



THE CHERRY JUICE

Newsletter of the
CHERRYLAND AMATEUR RADIO CLUB - TRAVERSE CITY, MICHIGAN



ARRL Affiliated Club #1082

Club Officers

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Joe Schnaidt, KC8RLU

Cherry Juice Editor

Joe Erlewein N8CN

Club Repeaters

W8TCM/R 146.86- (PL 114.8)

W8ZTB Memorial Repeater

W8TCM/R 442.50- (PL 114.8)

W8NGH Memorial Repeater

Club Radio Nets

MESH NET

Monday Evening Social Hour

Each Monday, 8pm

146.860 MHz (-) (PL 114.8)

SMASH NET

Sunday Morning Amateur

Social Hour

Each Sunday, 9am

3.935 MHz

Stay Informed! Check out the
club website:

www.CherrylandARC.com

UPCOMING EVENTS

Club Meeting September 25th

Program: FT8 and HF Digital Modes - John Clements KC9ON

John is back! And he has all his 1s and 0s arranged in formats optimized for your reception!

If you've never done HF Digital before, or haven't recently, you won't want to miss this!

John will be speaking about and demonstrating FT8, which is the newest of the digital modes to follow the ranks of JT4, JT9, JT65, and a few others.

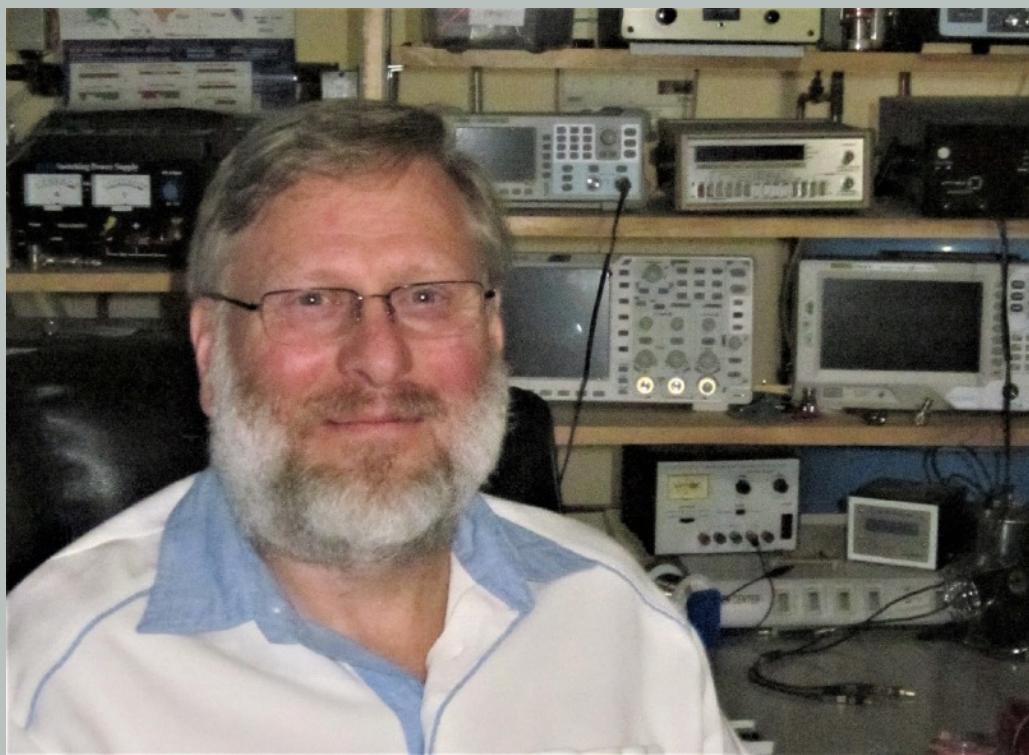
In addition to being a modern-ear ham-hacker extraordinaire, John has a website you should visit at <https://kc9on.com> - there you can view notes, resources, and take a look at some of the kits and creations he has available for sale in his shop. We're grateful to have John speak with our group once again! Thanks John!

Tuesday Project Nights

With very few exceptions, CARC members meet on Tuesday Nights at 7pm in the club station.

This is in the lower level of the Salvation Army Building, at the NE corner of Barlow and Boone.

The address is 1239 Barlow St., Traverse City, MI 49686. Bring a project you're working on or just join the crew for fellowship and small talk.



Don't miss John's presentation on FT8 this month!

Check out John's Facebook, Twitter and Web Page!



Field Day 2018 Report

ARRL Field Day 2018 is now History! And an uplifting, fun, and exciting historic tale it is! If you were fortunate enough to be able to participate, then you already are aware of some of the cool Radio things that happened during the weekend-long event.

The fun began on Tuesday June 19 when many gathered at the Parker Farm to help with inventory and staging. Those involved were AA8SN, KC8RLU, WD8NRZ, KC8ZAP, K8RCT, NU8A (Ex W8APT), N8CN, K8SGZ, KE8CVM, K8WPE, and W8TVT. Don Parker WD8NRZ was instrumental in making a quick repair on the Club's Equipment Trailer; a tire was flat!

The flat tire had a breached sidewall, but it just so happened Don had a replacement. Power tools were need to remove the bolts, and thanks to Don's preparedness (and healthy supply of elbow-grease) the replacement was made in no time! K8WPE pulled that trailer to the Field Day site. K8SGZ pulled the generator trailer. KC8RLM, K8RCT, NU8A, N8CN, K8SGZ, W8TVT KE8CVM and K8WPE drove to the Field Day site to set the trailers and cover the generators.



On Friday Afternoon, June 22, The following showed up at the Field Day site to help set up the tents, stations, power cables and antennas: K8RCT, AA8SN, KD8EDC, Jim Whall, KC8VSU, K8WPE, KE8CVM, W8TVT, K8SGZ, N8WK, K9JP, KA8RMA, NU8A, N8CN, KB8RDI. A very special meal was provided by K8SGZ!







