



The *ORC* Newsletter

Official publication of the Ozaukee Radio Club, Inc. Mail all contributions to the editor, Tom Ruhlmann, W9IPR, 465 Beechwood Dr., Cedarburg WI 53012 (phone 262 377-6945). Permission to reprint articles published in any issue is granted provided the author and the Ozaukee Radio Club Newsletter are credited.



ORC Repeaters on 146.97, 224.18 and 443.750 MHz - Callsign W9CQO
Web site: www.ozaukeeradioclub.org Facebook: facebook.com/orcwi

Volume XXX

October, 2018

Number 10

From the President

de Kevin Steers (K9VIN)



First frost is near, and the time is now to freshen up the antennas and re-secure things for the cold months ahead. I am hoping to get up my tower soon to slide my Butternut Butterfly beam higher up on the mast pole, to make room for an 11 element 2-meter beam. There is so much to do when I am up there, and a specific order in which everything needs to be done, that I am making a list for my helper on the ground to read off to me. You see, I am easily distracted, and would be certain to miss something important. I expect I will be on the tower for over an hour the way it is, and I get tired just thinking about it.

I am hoping to set up my National 303 receiver in the kitchen up at the cottage soon, and am racking my brain as to how to fish a wire into that side of the house. There is an RG59 wall outlet that goes to an unused satellite dish, and I am tempted to give that a shot, for starters, by clipping a long wire to the satellite end of the coax.

The only thing on the bench, while electronic in nature, is not ham radio related. I am trying to breathe life back into a Wisconsin Robin 2-stroke gas engine that apparently has too weak of a spark. I am going to reach out to one of you to borrow a meter that can test the capacitance of the condenser. Unfortunately, condensers are not available for this motor, so I am trying to understand if I can just throw any old condenser at this motor, or if a specific rated condenser is required.

I hope everyone was able to get over to Superfest at HamRadioOutlet last month. I expect a few folks will have updates during our upcoming meeting on October 10. Also, please provide updates if you participated in the WIPOTA, Wisconsin Parks on the Air. It was a great opportunity to dust off the HF rig and help folks rack up points.

Cheers and 73s,

K9VIN, Kevin

DX'ing & Contesting

De Gary Sutcliffe (W9XT)



October is generally considered the best month for HF propagation for stations in the Northern Hemisphere. We are past the summer and the absorption that goes with it. Longer nights after the equinox improve low band propagation. QRN from summer thunderstorms is down, also making it quieter, especially on the lower bands.

Unfortunately, the lack of sunspots means the higher bands will be poor. The Solar flux the last week has been around 67, which is about as low as it gets. Openings on 15 meters will be spotty, and 10 meter openings will consist of brief weak signals to South America. FT8 may save the day on these bands. FT8 allows digging out signals 15-20 dB below the threshold needed for copying CW and even more

for SSB.

Propagation guru K9LA spoke at the W9DXCC convention on where we are in the solar cycle. Carl thinks we are probably a year or two away from the minimum. He has done a lot of investigation on how the ability of the digital modes to dig out weak signals help us make contacts when we can't make them with traditional modes. Carl thinks contacts to Europe may be possible on 15 meters and maybe even 10 meters this fall and winter with FT8. One problem with supposedly "dead" bands is that we tend to just quickly tune across a band and decide it is dead and move down in frequency. If no one is making noise, we don't know the band may be open. Don't be afraid to call CQ on FT8 and let it run for 5 minutes or so. You never know who may answer.

I have been talking about propagation a lot the last few months in this column. I have a couple of more resources on the subject for you to check out. The first is the book "Propagation and Radio Science." The author is Eric Nichols, KL7AJ, and the ARRL publishes it. It is also available in Kindle format from Amazon. <http://www.arrl.org/shop/Propagation-and-Radio-Science/>

I learned a lot from this book. Parts of it are not an easy read, and I plan to read it again soon to get a better understanding of what was said. This is a must read for anyone serious about understanding propagation.

The other resource is a website by VE3EN. <http://www.solarham.net/> At various times I have talked about solar indices, aurora zones, sun spots, etc. All this info is available on the web, but this site has it all in one place.

DXpeditions pick up in October, partly because of improving propagation conditions in the fall, and partly because of the biggest contest in ham radio, the CQ WW DX Phone contest the last weekend of the month.

