



April 2018

Society of
Broadcast Engineers
Chapter 24
Newsletter
Madison, Wisconsin

Next Meeting

Thursday, April 26
Elections &
NAB Wrap-Up

This month we will meet at the studios of WMTV. During the business meeting paper ballots for the 2018 Chapter 24 Officers Election will be made available. The paper ballot option is offered for those who were not able to cast their ballot electronically on the web site. Any necessary paper ballot will be filled out and collected at the meeting. The close of the April meeting will also be the close of the 2018 election process.

Then those at the meeting who had attended the NAB conference will be invited to share their experience via photos and/or discussion. If special AV needs are required for your presentation please contact Tom Weeden, Chief Engineer at WMTV.

Dutch treat dinner at 5:30 pm
Babes Bar and Grill
5614 Schroeder Rd
Madison, WI

Meeting and Program at 7:00 pm
WMTV NBC15
615 Forward Dr
Madison, WI

Visitors and guests are welcome!

Coming Up

- Weds., May 23 Flywheel UPS Systems at WISC-TV Studio
- Weds., June 20 WBA Summer Engineering Conference Milwaukee

Steve Paugh Memorial Gathering

The Delta Alumni Association of Kappa Eta Kappa is having a gathering at the Fraternity House (114 N. Orchard Street) to celebrate the life of Steve



Paugh, and his contributions to the fraternity. The gathering will be Saturday, April 14 from 4:00 to 7:00 pm, and all are welcome to attend. The Delta Alumni Association will be providing food

and drinks.

As Leonard Charles said in the September 2017 *Newsletter*, "His dedication to SBE Chapter 24 was total, for as long as I can remember. As long-time program chair and forever nominations chair, Steve is as responsible for the success of the Chapter as anyone." Steve died on Sept. 4, 2017.

Steve's career:

- Beecher's Stereo Sales and Service 1969-1970
- US Air Force, 1970-1974
- Honeywell Defense, 1978-1979
- WKOW 1979-1985
- CTI/WMSN 1985-1987
- Rustad-Wickem 1988-1997
- Television Wisconsin, Channel 3 1997-2015
- UW Engineering Fraternity, all of his adult life

According to the fraternity's website: Founded in 1924, the Delta chapter of the Kappa Eta Kappa fraternity provides an atmosphere for engineering students to meet fellow classmates, study in groups, and make professional connections.

FCC May Ease Satellite TV Rules

>>> by Tom Smith

The FCC is proposing to ease the rules (https://transition.fcc.gov/Daily_Releases/Daily_Business/2018/db0323/FCC-18-34A1.pdf) concerning the transfer of ownership of satellite TV stations. A satellite TV station is a full power TV station that mostly or totally rebroadcasts the programming of another TV station and is owned by that station. The satellite station may provide some local programming, but is not required too. A satellite TV station does not count against the local station ownership limits and is meant to serve an area that is unable to support a station in the area it serves with the full local programming services that are expected by a full-power station, such as local program origination. Currently, when a satellite TV station is sold with its full-power parent station, it must be proved that the station is still not able to provide the local programming services of a full-power station. The FCC is proposing that the initial submission for satellite status is sufficient and a new submission will not be required when a station is sold to new owners.

This proposal is in response to a number of petitions by various station groups and will likely be approved after the comment period ends as four Commissioners gave written comments in support of the proposal.

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Chapter Contacts

Chair

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

Vice-Chair

Clifford Groth
NRG Media
(608) 751-2663
clifgroth@gmail.com

Secretary

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

Treasurer

Roy Henn
Chief Engineer - WIFS
(608) 535-9504
royhenn@gmail.com

Past-Chair

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

Committee Appointees

Program Committee

*Volunteer to chair
the program committee!*

Membership / Newsletter Editor

Paul Stoffel, CPBE (retired)
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

Webmaster

Leonard Charles, CPBE
lcharles44@gmail.com

Visit sbe24.org

Election Time

Nominations for the 2018 Chapter 24 Officers election are now closed. The slate of candidates, along with their biographies, is included in this newsletter. The voting process is now open and will remain open until the end of the April 26 Chapter meeting.

The primary method of voting is on line via the Chapter website. Please visit the site at <http://www.sbe24.org> and click the Election header on the Home

page. If you are not able to cast your vote electronically please print the ballot contained in this newsletter, fill it out, and send it to the address provided on the ballot. Paper ballots will also be provided at the April 26 Chapter 24 meeting.