On Saturday June 23, many people joined the fun. We had a bunch of visitors (some from out of town) as well as members, operators, and members of the general public (39+ people). That list includes: KB8IWO & Joyce, N8WK, AC8WM, Eric Quinting, WZ8C, W8KEC, Travis Morrow, AA8SN, KD8EDC, K8RCT, N8WK, K9JP, K8WPE, KC8VSU, WD4LKY (Charlie), KB4BDQ (Judy) (From Polk



joined the 2nd day's excitement including: K8WPE, N8CN, W8TVT, N8WK, N8KV, K8RCT, KC8VSU, AA8SN, K8DT, KD8EDC, W8QKP, K9JP, W8RAK, and KC8RLU.

After the last dits and dahs, those who stuck around to be the "Clean Up Crew" included: K8SGZ, W8QKP, N8WK, W8TVT, AA8SN, N8KV, K8RCT, NU8A, KD8EDC, K8WPE, N8CN, K9JP, and KC8RLU.



City, FL), K8SGZ, KE8CVM, W8TVT, N8FUN, W8RAK, N8CN (with Julian, Audrey, Lydia and Gabe Findeley), W8MSE, KC8RLU, K8VY, NU8A, KY8H, KB8RDI, N8KV, WD8REC, K8RMA, K8DT, and W8QKP. Filling and wonderful meals were provided by Glen K8SGZ with the help of a few others.

Into Sunday June 24, we had "Overnighters" who camped out: K8SGZ, N8KV, and KC8VSU. Others



Everything cleaned and loaded by 3pm. K8WPE and K8SGZ took the trailers back to the parker farm (with help from others).

Hope AA8SN submitted the logs and our report this year. We were able to claim a few bonus points for having a GOTA station, Safety Officer, using 100% emergency power, having media publicity and press releases (did you catch the 9&10 TV spot?), Satellite contacts, a solar-powered station, youth participation, a visit from an elected official, and copying the ARRL Bulletin. With 1330 bonus points to complement our 534 QSOs (294 were CW for 588 pts), our score was 2244.

Thanks so much to Joe W8TVT for keeping a record of the days' events and a pretty remarkably complete list of those who snuck into the field! If you've never seen a Cherryland ARC Field Day, check out the video from our [Field Day in 2016](#).

On **page 16**, Please see a copy of the article from the **Straight Key Century Club's** newsletter "**Rag Chew**," which features a write-up of the Cherryland ARC's Field Day as **contributed by our own Jeff K9JP**. Thanks Jeff!

July Club Picnic

The club picnic this year was fantastic! There was a great turn-out and once again Chef Glen K8SGZ did not disappoint! There were many dishes-to-pass brought to the event, and everyone ate well.

Sadly, the author was negligent taking pictures of people eating, and spend most of the time on the Lake Michigan shoreline entertaining kids with Ernie K8RCT's grandchildren. By the time we got back to the awning, the event had ended, and Ernie most definitely got his second shower of the day. -n8cn



August Fox Hunt

The official Cherryland ARC August Fox Hunt was a success! Ward N8WK was the fox, and actually hid in one of his "old haunts" over by the Central High School. Hunters included K8RCT, AA8SN, N8CN and Julian, Glen K8SGZ and Bob (I've forgotten the callsign - bad editor!).

Matt KE8BKL was the first to find Ward, having heard him on 146.52 while driving by. This was sooner than 20 minutes into the hunt. Matt was not one of those starting from the Salvation Army building on Barlow. More than 40 minutes into the hunt, Julian (N8CN's son) captured the fox on-foot. N8CN, hunting with only an older ICOM HT, happened to be driving on the NMC main road near the parking lots, and caught sight of a "suspicious vehicle" which was across from the college. A tall fence with an opening made it possible for Julian to capture the fox on foot as N8CN drove around the block to the High School entrance.



After-Hunt libations were held at Sleder's as the "True Winner" of the hunt was debated - Julian? Or Matt? To find out — be sure to catch the next CARC Fox Hunt!



-n8cn

Amateur Radio Meeting (9/17) for a text message system in Leelanau County

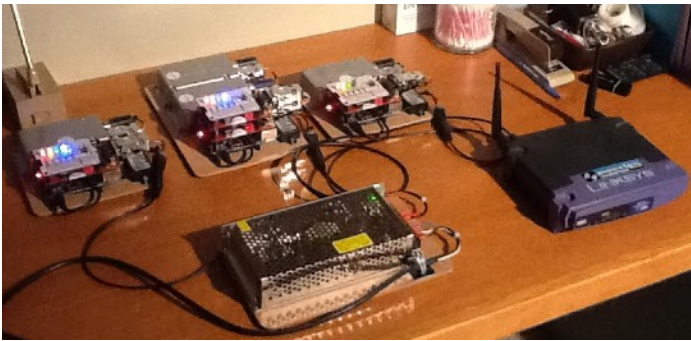
All are invited to a demonstration meeting!

Time: **Monday 9/17/2018 5 pm to 7 pm**

Location: Leelanau EOC in the basement of the Sheriff office government drive off M-204 west of Suttons Bay.

Questions: Jim Duff 231-386-2201 or 145.390 Leland repeater.

More Info: see insert on **page 17** - "Proposed Ham Radio Text Messaging System for Leelanau County."



Text Messaging is important for Emergency Communications EMCOMM. This is where Hams can help if we are ready and prepared. The system uses a Raspberry Pi, a TNC, a radio, and a few other things to make it all work. (power supply, antenna, case, and practice!)

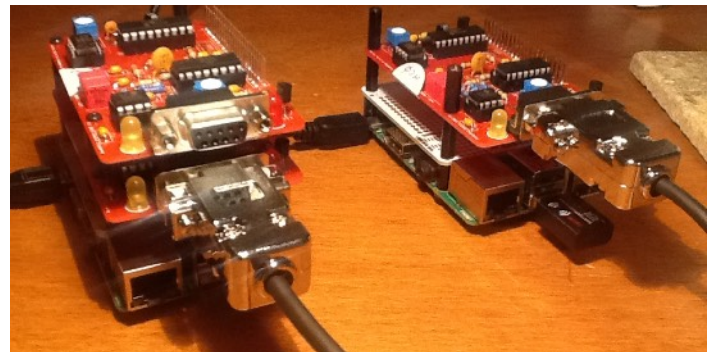
Estimated costs to get a 'typical' operator station is under \$200. This is designed to provide point-to-point connections within the typical simplex range of radio propagation.

