wish everyone in Chapter 24 a great Thanksgiving holiday.

Frequency Coordinator, Tom Smith, did not have an update.

There was no old business reported.

For new business, Gerrit Marshall asked if anyone had heard reports of how stations were faring during the early snowstorms in the Upper Peninsula and upper State of New York.

Chairperson Kevin Trueblood adjourned the business meeting at 7:15 PM. For the evening's program, Beth Ashenbrenner and Jenny Carson of the U.S. Captioning Company gave a presentation about their closed captioning services and captioner Melissa Thompson demonstrated live captioning of a weather segment by Gary Cannalte.

Submitted by Vicki W. Kipp on behalf of Pete Deets, Secretary



Auction Setting Records

>>> by Tom Smith

On November 13th, the FCC started an auction for 1,614 licenses covering the 1695-1710 MHz band, the 1755-1780 MHz band and the 2155-2180 MHz band. The bands are named the Advanced Wireless Services 3 or AWS-3. As of midday on December 2nd, the auction had completed 43 rounds, with round 44 to be started. The last round totals that were posted were for round 42 and the total was \$36,525,186,800 or a little over 36 and 1/2 billion dollars.

There are 5 blocks of spectrum that are broken up into 176 geographic areas to be bid on called Economic Areas and one block of spectrum broken up into 734 smaller geographic areas called Cellular Market Areas. The blocks of spectrum are broken up as follows: the 1695-1710 MHz band is broken up into two unpaired blocks of 5 MHz from 1695-1700 MHz and 1700-1710 MHz; the 1755-1780 and 2155-2180 MHz blocks are paired into four groups which include three 10 MHz blocks starting with 1755-1760 and 2155-2160 as the first paired block followed by 1760-1765 and 2160-2165 MHz, and 1765-1770-2165-2170 MHz blocks and one 20 MHz block covering 1770-1780 and 2170-2180 MHz; the 1755-1760 and 2155-2160 block is the block that is divided into the 734 Cellular Market Areas.

This auction may impact the TV Incentive Auction in ways not yet known. The Auction for AWS-3 and a previous auction for what was called the H Block, which went for \$1.564 billion to American H Block Wireless LLC and included all 176 Economic

areas covering the paired bands of 1915-1920 and 1995-2000 MHz along with the TV Incentive Auction, were to raise \$5 billion for the First Responder Network. Since these first two auctions have surpassed that goal, the funds to be raised by the TV Incentive Auction are no longer needed for use in building out the First Responder Network. That leads to the question: Will the success of the first two auctions take the pressure off the FCC to move forward with the TV Incentive Auction as quickly as planned or will they now try to duplicate the success of the first two auctions and add another large sum of cash to the U.S. Treasury? Future actions by the FCC will provide the answer, of course, after a lot of speculation in the press. For more information on this and the other auctions, check the FCC Auction site at: (http://wireless.fcc.gov/auctions/default.htm?job=auctions_home)

Chief Operator Responsibilities webinar January 15

“Chief Operator Responsibilities: What should I be doing?” will be presented live on Thursday, January 15, from 1:00 to 2:30 p.m. CST. 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 Rules 73.1870). This training covers the responsibilities of the Designated Chief Operator.

Our presenter is Dennis Baldrige, CPBE, 8-VSB, AMD, DRB, CBNT, 30 year veteran of the broadcasting industry and Senior Member of the SBE. The discounted fee for SBE members is \$49. The fee for non-members is \$80. Register on-line or for more information, visit the SBE website.



Dennis Baldrige

© 2014 by SBE Chapter 24, Inc. Views expressed herein do not necessarily reflect the official positions of the Society, its officers, or its members. SBE Chapter 24, Inc. regrets, but is not liable for, any omissions or errors. The Chapter 24 Newsletter is published twelve times per year. Other SBE Chapters are permitted to use excerpts if attributed to the original author, sources, and SBE Chapter 24.



