



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

January, 2017

Number 1

From the President

de Chuck Curran, W9KR



I hope that everyone has had a great Christmas and New Years, our family sure did. With the Holiday's being over with, we should all be keeping in mind the upcoming Awards Banquet to be held on February 18th at The Hub in Cedarburg. Pricing and reservation information will be posted on the club web site in the first few days of January.

During the month of December we sure had enough snow and a few cold days too. I was pleased that I had no antenna work that required a trip out into the snowy yard. My last antenna activity was completed in late October, on one of the nice warm days. Our yard has three Ash Trees and two of them are used for

antenna supports. Both are about 60-65 feet high. For the last 9 years every spring I place an Emerald Ash Borer preventive chemical treatment around the base of all three trees. Unfortunately, one tree that held the ends of my 80 and 40 meter dipoles has been looking pretty sick, with all the signs of Emerald Ash Borer infestation.

So, I called a tree service and had the tree cut down and the stump ground out. That was in August and I got the 80 meter dipole back up and finally in late October the 40 meter dipole was back up and operational. The 40 meter stayed at the same height but the end of the 80 meter dipole went from about 50 feet down to 30 feet. It appears I need to start putting fertilizer on that Maple that is now holding the 80 meter dipole!

It looks like the 2017 West Allis RAC will hold the Hamfest on January 7, 2017. It will be held in the Arena building from 8:00 AM to 1:00 PM according to their web site. I have always found it an interesting place to visit, I typically come home with some treasure I really don't need!

Please don't forget that your club membership dues are due. See our Treasurer at the club meeting or use the PayPal link on the club web site. Using the club treasurer's email, treasurer@ozaukeeradioclub.org, you can pay directly.

Band conditions have proven to be faithfully following the normal for this time in the Sunspot cycle. I see relatively bad conditions on all bands, but there are those brief positive moments that do occur. I have had a few days where the noise level is about 20 db over S-9 on 75 meters. Then I wake up, and go upstairs and turn off the variable intensity lighting in our kitchen, and we are back down to the expected S-7 noise level! I better hang a note on the shack door about those lights!

73's to all,
Chuck W9KR

Allen L. Albinger – K9VNM - SK

February 25, 1941 - December 9, 2016



Allen Albinger, age 75 years of Saukville, passed away on Friday, December 9, 2016 at Lawlis Family Hospice in Mequon. He was born February 25, 1941 in Sheboygan, son of Paul E. Albinger Sr. and Helen (nee Link) Albinger.

Allen worked with his father, his brother Jerry, and Uncle Clarence at Albinger Automotive in Saukville until retiring. Allen was an avid Ham radio operator, dedicating over 50 years of service to the MARS organization which connects overseas active duty military personnel with their families back home. He was a member of St. John XXIII Parish, a 39-year member of the Saukville Fire

Department, the Ozaukee County Radio Club, and the Silver Springs Radio Club of Ocala, FL, both of which he had served as president.

He is survived by his two brothers Gerald of Ocala, FL and Paul Jr. (Barbara) of Gilbert, AZ, nieces and nephews, and special friends Chuck and Charity Kroeger, Ellen Adams, and John and Sandy Beecher. He was preceded in death by his parents.

DX'ing & Contesting

De Gary Sutcliffe (W9XT)



Recently Gary, K9DJT, was commenting on how his contest CW skills had improved but he still didn't feel comfortable calling CQ and having stations call him. This is also referred to as "running stations". When the conditions are right you can work stations much faster if you run.