Jim Marco WB2LHP has three complete working setups that will be demonstrated. (One can act as a repeater / relay). Here is your opportunity to see and try before you build a really nice messaging system (easier then the 1990's attempts). It is even like a web page !!!

No need to bring anything, Just your minds.

As background information, the system has been developed by TARPEN, a group of Amateur Radio operators. A link to their web site is:

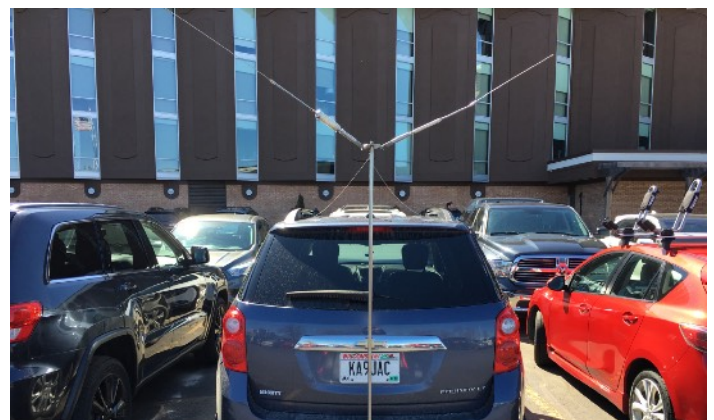
http://tarpen.net/t/packet_radio_networking.html



County Hunters

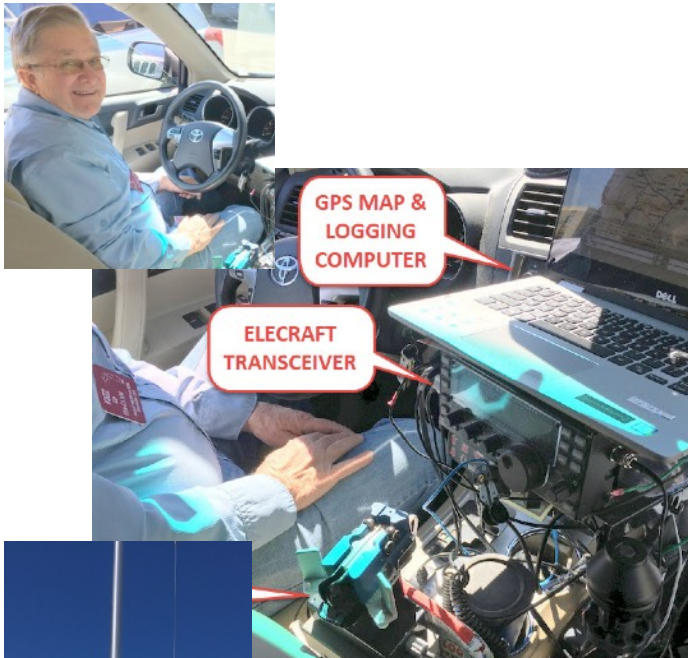
Earlier this year, MARAC (Mobile Amateur Radio Awards Club) held their 12th annual Michigan Mini conference at the Traverse City Holiday Inn.

MARAC members, also known as County Hunters, try to work as many of the 3077 U.S. counties as possible. I'm sure that non-ham visitors to the Holiday Inn that weekend wondered what was happening with all the unusual antennas on so many vehicles!



Amazingly, some hams have achieved the 3077 county milestone multiple times. Former area resident Ed K8ZZ is one of them, and was in town for the conference. During a break in the activities he gave me a tour of the CW station in his vehicle. Yes, CW!

The accompanying photos show Ed's station including his console-mounted keyer, Elecraft transceiver, and laptop computer for logging and GPS map tracking. Ed has generously offered to do a county hunting presentation for CARC during his next visit in 2019.



Christmas In July a Success! Thanks to YOU!

The Cherryland ARC ran the Red Kettle once again for the Salvation Army's Christmas In July drive this year. Here is a note from Ruth Blick to the club:

I thought I would send this letter via email so you could share if you would like and will also drop it in the mail!

You guys did amazing on Saturday - only one other Red Kettle beat yours and only by \$5. Third highest kettle collection in the past 3 years!

Thank you! It is always a pleasure to work with you and club members!

Ruth Blick
Director of Community Resource
Development
The Salvation Army - Traverse City

Please see the **letter on page 18** which the Salvation Army presented to the Cherryland ARC. Thanks to all who participated!

-n8cn



2018 Simulated Emergency Test (SET): Oct 13 ARRL Michigan Section

Those interested in participating in the TBARG group for the upcoming SET should contact Glen Johnson K8SGZ soon.

The scenario this year is quite interesting, involving escalating “computer hacking” and security breaches ultimately leading up to compromise of core infrastructure elements.

As communication fails, Amateurs take part in establishing “communication circuits” to all Michigan counties. This from **John McDonough WB8RCR, ARRL Section Emergency Coordinator for Michigan:**

The participant guide for this year's SET is now online. A direct link to the PDF is:

<https://tinyurl.com/y87u3xrw>

If you need another format, or are interested in other documents, go to:

<http://ares-mi.org/Library.php>

Exercise documents may be located by clicking on "Collection Here" under the heading "Exercise Documents" (about halfway down the page). Then select the year of interest.

Most documents are available not only in PDF, but also in several other formats which might be more friendly to your device.

If you have questions or concerns, come to the weekly net, 1700 Sundays on 3.932, so everyone can share in the information.

You Never Know When It's Your Time...



The National Institute of Standards and Technology (NIST) has proposed eliminating its time and frequency standard radio stations (WWV, WWVB and WWVH) in an effort to [reduce its budget](#) for the 2019 federal fiscal year. Though not “a part” of Ham Radio, the stations provide “always-on, absolutely accurate” time of day and signal-references for Amateurs and other radio operators on multiple bands and frequencies. Unless the funding is restored by Congress, it’s probable that you’ll hear nothing but static attempting to tune-in the NIST time frequencies.

