



May 2018

Society of
Broadcast Engineers
Chapter 24
Newsletter
Madison, Wisconsin



Next Meeting

Wednesday, May 23

Standby Power Flywheels and UPS by Eaton Industries

At this month's meeting members will review and vote on proposed changes to the By Laws governing SBE Chapter 24 operations. The proposal is available in the May newsletter and on the Chapter web site. Please review it before the meeting.

Then Bret Quinnell of the Data Center Segment of Eaton Corp will speak to us about AC UPS Systems & DC Sources for UPS, Flywheels vs. VRLA Batteries.

Dutch treat dinner at 5:30 pm
Food Court
66 W Towne Mall
Madison, WI

Meeting and program at 7:00 pm
WISC TV, Conf B
7025 Raymond Road
Madison, WI

Visitors and guests are welcome!



Coming Up

Weds., June 20 WBA Summer Engineering Conference Milwaukee
Weds., July 25 Tour of Sun Prairie Media Center

2018 Election Results

Chairman – Rich Wood
Vice Chair – Clif Groth
Secretary – Mike Norton
Treasurer – Roy Henn

Thanks to our re-elected slate of officers for their time and dedication to Chapter 24 for the next year.

FCC Eases DTV Services Filing

>>> by Tom Smith

TV Broadcasters may no longer have to make the annual filing reporting on auxiliary or supplemental services that they may provide within their DTV transmissions. The FCC issued the notice (https://transition.fcc.gov/Daily_Releases/Daily_Business/2018/db0413/FCC-18-41A1.pdf) on April 13th. As part of allowing TV stations to use a second channel during the DTV transition, Congress required the FCC to collect a 5% fee on all payments that a station received from data or other non broadcast services.

All stations were required to file with the FCC a report each December whether they provided services or not. With this notice only stations that provide these services will be required to file the report each year with their payment. This relieves stations from filing one less form which was irrelevant to their operation.

Registering Satellite Dishes

>>> by Tom Smith

On April 19th, the FCC issued an order (https://transition.fcc.gov/Daily_Releases/Daily_Business/2018/db0419/DA-18-398A1.pdf) requiring the registration of satellite receive stations in order to collect data on existing satellite receive stations and possibly provide protection from interference by the possible sharing of the 3.7 to 4.2 GHz band currently used for satellite reception and telephone common carrier point-to-point microwave transmission. They issued a freeze on all new satellite stations and point-to-point microwave stations in the 3.7 to 4.2 GHz band in the same order. In order to register a satellite station, it must have existed before April 19th. The FCC also issued that day a public notice (https://transition.fcc.gov/Daily_Releases/Daily_Business/2018/db0419/DA-18-396A1.pdf) that they were asking for comment on a proposed rulemaking to allow mobile broadband (cellular) service to share the band and on May 1st the FCC released a notice (https://transition.fcc.gov/Daily_Releases/Daily_Business/2018/db0501/DA-18-446A1.pdf) outlining the questions they

>>> **Satellite** continued on page 5



In this Issue

Meeting Minutes.....2
Amateur Radio News.....3
Proposed Bylaws Changes.....4
Sustaining Members.....7
Summer Engineering Conference.....8



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the program committee!*

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Visit sbe24.org



Meeting Minutes

from the April 2018 Business Meeting

Chapter 24 of the Society of Broadcast Engineers held its monthly meeting on Thursday, April 26, 2018, at the WMTV studios in Madison. There were 11 members present, 7 who held SBE certification, and 2 guests.

Chapter Chair Rich Wood called the meeting to order at 7:00 pm. The March meeting minutes, as published in the April Newsletter, were accepted on a motion by Leonard Charles and a second by Rich Wood.

Treasurer Roy Henn reported there were no new deposits in the chapter account, and the group finances continue to be stable.