You must be a registered member of SBE Chapter 24 to participate and can only vote once. Thanks to the nominations committee and the 2018 slate of candidates for volunteering their time and talents to the operation of our Chapter.



Meeting Minutes

from the March 2018 Business Meeting

The Society of Broadcast Engineers Chapter 24 monthly meeting was held on Wednesday, March 28, 2018 at the offices of Sound Devices in Madison. There were 12 members present, 9 who held SBE certification, and 4 guests.

Chapter Chair Rich Wood called the meeting to order at 7:00pm, and asked everyone around the meeting room to quickly introduce themselves. There were no changes or additions to the February meeting minutes, so on a motion by Pete Deets and a second by Clif Groth they were approved as published.

Treasurer Roy Henn reported that two recent checks from sustaining members were deposited in the account. The Chapter finances continue to maintain a positive balance.

Leonard Charles provided an update on the chapter newsletter. No one has volunteered to take over Chapter 24 *Newsletter* editor duties, so a plan is being made to transition information currently carried in the *Newsletter* to the web site. The .pdf version should continue at least through officer elections. Bylaws changes will be needed, as specific references are made to the chapter newsletter.

Rich Wood provided a membership update indicating there are 35 current members, and 16 sustaining member companies. Two recent sustaining membership renewals were received from AVI Systems and WMSN-TV.

Rich reminded everyone that chapter elections are scheduled for April 26, along with the NAB Wrap-up program at the WMTV studios. On May 23 a program on flywheel UPS systems will happen at WISC-TV, and June 20 will be the WBA summer conference in Milwaukee.

For frequency coordination, Tom Smith mentioned that he received a 450MHz coordination request for an upcoming event at Oregon Speedway this summer. Tom also noted that T-Mobile is aggressively rolling out systems in the 600MHz-band spectrum they acquired during the recent FCC auction. He also opined that white space systems are looking to use available channels in the state, but few operational systems have been deployed. Related to that, Rich Wood said that the WBA has sent a position paper to the Wisconsin Legislature outlining the impact proposed white space devices would have on broadcast service.

Leonard Charles relayed the National report, and gave a reminder that annual SBE membership renewal is due by April 1. A membership meeting and reception will be held at the NAB Show in Las Vegas on April 10, starting at 5pm. Rich Wood mentioned that the SBE is interested in holding its national meeting in conjunction with the 2019 Broadcasters Clinic, and discussions are ongoing.

Jim Hermanson gave a Certification and Education update, listing the next local exam window as June 1-11, with an application deadline of April 20. A following opportunity in early August has a deadline of June 5 to get applications to the national office.

Representing the nominating committee Leonard Charles reviewed the current slate of officers who are eligible for re-election. He then made a final call for any additional nominations for chair, vice-chair, secretary, or treasurer. Receiving none, the nominations were closed and elections are scheduled for April.

There was no old or new business brought up for discussion. In professional and general news, it was mentioned there would be a memorial service for Steve Paugh on April 14 from 4-7pm at the Kappa Eta Kappa electrical engineering fraternity, Delta Chapter house, 114 N. Orchard Street, Madison.

The meeting was adjourned at 7:16pm. The program was presented by John Tatoes of Sound Devices, who gave an overview of the challenges of recording production sound for film and television. He covered some tools and processes, along with handing around examples of the Sound Devices audio product line.

Submitted by Mike Norton, Secretary

SBE Chapter 24 Certification and Education News

The Open 2018 Exam Schedule

Exam Dates	Location	Application Deadline (to SBE National Office)
June 1-11, 2018	Local Chapters (Madison Area)	April 20, 2018
August 3-13, 2018	Local Chapters (Madison Area)	June 5, 2018
November 2-12, 2018	Local Chapters (Madison Area)	September 24, 2018

LISTING CERTIFICATIONS

Broadcast engineers may hold multiple certifications. SBE certifications are listed from highest (most experience required) to lowest. Specialist certifications are listed after their corresponding category certification.

EXAMPLES:

Joe Brown, CSRE, AMD, CBNT
 Kevin Jones, CBT, CBNT, CRO
 Heather Cosby, CSTE, CBRE, DRB
 Ray Osmond, CPBE, 8-VSB, AMD, CBNT

Most certifications stand alone however, some certifications supersede and replace existing certifications.