Aside from Hams, SWLs, and the like, also affected will be devices that use embedded receivers to set their own time, such as NOAA receivers, desk/wall clocks, and even some watches among other devices.

In the link above, it will quickly become obvious how confusing budgeting can be for an organization like NIST. But, fear not! You can help! Contact your representatives, [sign a petition](#), and [get involved](#). If NIST pulls the plug on the WWV stations, you can always [construct your own internet-driven or gem-driven “WWV Hotspot”](#) (or μ WWVB) like Anish Athalye did.

Alpena Swap Oct. 6!

Hello Fellow Amateurs and Friends,

Since the Great Lakes Ham Con was canceled, the Thunder Bay ARC decided to hold a SWAP on October 6th. This is our 5th year of having a SWAP meet and we are hoping that you can attend. Attached is a PDF brochure for the SWAP and the same one can be found at ThunderBayARC.org. You can contact Jim, W8LI (SlimJimSR@charter.net) or Dick, W1UP (w1up@ThunderBayARC.org) for more information. (see attached flyer, page 19)

Please **share this information** with your clubs and fellow Amateurs. This SWAP is ARRL Sanctioned.

Dick, W1UP
TBARC Secretary

Hurricane Season

As Hurricane Florence made landfall, the Hurricane Watch Net was active. The HWN is a group of amateur radio operators who are trained and organized “to provide essential communications support to the National Hurricane Center during times of Hurricane emergencies.” Much like SkyWarn nets,

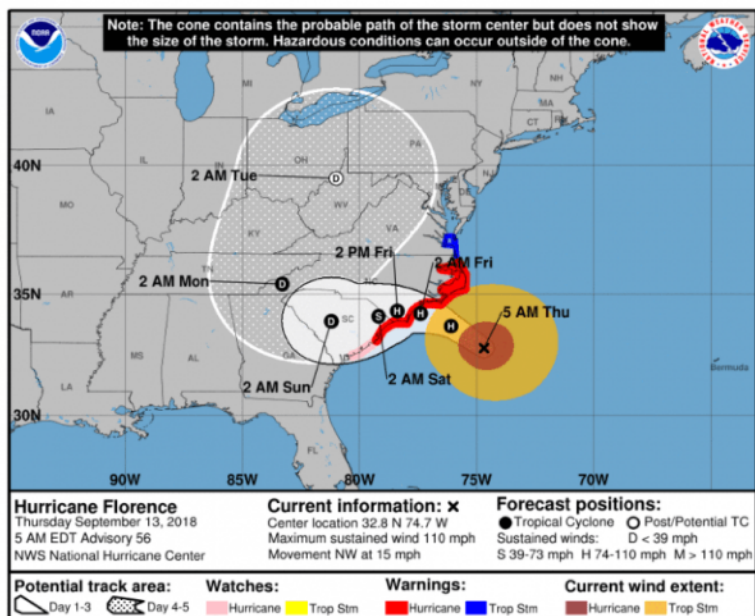
the HWN focuses on “ground truth” observations.

The HWN operates on 14.325 MHz (upper sideband) during the day and 7.268 MHz (lower sideband) at night. The net operates in both English and Spanish. The HWN sometimes operates on both frequencies if propagation allows. *Please avoid using 14.325 MHz and 7.268 MHz anytime the HWN has been activated!*

The place to go for information (and streaming audio, if you don’t want to tune in on your HF or SWL radio), is <https://www.hwn.org/>. You might also be able to tune in the HWN with a shortwave radio (with BFO capability) or via numerous types of SDR Dongles, or even some of the [online WebSDR](#) radios.

Digital Mobile Radio Hotspots May Be Interfering with Satellite Uplinks, AMSAT Reports

This week, AMSAT News Service (ANS) cited an August 27 report from AMSAT Vice President-Operations Drew Glasbrenner, KO4MA, saying that a digital mobile radio (DMR) signal has been interfering with the AO-92 (Fox-1D) satellite's 435.35 MHz uplink frequency.



Pi-Star Digital Voice -

Dashboard |

Gateway Hardware Info		
Hostname	Kernel	Platform
pi-star	4.9.35-v7+	Pi 3 Model B (1GB) - En

Control Software	
Setting	
Driver Software:	<input type="radio"/> DStarRepeater <input checked="" type="radio"/> MMDVMHost (DV-M
Driver Mode:	<input checked="" type="radio"/> Simplex Node <input type="radio"/> Duplex Repeater
Apply Changes	

General Configurati		
Setting		
name:	pi-star	Do not add suffixes
callsign:	M1ABC	
Frequency:	431.075.000	MHz
mode:	50.000	degrees (positive v
offset:	0.000	degrees (positive v
A Town, LO4T0R		

Glasbrenner said hotspots, repeaters, terrestrial simplex, and "anything not satellite" should never transmit in the segments 145.8 - 146.0 MHz or 435 - 438 MHz by international band plan.

Setting		Gen
name:	pi-star	Do not
Call sign:	KE0FHS	
/DMR ID:	3108883	
ID:		
o Frequency:	433.300.000	MHz
tude:	40.227	degree
itude:	-105.27	degree

Well-known satellite enthusiast Patrick Stoddard, WD9EWK/VA7EWK, told ARRL that one DMR hotspot operating on the AO-92 uplink frequency in the St. Louis area has shifted to another frequency. But, he added, "I think there are still issues, since not all hotspots will report their frequencies and positions to websites such as BrandMeister or via APRS, where they appear on other sites such as <http://aprs.fi>."

"There are others surely operating near satellite uplinks," Stoddard added. "For many, the 435 - 438 MHz satellite subband is a big piece of quiet real estate in a busy part of the 70-centimeter band for weak-signal work, repeater links, amateur TV, and other possible uses."

