



Cherry Juice

Newsletter of the Cherryland Amateur Radio Club

VOLUME 52 ISSUE 5
Summer 2022

Published August 5, 2022

Cherryland ARC Summer Radio Round-up Edition

In This Issue

President's Corner	Pg 2
2022 Field Day	Pg 3
Christmas in July	Pg 7
Annual Picnic	Pg 8
Annual Fox Hunt	Pg 9
News You Can Use	Pg 11
QRP Building	Pg 12
SPOT LIGHT	Pg 13
Skywarn	Pg 14
Gaylord Swap Meet	Pg 15
Hamfest Calendar	Pg 16

Field Day
Kiessel Farm
June 24- 25

Club Picnic
Yuba Park
July 23

Fox Hunt
Traverse City
August 27



Affiliated Club #1082

SO, WHAT HAVE YOU BEEN DOING ON HAM RADIO THIS SUMMER?



Geez, I just looked at my calendar and see that August is almost here. Maybe it is already August when you get this copy of the "Juice". Anyway, summer is upon us and I hope you are getting outside to enjoy it. Remember that most of us will be here in the winter wishing it was summer again.

The CARC has lots of summer activity and I know lots of us have been participating. The annual Field Day, as always, was not only a fun operating event but also a fun social time. Chef Glen turns out the best meals for the group and there was always groups of hams gathered at the food tent chatting away. I hope you were there this year!

Then in July we have our annual picnic out at Saylor Park. Again, Chef Glen barbequed chicken and hot dogs for the group. Lots of side dishes to try out as well. Steve Smith came up from Hasselt to demonstrate his slow-scan amateur radio station. Steve uses solar power to run the station and he has a home-made all-band antenna that he uses. Thanks for making the trip Steve.

Bob, WX8BOB, and his wife came up from Grand Rapids for the picnic. Bob and his XYL are both in the SATERN leadership.

Finally, it was great to see Tom Warnock WB8WIV, President of Wexauke ARC and his wife Bev, K8BEV, great to have you with us.

Now in August we will be running our annual Fox Hunt. This is usually the third Tuesday in August so dig out your RDF gear and get ready for some fun. I think that we will practicing Fox Hunting during our Tuesday evening project nights (7 PM, Salvation Army).

And remember, you don't want to be out in the back yard working on your antennas in January so take advantage of this nice weather and Get'r done.

73,

Ernie, K8RCT

FIELD DAY 2022

Cheeseburgers in Paradise

The days preceding June 25-26 were bustling with activity preparing, repairing, and gathering radios, tents, antennas and food supplies for the annual ARRL National Field Day exercises. The Kiessel family graciously confirmed that CARC could again use their open field atop the ridge that overlooks East Bay. Band captains were confirmed for 80 and 15, 40 meters, 20 meters, CW and Digital tents. Glen, K8SGZ agreed to keep everyone fed and hydrated. Ernie, K8RCT, proposed the Theme for 2022 as – **Cheeseburgers in Paradise.** With enthusiasm and fanfare, the club members jumped into action.



Tuesday's project night involved a handful of members loading equipment, generators, signs and tents onto trailers and hauling them to the Field Day site. Three trucks hauled everything and we covered it with tarps to wait out the potential rain during the week. No rain came. Friday at noon, The Cook Tent and Porta-Potty were delivered, the generators were checked, tuned, and tested. With tent locations confirmed, the strong arms, rolled out hundreds of feet of electrical cable from the generators to each tent location.



Brad, W8QPO, assembled his team and equipment at the high point of a hill overlooking the meadow.

Antenna locations were decided as well as tent locations- so time for dinner.

Glen, K8SGZ, created a scrumptious meal of Shrimp, sides and lots of desert, which for only \$15.00 was the best deal in Northern Michigan, by all accounts. Saturday and Sunday meals were provided by the club at no charge, but the offset of revenue from Friday's meal allowed Glen to come in under budget.

Continued on Page 4

FIELD DAY 2022

Station configuration was as follows:

- 80-15 Meter Station by W8QPO – 1 Triband Yagi, 1 EFHW, 1 Vertical, 1 Loop
- 20 Meter Station by N8WK – 1 inverted V dipole
- 40 Meter Station by Jared, KA8RMA - 1 Sloper
- CW Station by AA8SN, 1 G5RV , 1 EFHW
- Digital Station by N8DMH, 1 NVIS designed for 40-80, tuned on other bands as inverted V dipoles.
- VHF and Satellite Station, 2 Satellite Moxons, 1 Elk Log Periodic and Drake had N8BMZ's Arrow Antenna.

Field Day 2022 Started with a bang at 2:00 PM Eastern Time with all stations making contacts and filling logs. There had been particular attention paid to avoiding conflict and QRM between stations. That worked, as conflicts were minimal and in retrospect, we believe that the small amount of QRM and noise we encountered was likely due to aging Romex lines running between stations from the central generators.



