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	April, 2018	Number 4

From the President

de Kevin Steers (K9VIN)

As I write this, three more inches of snow are expected. That is in addition to the eight inches from last Friday evening. This April is like no other I recall. Knock on wood, the winter has been OK on the antennas, and now is the time to play with a new mobile setup, if only the weather would cooperate.

The only real excitement 'on the bench' that I can cite is my repair of a failed microwave oven unit. After 13 years, my over-the-range microwave failed to heat anything. And judging by the odd noise it made, I was sure it was toast. After trying to find a comparable model and color, with external vent, etc., the only ones I found were well over $500. Not in my budget (at least not for kitchen equipment).

I went to my friend Google, then to my better friend YouTube, and found reasonably accurate repair advice, so I determined that it was probably the Magnetron that had failed. Seventy-five dollars later, a four day wait, and about four hours of frustration, I had the unit removed, disassembled, tested, reassembled and re-installed on the wall. What a great feeling of accomplishment, not to mention teaching my kids how to save hundreds of dollars just by disassembling and reassembling on the kitchen table. One lesson I learned is how much pressure is on when the microwave was out of service. It is amazing what a time saver it is.

Well, the spring swap is only a month away, and things are starting to take shape. It is just a matter of time before we are setting up tables, per Loren's proven layout, and taking tickets at the door. Hope to see you all there!

73,
K9VIN
Kevin

DX’ing & Contesting

De Gary Sutcliffe (W9XT)

Well, we are in spring now, but the cold weather sure does not show it. Despite this you can tell we are moving towards summer radio conditions. The shorter days mean that the nighttime paths don’t last as long, and the long-distance paths are disappearing as the shorter dark periods in the northern hemisphere mean there is no period where both ends are in darkness.

Last month I mentioned the Wisconsin QSO Party. I had not been able to operate it in many years due to a conflict. For some reason my conflict was rescheduled for the following week. Something else came up that kept me out the first half of the contest, but I did finally get on, working Gary, K9DJT, Bill, W9MXQ, and probably a couple of other ORC members that don’t come to mind immediately.

The ORC used to make a big effort in this event. I talked to Gary and Bill. Even though we all belong to different clubs we decided to submit our scores under the ORC. The ORC used to make a big effort in this event. Bob, W9LO (SK), used to be the sparkplug to marshal the troops to get on for the WIQP. What do you think? Should we start thinking of making a big splash for next year’s event?

April is not a big month for contests. There are no big ones, so none will be discussed this month. The DX world is a bit more active.

The newest DXCC country, Kosovo, will be activated by a group from the Czech Republic on April 15-22. Bands were not mentioned but based on the antennas listed on their web site 80-10 are likely. SSB, CW, RTTY, and FT8. The call will be Z66D. If you worked the first station (Z60A) on from Kosovo once they became a DXCC country, you got a nice surprise from the Easter Bunny. The logs were uploaded to LoTW on April 1. It was much better than those hard marshmallow chickens that usually show up that day.

Bhutan will be activated April 4-11 by a small group using the call sign A5A. They will be on 160-6M, using CW, SSB, and FT8. There will be a special emphasis o FT8. This is a tough path. Our best shot will probably be 20M.

There will be another group going to Bhutan later in the month. A group of Japanese ops will be all operating on individual A52 call signs April 29-May5.

Also on the April 29-May 5 dates, a group of Russian hams will activate Mozambique with the call C96RRC. Look on 40-10M, CW, SSB, and digital.

St. Barthelemy will be activated by a few US hams using their FJ/Home-calls April 18-27, 80-10M, CW, SSB, RTTY and some satellite.

A group of Italian hams will be activating Mauritius under the call 3M8MB. The dates are April 20-28. The operation will be on 2M moon bounce.

Also from the Indian Ocean will be 3B7A from Agalega & St. Brandon. This is probably the biggest operation of the month. The French group will have seven stations covering 160-6M, CW, SSB, and RTTY. The dates are April 5-17 and the call sign will be 3B7A.

Palau will be activated under the call signs T88FT and T88IH by a pair of Japanese ops. The dates are April 17-24, 160-6M, CW, SSB, JT65 and JT9.