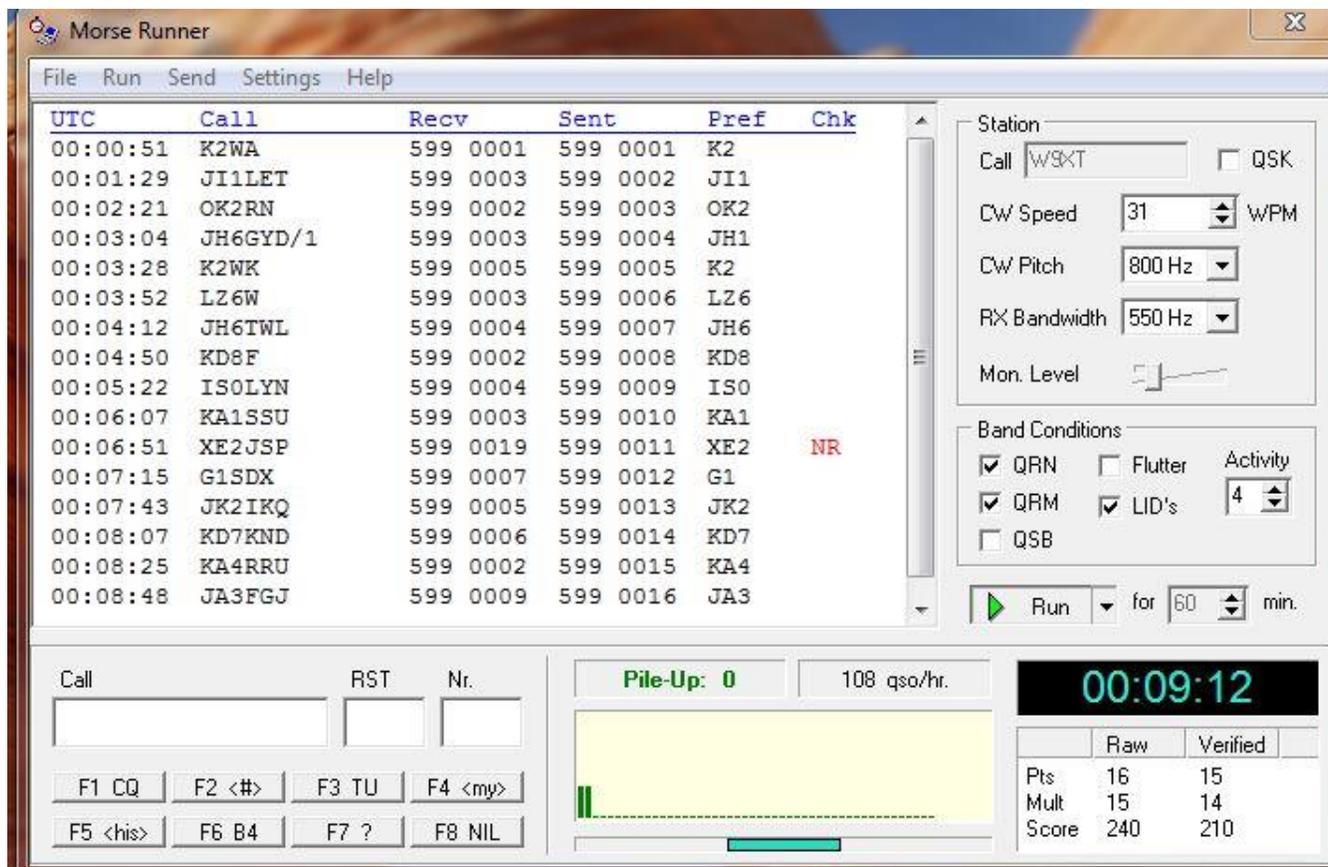
There are several reasons for this. First, as you tune the band, you must wait for the other station to ID, look him up to see if you already worked him, then wait until he is ready for another call. If you get beat out you must wait until he finishes the QSO before trying again. There is a lot of waiting going on.

By running the other guy is doing that to work you. When the stars align, you will have one or more callers after you finish each QSO. Short term QSO rates can sometimes surpass 200 QSOs/hour if it held up for a full hour. It rarely does unless you are a rare DX station, but rates of 60-100 hour are sometimes possible even for a low power station.

I suggested to Gary that he tries one of the pile up simulator programs. Two that I knew about were RUFZ and PED. I had not used them in years, and was not sure if they were still available.

A few days later Gary told me he was playing with RUFZ and his speed was increasing. He was not quite ready to try running on the air yet but it didn't sound like it would be long.

This got me curious so I started looking around and found a program called Morse Runner. I downloaded a copy (it is free) and am very happy with it. It simulates the CQ WPX CW contest. In that contest you send a signal report and serial number. It has a logging interface that matches pretty much all contest logging programs with the function keys in the standard set up.



A screen shot shows the program. You start by entering your call in the call sign box. Set up the CW speed and if you wish, play around with CW pitch and bandwidth. Click the Run button, press F1 to start calling CQ. When a station calls you, enter the call in the window at the bottom, hit F5 (to send his call), then F2 to send the exchange. The other station will send their exchange. Once you enter his serial number press ENTER to log the call. It will send TU (thank you) and other stations will call you. If they don't, press F1 again for another CQ.