L-R Dave K8WPE, Glen, K8SGZ,
Mark, KC8ZAP, Ernie, K8RCt



Ward, N8WK, 20M Station

Saturday morning in 2021, Club members arrived, or awoke from their camping sites to a soggy mess of rain. This year, there was only sun and very few clouds. Wind provided the only challenge to setting up tents. Drake's tent was set up on the edge of the drop-off to East Bay and ready to go. A sustained, strong gust of wind turned his tent, and equipment, upside down, over the edge. Quick thinking hams that were there, ran to the rescue and all was saved without damage to radios & laptops. More effort was placed into securing the tents that acted more like hot-air-balloons, safely tacking them to Earth.

The club tents are nylon all weather tents supported by fiberglass exo-skeletons. It's possible, but not comfortable to stand in one, however, it seats 3 or 4 people quite comfortably. Each tent has a table, chairs and radios, of course.

Over the course of the morning, four tents were established, radios plugged in, antennas connected and stations tested with a few fun QSO's.

Jim Marco, WB2LHP



Continued on Page 5

FIELD DAY 2022

As the sun increased the temperature all one could hear is contact after contact over the consistent hum of the generators. A productive afternoon concluded with the now famous, “Cheeseburger’s In Paradise” theme dinner for attending hams and spouses. Head Chef Glen, K8SGZ, fired up the grill and the meat was on. Inflatable palm trees and flamingos added that extra touch as did the Margaritas. A wonderful evening of visiting and feasting. . . then back to the radios.



CW Station L-R Roger, N8KV and Hope, AA8SN



Digital Station L-R Drake, N8DMH, Caleb, KD8WAM,

Sunday morning breakfast at sun-rise found many stations still working contact pile-ups – or scratching the spectrum for life in some cases. Refueling the generators happened early as well. Then the heat was on between the CW tent and the Digital Station – to see who would have the most contacts. At the end of the day it was close, but Hope and Roger on CW beat out the machines. (Kind of reminds me of John Henry, that steel drivin’ man, beating the new machine drilling rig.) Well, there’s next year.

At 2pm, we shut down and the trailers were packed, loaded and driving off the site by 3:30. By 4pm everything was back in Parker’s Barn and the door closed on another field day.



Satellite Van



Dave, K8WPE

Continued on Page 6

FIELD DAY 2022

So, How did we do?

Here are the scores for 2022. These are for the group at the Club Field Day site. Members of Cherryland ARC should and do, list Cherryland ARC as their affiliated club when sending in their scores for working Field Day from home, or remote site, not part of another group.

Those club members scores are *ALSO* added to CARC Field Day score to make a combined score. The official scores and ranking are Announced in the December issue of *QST*.

Here is the QSO Matrix. The number of QSOs by band. Phone QSOs are worth 1 point each. CW and Digital are valued at 2 points per contact.

And we garnered quite a few Bonus Points for meeting the criteria established by the ARRL.

Here are those bonus points as well as our overall category record.

CALL USED	W8TCM
CLASS	5A
PARTICIPANTS	30
POWER SOURCES	GENERATOR
POWER MULTIPLIER	2X
PRELIMINARY SCORE	3530
QSOs 1290 X2 =>	2580
BONUS POINTS	
100% EMERG POWER	500
MEDIA PUBLICITY	100
PUBLIC INFO TABLE	
EDUCATION ACTIVITY	100
SAFETY OFFICER	100
SOCIAL MEDIA	100
ENTRY SUB BY WEB	50
TOTAL BONUS POINTS	950

The Preliminary Score of 3530 points is raw, without additional Club Members points and pending review/validation of the public information table. If anyone has photos of that display, please send to cherrylandarc@gmail.com.

All in all a good showing. As our attention turns to 2023, we are discussing what we can do to make our Club FD Site more effective. If you have ideas, please let us know. On our list so-far.

- Spread the Digital, CW and 40 Meter phone station farther apart.
- Separate the Antennas more in the process.
- Get the Club's Power Line toroid filters back so we can use them.

BAND/MODE	CW	DIGITAL	PHONE
160			
80	111	37	
40	125	112	35
20	72	69	108
15	24	11	
10			
6		11	
2			3
222			
440			
Other			
Satellite			
GOTA			
QSO TOTAL	332	240	146
Point Factor	2	2	1
Point Total	664	480	146
Point Total	1290		





L – R Santa, Hope AA8SN

CARC Supports Christmas In July

By Ernie, K8RCT

Cherryland Amateur Radio Club support for the Salvation Army's *Christmas in July* fund raiser really makes a difference.

Once again, this year the members of the CARC stepped up to the plate to help the Salvation Army raise money at their annual Christmas in July fund raiser.