There are a number of single op DXpeditions this month. Many are holiday or business trip style, where they get on the air when other activities permit. Being on the air a lot is the best way to find them.

That wraps up this month. See you on the air!

THE COMPUTER CORNER
No. 242: ONLINE BANKING

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

My gosh! Why would Stan include an article on Online Banking! Well, folks, many of us use our computers for banking, to one extent or another. At the very least, some of us look at our balances online. On the other end, some of us do all our banking using a computer, or even a smart phone. Not being an expert in the subject, I found someone who is. Our own Second Vice President, Robert Eskola (K4WTH) has worked in the banking industry for years and has written a short article to “heighten our awareness” in this area. Thanks, Robert, for being a guest author for the Computer Corner. Happy Computing, all!

Banking for the Future: Safe, Secure Online and Mobile Banking
Robert Eskola, K4WTH

It’s always nice to go into things with your eyes wide open. If you are new to internet banking, you might not have considered where you can run into hiccups as you manage your money online. This article should help you to imagine a few things that can go wrong and may even help you deal with those situations. It should be noted that most consumers are quite happy with their online banking experience. They enjoy higher interest rates on savings, and they often have access to advances in banking technology such as remote deposit, images of checks deposited, and the ability to move more quickly than they would in a traditional bank teller transaction.

Another plus is that the few difficulties mentioned in this article are becoming less and less prevalent as banks improve due to competition. Online Bank Accounts and the speed of the internet makes some things faster, and some things slower. When you first open an account, it may feel like a “hurry up and wait” situation. You’ll need to complete an application online, and you might even need to send in a paper document with your signature. This can feel odd, compared to the relative speed of most other transactions online. At brick-and-mortar banks, you can begin using an account almost immediately.

Deposits to your online bank account can be slow, but with practice you will learn to move money quickly and efficiently. If you get a big check and want to start earning interest, you can expect to wait if you're going to mail the check in, plus you will be at the mercy of the post office. The higher Annual Percentage Yield you earn may still make it worth your while, but it’s just no fun to wait. What can you do about this? Use an online bank application that allows you to deposit checks remotely, with a computer or mobile device.

Most banks within the United States use 128-bit or 256-bit encryption and follow NIST (National Institute of Standards and Technology) guidelines for what level of encryption to use with your document. For example, NIST declares 80-bit strength until 2010 and 1120-bit strength until 2030 (see NIST SP 800 57). Keep in mind the adage “location/location/location”. Where are you trying to access your information from is just as important as what you access. Never use open networks or free Wi-Fi spots to access your bank accounts. Also, monitor your checks. In a study done in 2016, 54% of bank fraud occurred from unauthorized use of contact information taken from checks. With only one check, a “bad guy” may have access to your routing number, account number, check number, name and address, phone number, and driver’s license. Making those deposits remotely using a computer or mobile device will start earning interest faster, and you don't even need to pay for a stamp. But there is a catch: banks limit how much you can deposit with your mobile device, so you can't deposit large (usually over $5,000) checks this way.

What about getting cleared funds quickly? If you need to pay somebody with a cashier’s check, an online bank account won't help, since you will still need to run to your local branch. Current banking regulations stated in the Patriot Act require you to personally identify ownership on the account with intentions to create a paper trail. However, you can generally do a wire transfer out of an online bank account (if your payee will accept a wire transfer). Or set up your bill paying scheme to pay certain people and organizations on your schedule. The nice part of this is that if the payee you are trying to pay accepts electric payments, the funds move via Automatic Clearing House. On the other hand, if they do not accept electric payment, the bank will send a check to be delivered on the exact day you specify.

Note that you should never set up a system to have anyone routinely take money from your account on a scheduled basis. Why? It is almost impossible for you to stop this type of transaction, should an issue come up that makes you want to do so. The majority of bank fraud happens when insurance companies or cable/internet companies have your permission to remove money from your account automatically. You Can’t Spend It from Your Online Bank Account If You Don’t Have Checks Online bank accounts traditionally made it very easy to spend your money, making it necessary to really keep close track of your funds in the account. But, things have improved somewhat since the older days.

