



April 2017

Society of
Broadcast Engineers
Chapter 24
Newsletter
Madison, Wisconsin

 **Next Meeting**

& CHAPTER ELECTIONS

Tuesday, April 18

**SHARE YOUR
FAVORITE APP
NIGHT**

The ubiquitous smart phone, when coupled with readily available APPs, allows the broadcast engineer to carry a toolbox in their pocket.

This month we will encourage you to share your favorite iPhone and Android APPs with the membership.

We'll have a camera set up to display your phone's screen on the conference room projector.

Hope to see you there!

Remember to cast your ballot on-line for election of officers at sbe24.org!

Dutch Treat Dinner at 5:30 PM
Jason's Deli
7349 Mineral Point Road
Madison, WI

Meeting and Program at 7:00 PM
WISC Conference Room B
7025 Raymond Road
Madison, WI

Park in front parking lot; enter via front lobby entrance.

Visitors & guests are welcome to join us!

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**Incentive Auction
Finally Ends**

>>> by Tom Smith

After eleven months, the Incentive Auction is finally over. The auction went through four stages or restarts after the amounts that broadband wireless industry bids for spectrum was substantially less than what was offered to the broadcaster to give up their spectrum. Finally in stage four, the bids by the broadband wireless industries bids surpassed the amount that was offered to broadcasters and what was needed to cover the costs of repacking of the remaining stations in a smaller UHF band and the costs of conducting the auction. The final part of the auction

>>> **Auction** continued on page 6

**FCC To Take Three
Broadcast Actions
in April**

>>> by Tom Smith

At the April meeting, the FCC is taking up three actions that will affect broadcasters. The first action (http://transition.fcc.gov/Daily_Releases/Daily_Business/2017/db0330/DOC-344155A1.pdf) will reinstate the UHF discount which was eliminated last fall under former Chairman Tom Wheeler. The UHF discount allows a UHF station's population coverage to be counted as half of that of

>>> **FCC** continued on page 5

 **Coming Up**

Wed., May 24	NAB Wrap-up
Thurs., June 22	SBE Family Night — (TBD, need ideas!)
Tues., July 25	TBD

Cast Your Ballot!

>>> submitted by Steve Paugh,
Nominations Chair

We now have on-line voting for your convenience! To cast your ballot on-line simply visit www.sbe24.org and follow the links to on-line voting. You simply enter your last name and your SBE Membership number. The official ballot for the SBE Chapter 24, 2017 election of officers is also being published in this month's newsletter. If you prefer to mail in your ballot you can print out the ballot and mail it to:

Steve Paugh
Ballot
1602 Golden Oak Lane
Madison, WI 53711

Please indicate "Ballot" on the envelope and we will hold your ballot unopened until the official counting process. Your ballot must be in our possession before we begin the counting on April 26. Remember that your membership must be current to be eligible to vote. Your membership number must be entered on the printed ballot for it to be valid. On-line voting will automatically verify your membership number.

The deadline for getting your ballot to the nomination chair or completing the on-line ballot is at noon on Wednesday, April 26, 2017. The nominations committee will count and certify the ballots on the afternoon of Wednesday, April 26, 2017.

Thanks to Leonard Charles for writing the program that allows on-line balloting, to Mike Kulis for serving on the nominations committee and to all the members of SBE Chapter 24 who have volunteered their services to Chapter 24.



Chapter Contacts

Chair

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

Vice-Chair

Richard Wood
Resonant Results
W: 608-839-3950
rwoodsky@frontier.net

Secretary

Mike Norton, CSTE, CBNE
ECB
W: 608-264-9807
mnorton@ecb.org

Treasurer & Webmaster

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

Committee Appointees

Program Committee

Steve Paugh, CPBE
608-277-5139
spaugh@sbe.org
*Volunteer for the
program committee!*

Membership / Newsletter Editor

Paul Stoffel, CPBE
608-358-5351
pgstoffel@gmail.com

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
smithtc100@hotmail.com



Meeting Minutes

from the March 2017 Business Meeting

On Thursday, March 23, 2017 Chapter 24 of the Society of Broadcast held their monthly meeting at WISC-TV in Madison. There were 13 members present, 7 who held SBE certification.