We staffed the Kettle at Oleson's on N. Long Lake Road on Saturday, July 23rd from 10 AM until 6:00 PM. I want to thank the following bell ringers for spending an hour or two in the hot sun ringing the kettle bell: Pete Vandenberg, Hope Francisco, Tom Olman, Doc. Dave Wilcox, Ward Kuhn, Elliot, and myself.

I actually have a great time chatting with folks shopping at Oleson's Market. Everyone was very friendly and supportive of both the Salvation Army and our volunteer work. Here is a great picture of Hope and Santa (we don't know who Santa really was) ringing the bell.



In case you are wondering how much money we raise on Saturday; we collected \$806.36 in addition to our club's \$300 donation.

The overall goal for *Christmas in July* this year was \$10,000 and the Salvation Army actually raised \$11,208 in addition to whatever on-line donations that came in.

Again, thank you Cherryland ARC for stepping up to the plate and helping with this worthy cause.

If you would still like to donate to kettle, here is a link specifically for our club members to donate:

<https://donate.sawmni.org/CherrylandAmateurRadioClub2022>

2022 Annual Club Picnic Perfection!

Great weather, good food, special friendships and radio demos!



Photos courtesy of Stephen Smith, WA8LMF, Haslett, MI

Once again, we lucked out by having wonderful weather for this year's picnic. Warm weather and sunny skies had several of our picnickers out wading in Lake Michigan while the chef was firing up the grill. Ahh, I love summer.

On July 26 the gang, about 20, all gathered at Saylor Park for the annual picnic with Chef Glen doing the honors of barbecuing up chicken and hot dogs. Lots and lots of side dishes also were brought by the participants. I love grazing my way through the salads, baked beans, potato salad and the yummy deserts. It was the best way to spend a pleasant summer evening. Good food and good friends!

Speaking of good friends, we were also joined by Bob and Kathy Dennis from Grand Rapids. Bob and Kathy are part of the SATERN National leadership team in Michigan.

Our friend Steve Smith from Haslett also came and demonstrated his **slow-scan TV station, and a fully solar powered station complete with portable antenna mast.**



We also had visitors from the Cadillac club up to sample the food and chat with the local hams. Thank you everyone who came from near and far to attend.

I hope to see everyone again at the 2023 picnic,

73,

Ernie, K8RCT



Photos courtesy of Stephen Smith, WA8LMF, Haslett, MI

Stephen Smith,
WA8LMF

ANNUAL FOX HUNT DETAILS ANNOUNCED

By Cherry Juice Staff

CARC's Annual Fox Hunt will take place on Saturday, August 27th, at 3:00 PM. We will meet to form teams and get instructions, and the important frequency at the Club Headquarters, on the corner of Boon & Barlow in Traverse City.

The Club has held this Fox Hunt for a bunch of decades, five, I believe, and participation has ebbed and flowed with the rhythm of life. Last year, 2021, marked a surge in interest and participation, as President Ernie, promoted the use of a fox hunting antenna build, and others followed suit with attenuators, phase difference devices and other schemes. Joe, N8CN, participated with his mobile phase array antenna scheme, to detect direction of the RF signal while driving.

So, now here we are at the 2022 hunt. There are 15 hams out there who built tape-measure 2 meter yagi's last year. There are some who have other schemes and still others who are asking – "what is all this about?"

For all curious and experienced, CARC will operate Project Night each Tuesday of this month to help people learn about the basics of direction finding, to build additional antennas if needed and more importantly, each week, to test our equipment and skills, by using our equipment to pinpoint the location of a transmitter. This will be three test & prep sessions before the Fox Hunt on Saturday. Project Nights are at the Salvation Army HQ (Club station location) and begin promptly at 7:00PM.



Participation is open to anyone interested. To be on a team hunting foxes, you do not have to be licensed, because your task is to listen and listening's free. So anyone can join and we encourage you to participate. You do not need a radio if you are on a team with one, and you don't need to build anything. Teams generally consist of a driver, and one or two radio direction finders. More importantly it takes both brains working together to be successful.

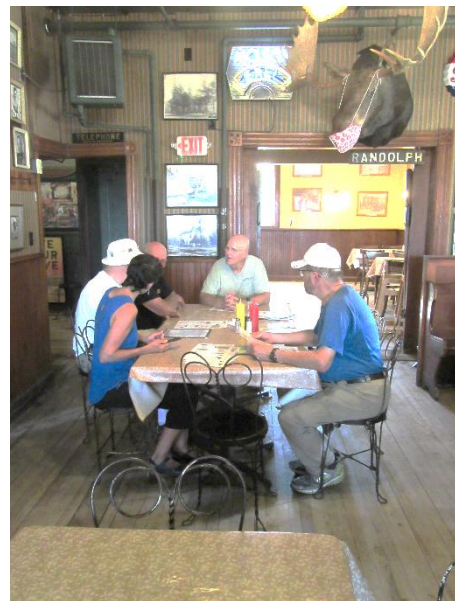
Traditionally, the team that first finds the fox is honored by being appointed to be the Fox next year. This year, CARC will add gift cards to those who first find the fox.