The calls are logged and you are graded. You can see the red NR next to the XE2 call. I entered the wrong serial number for that one and I lost credit. If the call was entered wrong it would have a red NIL flag.

Once you get comfortable you can change band conditions. Some things you can add are QRM, QRN, QSB and flutter. You can also check the LIDs box and throw in a few bad operators from time to time. The activity indicates how many callers you get. The higher the number the higher the average number of callers, but it is somewhat random. Even with a fairly high number you might get times when no one comes back to your CQ.

Morse Runner is a great program for improving your skills or as a warm up before a contest. Try it. As a side note, does anyone remember DR DX? It was a Commodore C64 program that simulated the CQWW contest. It was extremely realistic.

Contests in January start out with the ARRL RTTY Roundup. As the name suggests it is a RTTY contest. RTTY contests are getting increasingly popular with the use of the PC with a sound card interface. You can get on RTTY very inexpensively. The RTTY Roundup starts at 1800 UTC Saturday (noon local) January 7 and runs to 2400 Sunday (6:00 PM local). You can only operate 24 hours maximum. Off time can't be in more than two blocks. We send signal report and state. DX stations send signal report and a serial number. Work everyone once per band. More details at <http://www.arrl.org/rtty-roundup>

If you decide to get on for this, be prepared for some stiff competition. K9DJT won Wisconsin for the low power unlimited category last year. I'm sure he will be out full force defending his title.

The North America QSO Party winter events start out this month. The CW event starts on January 14 and the phone is the 21st. Both start at 1800 UTC (noon local) and run 12 hours, but you can only operate 10 of them. The exchange is your name and state. The NAQPs are great contests for smaller stations because the maximum power is 100 watts, and small, low antennas work well for domestic contests: <http://www.ncjweb.com/NAQP-Rules.pdf>

January is a good month for the low bands, and the CQ WW 160-Meter Contest is a good time to be on 160 meters. The CW portion starts at 2200UTC January 27 (4:00 PM local) and runs for 48 hours. We send a signal report and state. DX stations send signal report and CQ Zone. <http://www.cq160.com/rules.htm>

The ARRL VHF contest begins at 1900 UTC (1:00PM local) on Saturday Jan 21 and runs until 0359 UTC Monday January 23 (8:59 PM Sunday local). The exchange is the grid square. Use the VHF bands from 6 meters up. There are several different operating classes, so check the rules: <http://www.arrl.org/january-vhf>

DX-wise, January is quiet. A70X from Al-Safliyah Island starts out on January 1-7. While Qatar is a rare country, the purpose of this is to activate a rare IOTA island. This is a good sized operation with 3-4 stations on, 160-10M, and CW, SSB and RTTY.

Micronesia (V63) will see some activity by a group of a half dozen hams January 4-22. Each operator has their own V63 call. 160-6M, CW, SSB, Digital.

A similar Pacific operation will occur from Palau on January 14-18. The five operators have their own T8 calls. 160-10M, CW, SSB, and RTTY.

Continuing the trend is an operation from Vanuatu. The three ops will be operating using separate YJ0 calls January 20-February 23. 160-10M, CW, SSB, RTTY.

There are some other interesting operations but they are only single op efforts. Often, they are vacation style and are only one between other tourist activities. The best way to get them is to be at your radio.

This wraps up January. January is a time for New Year resolutions. How about a resolution to download a copy of Morse Runner and practice to be ready to help at one of the CW stations at Field Day?

The Computer Corner

No. 227: *Junkware Removal Tool* and Cybereason RansomFree

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



At the ORC breakfast the other Saturday, Ed Rate again railed against unwanted toolbars and browser helper objects, as well as popup ads. Well, I came across a tiny program, now owned by Malwarebytes, that will do the job in a short time. It is a FREE, portable app (it does not need installing) that takes very little memory and bails out when done. Thus, you run it, it does its job and it is finished. I run it directly on my desktop, which works fine. JRT.exe will remove little unobvious bits of code that breed popup ads. It also removes PUPs (Potentially Unwanted Programs) and any leftover PUP fragments. And it takes very little time – you can watch it do its thing in a minute or two or three (on a reasonably clean machine).

When run, JRT.exe requests a restore point (but don't worry if creation of a restore point fails ... you can continue to run JRT anyway). Then it begins to scan:

1. Processes.
2. Startup -Logon.
3. Startup – scheduled Tasks.
4. Services.
5. File System.
6. Browsers.
7. Shortcuts.

...and then it prepares a short text file containing a report.