A lot of the DX activity is taking place in the Pacific. A group of New Zealand hams will be operating from the island of Niue on October 5-16. The call will be E6Y. They will be on 160-10 meters.

Palau, T88, will be activated by a group of Japanese hams October 4-9. Each one has their own call and will be on 160-6 meters, CW, FT8, and SSB. Another Japanese ham will be on Palau on October 17-24 using T88SM.

Probably the biggest DXpedition of the month is to Ducie Island. The call will be VP6D. They will be active October 20 – November 3. This multinational team will have seven stations and operate 160-10 meters, CW, SSB, and digital modes.

The VK9XT operation to Christmas Island mentioned last month is currently active as this is being written. So far, I have been unable to work them. They will be there until October 6.

However, a group of British hams will be there from October 17-30. They will have four stations and operate 160-10 meters, CW, SSB, and FT8. They will be operating FT8 in the new DXpedition mode, so be sure to update your software and understand how to use FT8 variation. If that is not enough, VK9XQ will be on briefly at the start of November.

Nauru will be on the air as C21GJ until October 12. This is a 6 meter moon bounce operation. Ken, W9GA, will probably be the only ORC member getting this one!

Chatham Island, ZL7X, will be active October 16-24. Another Japanese group will activate it October 16-30. 160-10 meter, CW, SSB and FT8 with a focus on the low bands and FT8.

Vanuatu will be on as YJ0GC October 15 – November 4. 160 – 6 meters, CW, SSB and RTTY with a focus on the low bands.

Norfolk Island will be represented by a couple of groups. They will overlap and be on from October 9 – 19. The first is a couple of Japanese hams using VK9/home call. This is a holiday style operation. The second is a group of US and New Zealand hams with individual VK9 calls.

The Pacific is not the only place for some interesting operations this month. Africa has a few nice ones too. Burkina Faso will be on the air as XT2SZZ October 24-29. They are there primarily for the CQ WW contest.

A group of European hams will be on from Zimbabwe as Z23MD from October 26 through November 6. Their five stations will be on SSB, CW, and RTTY.

Some single operator African efforts include TT8KO from Chad October 9-21. Another is Ivory Coast, TU5MH by a German ham October 20-29. Meanwhile, 5H3MB will be active from Tanzania October 24 through November 28.

As mentioned, some of the DXpeditions are for the CQ WW Phone contest October 27-28 UTC. That is 7:00 PM Friday, October 26 local and runs 48 hours. You work the world on phone. The exchange is a signal report and CQ zone. We are in zone 4. QSOs with other North American countries are worth two points. Contacts with stations in other continents are worth three points. US stations are zero points, but you can work them for zone and country multipliers.

There are a lot of entry categories based on power levels and use of spotting networks. Within all these are all band or single band entries. Check out the rules at www.cqww.com if you are interested in competing in this one.

Keep an ear out for other contest DXpeditions the week before CQWW. They will be on the air checking their equipment and propagation before the contest. They will also be active on the WARC bands.

The biggest state QSO party is the weekend of October 6-7. It is the California QSO Party. It starts at 11:00 AM local on Saturday the 6th. The goal is to work the different California counties. You can work each station once on CW and once on phone on each band.

Phone contacts are worth two points and CW contacts are worth three points. For us, the CA counties are multipliers. CA stations will send a serial number and their county. We will send a QSO number and our state.

If you operate and send in a log, you can get a participation certificate. Log into their site a few weeks afterwards, and you can download and print out the certificate. If you are really ambitious and score in the top 20, you win a bottle of California wine!

Full rules are at www.cwp.org. Each CA county has a four letter abbreviation. It is a good idea to download the list of abbreviations before the contest.

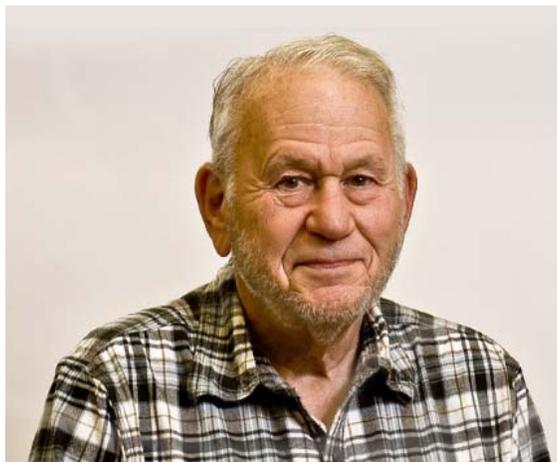
Of course, there are a lot of smaller contests and state QSO parties this month.