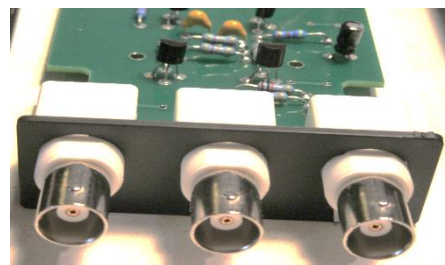
Joe, N8CN, Drake N8DMH

Again, following tradition, both foxes and hunters, conclude the hunt with a time to visit, swap experiences and enjoy a cold refreshment at Sleder's after the fox has been found by all stations who are in contention. Everyone's welcome to join the after-glow at **Sleder's Family Tavern**, 717 Randolph Street in Traverse City.

See You There!



2021 Fox & Winners, L-R
Ward, N8WK, Hope, AA8SN, Jon, N8UL, Ernie, K8RCT, Ken, N8LUL, absent, Drake, N8DMH, Photo by Scott, WX1J.



Continued on Page 10

Radio Direction Finding in a Nut Shell

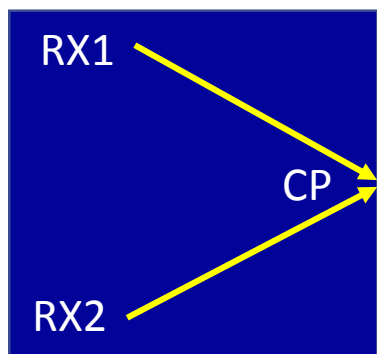
Well, not really a nut-shell, but a tin can can be useful. Now I'm ahead of myself.

RDF has been a skill used by hams since the first transmitters were on the air. Pinpointing RF interference, noise source or if needed, to find a transmitter or beacon from a vehicle or person in distress are reasons that RDF has been part of Ham Radio for decades.

Fox Hunting, is a RadioSport in which operators compete with other stations in local and global contests. The skills are also used to find a noisy transformer on a power line. So, how's it done?

In most cases, it is assumed that the transmitter to be found, is in one location. One needs to know or find out the frequency the transmitter is using.

Then receivers, using a variety of tool options, determine the bearing from their location to the transmitter.



CP = Point of Convergence

All direction finding techniques measure:

- amplitude or
- frequency or
- phase of the signal

A list of tools include:

1. Using your body as a shield to block one-direction.
2. Using a Yagi or other gain antenna favoring one direction
3. Using a Phased Array antenna
4. Using an Attenuator on your antenna connection
5. Using an interferometer antenna scheme
6. Disconnecting the antenna altogether
7. Putting your radio in a Tin Can (oh, that again) to further isolate the signal source when you are in close.

There are other twists and combinations. But most people use two or three of these tools to win the day.

A list of Strategies include:

- 1. Bearing Determination Strategy (Seek strongest signal)**
 - a. Take your initial bearing from your location.
 - b. Drive from that location to a second location, 90 degrees from that initial bearing. Take a second bearing
 - c. Plot both bearings on a map. That should give you a general location to move. Target location is where the bearing lines converge. (recognizing that may be a pretty large area.)
 - d. Some people go past that point of convergence, then take another bearing to confirm it is behind you.
- 2. Follow the Phase Strategy (Compare differences in phase or frequency)**
 - a. Using your phase array antenna, drive in the direction of the bearing
 - b. Adjust your direction following the bearing.
 - c. Check signal strength for increases as you drive.
- 3. Close In Strategy: When you are in the receiving maximum signal strength**
 - a. Attenuate the signal by holding the radio close to your body, and turn. The direction will be where the signal is weakest.
 - b. As the signal gets stronger, take the antenna off and repeat above.
 - c. If you have a tin-can, use that to again find where the signal is strongest.
 - d. Use your observation skills, the radio transmitter may not be in plain sight. Twice, we've found the right location, but failed to look UP or DOWN to find the transmitter.

The Annual Fox Hunt is a lot of fun, lot of learning and a Real Radio Activity- If you are only mildly interested, or fanatically obsessed, this is the place to be on the three Project Nights and the Hunt on Saturday, August 27, 3PM at they Club Headquarters. (Boon & Barlow, in TC) We hope to find you there.

News you can use

Fox Hunting Resource Links

[Introduction to Ham Fox Hunting Video](#)

[Detailed Direction Finding Strategy Overview –](#)

[ARRL Direction Finding Information](#)

[Directions to build Tape Measure Yagi](#)

[Last Year's Cherry Juice, Fox Hunt Wrap up](#)

DMR Auxcomm Net

TBARG District 7

Auxcomm DMR net starts at **8:00 PM.** every Wednesday evening, except the first Wednesday of each month. The purpose of this net is to create, test and practice a DMR communication capability in the area.

This net is accessible on three local repeaters.