CBTE replace with ➡ CSTE replace with ➡ CPBE
 CBRE replace with ➡ CSRE replace with ➡ CPBE
 CBNT replace with ➡ CBNE

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



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
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John C. Purvey
 Regional Sales Engineer
 Broadcast & AV Solutions
 John.Purvey@Belden.com
 www.belden.com

447 Hampshire Lane
 Crystal Lake, IL 60014
 DIRECT: 815.441.5298

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

Bryan Nelson
 System Sales Executive

7690 Golden Triangle Drive
 Eden Prairie, MN 55344
 Direct: 952.841.3304
 Mobile: 612.819.7213
 bryan.nelson@alphavideo.com
 www.alphavideo.com

twitter: @alphavideoaudio
 facebook.com/alphavideo

5727 Tokay Boulevard
 Madison, Wisconsin 53719
 (608) 274-1234
 Fax: (608) 274-9514

Easing Siting Rules For 5G

>>> by Tom Smith

In order to speed up the roll-out of 5G broadband service, the FCC is issuing rules (https://transition.fcc.gov/Daily_Releases/Daily_Business/2018/db0330/FCC-18-30A1.pdf) to ease tower sitings. Currently, extensive environmental and historical surveys along with aeronautical study must be undertaken and submitted as part of the application process. In the new rules, the FCC also addresses the placement of towers in floodplains.

For the roll-out of 5G systems, the new rules exempt towers of 50 feet or less with antennas under 3 cubic feet and a support structure of 28 cubic feet or less from environmental and historical studies and some RF exposure studies. Since 5G systems will be using very high frequencies such as 28 GHz or higher, there are going to be many transmitter sites, as the area served by the signal will be much smaller than traditional cell sites. Many of the 5G transmitter sites could be located on the corner street light post or the power pole behind the yard. Because these sites will be located on short towers, tops of buildings and existing infrastructure, the FCC decided that there would be little impact from their facilities.

As far as locating in a flood plain, if the facility is located one foot above the base flood elevation it will be exempt from additional environmental studies.



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

Tom Sibenaller
Senior Account Manager

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

Antenna System Specialist

TV FM AM



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



WMTV
MADISON

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



WISC-TV
MADISON

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

www.sbe24.org



CHAPTER 24 SUSTAINING MEMBERS

Recent Renewals:

- WMSN-TV 47
- WMTV-TV 15

Thanks to all our Sustaining Members:

- Alpha Video
- 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
- WKOW-TV 27



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 Annella

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

Phone: 847-588-3800
800-323-5925
Fax: 847-588-3300
800-446-8366
Cell: 847-501-1584

chrisa@josephelectronics.com

www.josephelectronics.com



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
www.clarkwire.com

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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

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CANDIDATE BIOGRAPHIES

Richard Wood - Candidate for Chairperson

Rich has been working with antenna systems and towers since 1979. Since 1999 he has been the President of Resonant Results Ltd. His firsthand experience includes building multiple AM, FM and TV transmitter facilities. Testing and troubleshooting of these type of sites has taken him all over the US, doing on-site work in 46 of the lower 48 states. Recently Rich has been spending his time as a Specialty Contractor for Spectrum Use including Land Mobile, Broadcast, and Microwave. Along with Broadcast project management and system testing, Rich also does Infrared testing of switch gear for many industries.

Clifford (Clif) Groth - Candidate for Vice Chair

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

Mike Norton - Candidate for Secretary

Mike has been working in broadcasting for 25 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.

He 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 2016-2018. He is certified at the CSTE and CBNE levels.

Roy Henn - Candidate for Treasurer

Roy Henn, CBNT, CTO, is Chief Engineer of WIFS Channel 57, managing the broadcast, IT, and MC operations. He is hoping to make time to complete his CBT certification in 2018 and looks forward to another really busy year ahead working on the FCC repack.

2018 SBE Chapter 24 Election 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 (Clif) Groth

_____ _____
(write-in candidate)

SECRETARY

_____ Mike Norton

_____ _____
(write-in candidate)

TREASURER

_____ Roy Henn

_____ _____
(write-in candidate)

Elections will begin April 1st and continue until the end of the April 26th Chapter Meeting. The preferred method of voting is electronically on the Chapter web site. If you cannot vote electronically, you may send this completed ballot to the address below. Please vote only once.

Leonard Charles
Ballot
5714 Modernaire Street
Fitchburg, WI 53711

All ballots must be received by Friday, April 27, 2018.