To keep your cash accessible, use accounts that offer online bill pay or debit cards that you can

use at an ATM or retailer. Always make sure never to write your pin on your debit card (this voids all protection you otherwise have in your account and you become liable for every penny). Whenever possible, always run any transaction as a “credit”. That allows you to sign your signature on your debit card and still have all the protection you would get if you would use a credit card.

Most major banks have some sort of rewards program tied with their online banking platform. Remember that you worked hard for your money. The question is, does your money work that hard for you? Customer Service with Online Bank Accounts is improving all the time, but you may occasionally have trouble with customer service. With a brick-and-mortar bank, you’ll likely have some familiarity with the staff. At a credit union, the staff might even get to know you very well. If you’re the type of person who enjoys this personal interaction, it’s easier to find at a brick-and-mortar institution.

On the other hand, you might want to just get things done and move on about your business, in which case online bank accounts are more efficient and can get most if not all types of transactions completed in a very timely manner. Sometimes problems are easier to solve in person. If there is a mistake somewhere, a face-to-face discussion may be the most effective way to make progress when things are confusing. You won’t have to wait on hold, and deal with an “escalation” process, since everybody can sit down together and figure things out. Why does the staff matter? It’s easier to get good service if you know them and they know you, especially if they know what you typically do with your accounts. And if you are familiar with the institution’s employees, you can select who to deal with.

Online bank accounts often require that you play the “1-800 Lottery” which is a trade off on knowing someone face to face. On the other hand, folks on the telephone often have later hours of operations and can resolve the issue, without you leaving the comfort of your home. You might get somebody helpful and knowledgeable, or you might not. On the bright side, you can always hang up and call back – hoping for a better-qualified representative, but that can be frustrating. It does seem, though, that in recent years, customer service has improved at most banks because employees are crossed trained to handle most issues.

Other Reason Why People Avoid Online Bank Accounts and Transactions: Sometimes online banking websites go down. When this happens, there's no backup branch that you can go to – and the phone lines will be clogged. To protect yourself, always keep a local bank or credit union contact information with you so you won't be penniless or without access while they fix the online problem.

To summarize, you should not ignore online banking because of the ability to quickly access and move money where you want it. Online accounts may offer an easy way to bank for free, and they are a good bet for quickly finding high-interest rates. Thus, they tend to make life easier. You may never run into any of the problems mentioned above, and your overall experience will probably be great. However, you now have an idea of what can go wrong when using these services.

Vintage Amateur Radios

de Bill Shadid, W9MXQ

On the heels of last month's presentation about the Hallicrafters SX-117 Receiver and HT-44 Transmitter (and the SR-150 Transceiver before that) comes a review of the HT-45 Linear Amplifier and the Radio Industries Loudenboomer model. Customers buying the SX-117/HT-44 Twins or the SR-150 Transceiver would find the HT-45 to be a perfect match. This amplifier became a direct competitor to the Collins 30L-1 Linear Amplifier but was potentially a good deal more powerful – at least in the power supply and tube plate dissipation. Below you can see the Hallicrafters HT-45 Linear Amplifier that is in operation at W9MXQ.

Hallicrafters HT-45 Mark IIA 80-10 Meter Linear Amplifier
(Hallicrafters P-45 High Voltage Power Supply is Separate.)
(W9MXQ Shack Photo)

The Hallicrafters HT-45 Linear Amplifier was capable of operating on most of the HF spectrum from 3.5 to 30 MHz, as were its mates, the SX-117/HT-44 and the SR-150. There was some efficiency drop-off outside the traditional 80 – 10 Meter bands of the time. This amplifier was developed by a Hallicrafters subsidiary operation, Radio Industries, Inc., of Kansas City, Kansas. That amplifier was known as the Loudenboomer. That name was kept with the release of the HT-45. Note the word "Loudenboomer" both on the front of the HT-45, above, and on the front of the Radio Industries version, below:

Radio Industries Loudenboomer Mark IIA 80-10 Meter Linear Amplifier
(Radio Industries PS-2A High Voltage Power Supply is Separate.)
(Radio Industries Loudenboomer Operating Manual)