Stoddard points out that FCC Part 97 addresses Amateur Radio operation in these segments, although regulations in many other countries may not be as detailed. §97.3(a)(7) defines auxiliary stations as, "an amateur station, other than in a message forwarding system, that is transmitting communications point-to-point within a system of cooperating amateur stations."

Stoddard said this would include remote bases, EchoLink and IRLP nodes, and hotspots used for digital voice modes, as well as stations using these

hotspots and nodes. Auxiliary stations may not transmit in the 145.8 - 146.0 and 435 - 438 MHz satellite subbands (among others in the 2-meter and 70-centimeter amateur bands), per §97.201(b).

Further:

§97.3(a)(40) defines a repeater as, "an amateur station that simultaneously retransmits the transmission of another amateur station on a different channel or channels." Stoddard said that because most hotspots operate on a discrete frequency, they would not qualify as repeaters, even if they operate like a repeater, per §97.205(b).

§97.101(a) stipulates, "In all respects not specifically covered by FCC Rules, each amateur station must be operated in accordance with good engineering and good amateur practice." Stoddard remarked, "Whether the hotspot is interfering with a satellite downlink in a particular area, or it is interfering with the satellite uplink affecting a much larger area, this would not be good amateur practice."



Patrick Stoddard, WD9EWK, does a satellite demonstration at the Palm Springs Hamfest in 2017.

In addition to subbands where hotspots are not permitted, Stoddard said, §97.101(b) is also relevant. It states, "Each station licensee and each control operator must cooperate in selecting transmitting

channels and in making the most effective use of the Amateur Service frequencies. No frequency will be assigned for the exclusive use of any station."

Stoddard noted that frequencies used by satellites are usually incapable of being changed and are coordinated in advance of launch, while hotspots typically are frequency agile, and the frequencies used by those systems can be changed to avoid potential interference to satellites and other stations.

-- Thanks to AMSAT News Service, Patrick Stoddard, WD9EWK/VA7EWK



7 Dirty Words: Do You Podcast?

The FCC has an official podcast! It's called "More Than Seven Dirty Words" and can be found here: <https://www.fcc.gov/news-events/podcast>



Also be sure to check for this podcast in Apple Podcasts, Google Play, or wherever your favorite podcast depot might be!



Trailblazer Weekend at #GOREC!

Cub Scout Trailblazer is back! The event is geared toward younger scouts and the goal is to introduce the young scouts (and future scouts) to different activities available through the program. The event is out at Camp Greilick (GOREC) on



kids to different technologies.

We'll have code practice oscillators there so kids can practice sending their name.

There are some other fun activities planned. Free breakfast for staffers there by 7am, also.

More information is available at:

<https://scoutingevent.com/272-2018trailblazer>

The Cherryland ARC is looking for 3-6 volunteers to be present for the duration and represent the club and help the kids explore and learn in responsible ways. - See the attached flyer on **Page 20!**

Please contact Joe N8CN to sign up!

joe@n8cn.org (231) 642-1049



Saturday, Oct 13.

Hours are 8-4, and lunch is provided.

Set-up will go from 8-9am, and then groups will tour the "stations" at #GOREC until 4pm. The W8BSC Radio Shack is one of the stations! We will have radios working, making contacts, and introducing the

4-H Day at #GOREC!

In addition to Trailblazer this year, there is a 4-H group at #GOREC on October 6th. We're looking for 2-3 people to open and operate the W8BSC station and demonstrate its capabilities and purpose. We would need to have things running from 3pm to 5:30pm, so maybe get there a little early and set-up, and have some fun!



Please contact Joe N8CN for more information:
joe@n8cn.org (231) 642-1049

Calendar of Upcoming Events

Ham Radio Text Messaging Demo - **Sep 17th**

Project Night - **Sep 18th**

The **Next CARC General Meeting** is
 Tuesday **September 25th!**

Cherryland ARC Board Meeting - **Oct 2**

Alpena Swap - **Oct 6**

#GOREC 4H event - **Oct 6**

Ham Radio Text Messaging Demo - **Oct 9th**

#GOREC BSA Trailblazer - **Oct 13**

#GOREC BSA Jamboree On The Air - **Oct 19-21**

For more details, check out the CARC Calendar:
http://cherrylandarc.com/?page_id=26

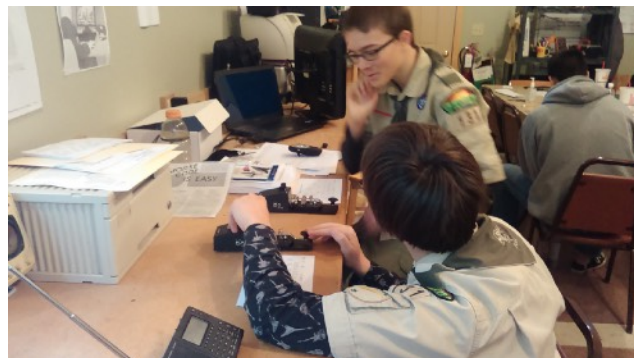
JOTA @ GOREC

The Boy Scouts of America Jamboree On The Air is on the weekend of Oct 19-21 this year. We hope to have a station on the air for some of this time at the Greilick Outdoor Recreation and Education Center.



Jamboree-on-the-Air is held the third weekend in October. There are no official hours, so you have the whole weekend to make JOTA contacts. The event officially starts Friday evening during the JOTA Jump Start and runs through Sunday evening.

If you are interested in operating the radio station for scouts and other youth, please contact Joe N8CN:
joe@n8cn.org (231) 642-1049



You can also participate just by making QSOs with the many JOTA stations that will be on the air!

CARC Board Meeting Minutes

Catching you up! All approved minutes have been published!