There are a couple of “gotcha”s to be aware of. When run, it opens a Command Prompt (DOS) window, and works within that. However, you can follow the progress just fine on your screen. Also, there are no options when it is run – it does its thing as it wishes and then it quits when the job is done. It will sometimes close running applications, so be sure to save all your work before you start it and have available any programs that you might want to start back up after it has finished in case they are closed.

Probably the best thing to do is to go to <http://www.majorgeeks.com> where you can get the program (JRT.exe). It would be best also to run the short video there by Tim which explains what to expect. Now, Tim says that JRT is mainly for techs, but I maintain it will do a great job for anyone at any skill level who wishes to touch-up a system. I ran it on four of my computers with no major problems. One failed to create a restore point but I proceeded anyway. Oddly enough, only wife Nancy's (KC9FZK) computer had nothing for JRT to clean up. Fancy that!

NOW I HAVE A FLASH. RANSOMWARE is a particularly nasty type of malware that gets into your machine one way or another and begins to encrypt your personal files, and then delete the non-encrypted versions. It presents you with a message like this:

I want to play a game with you. Let me explain the rules. Your personal files are being deleted. Your photos, videos, documents, etc. ... But don't worry! It will only happen if you don't comply. However, I've already encrypted your personal files, so you cannot access them.

Every hour I select some of them to delete permanently, therefore I won't be able to access them, either.

Are you familiar with the concept of exponential growth? Let me help you out. It starts out slowly then increases rapidly. During the first 24 hours, you will only lose a few files, the second day a few hundred, the third day a few thousand, and so on.

If you turn off your computer or try to close me, when I start next time you will get 1000 files deleted as a punishment.

Yes, you will want me to start next time, since I am the only one that is capable to decrypt your personal data for you.

Now, let's start and enjoy our little game together!

After that, arrangements are typically made for you to send \$150 or more in bitcoin funds for the malware authors to free your files. Nasty. Costly. Impossible for the average user to bypass. Traditional antivirus software cannot stop it, so don't be complacent and think you are protected, because you are not. But there is a no-cost solution for the average home user.

A new company, Cybereason, was founded from a corps of experts who had experience in a military cyber security branch of the IDF (Israel Defense Force). Their new venture is aimed at protecting companies from attacks in real time, for a fee. But, they are making a free program available for non-commercial computer users – to prevent hijacking by ransomware. When installed, the program will alert you immediately of any activity that smacks of ransomware, on your machine or on a network drive, and give you the ability to stop that attack with no consequences.

This is an easy decision, folks. Go to <http://www.majorgeeks.com>, look at the FILES pane on the left, and click Antimalware. In the list that comes up, select Ransomware Removal and look at Cybereason RansomFree. Read about it and optimally run the video supplied. When you are convinced, download the program, install it and forget it. It will not bother you unless you are attacked or a new version is out. Oh yes, it will stash a bit of code on your desktop and elsewhere, clearly labeled: *!Don't delete me! I'm helping Cybereason hunt for ransomware!*

That is your only cost, so install it and forget it. How is that for an answer to a problem you may not have known existed until it was too late? Happy Computing!

KA9EAK QRO – Restoration of the Venerable SB-200

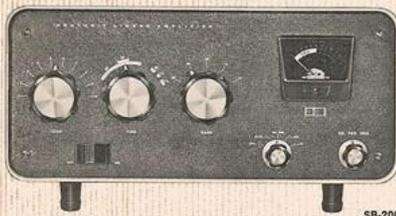
Tim Boppre, KA9EAK



Through the years, I've only ever run a barefoot station. I have typically been able to work a fair number of DX stations, but have always struggled in giant pile-ups with the big iron stations. I know that propagation and timing make up a fair portion of the game but I wanted just a wee bit of an edge for those times when the band is shifty and the competition is relatively intense. Given that old Sol was immune to my pleadings to return us to the peaks of the late '50's, the variables in my control were to improve my antenna situation and/or increase my power output. Given that I recently added a Hustler 4-BTV to my antenna farm, I had improved that variable to some extent over my existing multi-band wire antennas. That left boosting the power so I started my quest for an amplifier. I wasn't interested in spending a lot to get more power so options were limited to used equipment and most likely vintage used equipment. After a fair amount of research, I settled on finding a nice old Heathkit SB-200. These amplifiers were built between 1964 and 1978 and have a very good reputation for reliable performance. Plus there are updates available for them from Harbach Electronics that brings them back to life for many years of continued service.