The Radio Industries Loudenboomer and the Hallicrafters HT-45 share all physical and electrical specifications. Despite the color differences in the included photographs, the two amplifiers might well have shared the same front panel silk screening. The black insert panel and trim at the top of the HT-45 Front Panel are separate pieces. I have not removed them from my HT-45 but I suspect I would see the Radio Industries panel with the Radio Industries and Loudenboomer name blanked. Further indication of using the same silk screen is noticed when looking at the word “LOADING” at the right side of the amplifier. You will see that the trim piece there nearly covers the “L” in that word. If a separate design screen had been used, this could have been adjusted. That is just one of several trivia items in these products.

The HT-45 used a newly designed triode from Eimac – the 3-400z. This is the predecessor tube to the long popular 3-500z that most of us know. 3-400z tubes today are nearly unobtainable. Some of these amplifiers (both brands) can be found today with an Amperex 8163 triode. The Amperex 8163 (also now nearly unobtainable) was a competing tube to the Eimac 3-400z but was slightly taller and was a very tight fit in the cabinet of these amplifiers. To my knowledge, neither Radio Industries nor Hallicrafters branded amplifiers ever shipped with Amperex tubes from the factory.

For a review, look at comparable specifications for the HT-45 (and Loudenboomer) and its competitive target, the Collins 30L-1:

	Amplifier
Specification	**Collins 30L-1**
Band Coverage	80-10 Meters
Power Amplifier Tube(s)	Four 811A Triodes
Total Dissipation	260 watts
Circuit	Zero Bias Grounded-Grid
Input Circuit	Tuned – 50 Ohm Impedance
Cooling	Simple fan across the Tubes
Input Power	1,000 Watts SSB/CW
Drive Power for Full Output	100 Watts
Power Output	500 – 600 Watts
Plate Voltage	1,800 Volts
Total Weight	38 Pounds

(Collins 30L-1, Radio Industries Loudenboomer, and Hallicrafters HT-45 Operating Manuals)

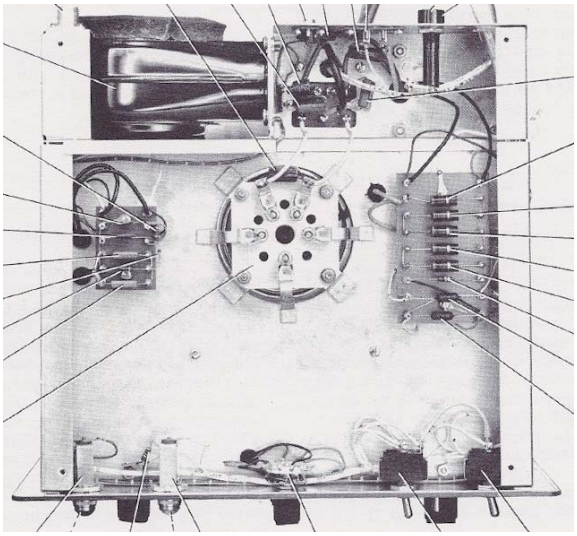
This comparison covers just these popular “table top” amplifiers. (The Hallicrafters P-45 Power Supply for the HT-45 was floor mounted – so maybe “table top” is a bit of a stretch!) The total weight of the HT-45 (at 103 pounds with its power supply) was far more than the 30L-1. That was related to the extremely underutilized P-45 Power Supply in the Hallicrafters system. I am sure that the P-45 Power Supply could have handled much more power. However, the single Eimac 3-400z tube perhaps could not. One wonders if Hallicrafters had plans for a two-tube version of the HT-45. Remember, however, that at that time there was disagreement on the point of 2,000 watts PEP input for SSB. Hallicrafters in those years did not agree with that specification and had no amplifiers rated beyond 1,000 watts. Indeed, even Collins rated the bigger 30S-1 Linear Amplifier (floor mounted amplifier and power supply weighing 170 pounds) at 1,000 watts input. Same as the 30L-1. The 30S-1 could produce far more than 1,000 watts input power.