CALL	RX FREQ	OFFSET
N8DMH	444.350	+5.0 MHz
W8TCM	442.500	+5.0 MHz
KD8OXV	443.313	+5.0 MHz

All repeaters use TGIF Talk Group **2416** using CC1, TS1

For more information on how to participate, contact Drake N8DMH or Glen K8SGZ.

(email@cherrylandarc.com)

VE EXAM SCHEDULE

- August 13, 2022 1:00 PM
- November 12, 2022 1:00 PM

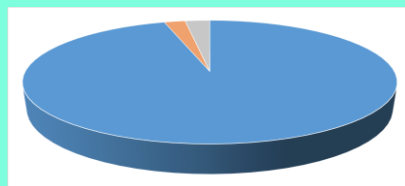
Traverse Area District Library
610 Woodmere Avenue, TC

- February 11, 2023 at the CARC Swap Meet. 9:00 AM

Contact Hope aa8sn@arrrl.net

And check website for updates and details. cherrylandarc.com

HOW MANY HAMS IN GRID EN74 ?



1,482 LICENSED HAMS
33 CLUB/ORG LICENSES
39 OUT OF STATE RESIDENTS
Source QRZ.com

New Linked Repeater System Covering Northern Michigan

The Northern Michigan Linked Repeater Auxcomm Net is at 9:00 PM. Every Thursday evening.

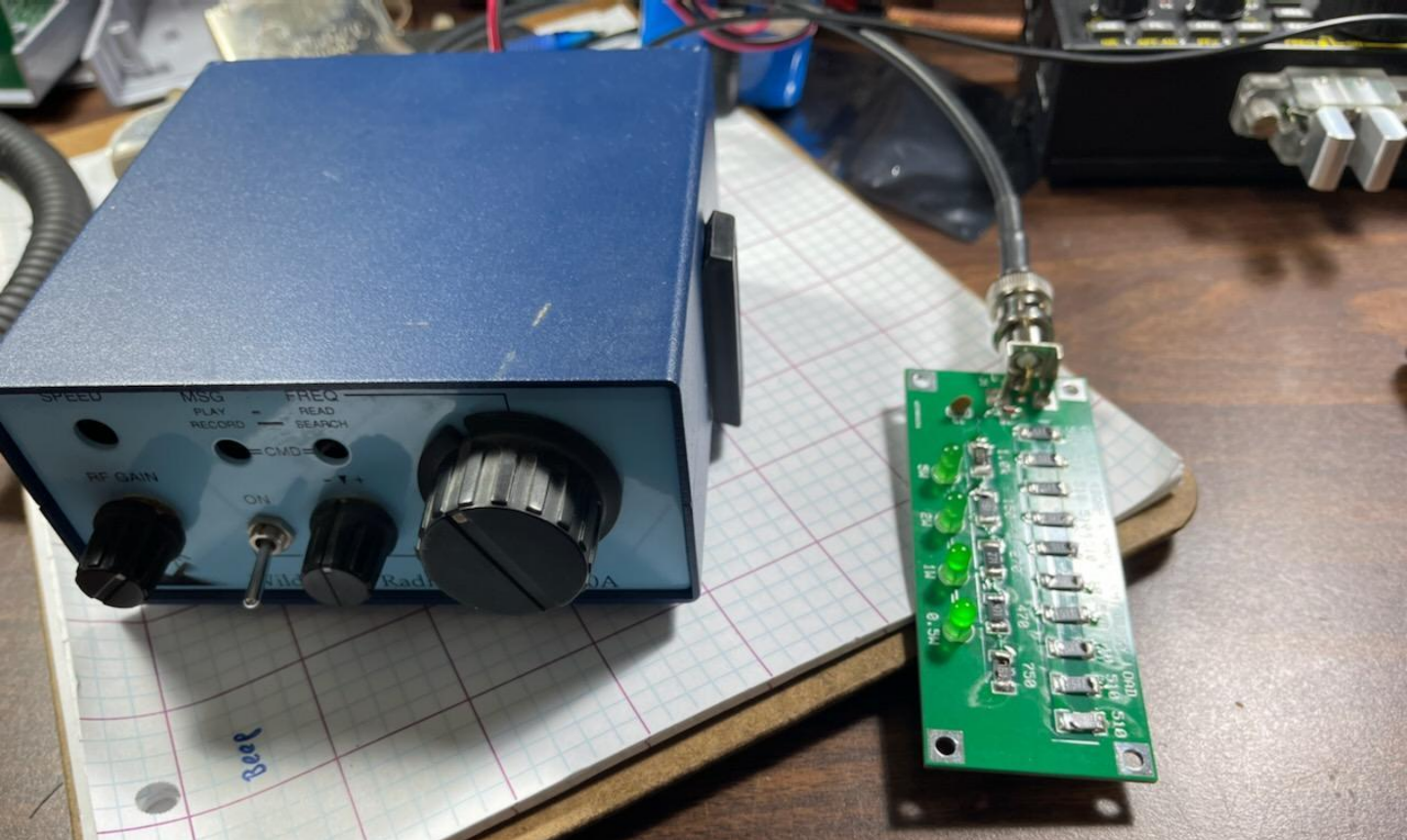
The purpose of this link system is to connect Northern Michigan counties into one communication network in the event of emergencies. This net is linking repeaters in Traverse City, W8TCM, N8DMH, with repeaters in Mio, Cheboygan, Mackinaw, Petoskey, Charlevoix, Indian River and stations that can access those repeaters.