Leonard Charles provided a chapter newsletter update. Now that elections are completed, proposed modifications to the Chapter bylaws would be put in the next newsletter and/or on the website. With a quorum present at the May meeting a vote could be taken to eliminate the requirement for a chapter newsletter. It would be replaced by information on the website, along with a monthly email notice of upcoming meetings. If bylaw changes are approved, then news articles, minutes, and certification information would move exclusively to the sbe24.org website.

Rich Wood gave a membership update stating there are 36 current members. Fred Sperry forwarded information showing 16 sustaining members, with Alpha Video and WMTV as recent renewals.

Rich reviewed the upcoming programs, starting with the Wednesday, May 23 talk about flywheel UPS systems to be held at WISC-TV. June 20 will be the WBA summer conference in Milwaukee, and the July 25 meeting will include a tour of the Sun Prairie Media Center.

Frequency coordinator Tom Smith noted there were no new requests for coordination. He did note that the FCC is studying the feasibility of sharing C-band satellite downlink frequencies with commercial wireless services. Radio and TV stations with receive-only satellite dishes using 3.7-4.2GHz frequencies should register their downlinks with the FCC before July 18.

Leonard Charles relayed a National report item with the SBE National holding a Strategic Planning Conference on Saturday, June 9 in Indianapolis; more details are available on the sbe.org website.

There was no old or new business brought up for discussion. In professional and general announcements, Tom Weeden mentioned that Pete Deets was recovering from surgery and would be out for a number of weeks. Rich Wood talked briefly about the recent television tower collapse in Missouri that caused a fatality, and what information was known at the time.

The meeting was adjourned at 7:28 pm. The NAB Wrap-up program followed, with members who attended the NAB conference and trade show giving a summary of information and products of interest.

Submitted by Mike Norton, Secretary

Token Creek
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Amateur Radio News

compiled by Tom Weeden, WJ9H

- Radio amateurs were among some 600 global visitors signing in at American Radio Relay League's booth at the 2018 National Association of Broadcasters (NAB) convention in Las Vegas April 7 - 12. Those stopping by hailed from many countries, including Australia, South Korea, Israel, Norway, Canada, England, Ireland, Peru, Brazil, Argentina, Japan, New Zealand, Germany, Belgium, Tanzania, Greenland, the US Virgin Islands, Poland, South Africa, Bulgaria, and Spain. Nevada Section Manager John Bigley, N7UR, who said many visitors never signed the register, managed the booth with the help of volunteers from various Nevada Amateur Radio groups

"When you have more than 100,000 broadcasting, electronics, and communications professionals under one roof, it's easy to assume that promoting Amateur Radio is kind of like preaching to the choir," Bigley said. "Yet, even in this environment I was surprised by the large number of people who have never heard of Amateur Radio." Bigley said the booth's enthusiastic volunteers successfully enlightened and informed many visitors.

New to the booth this year was a kiosk with three screens continuously playing informational videos on such topics as the ARRL Teachers Institute, Amateur Radio's response to Hurricane Maria, young radio amateurs handling health-and-welfare traffic for Puerto Rico, the "Land Ops" Amateur Radio activity, and information on local ham radio resources and activities.

NAB traditionally sponsors an Amateur Radio reception at the annual industry gathering.

- Former "Coast to Coast AM" and "Dreamland" radio host Art Bell, W6OBB, of Pahump, Nevada, died on Friday, April 13, at his home, the Nye County Sheriff's Office announced. He was 72. A KSNV news report indicated that Bell's family was with him when he died. The Sheriff's Office said an autopsy would be performed.

Bell's long-running radio show trafficked in conspiracy theories, the paranormal, and "dark matter." Ham radio came up too, from time to time. In early 2004, Bell aired an extensive live interview with then-ARRL President Jim Haynie, W5JBP (SK).

"Coast to Coast AM" was syndicated nationwide in the early morning hours and, at its peak, was said to have reached 50 million listeners. Bell produced the show from his own studio in the High Desert of Nevada. Often, after his show was over, he would get together on 75 meters with a group of friends.