The HT-45 has a rather unique tuned input. And, in fact, both the Collins 30L-1 and the Hallicrafters HT-45 worked with exciters (32S-1 from Collins and HT-44 from Hallicrafters, respectively) that required a load impedance very close to 50 Ohms. Collins did this with tunable Pi-Network input circuits – one for each of its five bands, 80 – 10 Meters. The Hallicrafters input was a “wide-band ferramic transformer” (to quote their actual terminology), “which is broad-band tuned and essentially flat from 3.5 to 30 MHz.” This was all well and good but the HT-45 was super critical to drive level and anything more than 50 watts presented to the input of the amplifier would cause great problems and terrible signal reports caused by overdrive. To resolve this, the Operating Manual for the HT-45 includes design and building instructions for a 3-dB RF Pad that tames the drive power and makes the input circuit of the HT-45 operate as smooth as silk.

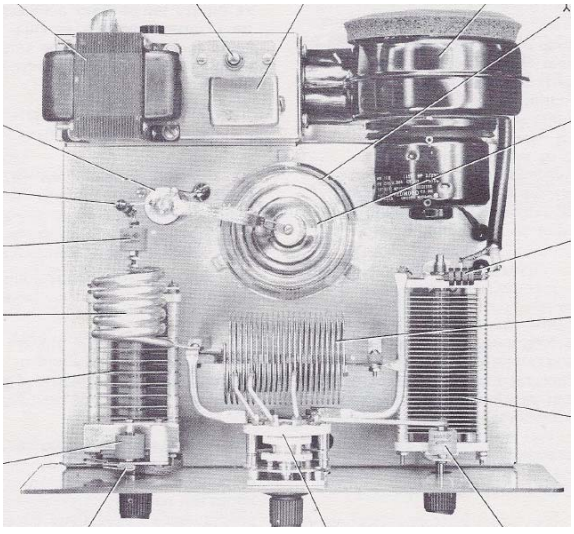
I have owned both the Radio Industries Loudenboomer and now the Hallicrafters HT-45 amplifiers. My original Loudenboomer and its matching 3-dB pad lives on with my fellow collector, Bob, W9DYQ. My current HT-45 has its own 3-dB pad, also based on the HT-45 Operating Manual. The pad uses a total of 38, 2-watt carbon composition resistors. As you would expect, the pad dissipates about 50 watts, peak.

Unlike the Collins 30L-1, and many other amplifiers of the time, the Hallicrafters HT-45 does not have in/out RF switching. When connected to its exciter (such as the Hallicrafters HT-44 Transmitter) it runs 1,000 watts input – period. A relay switching system needs to be designed to handle proper switching – keeping the 3-dB pad inside the amplifier part of the circuit (to prevent a 3-dB loss to the receiver). There is no hint of this in Hallicrafters’ documentation. If you find yourself in need of help making either the 3-dB pad or the relay switching system, you may always contact the author of this article for suggestions and some direction. I built my own switching relay from scratch. Such relays were readily available back in the 1960’s from P&H Electronics, Dow Key, and others. But, those are long gone, today. Home-brew is about the only option today.

Here is a peek inside the workings of the HT-45 Linear Amplifier...



Hallicrafters HT-45 Linear Amplifier Inside Bottom View (Front Panel at Bottom of Picture)



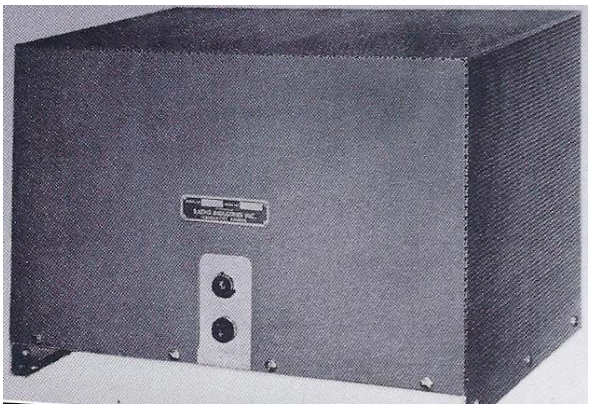
Hallicrafters HT-45 Linear Amplifier Inside Top View (Front Panel at Bottom of Picture)