That wraps up October. There are lots of things to do on the air this month. The weather will be getting colder so get going on those fall antenna projects.

THE COMPUTER CORNER

No. 248: What a Buy!

Stan Kaplan, WB9RQR 715 N. Dries Street Saukville, WI 53080-1664
(262) 268-1949 wb9rqr@att.net



In the Computer Corner article before last (#246, IT WAS A DARK AND STORMY NIGHT), I told about the demise of my main computer, a desktop, during an electrical storm on the 4th of July 2018. The storm did no damage to the other four computers that were on at the time (three laptops and a desktop). Only my main machine was damaged; both the power supply and the motherboard were toast as confirmed by several electrical and substitution tests.

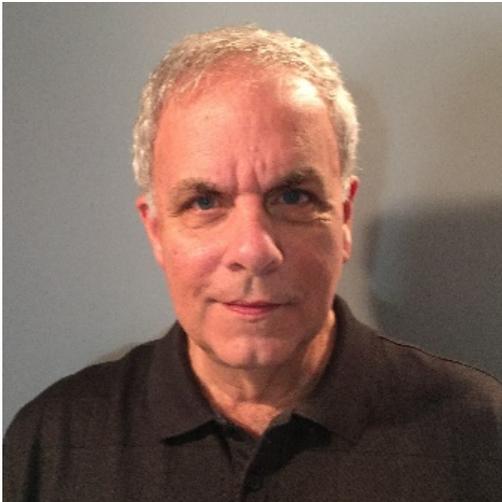
I was working traffic (parking) during our Ozaukee Radio Club Regional Fall Swapfest on 8 September 2018, but I had time to peruse the merchandise from time to time. I spotted a motherboard on the table of N9CBS, Curtis Smith, one of our ORC members. “How much” I asked. “Make an offer” he replied. “Three bucks” I responded. “Done” said Curt. I had the prize!

I took it home, replaced the button cell battery found on all motherboards to power the CMOS memory, and found some general memory sticks (RAM) for it, too. Then I put the motherboard in my main machine carcass, along with a good used power supply from my stock. When I fired it up, everything worked perfectly! Even the hard drive was fine, with all my files intact (that didn’t really matter; they all had been duplicated – see #246 for those details). But the point is, I had been made whole again by Curt and the Swapfest. Thanks, Curt!

Happy Computing!

Vintage Amateur Radio

de Bill Shadid, W9MXQ



For months we have discussed the movement in amateur radio marketing stemming from the Collins introduction to lightweight (for the time) desktop high-frequency radio equipment. This month we are going to move off that path for a bit. Back in 1977, while the guest¹ of ***Ham Radio Magazine*** at the Dayton Hamvention, I came across a brand-new offering from HyGain Electronics. They were showing their model 3750 HF Transceiver. HyGain, by then a shadow of its former self after a disastrous corporate decision to push into the North American Citizens Band Radio market, was near bankruptcy. Trying to move back to its ham radio roots, HyGain partnered with National Radio of Japan (known as Panasonic² in the west) to re-brand one of their premium market transceivers – known in

Japan as the National RJX-1011D. So, this month we are going to talk about this incredible radio and my experience with the product in my shack.



**HyGain 3750 160-10 Meter SSB/CW Transceiver
(Panasonic/National RJX-1011D)**

W9MXQ Photo

The 3750 Transceiver was in a large market of 180 to 200-watt RF input radios in a variety of price ranges. This radio was right along with them – at the high end of price – with a solid-state radio working with a vacuum tube driver and final amplifier section. The 3750 had an input power of 200 watts that was provided by two S2002 Tetrode Power Amplifiers. These unique Japanese tubes were custom made for this radio – a point that is now problematic. They closely resemble 6LR7 Sweep-Tubes – and some have noted that the 6KD6 Sweep-Tube is also compatible. But, the S2002 design had very heavy interior components and was what I would describe

as a true transmitting tube using a Sweep-Tube concept design. S2002 tubes, however, are virtually unobtainable today. One of these S2002 tubes was heavier than any Sweep-Tube I have ever worked with. As I recall, they were heavier than a 6146B.

