



# Cherry Juice

*Newsletter of the Cherryland Amateur Radio Club*

VOLUME ISSUE

51 9

September 2021

## In This Issue

Annual Fox Hunt	Pg 1
Fox Hunt Report	Pg 3
Fox Hunt Antenna	Pg 6
Antenna Testing	Pg 9
SKYWARN update	Pg 10
Jump Right In!	Pg 13
News You Can Use	Pg 14
September Calendar	Pg 15
Hamfest Calendar	Pg 16

## CARC Fox Hunt, a howling success!

*It all started with... "Why don't we make antennas...?"*

Randall Wood, KE8JWB

Continued on Page 2



Affiliated Club #1082

# Fox Hunting Tradition

## Cherryland is rich with stories



Much of our organizational memory is archived in the back issues of the Cherry Juice newsletter. And that only goes back so-far. We are pretty sure that Fox-hunts

have been a part of CARC life before the newsletter has been.

As you read the past issues, it appears that the Fox-hunt was held at various times of the year- and sometimes several times per year. In the February issue of CJ 1980, The Fox hunt was held, with only 5 people out in the snow. It was won by Ducky, W8CJT.

In the November 1982 CJ, it was reported that the October Fox hunt was held with Lou, WA0EEA, directing that it could only be held if we had 10 teams. It was held.

Fast forward to September 2008, This just in;

### ***"Fox HUNT RESULTS 2008"***

*Last month's Fox Hunt was won by the team of Ward N8WK, Hope AA8SN and Joe W8TVT. They were able to find the Fox, Jon N8UL, in about 35 minutes. Jon was hiding at the Presbyterian Church Parking Lot on Airport Access Road.*

*Coming in second was the team of Dave K8WPE, Ann KA6AYJ, and Viaggio N0CALL. Viaggio is Ann's grandson and while only 7 had a good time chasing the Fox."*

Our time-machine leaps forward to September, 2010 when the CJ reported this:

### ***"AUGUST Fox HUNT 2010"***

*There were 4 teams chasing the Fox (aka Ward N8WK) at the Fox Hunt during the August meeting. First to find the wily critter were Hope AA8SN and Phil Van Den Berge. Second and third places were wrapped up by the teams of Ernie K8RCT and Chuck W8SGR, and Joe N8OUZ and Julian N0CALL, respectively. Last but still fiercely competitive were club prez Don N8QX and Mike W8PVC. A good time was had by all and next year we hope to have more teams involved."*

Finally, here is the historical report in CJ for September 2017.

### ***"FoxHUNT 2017"***

*The 2017 Fox Hunt happened on August 20th, and Glen, (K8SGZ) was the Fox! Mike W8VPC, Joe KC8RLU and Ernie K8RCT with friend Bob Kennedy. Ward N8WK also joined in the hunt, with his family. Ward was able to find Glen in just under an hour. Congratulations, Ward! We'll be looking forward to finding you next year when you hide as the Fox!"*

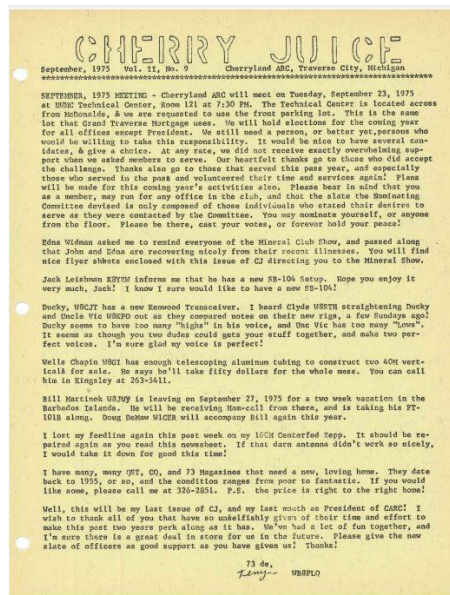
The last recorded Fox hunt was 2018. In that edition, Ward, N8WK was the Fox and was found quickly at a favorite location, Central High School.

Matt KE8BKL heard Ward on the air as the Fox, and was driving in the area, and first to arrive. N8CN, Joe was there within minutes and son Julian ran through an opening in the fence to reach the Fox.

We're not sure who was the winner, but in 2019 N8CN and Julian were the Fox and picked a particularly difficult site.

So, for at least the past thirty years familiar faces have continually placed high in the Fox finding competition. Ward, N8WK, Hope AA8SN, Joe, N8CN, Dave, K8WPE, Jon N8UL and Ernie K8RCT, Bob, K8RAK and others.