(Hallicrafters HT-45 Mark IIA Operating Manual)

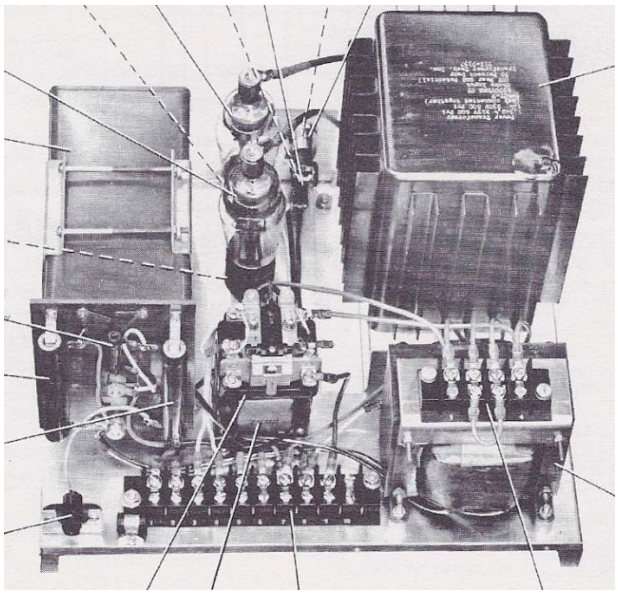
In the bottom view you can see that the grid connections on the 3-400z socket are directly grounded to the chassis. The Mark II Model of the Radio Industries and Hallicrafters amplifiers had the grid pins going to ground through 0.005 uF mica capacitors. In the same view you can see, in the upper left-hand corner, the blower connected to the chamber housing the AC and Control lines from the P-45 Power Supply – which is open to the main chamber where the tube socket is mounted. All air must flow out of the blower, through the AC/Control input area, into the main socket area, and out via the chimney surrounding the 3-400z final amplifier tube.

Turning the amplifier over shows the 3-400z tube surrounded by its chimney (open at the top) forcing air past the tube socket pins at the bottom, around the tube envelope, and then exiting around the plate cap. In this Top View you can see the TUNING (left) and LOADING (right) capacitors and the Band Switch connected to the tank coils. You will also see the filament transformer (top left in the picture) and the Blower Assembly. Between the filament transformer and the blower, you can see the housing for the “wide-band ferramic transformer.”

Now let’s look at the 75-pound P-45 High Voltage Power Supply. (The Radio Industries P-2A Power Supply is the same.) This is a true monster. It was before the days of the high silicon steel power transformer laminations. Even so, with modern iron in the transformer and choke, this power supply would still be heavy.



Hallicrafters P-45 Power Supply
Radio Industries P-2A Power Supply
(Exterior Front Quarter View)
(“Radios by Hallicrafters,” Chuck Dachis 1999)



Hallicrafters P-45 Power Supply
Radio Industries P-2A Power Supply
(Interior View - Bottom is Cabinet Rear)
(Hallicrafters HT-45 Operating Manual)

Some of these power supplies were delivered with the supply mounted on a piece of half-inch plywood attached to the bottom of the cabinet. My P-45 is mounted that way.

The front view shows the cover in place with a high voltage indicator lamp on top, on the small panel, with the primary fuse below it. The other picture – reversed front to back from the outer view, shows the Plate Transformer at the upper right, the Plate Choke at the lower right, with the 110/220 VAC jumper strip on top of that choke, the AC Power-On Relay in the middle just below center, and the two 866A Mercury Vapor Rectifier tubes at top center that are in a full-wave,

center-tapped circuit. At the upper left is an 8 uF, 3,000-volt Oil Filled Capacitor. There is a Millen high voltage connector at the lower left corner of the chassis plus a 10-pin terminal strip for interconnection with the amplifier.

The Hallicrafters P-45 and the Radio Industries P-2A Power Supplies are interchangeable and, like the two amplifiers, were built by the Radio Industries Subsidiary.