Heathkit Deluxe SSB Amateur Gear

And Linear You've Been Waiting For!



NEW
HEATHKIT
RESEARCH



SB-200
\$200⁰⁰
Available
Late August

Heathkit SB-200 Kilowatt Linear Amplifier
... Latest in this Deluxe SSB Amateur Series!

- 1200 watts P.E.P. SSB—1000 watts CW • 80 through 10 meter band coverage • Built-in SWR meter—Antenna relay—Solid-state power supply • Automatic Load Control (ALC) • Shielded, fan-cooled amplifier compartment • Pre-tuned cathode input circuit for maximum efficiency & low distortion • Circuit-breaker power supply protection—no fuses • Designed for 120/240 volt operation



BUILT-IN PANEL METER
Measures grid current, plate current, relative power output, SWR (standing wave ratio) and high voltage (switch selected) for simple tune-up and maximum operating efficiency.



SOLID-STATE POWER SUPPLY
Long-life silicon rectifiers and high capacity filter assure smooth DC output and excellent dynamic regulation. All parts mount on a heavy-duty circuit board for easy assembly.

So, my quest began to find an SB-200 that was relatively clean and had not been modified over the years. After some searching, I found one that met my requirements late in the fall. I ordered the Harbach updates for the power supply, soft start, keying interface, and cooling fan. Then all of this equipment sat for a couple of months, in the face of outside work (some of it antennas) and time over the holidays to build the updates and install and test them. I finished this project just recently and am very pleased with the results. With 55 W of drive from

my TS-590SG I get 500 W peak output, which is about where I wanted to be. In initial testing the amplifier is performing well and I'm getting improved signal reports.

An SB-200 sold for \$200 in 1964. If you inflate the dollars to today this is about what I have in this amplifier. I essentially purchased approximately one S-unit which is all that I set out to do and I learned a lot along the way which is much more valuable than the S-unit.



Upcoming Events

Elections at the January Meeting – Pay your dues (\$15) to vote

Wanted and Not Wanted

TenTec Titan 425 Amplifier and power supply – a full 1500 watts - 10 thru 160 meters
\$1600.00 – contact Ed Rate or Tom Ruhlmann if interested.

Election of Officers and Nominations for Awards

De Ken Boston ,W9GA



We will have election of officers at the January 11 membership meeting. You must have paid your \$15 dues for 2017 to be eligible to vote. There are other awards available for which you can also cast a private vote.

Following is a list of officer nominees for 2017.

Nominees who are willing to serve as officers in 2017;

President	K9VIN	Kevin Steers
1 st V Pres	W9JI	Pat Volkmann
2 nd V Pres	KC9REP	Dave Carpenter, Sr.
Repeater V Pres	KC9ONY	Tom Trethewey
Secretary	K9UZ	Ben Evans
Treasurer	N9UNR	Dave Barrow
Treasurer	WA9JOB	Nels Harvey

You will note that there are 2 candidates to pick from for Treasurer this year!! Plus, we will accept nominations from the floor at the January elections meeting. Non-elected officers to be appointed by the new Board include Trustee: AA9W Ed Rate and Past Pres: W9KR Chuck Curran

One of the awards for 2016 is for the outstanding meeting program. Following is a list of the programs given this last year (2016):

Jan	[elections]	
Feb	Basic APRS	KC9ONY Tom
Mar	Slow Scan TV	KA9WRL Bill
Apr	QRP fun	W9JI Pat
May	Field Day History	W9GA Ken & W9XT Gary
Jun	[Field Day Organization]	
Jul	Shack Rebuild	W9KR Chuck
Aug	. Straight Key Night	W9JI Pat
Sep	QSL'ing	W9IPR Tom
Oct	Tribander Installation	WT9Q Vic
Nov	ARES/RACES	KC9YES Naomi
Dec	MARS video	W9JI Pat

Keep in mind, program of the year and the presenter can be nominated for this year's awards. There are other categories like Public Service, Committee, Project, Operator, Contester, Trainer,

Club service, among others that can be nominated. Don't forget, our main awards are for Ham of the Year and Turkey of the Year. These awards are for that individual who, in your opinion, helped ORC with its mission and initiatives during the past year (Ham of the Year) and who made our club gatherings fun and enjoyable. (Turkey of the Year). The Ham of the Year could be someone who has received the award before, while the Turkey of the year is given to any individual only once in his or her lifetime.