With decades of practice, it was no surprise to find Ward, Hope, Joe among those who found the Fox this year within very few minutes of each other.



January 1974 Issue of Cherry Juice

# The 2021 hunt is no exception.



Back Row: L-R  
N8CN, K8SGZ, K8RAK, N8UL, N8DMH, N8LUL

Front Row L-R  
N8WK, AA8SN, KE8JWB, K8WPE, K8RCT, Chris Blouch.

Saturday, August 24 was the umpteenth running of the Cherryland Fox Hunt. This year, however, Club President, Ernie Abel, K8RCT, sparked the club members into activity by suggesting that we get people involved by building tape-measure antennas. Which we did. On August 10, the Project Night group designed and built a prototype antenna. The next week we met on August 17 where 12 kits were assembled and tested for resonance. The following Tuesday the 21<sup>st</sup>, people brought their antennas and we used them outdoors to locate a Fox. This activity lead 14 people to participate in the 2021 hunt.

Fox hunters began arriving at 2:30 pm for the 3:00 pm start. Gathering in teams, assembling equipment, unveiling new equipment. The hunt frequency and basic protocols from the Foxes, Ernie and Jon.

Ken, N8LUL and Drake, N8DMH took bearings just a little West of North. Joe, N8CN took his bearing just East of North by about 10 degrees. Others took bearings and set off. Some teams drove in the direction of the bearing- others, drove perpendicular to the bearing to get a second that would show a delta.

One difficulty that was experienced by two teams and one radio in the Scott, Ken, Drake team, could not hear the Fox transmitting. This plagued two teams until they had to withdraw. Others could hear the Fox fine, but the closer they got, the more it overpowered their receivers. Both speak to technical learnings for next time. **But the race was ON!**



Ward, N8WK, Can we go now?



Ernie, K8RCT

With a few words of wisdom, the Foxes were off to their hiding spot. The hunters milled around and fiddled with gear for a very long 15 minutes. Some began driving. Others took a first good bearing to get started.



Dave, K8WPE

Continued on Page 4

# Fox Hunt

## Teams this year were:

**Fox:** K8RCT and N8UL

**Team 1:** N8WK, AA8SN

**Team 2:** N8CN, Solo

**Team 3:** WB8WIV and KD8ULW

**Team 4:** K8SGZ, KE8JWB

**Team 5:** K8WPE and Chris

**Team 6:** WX1J, N8LUL, N8DMH

The Foxes kept transmitting and from time-to-time dropped a hint. The hint's were pretty opaque, so it took some thinking to put a couple together to verify that you were close or not.



Team 1 gathering bearings.

Team 2, N8CN took his second bearing from the water front closer to Garfield. It pointed West. Team 6 second bearing was taken from the NMC campus on Cass St. It showed two bearings roughly 10 degrees apart, but both West-North-West.

Team 6 took another reading from the Golf Course off Cass – and it resolved the bearing discrepancy. Team 2 third bearing from the waterfront closer to Division indicated South-West-



Dave, K8WPE, Randy, KE8JWB.

Team 6 meanwhile had bee-lined to get on the North side of Front for the 4<sup>th</sup> bearing. At 3<sup>rd</sup> and Elmwood, the bearing was nearly south, with a little West. Combined with the hints, it was clear in our mind it was near Munson. Scott thought he knew where they were, so Team 6 drove back across Front street down Juniper, expecting to see them in front of Joe W8TVT's house. But no. Signal strengths were increasing the closer that team got to Munson. "The Hole, the hole." That hint lead them to the base of the Munson parking garage. The receivers were full quieting without antennas, the 3<sup>rd</sup> harmonic was S9.

Out of the car, looking, the team finally heard their voices as well as the radio. They were close

Ken continued to explore the lower levels around the garage. Scott and Drake drove to the top of the garage. To find the Foxes chatting over the railing with Ken, down below. That was at 4:12 pm. Just under an hour after the first bearing.

The frequency was 146.580 mHz simplex. The 3<sup>rd</sup> harmonic, used in close was 439.740 mHz, which isn't simple, because you need to change the step size on your handheld for 440mhz. But it certainly worked.

The Fox position was clever, but they also suffered from the lack of shade .

Team 2, N8CN rolled to a stop at the top of the parking garage at 4:25pm followed at 4:32 pm by Team 1, Hope and Ward, who arrived at the garage at the same time, but on the opposite side.

Other teams continued to battle the heat and their receivers either too sensitive, or not hearing the Fox. Thanks everyone who participated!



# Fox Hunt

Following the successful hunt with three teams finding the Fox, the hunt was called at about 5:00 pm while the Foxes and some of the hunters gathered at Sleder's on Randolph street for a cold one, some fries and a chance to cool off and discuss the hunt.