The NMLRA Net meets to exercise the link system and acquaint people with the linked network. Should the need arise, there will be experienced stations on-board quickly.

You are welcome to join the net every Thursday evening at 9:00 PM. It is Analog FM and you can check into the net in Traverse City from the W8TCM 146.86 Repeater.

Thanks to Drake, N8DMH, Adam, N8APX and Camron, N9KOP and others who have created this asset.

CALL	RX FREQ	OFFSET	PL	LOCATION
W8CCE	443.375	+5.0 MHz	103.5	Petoskey/Charlevoix
W8AGB	145.110	-0.6 MHz	103.5	Mackinaw City & Island
W8CCE	146.740	-0.6 MHz	103.5	Cheboygan/ Indian River
N9KOP	146.700	-0.6 MHz	103.5	Mio
W8TCM	146.860	-0.6 MHz	114.8	Traverse City
W8TCM	442.500	+5.0 MHz	114.8	Traverse City
N8DMH	444.350	+5.0 MHz	107.2	Traverse City



A QRP Dummy Load!

Here is my latest build, a Four State QRP Group's SMT Dummy Load with LED read-out. My Wilderness Radio Norcal 4A puts out one Watt according to this device.

I tried the recommended Chipquick SMT solder. My embossing pen and even my Weller butane powered soldering

tool with a blow torch tip melted the Chipquick but it just didn't look right. So I resorted to standard soldering pencil and 60/40 solder.

I put out a question on the Four State QRP Group's groups.io site and received quite an education on liquid solder and the different types. There are many

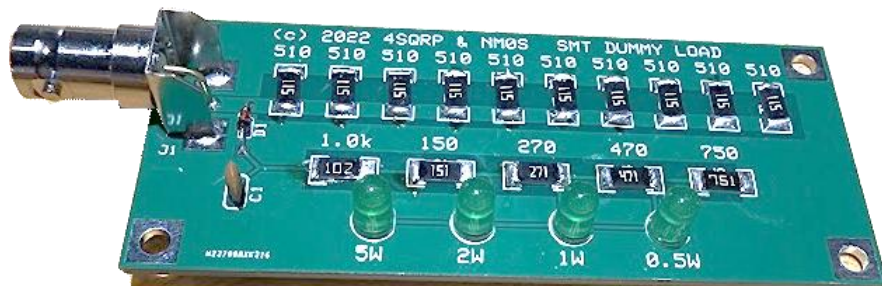
It turns out that the Chipquick type I used is lead-free, so the dull surface is normal. Also there are many types of liquid solder in a syringe (Chipquick brand and others) so read the descriptions on Amazon if you want to try some. I just expected it to get shiny like normal solder. It was my first time using SMT solder and very tiny parts.

The dummy load works fine and it's a neat little kit. It was fun soldering the little parts even with my normal small tipped soldering pencil.

Warning: Small surface mount (SMT) parts can fly away and disappear in the carpet never to be seen again so work on a cookie tray.

73,

Dave, K8WPE



[Four State QRP Group Website](#) link

Local Members Reach the World Sharing their Experience

By Scott, WX1J

Rescuing a Hallicrafters S-53A

Bill Mitchell, W2VHCZ, asked me to see if his Hallicrafters S-53A could be fixed. From the way it was behaving, we suspected the worst, thinking one of the radio's intermediate frequency (IF) transformers may have failed. So, in the weeks before Bill dropped it off, I found an S-53A radio to use for spare parts (see Figure 1).

Bill's radio problems were due to its aged electrolytic and tubular capacitors, which had deteriorated to the point that it wouldn't work. The IFs and main components actually remained in good shape. With the capacitors replaced and freshly aligned, the radio is now back to working as it did when Bill received it in 1962.

Down, But Not Out

After replacing Bill's radio, I was left wondering what to do with the original Hallicrafters S-53A. It was missing its front panel and the cabinet was missing, but the glass dial face was in place and undamaged. While the chassis had a firm of dirt, the underside was clean and mostly unmodified from its original state. An ohmmeter check indicated that the power transformer primary and secondary windings were probably good. The same was true for the three IF transformers and the audio output transformer.

My newly rescued S-53A must have experienced damaging stress or impact, evidenced by the broken support bracket at the rear of the variable capacitor assembly, leaving it to hang up and down on two feet and/or screws.