Minutes for Cherryland Amateur Radio Club Board Meeting: 5/1/2018

Present: Joe N8CN, Ernie K8RCT, Ward N8WK, Dave NU8A, Joe W8TVT, Dave KJ4KFJ,
Mike W8VPC, Joe KC8RLU, Dave K8WPE, Mark KC8ZAP, Glen K8SGZ

1. Review Minutes - Moves to approve minutes **Motion to approve by Ward, second by Dave H. Approved.**
2. Treasurer Report - Ward N8WK - Financial report - **Nothing more to add from what was presented at General Membership meeting. Ward will reserve Yuba Park for club picnic.**
3. Announcements
 1. Gaylord / Alpena - area group looking for a closer swap, maybe we could help?
 2. 1st Sat in May - Cad Swap
4. TBARG Report - Glen K8SGZ
 1. April 18th Munson Drill Report - Glen
 1. **Started passing digital traffic using MT63 and tablet with FLDIGI. Munson very happy with TBARG performance during drill. Have a new workstation with printer. Starting to cover all of northern MI. TCAPS donated 9 laptops. Ernie was at GT EOC. EM Gregg Bird gave a glowing report for TBARG participation.**
 2. April 28th SET report - Joe - MI5 is interesting in expanding network to our area. Worked very well with DMR.
 3. Glen and Mike will arrange a meeting with Gregg Bird to check out ham station at EOC.
 4. Mike is making a plan for handling bad weather events and SkyWarn.
5. MESH / SMASH Net Report - Mike W8VPC
 1. **Mesh net operating just fine. Commits to continue operating net.**
6. Outreach Coordinator role?
7. Committees
 1. NEW: SATC Viability:
 1. Members of committee: Ernie will head this up. Dave P will help. May 8. Structural integrity of antenna and grounding. Report to board at June meeting.
 2. Proposal that we have an annual inspection done on the tower structure.
 3. Ward to verify liability coverage for SATC location. (we are insured for this location, SATC is also insured.)
 4. Northern Tower did a walk-around (informal) inspection and said it looked OK.
 5. We know we need to do grounding, possibly better bracket.
 6. Tabled until May when we can do a project night dig-down and manual inspection.
 2. NEW: Outreach Committee:
 1. **Sending ad to members for club outreach coordinator/liaison/ambassador. Ernie interested in heading this up.**
 2. Task: Gaylord / Alpena - area group looking for a closer swap, maybe we could help?
 3. Joe KC8RLU - #GOREC equipment recommendations
 1. Work with W8VPC to provide "wish list" of needed things. - **tabled until May board mtg**
 1. **In the meantime Joe RLU and Mike VPC are planning a visitation date for report in June.**
8. SPOTA activity?! **Contact Laura to coordinate**
9. Skywarn Apr 17th Training - **6 club members attended.**
10. MiQP Report - **Joe reports success. 87 contacts. 18 were MI counties. 40m and 80m worked fine. THANK YOU JOE!**
11. Announcements / Meetings / Events
 1. April 24 - General Meeting
 1. Programs:
 1. 5/22: **Members take photos. Joe will show at meeting.**
 2. 6/26: ((Field Day))
 3. 7/24: ((Picnic))
 4. 8/28: ((Foxhunt))
 5. 9/25: ??
 6. 10/23: **FT8**
 7. 11/27: **SDR (W8APT)**
 8. 12/25: Christmas Party
12. Other Items? **Towers available for club or club members. Club does not want it. Contact Joe TVT. Glen and Ernie will visit LEPC May 17 9:00 AM.**
13. Adjourn - **Motion to adjourn by Ward, seconded by Dave H. Approved.**

Minutes for Cherryland Amateur Radio Club Board Meeting: 6/5/2018

Present: Dave H KJ4KFJ, Glen K8SGZ, Dave K8WPE, Tom KE8CVM, Joe KC8RLU, Neil KY8H, Hope AA8SN, Joe W8TVT, Mark KC8ZAP, Joe N8CN, Dave NU8A, Ernie K8RCT

1. Review Minutes - Dave KJ4KFJ moves to approve minutes, Joe KC8RLU seconds. APPROVED.
 2. Treasurer Report - Ward N8WK About \$7K in bank. Paid \$550 rent for next year's swap. Ward moves to approve \$300 gift to SA. Dave KJ4KFJ seconds. APPROVED.
 3. Announcements - Scouting STEM weekend June 9. Looking for volunteers. Further interest in radio merit badge. Dave K8WPE, Joe N8CN, and Glen K8SGZ can help. Saturday 12 to 4 PM. Aero Park Drive.
 4. TBARG Report - Glen K8SGZ Meeting next Wednesday to practice digital message sending. Glen will send a digital message every week and award a prize for correctly receiving the message. Working on a shared drive system. Joe N8CN and Ernie K8RCT made a presentation to Local Emergency Planning Committee (LEPC). Emphasized emergency communication capability.
 5. MESH / SMASH Net Report - Mike W8VPC No report.
 6. FIELD DAY PLANNING:
 - a. LOCATION: Joe N8CN and Ward N8WK will arrange to get in touch with Kiessel farm.
 - b. FOOD: Glen K8SGZ proposes special Friday dinner (each person pays), club-funded food for breakfast, lunch, and dinner on Saturday and Sunday. Ernie K8RCT moves to spend up to \$300 for FD food, Ward N8WK seconds. APPROVED. Glen confirms plans to purchase 2 tents. (\$230 approved at previous meeting.) Ernie K8RCT mentions need for more grilling surfaces.
 - c. TUESDAY: Meet at farm 7pm to haul stuff to E. Hoxie and Alpine. Need one vehicle to pull trailer and one to pull generator
 - d. FRIDAY: Meet at 2pm at Keissel Farm (Fort Rd.) for setup
 - e. BAND CAPTAINS: Hope AA8SN: CW. Joe KC8RLU: 40m Phone. Ward N8WK: 20m Phone if Ken Musson is not coming, otherwise will back up Joe on 40m. Joe W8TVT: VHF solar station. GOTA station desirable. Mark KD8EDC may help. Joe N8CN will get additional signage. Joe KC8RLU will arrange to get 3 computers.
 - f. PUBLICITY: Joe N8CN needs to find an elected official.
 7. Committee Items
 1. SATC Viability Committee - Tabled until July
 2. Outreach Committee -
 1. Members of committee: Joe N8CN, others?
 2. Outreach Coordinator - Still hoping for a volunteer to head this up.
 3. #GOREC - KC8RLU, W8VPC Tabled until July.
 8. SPOTA activity - SPOTA event - Laura WZ8C not interested in organizing. Need another lead.
 9. Announcements / Meetings / Events
 1. FIELD DAY
 2. General Meeting Programs-
 1. 6/26: ((Field Day))
 2. 7/24: ((Picnic. Ward reserved Yuba Park.))
 3. 8/28: ((Foxhunt))
 4. 9/25: John KC9ON on Digital Mode
 5. 10/23: FT8 Demo?
 6. 11/27: SDR (NU8A)
 7. 12/25: ((Christmas Party!))
- Adjourn - Ernie K8RCT moves, Ward N8WK seconds. APPROVED.