Congratulations to all who participated in this Fox hunt and the projects building up to it.

Fox hunting builds skills that can be invaluable in cases of emergency or just finding a noise source in the neighborhood. - Nice work everyone!



Glen, K8SGZ, Hope, AA8SN and Ward, N8WK, Fox Finders.



Ernie, K8RCT and Jon, N8UL, The Foxes



## Plans for future Fox hunting

We all agreed. Waiting for a full year to pass before Fox hunting again means we forget what we learned, and the materials we built gather moss. Thus, at the Board Meeting on Sept 7, it was decided to set the next Fox hunt date as October 9, 2021 – 3:00 PM at the Salvation Army – WX1J, N8LUL, N8DMH will be the Foxes.

We have analyzed the problems that some teams experienced, and found solutions – so this time, the Fall Fox Hunt will be a very competitive event- as always – the winners will be the Foxes next time.

If you were not able to be in on the hunt in August - We have included plans for a direction finding antenna, and will have kits available if you want one, just sent a note ordering one to: [wx1j@arrl.net](mailto:wx1j@arrl.net) Cost is \$12.00 including feedline and connector.

## Cherryland Amateur Radio Club



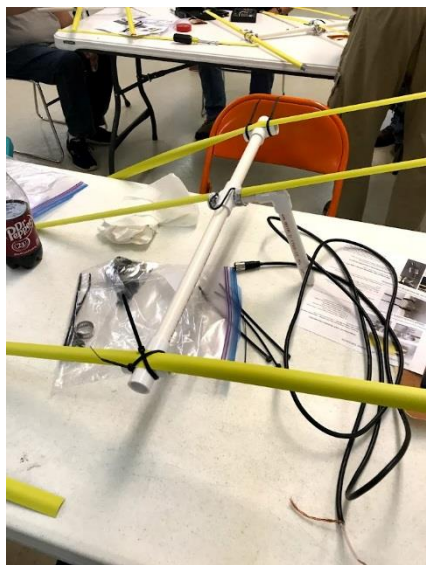
# FOX HUNT

# Fox Hunting Antenna Build Project

By Cherry Juice Staff

Ernie, K8RCT put in motion a snowball that turned into an avalanche. When trying to consider what we can do to increase participation in the annual Fox-hunt, Ernie suggested we take the two Project Nights in August to build a Fox hunting antenna.

On August 10, those at the project night discussed options and looked at several ideas. We made a prototype antenna using PVC and Tape-Measures. It worked and was resonant on 146.5 at 50 Ohms and 1.2:1 SWR.



With that much defined, the team designed and produced a kit of parts and 12 people stepped forward to buy a kit for \$10.

On August 17, 12 people met at Project Night to receive their kits and build them. Each person assembled their PVC frame, measured and cut their tape-measure elements, prepared them and installed the elements onto the frame. Everyone collaborated to help each other with questions and sometimes things just go better with four hands.



Kent, KE8SBJ, Randy, KE8JWB, Tom, WB8WIV, Duane, WD8ULW- teamwork works.

In purchasing the parts, some kits mistakenly came with a threaded PVC "T" connector, rather than the press-fit it was supposed to. Not to worry. Dave Wilcox, K8WPE grabbed the opportunity and began milling the threads away on the drill-press. That saved the day and every antenna was completed.



Dave, K8WPE – Drill Sargent

Our resident, President, Ernie, K8RCT took the helm at building feedlines and attaching connectors. Pete, K8WQK took on the crimping of connectors.



Ernie, K8RCT – The Connector

In just over an hour, 12 antennas were on tables and we began the clean-up process. When each antenna was completed, it was checked with an antenna analyzer for resonance, impedance and swr. All passed nicely. Pretty good for our first build project in many years.

# CARC Fox Hunter antenna build

This antenna design began with a review of Fox hunting antennas, and most closely that of Joe Leggio, WB2HOL. His design prediction was 7.3dB gain and a null of greater than -50dB. It is this NULL that we are looking for. But the antenna can provide substantial performance over a rubber ducky antenna for trying to hit an elusive repeater. This design is robust and will give you good performance in portable situations.