Ozaukee Radio Club Meeting Minutes

December 14, 2016

Zach Yatso (KC9ZNR), Secretary

Chuck Curran (W9KR), President, called the meeting to order at 1930. Introductions followed.

Announcements:

Gary D. (K9DJT) received his ARRL DXCC Digital award!

Tom R. (W9IPR) informed the club that new ARRL QSL Service Fees became effective in Nov. Outgoing QSL cards now cost \$1.15 per ounce plus a \$7.00 QSL Bureau service fee.

Program:

Pat V. (W9JI) introduced the National Geographic digital short film *Before MARS*, which provides background on two of the lead characters in the upcoming global event series *MARS* and has a heavy Amateur Radio theme. Although the film takes a few liberties, National Geographic also published a companion article "A Guide to HAM Radio". Both the article and short film are available online.

50/50 Drawing:

The 50/50 drawing was held by Kristian (KC9TFP) and the winning ticket was #392.

Auction:

Stan Kaplan (WB9RQR) conducted the auction and numerous items were sold.

Officer Reports:

Chuck Curran (W9KR), President – The annual Awards Banquet will be held Saturday, February 18th, at The Hub at Cedar Creek in Cedarburg.

Kevin Steers (K9VIN), 1st VP – No report.

David Carpenter Sr. (KC9REP), 2nd VP – No report.

Tom Trethewey (KC9ONY), Repeater VP – Rebuild of the 2m rack is progressing slowly. No complaints with the 440 or 220 repeaters.

Zach Yatso (KC9ZNR), Secretary – Motion to accept the November minutes was made by Zach Y., seconded by Tom R., and carried without debate.

Dave Barrow (N9UNR), Treasurer – Motion to accept November Treasurer's report was made by Dave B., seconded by Bill H. (KA9WRL), and carried without debate.

Committee Reports:

Dave B. welcomes new member John Jilek, KD9GZY (Extra).

Ken B. (W9GA) is the Nomination Chairman for 2017 ORC elected officers. Officer nominations from the floor will be accepted at the January meeting, followed by election by ballot.

Old Business:

None.

New Business:

Tom T. (KC90NY) brought up the service fee charged by PayPal, which is typically covered by the club and cuts into membership dues paid through the service. A discussion of how to mitigate this fee followed. Dave B. (N9UNR) moved to increase the membership dues paid via PayPal by including the extra PayPal fee for online membership/renewal. The motion was seconded by Art D. (AC9CD) and carried with 18 for and 8 opposed.

Tom R. (W9IPR) reminds club members that they have first choice of Scholarship Fund inventory and equipment. A list of available items (and cost) is available on the ORC website.

Adjournment:

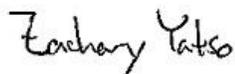
Kristian (KC9TFP) made the motion to adjourn at 2103. The motion was seconded by Stan K. (WB9RQR) and the motion carried.

Attendance:

There were 36 members present and 1 guest.

A copy of the attendance sheet is available upon request in PDF format. Please contact Zach Yatso via email at: kc9znr@arrl.net for a copy.

Respectfully submitted,



Zachary Yatso, KC9ZNR
Secretary

AGENDA

January 11 th, 2017

1. 7:00 – 7:30 PM – Network and Rag Chew
2. Call to order: Introductions. Chuck Curran, W9KR
3. Announcements, Bragging Rights, Show & Tell, Upcoming events, etc.
4. Program: Election of Officers
5. 50/50 – Kristian Moberg, KC9TFP
6. Fellowship Break
7. Auction – Stan Kaplan (WB9RQR)
8. Presidents Report – Chuck Curran, W9KR
9. 1st VP Report – Kevin Steers, K9VIN

10. 2nd VP Report – David Carpenter, Sr. KC9REP
11. Repeater VP report – Tom Trethewey, KC9ONY
12. Acceptance of Minutes : Zach Yatso, KC9ZNR
13. Treasurer's report – Dave Barrow, N9UNR
14. Committee reports.
Elections:
Other:
15. OLD BUSINESS
16. NEW BUSINESS
Elections:
17. Adjournment.

Return undeliverable copies to

The ORC Newsletter

465 Beechwood Drive
Cedarburg WI* 53012

First Class

Next ORC Meeting

Grafton Senior Citizens Center

1665 7th Avenue, Grafton
Wednesday, January 11th

7:00 PM – doors open

7:30 – Membership Meeting