Minutes for Cherryland Amateur Radio Club Board Meeting: 7/10/2018

Present: Ernie K8RCT, Ward N8WK, Dave KJ4KFJ, Joe KC8RLU, Tom KE8CVM, Dave NU8A, Joe W8TVT, Mike W8VPC, Glen K8SGZ, Toby KC8VVSU

1. Motion to approve June 5, 2018 board minutes by Ward N8WK. Ernie K8RCT seconds. APPROVED
2. Treasurer report from Ward. We are in the black. Request for receipts Field Day expenses.
3. Summer CARC Picnic. Tuesday July 24. Glen will grill. Sayler Park, 6:00 pm
4. Salvation Army
 - a. Delivered \$300 to Salvation Army Major. Using it for a matching challenge
 - b. Christmas in July 21, 10am to 6pm, Oleson on Long Lake Rd
 - Ernie 4-6pm
 - Request members to sign up
5. Joe W8TVT report on ham gear donation from estate of CARC member Jim Grigsby N8NSL. Joe was contacted by Denise Grigsby who wanted to donate the gear. Joe proposed to split sales receipt with donor. Equipment is now in Joe's garage. Equipment list available. Motion to accept Grigsby donation and split proceeds with CARC by Ward N8WK. Joe KC8RLU seconds. Discussion: Give CARC members first chance to purchase, then offer to public. Ernie will come up with prices. APPROVED
6. Dave KJ4KFJ reports that packet repeater is down at Interlochen. Benzie needs it for emergency communication. Dave asks whether ownership of equipment and agreement with Interlochen will be

established. Motion to have Dave KJ4KFJ go to Interlochen to try a power reset to get it going by Mike W8VPC. Ward N8WK seconds. APPROVED

7. Field Day 2018

Cost of food was \$423. 90 meals served. \$300 was approved by board. Motion to increase the Field Day food expenditure to \$425 by Ward N8WK. Dave NU8A seconds. APPROVED.

a. 115 contacts for 40m phone. 421 for 20m phone. Hope AA8SN has count for CW station. We received a bulletin. Toby KC8VSU was Safety Officer for 100 points. GOTA station. 2m Solar Station. Discussion about having 2 CW stations in 2019, and getting tents for CW stations.

8. TBARG report

Glen K8SGZ has been giving away prizes for decoding MT63 digital signals. Propose to visit Coast Guard cutter station in Mackinaw City. Copper Ridge offering space for APRS node and funding for equipment.

9. MESH NET report

Mike W8VPC says it is going okay.

10. Communication from K8XX Jack Leishman

He is selling his equipment. Ernie has list of items.

11. Motion to adjourn by Dave KJ4KFJ. Ward N8WK seconds. APPROVED

An Amazing Recovery: ARISS Packet System Revives - ARRL Letter, Aug 31, 2018

Similar to the AO-7 satellite resurrection several years ago, the Amateur Radio on the International Space Station ([ARISS](#)) packet radio system on the International Space Station (ISS) has begun working again. NASA ISS Ham Radio Project Engineer Kenneth Ransom, N5VHO, said over the weekend that reports he'd received indicated that the NA1SS packet signal returned in mid-August.

"No idea how long it will last, given the degrading state of the current hardware. The longer it lasts, the better," he said. Ransom said the revived system will fill the gap until a replacement packet module is flown to the ISS later this year and is installed by the crew on a time-available basis.

The packet signal on 145.825 MHz has been copied in Europe, South America, India, and elsewhere. In another August 25 post, Mark Pisani, KK6OTJ, reported copying the packet system during an 18° pass over southern California and said he worked KB6LTY through the system. "Heard over Patagonia Argentina!" Francisco Rodriguez, LU2WBA, enthused in a post on August 24 at 2323 UTC. "Welcome back!" An August 17 post from Marco Antonio, PU2MUS, in Brazil indicated that the system was not active at that time.

Earlier this summer, ARISS hardware team members on the ground reported that they were able to locate a functional duplicate of the ISS packet module that had been in use on the ISS for 17 years before it failed more than a year ago.

ARISS has expressed hope that the new packet system hardware could be online again by the end of November.



2018 FD Report from Traverse City, MI de Jeff K9JP #3008s

The Cherryland Amateur Radio Club - W8TCM, again this year participated in the ARRL Field Day event. The club operates from a Cherry Orchard at the Kessel Farm high in the hills off of West Bay in Leelanau County between T.C. and Suttons Bay. The site has great views of West Bay and wonderful continuous breezes on hot days through the high hills. We had visiting Hams from the surrounding counties visit and even operate for a few QSOs.



This year the group had HF three stations (1 CW and 2 Phone) plus a GOTA station. They used trailer mounted generators for AC power. Have a wonderful large central tent for food and shade. Tents were used for the operating positions, and wire dipole antennas supported by fiberglass military 4 foot section poles. The antenna wires and rope were used to guy the support masts.

Band conditions here in Michigan started off poorly Saturday afternoon, but by evening were very good and we had good conditions through Sunday.

Fred, KB8IWO visiting from Benzie county and Joe, W8TVT one of the most active CARC club members.