## Assemble the physical beam first.

1. Take a length of  $\frac{1}{2}$ " ID Schedule 40 PVC and using a miter box and saw, or a chop-saw, cut parts A and B.

A = 17.9 cm or 7 -  $\frac{1}{16}$ "

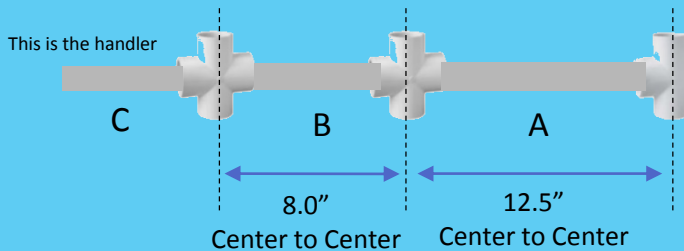
B = 29.1 cm or 11 -  $\frac{1}{2}$ "

Both have been measured to fit tightly in the connectors creating the desired distances between center-lines on the connectors- of 8" and 12.5". (C) the handle is length of your choice

2. Connect the parts securely, but without pvc cement.

5. Check your measurements for spacing between connector centers.

This is the handler



## Next cut the Tape Measure Elements.

1. Take a pair of scissors or tin-snips  
Cut 4 elements..

Reflector = 41 -  $\frac{3}{8}$ "

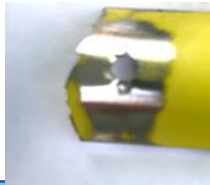
Director = 35 -  $\frac{1}{8}$ "

2 Driven Elements = 17-  $\frac{3}{4}$ " each

2. Trim or sand the cut edges – very sharp.

3. Wrap electrical tape around the outer ends for safety

4. Sand the paint off the inner ends of the driven elements.



Reflector = 41- $\frac{3}{8}$  inches

Two Driven Elements

17- $\frac{3}{4}$  inches

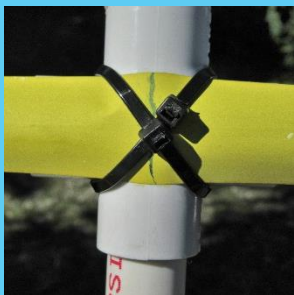
17- $\frac{3}{4}$  inches

Remove paint here

Director = 35- $\frac{1}{8}$  inches

## Zip tie the Director and Reflector Elements

1. Attach the Reflector Element to the rear-most 4 way PVC connector. Use an X configuration for stability
2. Attach the Director Element to the foremost T PVC connector – Use a parallel connection method to avoid bending the element.
3. Next page, connecting the Driven Elements.



Reflector Element

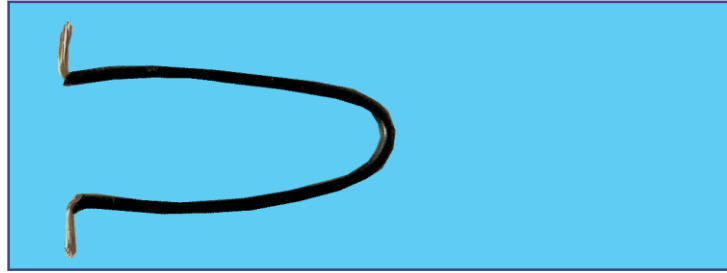


Director Element

# CARC Fox Hunter antenna build

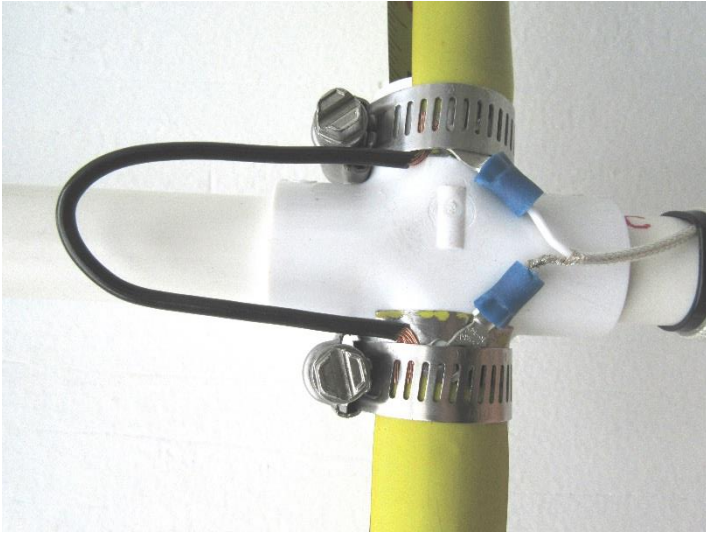
## Create a hairpin matching stub

1. This antenna is driven with a hairpin matching stub
2. Cut 5 inches of AWg 12-14 wire, bend into a U shape.
3. This will be attached to the Driven elements at the same time you attach the Feedline.