Bell retired from "Coast to Coast AM" in the early 2000s, although he had served as a guest host as recently as 2010. He briefly returned to the air with "Art Bell's Dark Matter," which lasted several weeks on the SiriusXM satellite network, but he subsequently got involved with another radio program, "Midnight in the Desert," streamed via the Internet. He quit that show in 2015, however, citing "security concerns" at his home.

Bell was the author of the books *The Art of Talk*, *The Quickening*, and *The Coming Global Superstorm*. (Thanks to KSNV and International Business Times)

- Thousands of slow-scan television (SSTV) enthusiasts around the globe enthusiastically tracked the

International Space Station (ISS) to download commemorative SSTV images transmitted as part of the ARISS-Russia Cosmonautics Day (International Day of Human Space Flight) celebration April 11 - 15. Another ARISS-Russia SSTV event is planned for May.

As of April 13, upward of 9,000 images relating to the 40th anniversary of the Interkosmos Project period of the Soviet space program had been posted for viewing. The SSTV images, stored on a computer in the ISS Russian segment, were transmitted by RSOISS on 145.800 MHz with PD-120 SSTV protocol, using a Kenwood TM-D710E transceiver.

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



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Proposed Changes to SBE Chapter 24 ByLaws

5/1/18

(also available on the Chapter web site)

Strike-through is deleted text.

Red font is added text)

ARTICLE IV

Sustaining Membership

Section 3. Sustaining members are entitled to an equal sized advertisement in 12 consecutive Chapter 24 newsletters on the Sustaining Member page of the Chapter web site. The advertisement will be generated from a photo copy ready, business card sized master provided by the Sustaining Member with paid application. Advertisements may be reduced equally to allow better use of space and neatness of publication in the newsletter. In addition an electronic "link" to each Sustaining Member will be included in the electronic monthly meeting notice. Each new and renewing Sustaining Member will be announced at the next monthly meeting. The Sustaining Member will receive an electronic copy of the Chapter's newsletter for each month that they remain a Sustaining Member.

Section 4. The Elected Officers may award a Sustaining Membership, for a period of one year, to any organization or individual that provides an amount of service that is deemed equivalent to the value of the yearly Sustaining Membership fee.

Section 5. Sustaining Members are entitled to make four mailings per year to the Chapter membership. The mailings will be separate from the Chapter's newsletter. The mailings must be mail ready with postage provided by the Sustaining Member.

ARTICLE VI

Appointed Officers and Committees

Section 3. The following standing committees are to be appointed by the Chairperson.

- a. Program
- ~~b. Newsletter~~
- ~~c. Certification and Education~~
- ~~d. Frequency Coordination~~
- ~~e. Webmaster~~
- f. e. Membership
- ~~g. Sustaining Membership~~
- ~~h. g. National Liaison~~

Section 5. The Newsletter Editor shall elicit pertinent material for publication in a monthly Chapter newsletter. The monthly newsletter will be made available in electronic form and a link to the newsletter will be e-mailed to Chapter 24 members, sustaining members and other individuals as approved by Chapter 24 officers. An electronic version of the newsletter will also be uploaded to the Chapter 24 web site. Acceptance of articles for publication in the Chapter newsletter shall be at the discretion of the Newsletter Editor and the Chapter Elected Officers. Job openings may be announced in the newsletter. With the exception of Sustaining Membership ads, other commercial advertisements, blurbs or announcements are not considered pertinent material for the Chapter 24 Web site. Equipment for sale listings from members and sustaining members may be published in the newsletter. Permitted information for such equipment listings are make, model, condition, brief description and price. Equipment lists offering equipment that is normally sold as part of the seller's routine business offerings are not permitted.

The Webmaster shall solicit current industry news to be published on the web site. The web site shall also contain the most recent up to date listing of the Chapter meeting schedule, the monthly meeting announcements, and the minutes of the most recent Chapter meeting. In addition the web site shall contain as much archival material as is practical and available.