The use of unique numbers by Japanese manufacturers of radio equipment used this number system in other radios. The model 6146 tetrode was widely known in Japan as the S2001 and was later updated to be the S2001A. This convention was later eliminated, and late vacuum Japanese tube final amplifier radios used the 6146B nomenclature as we did in the West.

HyGain provided a matching External Speaker and External VFO unit for these radios as shown here . . .



HyGain Model 3854 External Speaker



HyGain Model 3855 External VFO

W9MXQ Photos

The bronze anodized finish aluminum panels on these radios and accessories were quite striking, visually. But, several manufacturers used colors other than dark gray or black without long term success. This radio in Japan, under the National name, was identical in color and in all things other than the logo for the company name.

My first experience with these radios was at the previously mentioned 1977 Dayton Hamvention at the HyGain booth. The radio was sitting on display – center stage in the booth – receiving Morse code transmitted from elsewhere in the convention center. Its golden tones receiving CW were the number one selling point right away. The cost, however, was in the thousands of dollars so buying one then was out of the question. Even today, a good version of the transceiver alone can demand well over \$1,000.00. But, it has been year since I have seen one. I do know where several of these fine stations reside. I patiently wait!!

Using the 3750 was a pure joy. I have had three complete sets over time. They are not easy to find because only about 300 radios, quite a few less 3854 Speakers, and far fewer 3855 External VFO units were made. I was very fortunate to have my sets of these radios at different times. Most recently was perhaps five years ago. The pictures shown in this article are of the last set – and I regret that I do not have a front on photograph of all three pieces together. However, I do have an edge-on view of that same station that you can see here . . .



HyGain 3750 Complete Station in about 2010

Left to Right are the 3854 Speaker, 3750 Transceiver, and 3855 External VFO
 (Note also the Astatic D-104 Microphone and Nye-Viking Straight Key
 W9MXQ Photo

The above picture was snapped to prove the existence of this bronze wonder station to a fellow Ozaukee Radio Club member who did not believe that a radio of this color every existed.

The radio had very effective eight-pole 2.4 kHz and 400 Hz crystal filters (SSB and CW, respectively) but generally lacked any good QRM fighting tools other than an excellent Notch Filter that was useable on both SSB and CW. It had two features that were beneath the radio's dignity, in my opinion – one was a completely useless Noise Blanker and the other a similarly ineffective Speech Processor. The Speech Processor was no loss for its poor operation, however, as speech audio system produced some of the most consistently complimented SSB audio of any radio I have ever owned and operated.

The 3750 was marketed before the WARC Bands were offered so it is not useable on 30, 17, and 12-meters – much less 60-meters. It did include WWV at 10 MHz on its own band positions one could certainly tune the 30-meter band. I have heard that there were users that activated the band position for transmit but I never did more than read that it had been done. The manufacturer never did produce a WARC enabled version of this radio. It was replaced with an all solid state National (Panasonic) RJX-810D. One of those was in my collection for a time – but it was not the performer of the 3750. Here is that later radio for your reference . . .



National (Panasonic) RJX-810D HF Transceiver that replaced the HyGain 3750 (National RJX-1011D) in the Japanese market. We did see some of them here from NCG (Comet) under the model 10/160M.

(RigPix Photo)

The 3750 existed at a time when digital readout was just becoming popular. Popular, yes, but not so easy to incorporate in those days. Let's look at the front panel, around the VFO Dial and Digital Readout, to see how digital readout was accomplished in this radio . . .



To the right of the VFO Knob, see the Bandswitch and that it is set in the 3.5 (MHz) position. A bandswitch hard wired line turned on the left panel readout to show the first digit of "3" as you can see. Now, looking at the dual readout (INT for Internal) and MEMORY – EXT (for External) four place readout plus decimal point. The VFO is tuned to 3.856.0 MHz. If the 3855 External VFO was installed and activated, it's frequency would read out on the right hand four place readout plus decimal point – at EXT – also relying on the "3" to indicate the band. You can see lever switches to the right and left of the sub-readout just above the VFO Dial that gave a rough view of the area of the band being tuned. That left lever switch acticated the internal crystal calibrator – with calibration of the VFO being possible with a control elsewhere on the front panel. The lever switch to the right was a switch to activate a memory (scratch pad) to reference a point the operator wanted to remember on the main radio VFO. This control would over ride the right side readout of the External VFO.