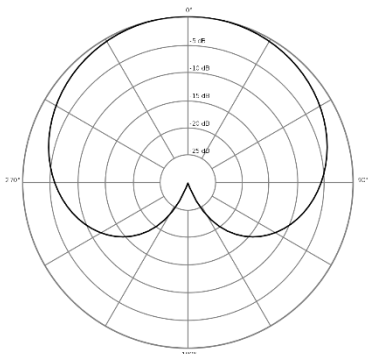
## Attach the Feedline, hairpin to the driven elements.

1. Determine how you want the feedline attached to the boom. Zip tie is one option, some people drill holes and route it through the center.
2. Use hose-clamp connectors to secure the sanded end of the driven elements, the hair-pin match and feedline to the center 4 way connector..
3. This compression connection is stable.



## Create a Balun if you wish.

1. If you intend to transmit with the antenna, a current balun is a good option. Wrap the feedline 6 – 7 times around the handle, or between the driven elements and the Reflector element. Use Zip Ties or holes in the PVC to hold the Balun tight.
2. If your primary use of the antenna is for Fox hunting, the Balun is not needed for receive.



This antenna creates a cardioid pattern, with approximately 7.3dB gain forward and a deep null, greater than -50 dB at the back (behind the Reflector.) It is this **NULL** that we are looking for when Fox Hunting- The NULL gives better direction when the Fox signal “drops out” than it does when you listen for the strongest signal using the front.

# Fox Hunting Antenna Testing Event

## And then...

At Project Night, Tuesday August 24<sup>th</sup>, those who built tape-measure hunting antennas, brought them to the Salvation Army. Ernie, K8RCT gave an overview of Fox-hunting using these antennas, ignoring the 7.3dB gain on the front end of the antenna, and focusing instead on the -50dB null at the back of the antenna. Turning the antenna around and searching for the signal to drop-out gives a clearer direction of where the Fox is located.

The group of 12 brave souls went back-outdoors. Scott, WX1J walked a distance away from the Salvation Army parking lot- and began broadcasting at 50 milli-watts on a 2 meter simplex frequency. While hiding in plain site- the “Hounds” began to experience the signal dropping out when they pointed their antenna back-side toward the “Fox”. In short-while, everyone got the signal pointed in, and we regrouped to discuss the exercise.



Mark Kristoff, KC8ZAP demonstrates his Inferometer to Ken Semproch, N8LUL

We learned, through this exercise that it takes a little patience to define the bearing, based on a signal dropping out, but that is easier than defining the peak signal strength with a Yagi, due to the 20-30 degree sensitivity area of the Yagi nose.

We also found there are other strategies for finding the direction.

Mark, KC8ZAP, brought his home-brew Inferometer and demonstrated how it measures the delta between signals hitting the left antenna vs the right antenna. When there is a phase shift, because one antenna is closer, there is a tone-pitch on the radio. When perfectly aligned, no tone. This gives bearing accuracy of approximately 1 degree.



CARC Project Night- Fox Hunting Practice



Drake, N8DMH

And then when one is in close to the Fox, we can use our body to shield the antenna from the signal, to find the direction. Also moving to the 3<sup>rd</sup> harmonic works, as does using an attenuator to reduce the strength of the signal going into the receiver. All in all more than one way to skin a Fox.



# SKYWARN

## ***TRAVERSE BAY AREA RADIO GROUP***

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.

*Continued on next page*



# WHEN THE THUNDER ROLLS

By, Mike Vandermay, KD8REH  
Grand Traverse Skywarn Coordinator

**I**n 2012 the Grand Traverse Area Skywarn group was created with the goal of having a group of trained Skywarn spotters in place before severe weather struck, to gather reports of severe weather and damage and to pass the information along to the Nation Weather Service, NWS, and local authorities in a timely manner.

This year we have gone through a few changes in our structure. I would like to introduce two new net control operators, Drake, N8DMH and Ken, N8LUL.



Drake, N8DMH



Ken, N8LUL

Over the years, the data we have provided the National Weather Service has been invaluable. Since the radar in Gaylord can't see below a certain level we have to be the eyes and ears for them. Before a net is activated we are watching radar imaging as well as being in contact with the NWS letting them know that if severe weather does happen we will have a group of trained spotters ready and that's where you come in.

Net control will activate a net and place it into a condition and begin to take check in's. As the storm progresses, if it becomes more severe the net will become a directed net and net control will call on certain stations that are located in the affected area to give real time reports. This is where technology comes into play.

## **Future goals for Skywarn in Northern Michigan.**

To improve our ability to communicate with the broad area of Northern Michigan and beyond, we intend to adopt additional technological tools.