At its core, it seemed to be a serviceable radio, but worried about the obvious defects, I decided it would be interesting to attempt a restoration.

Stage By Stage

One of the old electrolytic capacitors in the power supply was leaking badly, making it impossible to turn the radio on or quit troubleshooting. The



Figure 1—The S-53A was thought to be parked out, but it soon became a restoration project.

Figure 2—At its core, you can see the standard oscillator board and other components.

George Benson, N8RU has a special penchant for restoring the glory of old radios at his home in Cedar, MI. To describe George as a perfectionist might sound harsh, but he's not far off for a human.

George takes great pride in doing the restoration correctly and using original parts where possible. Short-cuts are not in the lexicon.

To get a birds eye view of George's work, visit [his QRZ page](#) and scroll down to read and see his past projects. N8RU has authored six articles and letters for *QST Magazine* of the ARRL. Most recently his article in the July 2022 Issue, pg 98, on restoring a Hallicrafters S53A, gives insight into his care for the hobby, his care for friends and for old radios.

George is active as a founding member of the Great Lakes Dxers and participates with Club activities when he can. Read his articles and if you get the chance, say hello to a great example of Amateur Radio Operators going the extra mile to do it right.

As you read QST, Keep an eye out on the Classic Radio column for N8RU.

Doc, Dave Wilcox, K8WPE is one of the most passionate advocates of QRP that you will meet. Dave builds kits, works them, and starts another kit. (See *News you can use, pg. 11*)

The February, 2020 issue of *CO Amateur Radio Magazine* featured a prominent article that Dave wrote for the magazine's annual QRP special issue. Dave's article was titled "*The Warm Glow of Accomplishment*", and it reads well.

The article starts on page 19. In the article, Dave relates his history with Amateur Radio back to 1960 and chronicles his journey through technology and building skills to arrive at the point now, where he gets as much pleasure out of building a kit as making a DX contact on 1/2 a Watt. It's a fascinating read and everyone should have the chance to explore this side of Ham Radio. Dave has lots of tips, resources and experience with both to help you on your way to QRP nirvana.

Dave is active in the CARC club and operates CW mostly and always on QRP. He advocates for adding some info to your QRZ page. [His is here](#). If you hear him on the local repeater, say hello to K8WPE.



QRP Special

Since we've been sharing personal ham radio histories as part of our 75th anniversary celebration, we asked a couple of QRP reflectors for low-power enthusiasts to tell us how they got started in this part of ham radio and about their most memorable QRP moments. Here's a selection...

QRP Quickies

The Warm Glow of Accomplishment

By Dave Wilcox, K8WPE

I have been interested in radio and electronics from the age of 10, when my father and grandfather introduced me to it. I was a ham for a long time, but I never really got into it until I read *QRP* magazine. I was hooked on it from the first issue. I was a ham for a long time, but I never really got into it until I read *QRP* magazine. I was hooked on it from the first issue. I was a ham for a long time, but I never really got into it until I read *QRP* magazine. I was hooked on it from the first issue.

My own shack was built in 1975, and was just getting started in 1976. I was a ham for a long time, but I never really got into it until I read *QRP* magazine. I was hooked on it from the first issue. I was a ham for a long time, but I never really got into it until I read *QRP* magazine. I was hooked on it from the first issue.



Dave Wilcox, K8WPE, in his shack. (Courtesy of K8WPE)

Shortly after that, I went to the Midwest QRP League and bought a brand new Ten-Tec Regent S50. It was a great radio. I was a ham for a long time, but I never really got into it until I read *QRP* magazine. I was hooked on it from the first issue. I was a ham for a long time, but I never really got into it until I read *QRP* magazine. I was hooked on it from the first issue.

* Email: edgates1@gmail.com



SKYWARN

SKYWARN® is a volunteer program of the National Weather Service and partner organizations such as TBARG, with nearly 400,000 trained severe weather spotters. These volunteers help keep their local communities safe by providing timely and accurate reports of severe weather to the National Weather Service.

The real-time information provided by SKYWARN® spotters, coupled with Doppler radar technology, improved satellite, and other data, has enabled NWS to issue more timely and accurate warnings for tornadoes, severe thunderstorms and flash floods. SKYWARN® storm spotters form the nation's first line of defense against severe weather.

Traverse Bay Area Radio Group, TBARG, is the local Skywarn organization coordinating Ham radio operators in Grand Traverse and surround counties. This organization also coordinates with the NWS in Gaylord, MI to provide critical information about storms in this area. Here is how this organization impacts our community's safety and emergency preparedness.

Join SKYWARN Training Net on the First Wednesday of each month in the Spring through Fall. W8TCM, 146.86 MHz repeater at 8:00 PM.