The HT-45 is very clean, simple, and effective design. It gets the same results (and maybe a bit more) than its target competition, the Collins 30L-1. One mystery (there are always mysteries in these old radios!) is why Hallicrafters selected vacuum tube rectifiers. Maybe Hallicrafters President, Bill Halligan, ex-W9AC, liked that blue flash in sync with SSB modulation and CW keying – just like me! Do you think?

In closing, here are two pictures of the HT-45 Linear Amplifier in operation at W9MXQ. Top is with the SX-117/HT-44 Receiver/Transmitter. Bottom is with the SR-150 Transceiver. The HT-45 is quiet and provide a good added signal punch to the exciter. The HT-45 also adapts well with other brands of the 1960's as well as radios of today.

Left to Right: HT-45, HT-44, PS-150-120, SX-117
(with D-104 Mic, HA-8 Spatter Guard, HA-1 Keyer, HA-10 Keyer, VibroKeyer)

Left to Right: HT-45, SR-150, PS-150-120, HA-1
(with D-104 Mic, HA-8 Splatter Guard, VibroKeyer)

Until next time – 73, and keep those old radios running on the bands!!

W9MXQ

A Winter Away – A Trip Back in Time and Technology

de Tom Ruhlmann, W9IPR

For the past several years, Pat and I have volunteered at Sun-N-Fun in Lakeland FL during the winter months. I know, you think it is all sun and fun. Actually this is a lot like the EAA event in Oshkosh, only smaller. We also sponsor a four-year high school with a core curriculum related to aviation; have awarded over 150 flight training scholarships; operate several aviation summer camps and maintain a unique aviation museum (Florida Air Museum). Pat and I spend most of our time in the museum and I have also instigated a special event station (W4S) at the museum during the fly-in. About four years ago, I suggested we recreate a B-17 or B-29 radio room in a section of fuselage. Last year, upon my arrival, I was presented a section of an MD-80 and told that it was my project – overwhelming. After two winters and the assistance of several others, it is looking pretty good.

As you enter one end, there is a replica of a B-17 navigator's compartment, complete with most of the required navigator's instruments and tools, and an explanation of the navigators duties. We even cut a hole in the top of the fuselage and installed an astrodome and sextant, along with an explanation of dead reckoning and celestial navigation.

In the center section, there is a display of various escape and survival items, including a parachute, May West life preserver, first aid kits and a Gibson Girl hand cranked emergency rescue transmitter.

The compartment of greatest interest is probably the B-29 radio operator's station. It is not yet complete but currently contains a BC-348 receiver that Bob Truscott (W9LO - SK) had given me, and most of the balance of equipment has been donated by Steve Berg (KB4IRB) of Orlando. Presently, it includes the ART-13 Collins HF transmitter; the 3 Command receivers and two transmitters with modulator, antenna relay and J-38 key.

And along the other side of the fuselage is a double row of airliner seats so the elders can take a rest and the younger set can have a seat and take an imaginary trip to Grandma's.

To be sure, it has been a fun project but I am sure it will not be completed yet this year as there is fake wiring, etc. yet to be installed and a few more items of equipment to be acquired. It's not the EAA Aluminum Overcast, Fi-Fi or DOC but it will give visitors a reasonable representation of the WWII bomber crew members' responsibilities and duties, as well as illustrate the changes in navigation and communications technology since 1945.

Ozaukee Radio Club Meeting Minutes

March 14, 2018

Ben Evans (K9UZ), Secretary

President Kevin Steers (K9VIN) called the meeting to order at 7:33 PM. All the attendees introduced themselves.

Announcements, Show-and-Tell, Bragging Rights:
Gary K9DJT: If anyone is interested in an ORC long or short sleeve short, see Gary. Need an order of at least three shirts for free shipping.

Vic WT9Q got his first RTTY contact last month.

Chuck W9KR: Three items were recently sold on the club's eBay account for about $2,000 which goes to the Scholarship Fund. However, Chuck said he received a bill from eBay for $227, a result of not checking off for autopaying eBay's fee out of the proceeds. The treasurer will reimburse him. Chuck said we can get much more money selling equipment on eBay than we would get at a local swapfest.