Section 7. The Program Chair shall be responsible for procuring the program portion of each monthly meeting. In addition the Program Chair is responsible for sending the monthly meeting announcement in electronic form to all Chapter registered members and Sustaining Members.

Section 7-8. Beyond those stated in this Article, duties of standing and appointed committees shall be defined by the Elected Officers.

ARTICLE VIII

Nominations and Elections

Section 2. The Nominations Committee should make ballots along with candidates biographies available to Chapter members through the Chapter newsletter website. These items should appear in the April newsletter preceding in conjunction with the election.

Section 3. Elections shall take place beginning the first of April and end at the April Chapter meeting. The preferred means of voting is electronic via the Chapter web site. If any member cannot vote electronically they may download a paper ballot from the Chapter web site. Only Chapter 24 members in good standing are eligible to vote. Those members unable to be present at the April meeting are permitted to send the ballots from the April newsletter to the Nominations Committee. These ballots shall remain sealed until ballots are officially counted.

Section 4. The Nominations Committee is responsible for counting election ballots. Once the ballots have been tallied, the Nominations Committee is responsible for communicating the results to the election candidates. The Nominations Committee should then inform the Chapter Officers of the election results. These results will then be published in the May newsletter on the Chapter web site and sent to the SBE National Office.

ARTICLE XIV

Amendment of Bylaws

These bylaws may be amended at any regular meeting of the Chapter by a two-thirds vote of the members present and a quorum has been established (see article 7; section 4), provided that the amendment has been published in the Chapter newsletter and/or on the Chapter web site prior to the vote.

Gary Timm to be inducted into the WBA Hall Of Fame

>>> from Chapter 24 website's *Industry News*

Four new members of the Wisconsin Broadcasters Hall of Fame will be inducted in ceremonies the evening of June 21 during the WBA Summer Conference at the Hilton Milwaukee City Center. One of those inductees will be long time broadcast engineer and SBE member, Gary Timm.

Gary is best known for his dedication to promoting and supporting the Emergency Alert System (EAS) in Wisconsin and nationally.



He embodies the commitment Wisconsin broadcasters have to serving their communities. His career in engineering, numerous consultant roles, and leadership as Broadcast Chair of the Wisconsin State Emergency Communications Committee for more than 25 years have demonstrated his expertise, commitment to excellence, passion for broadcasting, and dedication to the important role broadcasters play in keeping people informed and safe.

Timm was an engineer at WTMJ-AM, WKTI-FM, and WTMJ-TV in Milwaukee starting in 1973 and spent much of his career working on EAS issues. Timm is the primary author of the Wisconsin State EAS plan, which was the first in the nation to be completed. From 2010 until his retirement in 2015, Timm was a senior consultant supporting the U.S. Department of Homeland Security. In retirement Timm continues to be involved in EAS issues and has assisted the National Weather Service, Wisconsin Emergency Management, Amber Alert, the FCC, and FEMA. He has authored numerous articles and handbook chapters and is recognized as an EAS expert. He has won acclaim for his ability to explain technical issues to a non-technical audience.

>>> *Satellite* continued from page 1

are asking for comment on and set a comment closing date of May 31st and a closing date for replies of June 15th.

The question that the FCC is seeking answers to include the impact on existing services, how interference can be minimized and what parts of the band would suffer the least interference and any other issues that may be needed to be addressed..

When satellite transmissions started, the FCC required satellite receive stations to be licensed so that they could be coordinated with point-to-point microwave services which were common carrier services of the telephone companies and carried long distance phone calls and intercity video services for the TV networks. When it was found that there was limited interference and the telephone companies started to replace the microwave service with fiber optic transmission, the FCC dropped the licensing requirements. Because FCC data shows very few licensed receive stations and mainly show receive stations at uplink facilities, it makes the band look like it is lightly used and would allow for use for mobile broadband use in the band. The FCC wants data on the number of satellite receive stations and microwave point-to-point stations so that commenters have the data to analyze the impact on existing users. The FCC is waiving the requirement that the satellite stations must coordinate with fixed microwave stations, but will have to pay a filing fee of \$495. Registration may not in the end prevent interference depending on what the FCC allows for new fixed microwave relay and mobile broadband services.