The meeting was called to order at 7:00pm by chapter chair Kevin Ruppert, and quick introductions of everyone were done. The secretary's report of the February meeting minutes as published in the March *Newsletter* was then approved.

Program Committee chair Steve Paugh talked about some possible upcoming meeting topics, including lightning and lightning protection at broadcast facilities. He also received a survey from a company inquiring about the percentage of members working in radio or television. The next meeting on Tuesday, April 18 will include elections and a "Share Your Favorite App" program. Everyone is encouraged to talk about interesting iPhone, iPad, or Android apps they use as tools for their job or hobby. The May 24 meeting will consist of the annual NAB wrap-up. If you are attending the NAB, please snap some photos to illustrate new, innovate, or standout things you see at the NAB Show in Las Vegas. The June meeting is planned to be a "Family Fun Night," so pass along your ideas and interest to Steve.

With a Certification and Education update, Jim Hermanson offered congratulations to Elizabeth Delaquest on successfully earning CBT certification. He said the next local exam window of June 2 – 12 has an application deadline of April 21; the following August 4 – 14 window has a deadline of June 5. Jim also asked who was planning to attend the SBE meeting held at the NAB Show, in order to accept on his behalf an award for his long service as a Certification coordinator.

Treasurer Leonard Charles had forwarded information that the Chapter was credited \$20 for a service fees that was charged after a mix-up with the bank account. There was no other reported activity, so the account balance remains solidly in the black.

For the SBE National report, Leonard Charles forwarded information on upcoming educational SBE webinars. A 90-minute session on *Intro to IP Networking* will be presented by Wayne Pecena on March 28. Another webinar titled *RF 101, Module 3, Towers, Antenna, and Transmission Systems* is scheduled for Thursday April 13, and will be presented by Chapter 24 member Dennis Baldrige. Additionally, everyone was reminded that annual membership renewals were due at SBE National by April 1. An SBE Membership Meeting will be held at 5:15 on Tuesday, April 25 at the NAB Conference. More details are available at www.sbe.org.

In old business, Steve Paugh reviewed the nomination process and announced the current candidates: Rich Wood running for chair, Clif Groth for vice chair, and Mike Norton for secretary. After an explanation of the duties and modest time required, Roy Henn agreed to run for the position of chapter treasurer. Elections will be held in April using an online balloting system.

For new business, Steve Paugh submitted a written motion to amend the Chapter 24 bylaws. In the past, some term limits had been suspended to allow the previous officer to continue when no new candidates ran for that position. There is no method for that in the current bylaws, so a change is required. The proposed bylaw changes will be published in the next Chapter 24 *Newsletter*, and voted on at the following meeting. A quorum of at least 10 percent of registered member is required, and the bylaw changes will need a two-thirds majority vote by those present.

In professional announcements, Jim Hermanson mentioned that Terence Ladwig recently passed away. Ladwig was a long time engineer at WKOW-TV.

The meeting was adjourned at 7:14pm. Steve Paugh turned the floor over to Bill Bennett from Lawo, who gave a presentation about hardware virtualization for radio, and the challenges and benefits of software-centric operation for broadcasters.

Submitted by Mike Norton, Secretary



Amateur Radio News

compiled by Tom Weeden, WJ9H

- The Amateur Service will officially get two new bands below the AM broadcast band in the near future. The FCC has adopted rules that will allow Amateur Radio access to the 630 and 2,200-meter bands, with minor conditions. A Report and Order (R&O) was released on March 29. The effective date of the new rules is hard to predict at this point. The R&O, which also addresses several non-Amateur Radio issues, allocates the 472-479 kHz band (630 meters) to the Amateur Service on a secondary basis and amends Part 97 to provide for Amateur Service use of that band as well as of the previously allocated 135.7-137.8 kHz band (2,200 meters). The R&O also amends Part 80 rules to authorize radio buoy operations in the 1900-2000 kHz band (shared with a portion of the amateur 160 meter band) under a ship station license.