In my several home station installations with the HyGain 3750/3855/3844 combination I also used the Drake L7 Linear Amplifier. They were a nearly perfect match in height in reality, the 3750 worked better with the Drake L7 than its design partner, the Drake TR7 Transceiver. For the record, the 3750 was a far superior performer than the Drake TR7 on the bands. (With the exception of the poorly executed Noise Blanker in the HyGain!)

The American company, KLM, imported a slightly narrower version of this radio (same color, knobs and dial panel) that was 6-meters only for SSB and CW. I have never seen one of these except in some advertising – but for your reference I have included a picture of it as it appeared in National Radio format. It looked a bit different as the KLM radio – but only in terms of the logo for the branding. My picture is not color correct – it was a perfect color match for the HyGain 3750.



To the left is the National RJX-661 Six-Meter SSB/CW Transceiver. This was marketed in the United States and Canada by KLM and used the same RJX-661 model designation – but branded KLM. This was an all solid-state, 10-watt output radio.

Note that there was no digital readout.

Matsushita Photo

From what I can determine, the RJX-661 was quite a popular radio, globally – especially outside the United States.

I became good friends over the years with the project manager assigned to the partnership between National Radio and HyGain that fostered the 3750. After HyGain was purchased by Telex (before later merging into MFJ) my friend became Amateur Radio Products Manager of Telex. He is now a Silent Key. For many years, a fellow in northern Wisconsin held and marketed all the remaining parts and service inventory for the HyGain 3750 and its accessories. We still occasionally talk. One of my 3750 sets was once part of the HyGain sales group and was used as a show item at HyGain's corporate offices. Telex did not continue any of the RF products that HyGain had produced later in its independent life – and that includes the Galaxy radio line that HyGain had purchased from World Radio Laboratories – tied into what we old-time hams know of as Globe Radio. Did anyone catch a whole new line of radios for future articles?

Founded in 1949, at its peak, HyGain was a multi-million-dollar corporation with several thousand employees³. Currently it is a \$17.4 million-dollar subsidiary of MFJ Enterprises and has 75 employees³. So, it goes on – but nobody there knows about the 3750.

I appreciate that you read my articles. Remember that I am open to questions and comments at my email address, W9MXQ@TWC.com.

¹From the late 1970's until into the 1990's I was part of the Editorial Staff of Ham Radio Magazine.

²Panasonic and National are part of the large Japanese conglomerate, Matsushita Electric Industrial Co., Ltd. Using the National name, they were once one of the largest manufacturers of ham radio equipment in the world.

³Wikipedia – HyGain.

ORC Ham License Class

de Tom Ruhlmann (W9IPR)

There are three students in the ORC license mentoring class; Robert Eskola, working for a General Class license, Brynn Weisling of Colgate and Dan Gelleck of Grafton, both working for a Technician Class license. So far, we have covered radio signals, equipment fundamentals and basic electricity, circuits and components. Next we will be covering antennas and propagation.

Last week we went to the HRO Superfest. We and the vendors did a great job of educating us on a variety of topics. I was so impressed by the COMET exhibit I ended up buying their antenna analyzer. Anyone want to buy my MFJ? Plus, Robert Eskola, our Treasurer, won the Yaesu FT-991A transceiver. That should be motivation enough to get the General Class ticket.

Recently Donated Items for Sale

Kenwood TR7930 2-meter mobile transceiver	Average Value \$46
Kenwood TR7950 2-meter mobile transceiver	Average Value \$46
Kenwood PS7A power supply	Est. Value \$30
Kenwood TS-130S HF Transceiver	Average Value \$160
Kenwood PS-30 power supply	Average Value \$73
Kenwood AT-130 antenna tuner	Est. Value \$85
Kenwood MC-50 microphone	Average Value \$60
ICOM IC 720 HF Transceiver (no12 vdc power supply)	\$200

The average value is based on eBay sales of the same item. All items purchased come with a 30-day money-back guarantee. If interested in any of the above items, contact Tom Ruhlmann at 262-377-6945.