**Working with** Charlevoix Cheboygan Emmet counties Public Service Communications Organization, **CCECSPCS**, will be a big part of the coming years. During large scale events that will impact multiple counties in Northern Michigan linking the 146.860 repeater to the 442.375 repeater in Traverse City, providing large area coverage and it also provides an extra resource if extra net control stations are needed. This will also be accomplished using DMR to provide interoperability with net control stations.

**Hamshack Hotline** is a free dedicated Voice over IP (VoIP) phone system dedicated to serving and supporting amateur radio. It is very easy to set up, and inexpensive surplus phones are easily sourced from sites such as e-Bay.

*Continued on Page 12*



These phones can be placed in strategic locations such as EOC's and Hospitals. Our goal is to place one of these phones in the NWS Gaylord office so the on duty crews can listen to our nets and receive reports as they come in. it also allows for instant communions with a meteorologist which is something we didn't have before. Our Bridge Number is 1440 for those that have a phone on the system

**DMR** or Digital Mobile Radio is a growing form of communication, using either a hotspot or a repeater linked to Brandmeister or TGIF gives you the ability to talk all over the world or to stay in communication during severe weather. Once a net is activated we will also activated a net on our own TGIF Talk-Group, **Northern Michigan Skywarn** and the talk group number is 41997.

Since this gives us the option of district wide communications we can coordinate with CCECSPCO and those that have DMR radios and want to monitor or check in if they do not have reliable access to the 146.860 repeater.

**System Fusion** is going to bring a new level of interoperability to Skywarn and emergency communications. Drake, N8DMH is creating a link between System Fusion and DMR and in the future digital to analog. This will provide another tool for emergency communications for those that don't have DMR and want to check into the digital nets.

## What can I do to help?

Having a home weather station or portable weather instrumentation is a great resource which can provide wind speed, direction, dew point, and rain fall. Having accurate data will ensure that the Nation Weather Service is getting accurate reports.

If you do not own a weather station here are a couple of great stations we can recommend. For household weather stations the AcuRite 5 in 1 which retails for \$160



and the La Crosse V40A-Pro which retails for \$177.



If you are looking for a simple handheld meter the Kestrel 3000 which retails for \$210 measures relative humidity, dew point, air and water temperature, current and average wind speed and maximum wind speed.

For those that would like to join SKYWARN, we will be meeting this month during the September **TBARG general meeting on Wednesday, September 22<sup>nd</sup> at 7:00 pm at the New Approaches Center, 5123 N Royal Dr, Traverse City, MI 49684.**

There will be pizza for those who attend. We will go over DMR, Hamshack Hotline, Net operations, weather stations and other new and exciting ventures.

Up coming training will be spotter safety and mobile spotting techniques. Details to be announced.

If someone is interested in being involved with Skywarn, find more information at:

<https://www.weather.gov/SKYWARN>

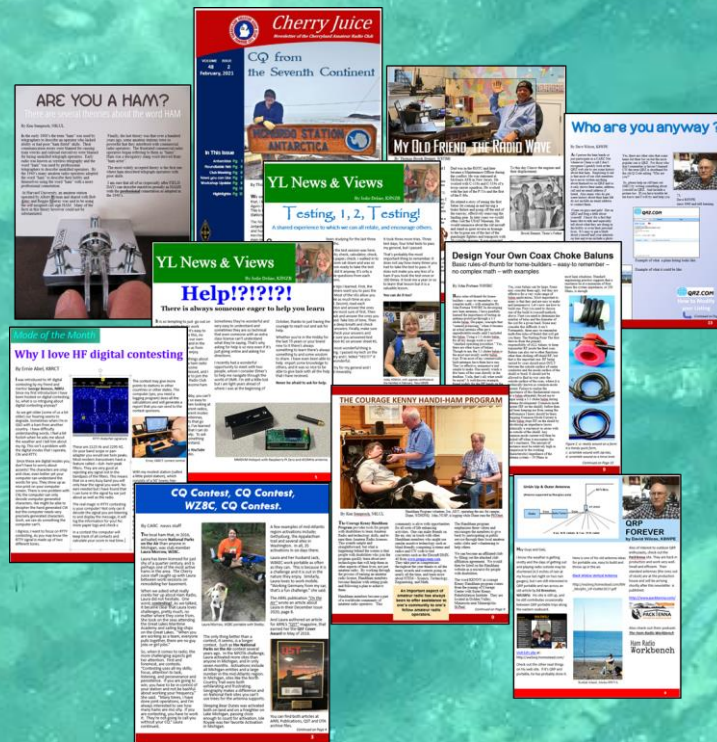
For training courses you will find this meted training site

[https://www.meted.ucar.edu/education\\_training/course/23](https://www.meted.ucar.edu/education_training/course/23)

If they are wanting to be more involved with nets and training they can contact Mike Vandermay, KD8REH at [kd8reh@yahoo.com](mailto:kd8reh@yahoo.com).