"It's a big win for the Amateur community and the ARRL," American Radio Relay League CEO Tom Gallagher, NY2RF, said. "We are excited by the FCC's action to authorize Amateur Radio access for the first time on the MF and LF spectrum."

The FCC said the Amateur Radio service rules it has adopted for 630 meters and 2,200 meters allow "for co-existence with Power Line Carrier (PLC) systems that use these bands." Utilities have opposed Amateur Radio use of the MF and LF spectrum, fearing interference to unlicensed Part 15 PLC systems used to manage the power grid.

Amateurs operating on 472-479 kHz would be permitted a maximum equivalent isotropically radiated power (EIRP) of 5 W, except in parts of Alaska within 800 kilometers (approximately 496 miles) of Russia, where the maximum would be 1 W EIRP. Amateurs operating in the 135.7-137.8 kHz band could run up to 1 W EIRP.

The FCC is requiring a 1-kilometer separation distance between radio amateurs using the two new bands and electric power transmission lines with PLC systems on those bands. Amateur

Radio operators will have to notify the Utilities Technology Council (UTC) of station location prior to commencing operations.

The FCC also placed a 60-meter (approximately 197 feet) above-ground-level (AGL) height limit on transmitting antennas used on 630 meters and 2,200 meters. The bands would be available to General class and higher licensees, and permissible modes would include CW, RTTY, data, phone, and image. Automatically controlled stations would be permitted to operate in the bands. More details soon, on the ARRL website.

- The owners of certain Amateur Radio towers have a friend in FCC Commissioner Michael O'Rielly, who feels that tower-marking provisions required under the FAA Extension, Safety, and Security Act of 2016, now Public Law 114-190, "could use tweaks." In a March 10 blog post, O'Rielly expressed his belief that thousands of tower owners in the US could face expensive, unnecessary retrofits resulting from the law's unintended consequences. The new FAA law would impose additional marking requirements for a small number of Amateur Radio towers, however. O'Rielly said §2110 — the section of the new law that requires improved physical markings and/or lighting on towers of between 50 and 200 feet — is too broad.

O'Rielly said that §2110 appears intended to address dangers to small, low-flying aircraft, such as crop dusters, from temporary meteorological testing towers (METs), among others, but that if implemented literally, "the provision will force expensive retrofits to potentially 50,000 existing towers," including cell and broadcast station towers and all new towers meeting the law's broad definition, "all with little gain to air safety," he said.

The law instructs the FAA to enact rules similar to state-level statutes now in place that are aimed at improving aircraft safety in the vicinity of METs set up in rural areas. In the wake of fatal

crop dusting aircraft collisions with METs, often erected on short notice, the National Transportation Safety Board (NTSB) recommended in 2013 that states enact laws — sometimes called "crop duster" statutes — requiring marking and registration of METs.

"Mandating new marking and/or lighting burdens for certain temporary aerial towers to aid agricultural pilots is a laudable goal," O'Rielly commented. "However, the new statutory provision may have been drafted broader than intended and, as a result, it unnecessarily captures permanent communications towers that have little overall impact on agricultural air safety."

While some state crop duster laws have exempted Amateur Radio towers, the federal legislation does not. ARRL General Counsel Chris Imlay, W3KD, has said, however, that the list of exemptions in the federal legislation restricts the application of the new rules to a very small subset of Amateur Radio towers.

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



FCC Sets Dates for ATSC 3.0 Comments

>>> by Tom Smith

On March 10, the FCC set the comment dates (http://transition.fcc.gov/Daily_Releases/Daily_Business/2017/db0310/DA-17-239A1.pdf) for their Notice of Rulemaking for allowing TV broadcasters to voluntarily convert their transmissions from ATSC 1.0 to ATSC 3.0. The FCC took the action at the February meeting of the Commission. The comments are due on May 9 and replies are due on June 9. See the March *Newsletter* for further information.



SBE RF101 Module 3: April 13, 1:00 - 2:15 CT

This module continues the RF101 Series and covers these topics: Transmission systems block diagram; common RF system components; antennas and terms; isotropic radiator; dipole and polarization; wavelength versus antenna size; variations on the dipole; and antenna gain introduction. This course is targeted to those with minimal or no background in RF and/or are relatively new to the field. This eight-part series serves as a refresher for more seasoned engineers.