There are two postings on <radiolist.net> with links to them on The Broadcast Desktop Resource website (<https://www.thebdr.net/articles/haps.html>) that explains the process of filing for registration of a satellite earth station. All registrations must be filed by July 18th.

FCC Targets Pirate Radio Stations

>>> by Tom Smith

The FCC issued a press release (https://transition.fcc.gov/Daily_Releases/Daily_Business/2018/db0411/DOC-350171A1.pdf) on April 11th during the NAB convention touting the success of its enforcement against pirate radio stations. Since January 2018, the FCC has initiated 306 investigations with 210 Notices of Unlicensed Operation with successful prosecution of a Notice of Apparent Liability of Forfeiture and 4 seizures of equipment.

In the notice there is a link (<https://www.fcc.gov/reports-research/maps/fcc-enforcement-actions-against-pirate-radio-location/>) to an interactive map that gives the number of stations that the FCC investigated. The states with the largest number of violators are New York, New Jersey, Florida, California and Massachusetts.



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

The Association for Broadcast and Multimedia Technology Professionals



Society of Broadcast Engineers

SBE Chapter 24 Certification and Education News

The Open 2018 Exam Schedule

Exam Dates	Location	Application Deadline (to SBE national Office)
August 3-13, 2018	Local Chapters (Madison Area)	June 5, 2018
November 2-12, 2018	Local Chapters (Madison Area)	September 24, 2018

Chapter 24 Annual Certification Drive

Each year, account balance permitting, Chapter 24 will reimburse half the application fee to any member of Chapter 24 in good standing who successfully obtains any SBE certification level not previously held by that member.

Recertification of a currently held certification will not be included in this drive. Only new certification levels for a member will be permitted.

Only one reimbursement per member will be allowed during a given calendar year.

The Chapter will limit the number of approved applications to ten a year.

Reimbursement for half the cost of a given exam will be provided to the member upon presentation of a congratulatory letter from the National Office indicating exam passage and the brief application form available here: (WORD format or PDF format). This letter and application should be forwarded to the Chapter Chair to begin the reimbursement process (if the Chapter Chair wishes to apply for this reimbursement, another officer will review the application and letter for reimbursement). Current Officers

Approved reimbursements will be sent in the form of a check sent from the Treasurer of Chapter 24.

SBE Chapter 24 Officers reserve the right to deny any reimbursement that doesn't meet the stated guidelines.

There is no targeted termination date for this program; however, each slate of newly elected officers will likely review this program and determine whether they desire to continue this membership drive. SBE Chapter 24 Officers reserve the right to terminate or change the guidelines of this certification drive at any point they deem necessary.

Reimbursement is only offered to Chapter 24 members of good standing, and not to any business or entity who pays for, or reimburses, the cost of a certification on the behalf of a member.

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.

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
 mclappe@sbe.org



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FCC Acts on EAS

>>> by Tom Smith

The FCC took two actions on EAS on April 13th. One action set the rules for the electronic filing of state EAS plans and the second action was the release of the report on last fall's national EAS test. In the rulemaking (https://transition.fcc.gov/Daily_Releases/Daily_Business/2018/db0410/FCC-18-39A1.pdf) concerning the filing of the state EAS plans, the FCC has created an electronic filing system for the state plans which the screen shots of the online forms are shown in the Order. In the discussion, explanations of the various terms were covered as they are to be used in filling out the forms, privacy issues were covered concerning sensitive information about facilities and equipment used for EAS alerts and the potential costs of filing the plans with the FCC. By using the electronic filing system, it will make the information from each state plan uniform and easier to analyze.