# Jump In! The water's fine!



## Invitation to share your story

### Have you ever wanted to see your idea published?

Perhaps you thought it's not interesting or perhaps just not something you think is important? Here's a news flash. It is interesting and something that others would enjoy reading.

Over the past year, we've published stories and articles written by your fellow hams. And have received compliments on each of them.

We here at the Club Newsletter, *Cherry Juice* invite you to send us your story, your design of a part, your experience to share.

We'll take it from there - to create artwork around your story's main points, and to use photos or illustrations to make them pop!.

How to start? Just jot down the main points of your story- key facts or key concepts. Tell us the beginning, high point, low point and end. We can interview you to get the story pulled together into an article that will be interesting and compelling.

Or you can write, submit and edit your own work as you wish. We're here to help when and how you need us.

### You are in control

Send us your idea, let's discuss it and do some work on it- If you don't like it, it doesn't get published. It won't be published until you are happy with it.

Let's work to make your idea work.

### Contact:

Scott at [wx1j@arrl.net](mailto:wx1j@arrl.net)

Phone: 248-495-3665

# News you can use

## Super Saturday September 18th

### Annual Cadillac Hamfest

starts at 8:00 am until Noon at the:  
Cadillac Junior High School  
500 S. Chestnut St.  
Cadillac, MI 49601

Visit [Cadillac HamFest](#) for more information. \$5.00 for adults, Kids under 17 are FREE.

[Download the Hamfest Flyer Here](#)

### W8TVT

### Memorial Gathering



Then drive North to Traverse City for the **Joe Novak, W8TVT** celebration of life held by Joe's family on Saturday, September 18, from 2:00 pm until 4:00 pm at **Reynolds-Jonkhoff**. 305 6th St, Traverse City, MI 49684

Everyone is welcome to attend.



### Ham Radio volunteers are needed at Empire Hill Climb event.

**SATURDAY, September 18,**  
Empire Michigan.

The Event Organizers already have 5 committed and confirmed Amateur Radio volunteers, but they need 3 more. Volunteers would need 2 Meter Portable radios with sufficient batteries to last the day. They will be stationed standing near corners along the race course. It will be shaded, but uneven terrain and they will be on foot or carrying their own portable chairs. It is a bit of a long day. They need to meet at the work meeting at 8:30 am. The course closes down around 5:00 pm. More information about the Empire Hill Climb event. <http://empirehillclimb.racing>

This is an automobile race- with a wide variety of race-cars from Circle Track, to Formula, to Stock. You'll see a lot of racing action.

**If you can volunteer as a Ham Radio Operator**

Contact: Frank, KC8FEV  
[FSiepkner@cherrylandelectric.coop](mailto:FSiepkner@cherrylandelectric.coop)

## GREAT LAKES CONVENTION UPDATES:

The Kentucky Colonels Amateur Radio Club will be hosting the Great Lakes Division ARRL Convention on **October 2**, at Western Kentucky University's Knically Center in Bowling Green, KY.

Forum activities will parallel the flea market and include DX, Contesting, Club Building, Winlink, Mesonet, Digital Voice, Mesh Networking and a special Ladies forum .

David Minster NA2AA, ARRL CEO will be the guest speaker at the formal luncheon at 1:30 PM.



Time will be allocated Friday evening for those wishing to set up flea market tables in the Knically Center building while the club will be hosting a "HamJam" live Kentucky Bluegrass musical event from 4 to 8 PM CDT at the center. Food service will be available for the HamJam. Bring a lawn chair and enjoy.

Details and event updates can be found at: <https://ky4bg.com/>

Hotel/motel accommodations in the area can be found at:

<https://www.wku.edu/conference/accommodations.php>

# CARC CALENDAR

Here's the calendar of events for September. Watch the web-site, [Cherrylandarc.com](http://Cherrylandarc.com), Facebook, Twitter and Instagram each Monday morning for updates to *This Week in CherrylandARC*.