TRAVERSE BAY AREA RADIO GROUP

Top of Michigan Amateur Radio Club & Thunder Bay Amateur Radio Club

2022 SWAPFEST



Saturday October 1st, 2022

9AM-1PM

Vendor setup 8AM

FREE ADMISSION

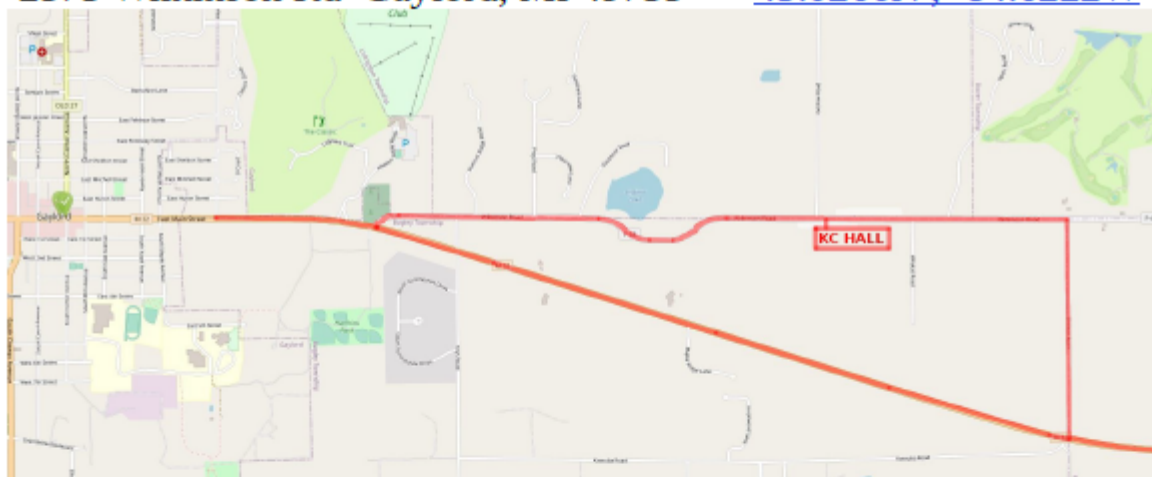
VENDOR TABLES \$10



Gaylord Knights of Columbus Hall

2573 Wilkinson Rd Gaylord, MI 49735

[45.0266N](#), [-84.6222W](#)



TALK IN 146.82- PL118.8

License Exams at 10AM - Contact John@kc9on.com 989-619-4499 for more info (Exam Cost \$15 - Please have your FCC FRN and a Photo ID)

For General Information & Table Reservations contact Joe
jhickerson6@yahoo.com 989-858-3541 (if no answer please leave message)

More information and directions at WWW.NM8RC.ORG

2022 Great Lakes Div. ARRL Sanctioned Hamfest Calendar

ARRL Sanctioned Hamfests through September 2022:

8/6/22 - Columbus Hamfest, Columbus, OH
 8/13/22 - Letcher Co, Hamfest, Whitesburg, KY
 8/13/22 - Cincinnati Hamfest, Owensville, OH
 8/20/22 - GM ARC Trunk Swap, Shelby Twp, MI
 8/21/22 - Letcher County, Whitesburg, KY
 8/28/22 - Seaway, Port Huron, MI
 9/10/22 - GRAHamfest, Grand Rapids, MI
 9/10/22 - CMARC Hamfest, Okemos, MI
 9/10/22 - Greater Louisville Hamfest, Shepherdsville, KY
 9/11/22 - Findlay Hamfest, Findlay, OH
 9/17/22 - Richmond Hamfest, Richmond, KY
 9/17/22 - Mound ARA, Miamisburg, OH
 9/17/22 - GMARC Trunk Swap, Shelby Twp, MI
 9/18/22 - Adrian Hamfest, Adrian, MI
 9/25/22 - Cleveland Hamfest, Berea, OH

For the latest detail on regional hamfests, check the ARRL web page at: <http://www.arrl.org/hamfests-and-conventions-calendar>.

Coming Highlights

August

Board Meeting	AUG 2
Sk,ywarn Training Net	AUG 3
D7 DMR Auxcom Net	AUG 10,17,24,31
Project Nights	AUG 9, 16,23,30
VE EXAM - 100 PM	AUG 13
Annual Fox Hunt	AUG 27

September

Board Meeting	SEP 6
Sk,ywarn Training Net	SEP 7
Project Nights	SEP 13,20
Club Meeting	SEP 27

October

Board Meeting	OCT 4
Sk,ywarn Training Net	OCT 5
Project Nights	OCT 11,18
Club Meeting	OCT 25

CHERRYLAND AMATEUR RADIO CLUB

President	Ernie, K8RCT	Board Member	Mark, KC8ZAP
Vice President	Glen, K8SGZ	Board Member	Drake, N8DMH
Treasurer	Ward, N8WK	Board Member	Scott, WX1J
Secretary	Hope, AA8SN		
Cherry Juice Editor	Joe, N8CN		