October 10th meeting program – Patrick Volkmann, W9JI will give a presentation on a new digital mode called FT-8 which was developed for weak signal reception as during this lull in sunspot activity.

HRO Superfest Wrap-up

de Robert Eskola, K4WTH



If you didn't get a chance to get over to HRO Superfest over the September 28-29 weekend, you missed out on a lot of action. Several vendors were in attendance such as West Mountain, Icom, Yaesu, Radiowaves, and many others. This year, there was an opportunity to win not one, not two, but three high-quality radios given away by the big three radio makers – Yaesu, Icom and Kenwood. The fest started middle of the day on Friday and went until about 5 PM the following Saturday. The winners of the grand prizes of radios were picked on Saturday at 4 PM.

Several members of the ORC were in attendance, either helping out at booths, promoting, or walking around enjoying the sights. I personally would like to thank all the people who stopped by to help me get away from the ORC booth to enjoy the different vendor booths and to grab a quick lunch. Without your help, I would not have been able to get away to enjoy the sights and sounds this event had to offer. If you weren't in the market for a new radio, you could have had your pick of many seminars, such as by Yaesu on Fusion and Wires X and making sure your float charger and maintainer is compatible with the specific batteries you have in your setup. I learned so much about the differences in batteries, it was astounding.

Special thanks to the Boy Scouts who made sure each and every person was well fed with hot dogs, brats and donuts in-between meals to keep us going, plus a great selection of drinks to keep you hydrated along the way. I know I had several comestibles to keep me in the game and greet potential new members.

At our ORC booth, as you can see from the picture on the next page, we had a few fun and interesting teasers to showcase how well the ORC uses technology to reach its members. Featured was our website page which offers viewers all kinds of information about the Ozaukee Radio Club, such as our next club meeting and featured presentation, and how to sign up to become a member of ORC. Alongside our website, we also featured our Facebook page. If you didn't get a chance to come down to Superfest, check out the photos of the event on our FB page.

Prizes were in abundance at this event. The Ozaukee Radio club gave away two one-year memberships to our club, one winner each day of the fest. Congratulations go out to our two winners, Jerold Rauth and Nancy Stecker, who will each be receiving a 2019 membership, compliments of the club, for coming out and supporting the event. Several others previously had their tickets drawn, but the ticket holders were unresponsive in our attempts to contact them. Drawing of names was kept impartial by our resident third party two-year-old who picked our winners. A special thank you goes out to her mother in drawing the winners.

Several ORC members won prizes given by the hour, included antennas, mugs, hats and jackets. As to the grand prizes, I, Robert Eskola, am living proof that you can actually win a radio, as I won my very own Yaesu FT-991A. A very special thank you to Ham Radio Outlet for picking my name.

If you came out just to cruise around the booths, enjoy the company of others or find yourself in one of the many seminars, you shouldn't have been disappointed at this event. A picture of our booth is listed both on Facebook and shown below. Should you want to check out other booths that you may have missed, log onto our Facebook page (facebook.com/orcwi) to see the other great booths that were at the event.

One thing is for sure - I know I plan on attending next year's Superfest, if only to keep current on the latest and greatest innovations and trends happening in the world of ham radio.



Ozaukee Radio Club Meeting Minutes
September 12, 2018

Ben Evans (K9UZ), Secretary



President Kevin Steers (K9VIN) called the meeting to order at 7:31 PM. All the attendees introduced themselves.

Announcements, Show-and-Tell, Bragging Rights:

Tom W9IPR: Portable band saw is working.

Stan WB9RQR: 1) Pat W9JI, as of February, will be the new program chairman. 2) As Stan wrote in the "Computer Corner" article, lightning took out his main computer. At the Fall Swapfest, he bought a motherboard for \$3, put it in his disabled machine, put in memory and a new power supply, and the machine works great.

Mike KD9GCN: Mike tried but couldn't get Indianapolis on 40 meters for the last Indy race, but the Virgin Islands suddenly came booming in like the guy was next door.

Gary D. K9DJT: His book "Ham Radio is Alive and Well" was reviewed favorably by QST magazine. Tom W9IPR commented that the book is a good read.

Ken W9GA: Ken and others went to the SMC Fest in central Illinois. There were interesting presentations, particularly one about grounding, given by Ward Silver, who wrote the book, published by ARRL, on the subject.