James Daniels, Jr. (J.D.)
Midwest Regional Sales Manager

IKEGAMI ELECTRONICS (U.S.A.), INC.
16206 Hunter Court, Orland Hills, IL 60487

Tel: (708) 460-1451 www.ikegami.com
Fax: (630) 248-5185 E-mail: jdaniels@ikegami.com



7847 BIG SKY DRIVE
MADISON, WISCONSIN 53719
(608) 833-0047 • FAX (608) 833-5055



Portable, Professional Audio

Sound Devices, LLC
E7556 State Rd. 23/33
P.O. Box 576
Reedsburg, Wisconsin 53959
www.sounddevices.com
Phone: (608) 524-0625
Fax: (608) 524-0655



Bryan Nelson, CTS
Integrated Systems Sales

7711 Computer Avenue / Edina, MN 55435-5494
direct: 952.841.3304 / cell: 612.819.7213 / phone: 952.896.9898 / fax: 952.896.9899
bryan@alphavideo.com / www.alphavideo.com



5727 Tokay Boulevard
Madison, Wisconsin 53719

(608) 274-1234
Fax: (608) 274-9514

Antenna System Specialist

TV		Troubleshooting
FM		Sweep Testing
AM		Infrared Testing

www.ResonantResults.com
Richard Wood (608)839-3950



John Salzwedel
President

501 Moravian Valley Road, Waunakee, Wisconsin 53597
Phone: (608) 849-4965 Fax: (608) 849-4035 Cell: (608) 235-9632
Web Page: www.tokencreek.com E-Mail: john@tokencreek.com



Amateur Radio News

compiled by Tom Weeden, WJ9H

- Japan has successfully launched its Hayabusa 2 asteroid sample-return mission into deep space, and with it, two satellites carrying Amateur Radio payloads. A Japan Aerospace Exploration Agency (JAXA) rocket lifted off on schedule early on December 3 (UTC), carrying the Hayabusa 2 spacecraft on the first leg of its journey to Asteroid 1999 JU3. Along for the ride into deep space are two Amateur Radio satellites, Shin'en 2 (Abyss 2) and ARTSAT2:DESPATCH. The launch had been postponed twice owing to unfavorable weather conditions. Shin'en 2 will identify as JG6YIG, while ARTSAT2:DESPATCH will use the call sign JQ1ZNN.

Shin'en2 carries a 0.1 watt CW beacon on 437.505 MHz and telemetry on 437.385 MHz (0.8 W) using a mode similar to WSJT. It also will carry a F1D digital store-and-forward transponder with an uplink of 145.942 MHz and a downlink at 435.270 MHz (0.4 W).

ARTSAT2:DESPATCH carries a 7 W CW transmitter on 437.325 MHz and will have onboard the first sculpture ever to be carried into deep space. The ARTSAT2:DESPATCH deep-space mission has announced that it is seeking "exceptionally skilled ham operators" as part of its "cooperative diversity communication" experiment. This effort will attempt to intercept signals from the spacecraft not only at the ground station in Tokyo, but at Amateur Radio stations around the world, "in order to reconstruct the original data from the spacecraft."

"Reception of such weak signals to reconstruct data from the

spacecraft will require the expertise of exceptionally skilled ham operators," the satellite's developers explained on the ARTSAT website <<http://amsat-uk.org/tag/artsat/>>.

The two spacecraft will have an elliptical orbit around the Sun and travel to a deep space orbit between Venus and Mars. With an orbital inclination of nearly zero, the spacecraft should stay in Earth's equatorial plane. The distance from the Sun will be between approximately 6.5 million and 12 million miles.

- NBC appears poised to launch a television series based on the 2000 movie *Frequency*, in which ham radio — aided by some spectacular solar phenomena — plays a central role in the sci-fi thriller.

According to a November 13 article in *The Hollywood Reporter*, NBC has already committed to the series. Jeremy Carver is writing the script for Warner Brothers Television and will be the series' executive producer. Toby Emmerich, who wrote the movie, will be a co-producer.