The remaining five modules will be presented over the coming months. Watch for further announcements. The instructor is Dennis Baldrige, CPBE, 8-VSB, AMD, DRB, CBNT and a veteran of the broadcast engineering field for more than 30 years.



RF101: Broadcast Terrestrial Transmission Systems

Course Modules:

1. Introduction to Radio Frequency (RF) (January 26, 2017)
2. Transmission Lines (March 2, 2017)
- 3. Towers, Antennas, and Transmission Systems (April 13)**
4. Antenna Gain - Feed-line Loss (May 18)
5. Modulation Fundamentals (June 15)
6. AM, FM, TV RF Propagation (July 20)
7. RF Transmitter Measurements (August 24)
8. FCC Regulations (September 21)

Upon completion of the entire course, attendees will be able to: 1) Understand the basic characteristics of RF and electromagnetic radiation; 2) Describe different types of transmission lines, antennas, and their characteristics; 3) Understand the fundamentals of RF propagation; 4) Understand modulation and different modern modulation methods; 5) Describe various components used in RF communications systems; 6) Explain the basic characteristics of RF transceiver systems; 7) Define common terms used to characterize RF systems; 8) Understand how to perform a range of basic RF measurements; 9) FCC regulations pertinent to maintaining a broadcast facility.

The completion of this webinar from Webinars by SBE qualifies for 1 credit, identified under Category I of the Recertification Schedule for SBE Certifications.

Dennis Baldrige, CPBE, 8-VSB, AMD, DRB, CBNT, a veteran of the broadcast engineering field for more than 30 years. Baldrige 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). He also holds a M.A.E. and teaches science courses for Upper Iowa University. As owner of Baldrige Communications, LLC, he works as a contract engineer and has also authored articles for Radio Guide. Baldrige serves as an inspector for the FCC Alternate Inspection Program of the Wisconsin Broadcasters Association.

Registration for each module will be done separately. Register here for Module 3.

SBE Members: \$57

Non-Members: \$87



CHAPTER 24 SUSTAINING MEMBERS

Recent Renewals:

Alpha Video
AVI Systems
Belden, Inc.
WMTV-TV 15

Thanks to all our Sustaining Members:

Clark Wire and Cable
Full Compass Systems
Heartland Video Systems
Joseph Electronics
Resonant Results, Ltd.
Ross Video
Sound Devices, LLC
Token Creek Productions
WISC-TV 3
WKOW-TV 27
WMSN-TV 47

Society of Broadcast Engineers



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Shane Collins
Clark Wire & Cable Sales
Unit A
408 Washington Blvd
Mundelein, IL 60060-4401
(800) CABLE-IT
(847) 949-9944
Fax: (847) 949-9595
e-mail: sales@clarkwire.com
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>>> *FCC* continued from page 1

a VHF station. Because a UHF station counts as half of the population coverage, one can own more stations than allowed by the national ownership cap which is based on 39% of the total population of the country. This action allows groups that would be over the cap to retain their stations, or purchase more stations and allow some groups to merge. The FCC plans to review the UHF discount later this year and consider if the ownership cap should be increased and the discount be discontinued or the rules remain as they are now.

The second action affects non-profit TV and radio stations. The FCC is proposing a rule (http://transition.fcc.gov/Daily_Releases/Daily_Business/2017/db0330/DOC-344157A1.pdf) that would allow a non-profit station to be able to do over-the-air fundraising for a third party. This was in response to a petition requesting to fundraise for other groups after a disaster or other event. The FCC has granted waivers in the past for third parties after 9/11 and a number of hurricanes. Stations will be limited to one percent of their airtime per year for third party fundraising. Stations that receive funds from the Corporation for Public Broadcasting, which would be most PBS and NPR stations, will still have to seek a waiver from the FCC before they can fundraise for a third party. In one of the comments on the proposed rule, an example was given that one station wished to fundraise after a local tornado. There would be limitations on the amount of time a station could do third-party fundraising and could only charge for production and other operation costs.