Program:

Bernard Barr gave a presentation on grounding and resonances.

50/50 Drawing:

Gary S. W9XT was the winner of the 50/50 drawing.

Auction:

Stan WB9RQR conducted the auction. Many items were sold, including a Toshiba laptop computer with Linux Mint installed, a Dell OptiPlex desktop computer with Linux Mint, and two mag-mount antennas.

Officer Reports:

Kevin S. (K9VIN) President – Thanks to all for a successful Fall Swapfest.

Pat V. (W9JI), 1st VP – For the purpose of the club inventory, if anyone is in possession of club keys, let Pat know.

Tom T. (KC9ONY), Repeater VP – No repeater report. Thanks to Todd for providing a pointer to use for the presentations. Thanks to all for attending the Lighthouse event. This coming weekend is the first Wisconsin Parks on the Air event. Tom will be operating with LeFrog at Latham Peak 11 AM to 6 PM Saturday.

Ben E. (K9UZ), Secretary – This month's newsletter has been posted on the website which includes the August meeting minutes. Motion to accept the minutes was made by Robert K4WTH, seconded by Gary K9DJT and approved by the members.

Robert E. (K4WTH), Treasurer – The profit and loss report for August was emailed by Ben to the members. There was light activity on the accounts. A motion to accept the Treasurer's report

was made by Stan WB9RQR, seconded by Vic WT9Q and passed by the members.

Committee Reports:

Tom R. (W9IPR), Fall Swapfest – Tom gave a special “thank you” to those that worked the Swapfest, either as a vendor or that otherwise helped with the Swapfest. This Swapfest was the best we’ve had; the weather was good and most importantly there were no conflicts with other swapfests. Stan wisely checked the parking area and directed the vehicles away from the east side parking which was muddy. The end results were \$460 in the club treasury and \$490 in the Scholarship treasury. Two items were sold from equipment donated by Jerry (KA9KIS) MacNab’s widow, Judy, for an additional \$200, so the total going into the Scholarship Fund is \$690.

Tom R. (W9IPR), Classes – Classes for Technician and General Class license exams will start this Saturday at Tom’s house. If members or someone they know are interested in the classes, they should call Tom.

Tom R. (W9IPR), Barn – Working on thinning out the junk in the barn. There is a pile of aluminum outside the barn that is destined for the scrap dealer unless somebody wants it. The aluminum tubing might make for good antennas. If someone is interested in the emergency government radio equipment, they can pick it up; otherwise, they’ll go to the next municipal electronics disposal pickup. If anyone wants to help straighten out the barn, let Tom know.

Old Business:

There was no old business.

New Business:

There was no new business.

Adjournment:

Robert K4WTH moved to adjourn the meeting, seconded by Stan WB9RQR, and approved by members. The meeting was adjourned at 9:08 PM.

Attendance:

There were 35 members and three guests present at the meeting.

A copy of the attendance sheet is available upon request in PDF format. Please contact Ben Evans via email at ben@evansengsolutions.com for a copy.

Respectfully submitted,



B. Benjamin Evans, K9UZ
Secretary

ORC Meeting Agenda

October 10, 2018

1. 7:00-7:30 PM – Network & Rag-Chew
2. Call to Order & Introductions
3. Announcements, Bragging Rights, Show & Tell, Upcoming Events, etc.
4. Program: Pat, W9JI – FT-8 Digital Mode
5. Fellowship Break
6. 50/50 Drawing
7. Auction – Stan Kaplan (WB9RQR)
8. President's Update – Kevin Steers (K9VIN)
9. 1st VP Report – Pat Volkmann (W9JI)
10. Repeater VP Report – Tom Trethewey, (KC9ONY)
11. Secretary's Report – Ben Evans (K9UZ)
12. Treasurer's Report – Robert Escola (K4WTH)
13. Committee Reports
14. OLD BUSINESS
15. NEW BUSINESS
16. Adjournment to ?

Return undeliverable copies to:

The ORC Newsletter

465 Beechwood Drive
Cedarburg WI 53012

First Class

Next ORC Meeting:

Grafton Multipurpose Senior Center

1665 7th Avenue, Grafton
Wednesday, Oct. 10th, 2018

7:00 PM – Doors Open

7:30 PM – Meeting Begins