While Amateur Radio has made only fleeting appearances in the ABC series "Last Man Standing," it is an essential plot device in *Frequency*. In the movie, a New York City fireman, Frank Sullivan, played by Dennis Quaid, re-connects via a bizarre ham radio link with his son, John, 30 years in the future. Jim Caviezel, now a star in the CBS drama, "Person of Interest," portrayed John Sullivan, an NYPD detective. John Sullivan comes across his late father's 1960's-era Heathkit transceiver, through which — with the help of quirk of nature and some Hollywood magic — he is

able to communicate with his father through time and space.

Once back in touch, father and son conspire in efforts to change the past while also untangling their complicated personal relationship. Both also attempt to prevent a murder.

The ham radio theme and the chance to see vintage ham gear and real, glowing vacuum tubes (Frank Sullivan's old Heathkit has no cover) on the big screen were sufficient to generate considerable interest within the "Boat Anchor" community when the movie debuted. The American Radio Relay League worked with the film's producers. Frequency remains widely available in DVD and through video services. (Thanks to John Bigley, N7UR, Nevada Amateur Radio Newswire)

(Excerpts from the American Radio Relay League's <arrrl.org> web site)



More Repacking Software

>>> by Tom Smith

On November 3rd, the FCC issued a notice (http://transition.fcc.gov/Daily_Releases/Daily_Business/2014/db1103/DA-14-1595A1.pdf) that they were releasing additional software to help stations analyze possible interference issues and determine possible channel assignments during the repacking process. This software and the other software the FCC has previously released can be found at (<http://www.fcc.gov/learn>) which is the FCC website that contains information on the proposed Incentive Auction.

Contest Rules on the Web

>>> by Tom Smith

On November 21st, the FCC adopted a Notice of Proposed Rulemaking (http://transition.fcc.gov/Daily_Releases/Daily_Business/2014/db1121/FCC-14-184A1.pdf) which would allow broadcasters to post contest rules on their websites instead of having to give the long announcement giving all the rules on the air. This rulemaking is in response to a petition by Entercom Communications Corporation. Currently stations are required to make on-air announcements giving the rules on the conduct of their contests, when the contest is first announced and at regular intervals. The new rules would allow stations to either continue to broadcast the rules or post them on their website. When posting them on their website, the station would be required to announce every time the contest is mentioned or advertised, that the rules can be found on the website and give the complete web address. Stations can choose to do either method at any time. The notice mentioned that for some contests with simple rules a station may elect to give the rules on-air; other contests with more complex rules, stations may choose to post on the website. There will be a 60-day comment period followed by a 30-day reply period after the Notice is published in the Federal Register.



SBE Bookstore

Browse books by title at:
http://www.sbe.org/sections/store_books_listings.php

FCC To Go On The Road

>>> by Tom Smith

On November 13th, Howard Simons, Vice Chair of the FCC's Incentive Auction Task Force issued a blog posting (<http://www.fcc.gov/blog/taking-broadcaster-outreach-road>) announcing that the FCC will visit around 50 cities that they consider most important in clearing enough spectrum to meet their Incentive Auction Goals. The visits will occur between January and April of 2015. Madison and Milwaukee are included in their travel plans, as well as Chicago, Rockford and South Bend, IN. They will hold town hall meetings to explain further details on opening bid prices and participation options and address questions. They will also meet confidentially with individual broadcasters. There is also plans to conduct phone conferences and webinars with broadcasters not attending the road show meetings.