The third action affects diversification in ownership rules. This action (http://transition.fcc.gov/Daily_Releases/Daily_Business/2017/db0330/DOC-344158A1.pdf) changes the reporting rules for non-commercial stations on their ownership reports. Currently members of a station's board of directors must file personal information, such as their social security numbers or date of birth. Stations complained that persons were hesitant to become board members for fear of giving up their privacy. Persons involved in ownership or control of commercial stations will still be required to provide their information on ownership reports.

FCC Expands TV Channel Sharing

>>> *by Tom Smith*

On March 23, the FCC issued a Report and Order (http://transition.fcc.gov/Daily_Releases/Daily_Business/2017/db0323/DOC-344040A1.pdf) that expanded channel sharing between TV stations. For full-power stations, the FCC will allow stations, that choose to share a channel and give up their spectrum, to be able to enter into a new sharing agreement with another station after the initial agreement with original station expires. The FCC will also allow a station that elected to share a channel to be able to share a channel with a Class A station, a LPTV station or a translator. A Class A station that is displaced (loses their channel) can share a channel with a full-power TV station, another Class A station, a LPTV station or a translator station. Low-power TV stations and translators, which are secondary to Full Power and Class A stations and may be displaced by the UHF band repacking, may share with a full-power station, a Class A station or another LPTV station or a translator. All stations that share a channel must conform to the power and coverage limitations of the host station. The FCC will not allow any full-power station, that chose not to participate in the auction or a station that wished to share a channel and dropped out or was eliminated in the auction, to give up their channel and share with another station.

These rules will be a great help to Class A stations, LPTV stations and translators that are displaced in the repack and are unable to find a new channel to occupy.

New AM Translator Rules Take Effect

>>> *by Tom Smith*

The new AM translator rules will take effect on April 10. The Media Bureau issued a notice (http://transition.fcc.gov/Daily_Releases/Daily_Business/2017/db0316/DA-17-255A1.pdf) on March 16. The new AM translator rules will allow AM stations more flexibility in siting their FM translators. See last month's *Newsletter* for further details.

Bylaws Motion Submitted

At the March 23, 2017 a motion was submitted by Steve Paugh and seconded by Rich Wood that the SBE Chapter bylaws, ARTICLE V, Section 2 be modified.

MOTION AS FOLLOWS: TO MODIFY ARTICLE V, SECTION 2:

Section 2. The Officers may be elected to consecutive terms. The Chapter Chairperson and Vice Chairperson shall not serve more than two consecutive terms in the same office, after which he or she cannot be elected to the same office for at least two years. The Secretary and Treasurer shall not serve more than three consecutive terms in the same office, after which he or she cannot be elected to the same office for at least one year.

TO READ (changes are highlighted):

Section 2. The Officers may be elected to consecutive terms. The Chapter Chairperson and Vice Chairperson shall not serve more than two consecutive terms in the same office, **or until their successors are elected**, after which he or she cannot be elected to the same office for at least two years. The Secretary and Treasurer shall not serve more than three consecutive terms in the same office, **or until their successors are elected**, after which he or she cannot be elected to the same office for at least one year.

Reason for change- Per Roberts Rules of Order; To ensure the continued service of officers in the event, for example, of public emergency or of difficulty in obtaining a nominee for an office, it is well to provide that officers "shall hold an office for a term of ...year(s) or until their successors are elected". As a general rule- bylaws cannot be suspended without a specific clause as proposed above.

Per the Chapter 24 Bylaws, we will vote on the motion at the April 18, 2017 chapter meeting, providing we have a quorum. Ten percent of the registered membership of the Chapter shall constitute a quorum. We currently have 55 voting members so we will need at least 6 members present to cast favorable votes to pass this motion.

>>> **Auction** continued from page 1 was the assignment phase, in which the winners in the forward auction for the new wireless band bid on which pair of channels they wanted in the new wireless band. The final day of the auction was March 30. The final amount the auction received was \$19,768,437,378 after the assignment phase which was \$92,196,852 more than the \$19,676,240,520 the broadband wireless industry bid in the forward auction. After taking out the \$10,054,676,822 being paid to the broadcaster in the reverse auction and the \$1.75 billion for repacking and the \$200 million that it cost the FCC to conduct the auction, the U.S. Treasury will receive \$7,943,760,556.