Gary N9UUR: The Wisconsin Association of Repeaters meeting is Saturday, March 17th, 9:30 AM at HRO.

Program:
Ken W9GA gave a presentation on preventing your ham shack from causing RF interference to other electronic equipment, and also how to check your ham shack for compliance with FCC human RF exposure standards.

50/50 Drawing:
Todd N9DRY was the winner of the 50/50 drawing.

Auction:
Stan WB9RQR conducted the auction. Many items were sold or given away, including a tuner with roller inductors, an HP audio oscillator, an SWR meter and a 2-meter power amplifier.

Officer Reports:
Kevin S. (K9VIN) President – Save the date of May 5th for the Spring Swapfest. Robert K9WTH, the club historian, has a box of stuff (photos and documents) that he would like to have digitized for access to members. Would like volunteers to help with the digital archiving and also identify members in old photos.

Pat V. (W9JI), 1st VP – No report, but adding to the discussion of archiving historical documents, Pat remarked that if members aren't interested in looking at the documents, let alone participating in the archiving process, then we shouldn't go through all the work that digital archiving entails.

Robert E. (K4WTH), 2nd VP – A new member "welcome" letter was put up on the club Facebook page, with links to the website and the by-laws, and club event dates. A question was raised as to whether a paper club flyer can be taken to HRO. Kevin K9VIN said he'll drop off copies of the welcome letter to HRO.

Tom T. (KC9ONY), Repeater VP – WAR has approved the repeater's new antenna radiation pattern. The new antenna has been ordered and should be shipped March 19th. Tom and Loren will assemble it, and then figure out a date to install. Not related to the repeater, there will be a Storm-Spotters

Training Class at the Ozaukee Fair Pavilion, March 20th from 6:30 to 8:30 PM. The event is free. Also, if anyone wants to be trained in conducting the Tuesday night Net, see Tom.

Ben E. (K9UZ), Secretary – The liability insurance has been renewed for another year. Ben has been making updates and small changes to the website, but the web publishing software, Joomla, has a steep learning curve. If anyone knows how to use Joomla or knows somebody who does, let Ben know. The minutes of February's meeting is in the newsletter. Motion to accept the minutes was made, seconded and approved.

Treasurer's Report – Dave N9UNR was not at the meeting, so Robert K4WTH gave the report. The Income & Expenses reports February for have been distributed. Stan WB9RQR made a motion to accept the reports subject to audit and Todd N9DRY seconded. The motion passed. Ken W9GA asked if the reservation for the Field Day grounds has been paid, and Robert said that it has. Also, the rental fee for the Curling Center for the Swapfest has been paid.

Committee Reports:
No committee reports.

Old Business:
Ben K9UZ: Has there been any news regarding the ARRL-administered ORC Scholarship recipient for this year? Will have to check with Tom W9IPR about that.

Bill W9MXQ: If anyone participated in the Wisconsin QSO party last weekend, if you haven't turned in your score, please mark it to the credit of the ORC as a group.

New Business:
Date reminders – Jefferson Walk, March 18th, MRAC Swapfest, March 24th.

Adjournment:
A motion to adjourn the meeting was made by Stan WB9RQR, seconded by Robert K4WTH and was passed. The meeting was adjourned at 8:55 PM.

Attendance:
There were 37 members and 2 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

Meeting Agenda

April 11, 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: Bill Shadid, W9MXQ
5. 50/50 Drawing – Kristian Moberg, KC9TFP
6. Fellowship Break
7. Auction – Stan Kaplan (WB9RQR)
8. President's Report – Kevin Steers (K9VIN)
9. 1st VP Report – Pat Volkmann (W9JR)
10. 2nd VP Report – Robert Eskola (K4WTH)
11. Repeater VP report – Tom Trethewey, (KC9ONY)
12. Secretary's Report – Ben Evans (K9UZ)
13. Treasurer's Report – Dave Barrow (N9UNR)
14. Committee Reports.
    - A. Spring Swapfest
    - B. Field Day
    - C. Other
15. OLD BUSINESS
16. NEW BUSINESS
17. Adjournment to ??

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, April11th 2018

7:00 PM – doors open

7:30 – Membership Meeting