Gepco International, Inc.
500 Thorndale Avenue, Suite F
Wood Dale, IL 60191-1267
Tel: 1-630-496-0486
www.Gepco.com

Matt Hayes
Inside Sales
mhayes@generalcable.com



http://www.sbe.org/sections/cert_index.php



http://www.sbe.org/sections/cert_exam_prep.php



The Association
of Broadcast and Multimedia
Technical Professionals



5201 Femrite Drive
Madison, WI 53718
p 608.221.8888 f 608.221.9252
w avisystems.com

Tom Sibenaller
Systems Sales Specialist
CTS, CSTE
e tom.sibenaller@avisystems.com
d 608.807.1860 c 608.386.2611



8001 TERRACE AVE. | MIDDLETON, WI 53562
p: 608.831.7330 | f: 608.831.6330
order line: 800.356.5844
fullcompass.com

KEVIN PECKHAM
Product Manager
Ext. 1356
peckham@fullcompass.com

PRO AUDIO VIDEO A/V LIGHTING



WMTV
MADISON

615 Forward Drive
Madison, WI 53711
608-274-1515
www.nbc15.com



SENDING ALL THE RIGHT SIGNALS

John C. Purvey
BAV Specialist
Broadcast & AV Solutions
john.purvey@belden.com
PHONE: 815.441.5298

447 Hampshire Lane
Crystal Lake, IL 60014
www.belden.com

SCHARCH LLC

AVaya * Lucent Technologies * AT&T
Business Communications Service since 1983

1105 Middleton St., Madison, WI 53717
Tel: 608 831-2266 or 800 831-2266
www.scharch.net

Stan Scharch
stan@scharch.net

Thanks to Leonard Charles for maintaining the Chapter 24 web site and to Steve Paugh for mailing the meeting reminder postcards.

JANUARY 2015 Chapter 24
Newsletter Deadline:
Friday, January 2, midnight
paul.stoffel@wpt.org
edited using Adobe InDesign CC

SBE Certification

The SBE Certification Committee has established the following exam dates. Choose the exam period that is best for you.

<u>Exam Dates</u>	<u>Location</u>	<u>Application Deadline</u>
February 6-16, 2015	Local Chapters	December 31, 2014
April 14, 2015	Exams at the NAB Show	March 20, 2015
June 5-15, 2015	Local Chapters	April 10, 2015
August 7-17, 2015	Local Chapters	June 5, 2015
November 6-16, 2015	Local Chapters	October 2, 2015

When you are ready to take an SBE exam, please fill out the appropriate application and send it into the SBE National office (see address below). You will be notified once your application has been approved. Approximately 3 weeks before the exam time, your local certification chairman will receive a list of applicants in his/her area. He/she will then contact those applicants to schedule a date, time and place for the exams. The exams will be mailed back to the National office for grading. The pass/fail grades will then be mailed directly to the applicants.

Jim Hermanson, CPBE, CBNT
SBE Chapter 24 Certification/Education Chair

You may mail, email or fax your applications to:

Megan E. Clappe
Certification Director
9102 N. Meridian St. Suite 150
Indianapolis, IN 46260
(317) 846-9120 fax



Heartland Video Systems
Heartland Video Systems, Inc.
1442 Pilgrim Road
Plymouth, WI 53073
Tel: (800) 332-7088
(920) 893-4204
Fax: (920) 893-3106
mbart@hvs-inc.com
www.hvs-inc.com
www.hvs-dtv.com

Mark Bartolotta

DIGITAL SOLUTIONS
Broadcast/Professional



Brian Stumpf
Regional Sales Manager -
Midwest USA
1266 Gils Way
Cross Plains, WI USA
53528-8837
Tel: (608) 798-9578
Cell: (608) 345-2544
Fax: (608) 798-9577
bstumpf@rossvideo.com
www.rossvideo.com

Leading the World
in Live Production
Solutions



CHAPTER 24 SUSTAINING MEMBERS

Recent Renewal:

WISC-TV 3

Thanks to all our Sustaining Members:

Alpha Video

AVI Systems

Belden, Inc.

Clark Wire and Cable

Full Compass Systems

GEPSCO International, Inc.

Heartland Video Systems

Ikegami Electronics (USA), Inc

Resonant Results, Ltd.

Ross Video

Scharch Electronics

Sound Devices, LLC

Token Creek Productions

WMTV-TV 15

WKOW-TV 27

WMSN-TV 47