The second action was the release of the report (https://transition.fcc.gov/Daily_Releases/Daily_Business/2018/db0413/DOC-350223A1.pdf) on last fall's national EAS test. The test was considered a success as more than 95% of the stations reporting had received the test and over 91% of these stations were able to resend the test. There were fewer issues in the transmission of the test such as audio problems. The biggest issue was stations not filing the results of the test. Only 76% of the stations filed all three of the required forms. The cable providers had the highest response in the filing all the forms with 98%. Low power TV and radio had the poorest response. The test did prove that the EAS system is improving.



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WISC-TV
MADISON

Thanks to Leonard Charles
for maintaining
the Chapter 24 web site.
www.sbe24.org



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CHAPTER 24 SUSTAINING MEMBERS

Recent Renewal:

Alpha Video

Thanks to all our Sustaining Members:

AVI Systems

Belden, Inc.

Clark Wire and Cable

Full Compass Systems

Heartland Video Systems

Joseph Electronics

The Mink Company

Resonant Results, Ltd.

Ross Video

Sound Devices, LLC

Token Creek Productions

WISC-TV 3

WMTV-TV 15

WKOW-TV 27

WMSN-TV 47

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ENGINEERING DAY

June 20, 2018

Hilton Milwaukee City Center



8:40 a.m. - 4:30 p.m. WBA Engineering Day Sessions

9 a.m. Saving a Tower and Early Experiences with Repacking

AM towers typically have porcelain base insulators. Changing them out is an engineering and rigging challenge. This talk details an insulator change out on a 500' self-supporting tower.



Rich Wood
Resonant Results



Kent Aschenbrenner
*Senior Director of Engineering
E.W. Scripps*

9:45 a.m. Break

10 a.m. Session: Journalists Under Pressure

Journalists are facing new pressures from the public when they're working in the field. How can journalists work safely under the additional scrutiny and how can managers help them. This panel will explore the issue.



Dan Shelley
*Executive
Director RTNDA*



Juli Buehler
*News Director
WLUK-TV*



Michael Kass
*Brown Deer
Police Chief*



Nick Anderson
*Brown Deer
Community
Outreach Officer*



David Oxenford
*Partner
Wilkinson,
Barker, Knauer*



Mike Kemmeter
*News Director
Woodward
Radio Group*



Representative
From WISN-TV



Moderator
Katie Crowther
Reporter WTMJ-TV

11:45 a.m. Lunch

1:15 p.m. Session: Wireless Mics after Repack and White Space Legislative Update:

Sennheiser will bring us an update on what wireless mic manufacturers are doing to keep your mics working after the TV repack and recent White Space rulings.



Eric Reese
*Customer
Development &
Applications
Engineering,
Americas
Sennheiser
Electronic
Corporation*

2 p.m. Session: Millennials: Are millennials being stereotyped? Do they have a special set of rules? A panel of millennials working in the broadcast field will help us with these and other questions. After the break we will hold round table discussions with radio and TV GM's, HR specialists, millennials and all of you. The goal: To determine how we attract and retain the younger generation.



Justin Hull
*Brand Manager
WHBY/WSCO*



Marty Mangerson
*Chief Engineer
WJFW*



Justin Van Hout
*Broadcast
Technician
Woodward Radio*



Britny Williams
*Broadcast
Specialist
WPR*

3 p.m. Break

3:15 p.m. Roundtable Discussion: Each employee is unique. It's our job to ensure they feel comfortable to share ideas and bring new initiatives to the forefront. GM's and HR personnel will draw upon the information gathered from the millennial panel to explore what can be done to recruit and grow our own talent.



Joe Poss
*General Manager
WTMJ-TV*



Cheryl White
*Human Resources
Director - E.W. Scripps*



Anna Engelhart
*Station Manager
WKOW-TV*



Kelly Radandt
*General Manager
Woodward Radio*



Don Vesely
*General Manager
WMTV-TV*



Jeff Ver Voort
*Dir. Human Resources
Morgan Murphy*

5:30 p.m. - 7:30 p.m.: Exhibit Reception

7:30 p.m. - 10 p.m.: Opening Dinner