The next step in the auction process is the repacking of the remaining UHF stations into a smaller UHF band. The FCC will release the new table of allotments for the repacked UHF band sometime in the middle of April.

At that time the 39-month timetable begins for finishing the repacking of the UHF band and stations will begin operating on their new channels. The FCC issued a notice (http://transition.fcc.gov/Daily_Releases/Daily_Business/2017/db0329/DA-17-282A1.pdf) outlining the process for the station that gave up their spectrum to get paid, how the wireless companies will pay for their new spectrum, and how the repacked TV stations and cable and satellite providers will be receiving their payments. Expect more notices from the FCC as the repacking process proceeds.

RF TRANSMITTER MEASUREMENTS: Your Help Requested

In cooperation with the SBE, I am presenting an introductory level, eight part series of webinars entitled *RF101: Broadcast Terrestrial Transmission Systems*. The seventh module in the series is on *RF Transmitter Measurements*. In preparation for this webinar slated for August of 2017, I am asking my fellow broadcasters for help in creating short video clips, photos, and checklists.

The areas of specific needs are as follows: power measurements, power calibration, mask measurements, eye diagrams, frequency measurements, etc. as appropriate for DTV, FM & AM.

I would like to visit your facility, watch you do your tests, photograph, video, and take notes during the process. I can give you recognition for your assistance, or if you prefer, you and your station may remain completely anonymous. I would like to complete these technical reviews by the first of June.

I know that throughout the years, you may have developed special hints, tips, and checklists to help easily verify compliance. Why not share these ideas with others? Also, potentially this could be a good way to gain some SBE re-certification points as you demonstrate your area of expertise.

For more details, or to express your initial interest, e-mail me at dbaldrige@sbe.org.

Dennis Baldrige



8001 TERRACE AVE. | MIDDLETON, WI 53562
p: 608.831.7330 | f: 608.831.6330
order line: 800.356.5844
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KEVIN PECKHAM
Product Manager
Ext. 1356
peckham@fullcompass.com

PRO AUDIO VIDEO A/V LIGHTING



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



Christopher Amella

6633 W. Howard St.
Niles, Illinois 60714-3305

Phone: 847-588-3800
800-323-5925
Fax: 847-588-3300
800-446-8366
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www.sounddevices.com
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WMTV
MADISON

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



5727 Tokay Boulevard
Madison, Wisconsin 53719

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



Brian Stumpf
Regional Sales Manager
North Central USA

office 608-798-9578
mobile 608-345-2544
email bstumpf@rossvideo.com

1266 Gills Way
Cross Plains, WI 53528

President's Club




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

Tom Sibenaller
Project Development

e tom.sibenaller@avisystems.com
d 608.807.1860 c 608.386.2611

May 2017 Chapter 24
Newsletter Deadline:
Wednesday, May 3, midnight
pgstoffel@gmail.com
edited using Adobe InDesign CC

SBE Chapter 24 Certification News

Congratulations, Jeff Hartman, of the Educational Communications Board, Madison, for successfully passing the SBE Certified Television Operator (CTO) exam in February 2017!

Thank you to the UW-Madison Memorial Union and the Educational Communications Board for allowing us to use rooms in your buildings for the February 2017 exams.

The Open 2017 Exam Schedule

Exam Dates	Location	Application Deadline (to SBE National Office)
June 2-12, 2017	Local Chapters (Madison Area)	April 21, 2017
August 4-14, 2017	Local Chapters (Madison Area)	June 5, 2017
November 3-13, 2017	Local Chapters (Madison Area)	September 25, 2017

The SBE Radio and Television Operator Certifications are a great way to demonstrate to a prospective employer that you have acquired the basic knowledge to operate a radio or television station and comply with FCC Rules and Regulations. SBE member engineers are encouraged to help promising newcomers by giving advice and directions.