## SEPTEMBER 2021

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
<b>29</b> <b>SMASH Net</b> 3.935 mHz 9:00 AM	<b>30</b> <b>TBARG &amp; MESH</b> Nets 146.86 mHz 8:00 PM	<b>31</b>	<b>1</b>  <b>SkyWarn Net Training</b> 146.86 mHz 8:00 PM	<b>2</b>	<b>3</b>	<b>4</b>
<b>5</b> <b>SMASH Net</b> 3.935 mHz 9:00 AM	<b>6</b> <b>TBARG &amp; MESH</b> Nets 146.86 mHz 8:00 PM	<b>7</b> <b>Board Meeting</b> At Salvation Army HQ 7:00 PM	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>
<b>12</b> <b>SMASH Net</b> 3.935 mHz 9:00 AM  <b>QSO TODAY</b> Hamfest Day 2	<b>13</b> <b>TBARG &amp; MESH</b> Nets 146.86 mHz 8:00 PM	<b>14</b> <b>Project Night</b> At Salvation Army HQ 7:00 PM	<b>15</b>	<b>16</b>	<b>17</b>	<b>18</b> <b>Cadillac HamFest</b> 8:00 AM Cadillac  <b>Joe W8TVT</b> <b>Celebration of Life</b> 3:00 PM Traverse City
<b>19</b> <b>SMASH Net</b> 3.935 mHz 9:00 AM	<b>20</b> <b>TBARG &amp; MESH</b> Nets 146.86 mHz 8:00 PM	<b>21</b> <b>Project Night</b> At Salvation Army HQ 7:00 PM	<b>22</b> <b>TBARG Member Meeting</b> at New Approaches Center 7:00 PM	<b>23</b>	<b>24</b>	<b>25</b>
<b>26</b> <b>SMASH Net</b> 3.935 mHz 9:00 AM	<b>27</b> <b>TBARG &amp; MESH</b> Nets 146.86 mHz 8:00 PM	<b>28</b> <b>Club Meeting</b> At Salvation Army HQ 7:00 PM	<b>29</b> <b>New Ham Workshop</b> 7:00 - 9:00 at Salvation Army HQ	<b>30</b>	<b>1</b>	<b>2</b>

# 2021 Great Lakes Div. ARRL Sanctioned Hamfest calendar

9/11/2021 - Greater Louisville, Shepherdsville, KY  
 9/11/2021 - GRAHamfest, Grand Rapids, MI  
 9/12/2021 - Findlay Hamfest, Findlay, OH  
 9/18/2021 - Cadillac Hamfest, Cadillac, MI  
 9/18/2021 - Richmond Hamfest, Richmond, KY  
 9/18/2021 - GMARC Trunkfest, Shelby Twp, MI  
 9/18/2021 - CMARC Hamfest, Okemos, MI  
 9/18/2021 - Mound ARA Swapmeet, Miamisburg, OH  
 9/18/2021 - Miami Co Swap Meet, Troy, OH  
 9/19/2021 - Adrian Hamfest, Adrian, MI  
 9/25/2021 - Paintsville Hamfest, Paintsville, KY  
 9/26/2021 - Cleveland Hamfest, Berea, OH

10/2/2021 - VetteCity/Great Lakes Convention, Bowling Green, KY  
 10/9/2021 - Midland Pop-up Trunk Sale, Midland, MI  
 10/9/2021 - Northwest Ohio ARC Hamfest, Westminster, OH  
 10/16/2021 - Muskegon Color Tour Swap, Muskegon, MI  
 10/17/2021 - Kalamazoo Hamfest, Kalamazoo, MI  
 10/31/2021 - Massillon Swap, Massillon, OH

11/6/2021 - Grant ARC Hamfest, Georgetown, OH

12/4/2021 - Fulton Co Winterfest, Delta, OH  
 12/5/2021 - L'anse Creuse Swap, Troy, MI

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

Reproduced from the ARRL Michigan Newsletter September 2021



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[NEWSLETTER ARCHIVES](#)

## Coming Highlights

### September

New Ham Workshop	SEP	1
Board Meeting	SEP	7
Sk,ywarn Training Net	SEP	8
Project Nights	SEP	10,14
Club Meeting	SEP	24
Shed Roofing Job	SEP	25
Project Nights	SEP	31

### October

Board Meeting	OCT	5
Sk,ywarn Training Net	OCT	6
W8TVT & W8SGR	OCT	6
Fall Fox Hunt	OCT	9
Project Nights	OCT	12,19
Club Meeting	OCT	26

### November

Board Meeting	NOV	2
<b>VE EXAM</b>	<b>NOV</b>	<b>6</b>
Project Nights	NOV	9, 16
Club Meeting	NOV	23
Project Nights	NOV	30

## CHERRYLAND AMATEUR RADIO CLUB

President	Ernie, K8RCT		
Vice President	Glen, K8SGZ		
Treasurer	Ward, N8WK		
Recording Secretary	Hope, AA8SN	Board Member	Mark, KC8ZAP
Communicating Secretary	Joe, KC8RLU	Board Member	Drake, N8DMH
Cherry Juice Editor	Joe, N8CN	Board Member	Scott, WX1J

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