For questions about applying for an exam, please contact Jim Hermanson at services@jimhermanson.com or Megan Clappe at mclappe@sbe.org. Also, see the SBE National Web site at www.sbe.org.

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



alpha video
 BROADCAST SYSTEMS GROUP

Bryan Nelson
 System Sales Executive

7690 Golden Triangle Drive
 Eden Prairie, MN 55344

Direct: 952.841.3304
 Mobile: 612.819.7213

twitter: @alphavideoaudio
 facebook.com/alphavideo

bryan.nelson@alphavideo.com
 www.alphavideo.com

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John C. Purvey
 Regional Sales Engineer
 Broadcast & AV Solutions

447 Hampshire Lane
 Crystal Lake, IL 60014

John.Purvey@Belden.com
 www.belden.com DIRECT: 815.441.5298

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

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

HVS 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
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Mark Bartolotta

DIGITAL SOLUTIONS
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CANDIDATE BIOGRAPHIES

Richard Wood – Candidate for Chairperson

Rich has been working with antenna systems and towers since 1979. His first-hand experience includes building multiple AM, FM and TV transmitter facilities. Testing and troubleshooting of these type of sites has taken all over the U.S., doing on-site work in 46 of the lower 48 states. Along with broadcast project management and system testing, Rich also does infrared testing of switch gear for many industries.

Cliff Groth – Candidate for Vice Chair

Clif lives in Watertown and started in radio in 1957. In 1964 became Chief Engineer (CE) at Fort Atkinson and in 1965 started doing contract work. The contract business morphed into a V.P. position with Goetz Broadcasting in 1976. After the sale of Goetz to Marathon Media, Cliff was Director of Engineering. Later Cliff became CE for Clear Channel, Madison. Currently "semi-retired", Cliff is still working for Fort Atkinson and special broadcast FYI projects.

Mike Norton – Candidate for Secretary

Mike has been working in broadcasting for 24 years, starting as a disc jockey in college. He held positions as student technical operations director and station manager at WSUP-FM/Platteville. He earned a Bachelor of Science degree from the University Wisconsin-Platteville, with a major in Broadcast Technology Management and a minor in graphic arts. He worked as a master control operator at WISN-TV/Milwaukee, and is currently a staff engineer at the Wisconsin Public Broadcasting Center.

Mike currently does electronic maintenance of radio and television equipment and satellite uplink systems, and works with encoding systems and IP networks. Mike has been an SBE member since 1992, was the SBE Chapter 24 newsletter editor from 1996 to 2006, and has previously served as SBE Chapter 24 Secretary from 2009-2012 and 2016-2017. He is certified at the CSTE and CBNE levels.

Roy Henn – Candidate for Treasurer

Roy Henn became Chief Engineer of WIFS Channel 57 in mid-2016 and joined the SBE shortly thereafter. He manages the Master Control department and supports their broadcast and IT operations. Previously he worked for 15 years at a local cable company while attending high school and UW Baraboo, working his way up from tech support, cable installation, broadband & IT technician, to manager of Cable & IT Operations before jumping into the broadcast industry. He looks forward to working in the broadcast industry for many years to come and will soon be taking his first SBE certification tests for CTO and CBNT.

2017 SBE Chapter 24 Election Ballot
(For use by members not using the on-line ballot)

You must be a current member of SBE Chapter 24 to be eligible to vote.

Please include your SBE member number: _____
Voter names will not be identified.

VOTE FOR ONE FOR EACH OFFICE. MARK AN "X" NEXT TO YOUR SELECTION.

CHAIRPERSON

_____ **Richard Wood**

_____ _____
(write-in candidate)

VICE CHAIR

_____ **Clifford Groth**

_____ _____
(write-in candidate)

SECRETARY

_____ **Mike Norton**

_____ _____
(write-in candidate)

TREASURER

_____ **Roy Henn**

_____ _____
(write-in candidate)

Elections will take place during the April chapter meeting. If you cannot attend that meeting, you may send your completed ballot to the address below. Please vote only once.

Steve Paugh
Ballot
1602 Golden Oak Lane
Madison, WI 53711

All ballots must be received by noon, Wednesday, April 26, 2017.