40 Meter phone station on one of the



20 meter station looking east over West Bay



Joe, N8CN and Toby, KC8VSU receiving copy of the ARRL FD bulletin or making an ISS pass contact from the Food tent. Always best to have everything you need to make contacts close at hand! HI



Lunch for everyone Saturday before the start at 2 PM here. There was always something good to eat during the 24 plus hours

Well, that's the short report from Traverse City Ted. Hope, everyone had a great FD and Lots of Fun. I know, I DID!

P.S. You will get a laugh from this! I made the shortest distance HF 100 watt contact in my 50 years licensed. I worked the GOTA station which was located 30 feet away from the 40 phone station. I could hear our exchanges with my ears (no earphones, now that I have hearing aids) and on the radio at the same time. No wonder the S meter on the TS-430 was pegged! HI

September 2018

Proposed Ham Radio Text Messaging System for Leelanau County

Purpose:

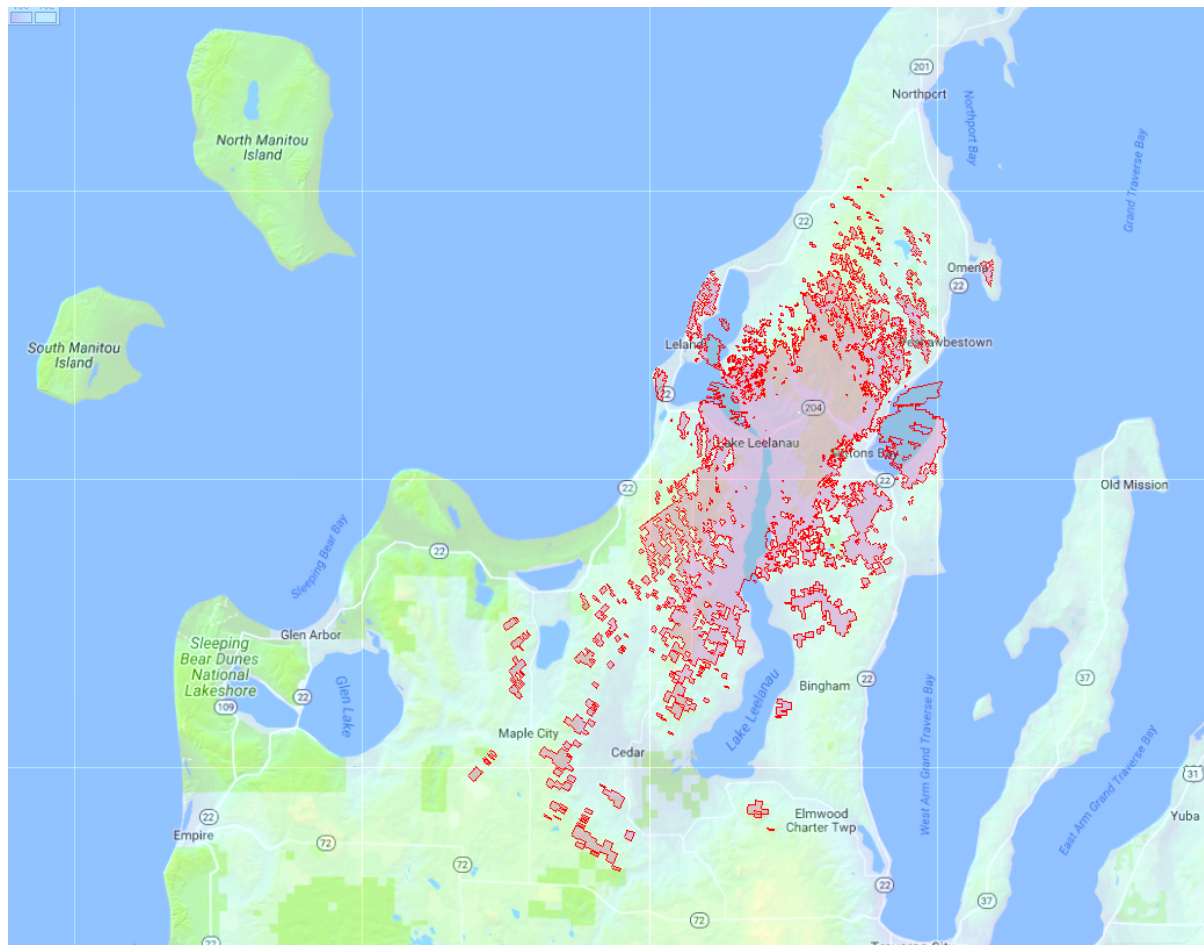
To provide a text-only messaging system that operates independently from Internet and cell-based networks for emergency communications.

Proposed Solution:

TARPN is a radio-based text messaging system. It compliments traditional radio-based voice communications and is particularly suited for EMCOMM applications.

The TARPN system provides real-time error-free text communications, a BBS text mail service for storage and retrieval, and is deployable directly to the site of an incident.

The current proposal is to install a demonstration radio at the EOC that would provide text messaging access to an area represented by the map below. A full demonstration of the system will be provided.





July 25, 2018

Dear Joe and Club Members,

WOW! Is a great way to describe your support of The Salvation Army, Christmas in July Red Kettle campaign. We are grateful and humbled to have you join us as matching Red Kettles sponsor during the campaign and for hosting the Red Kettle at Oleson's. Your team's bell ringing efforts on Saturday brought in \$573.67 not including your \$300 match!

THANK YOU for embracing The Salvation Army programs and giving gifts of food, meals, nutrition, health, camp for kids, utility and emergency assistance and paving a Pathway of Hope for families to move from crisis to stability through your partnership. Each gift embraces our neighbors in need with hope, compassion and fellowship.

We are excited to share that through your and other business/family generous matching sponsorships - donations at Red Kettles remained consistent to last year on the weekend. Our \$10,000 goal thermometer is rising - with a week remaining in July; \$9103.83 (matching sponsorship commitments included) has been raised! While the red kettles and bells have been stored until the Christmas Season - supporters are still dropping off donations, counter Red Kettles remain at local businesses and our virtual Red Kettle is still collecting online donations. Thanks to everyone's support we are confident that we will reach our goal to ultimately positively impact the lives of individuals and families in our community who turn to The Salvation Army for assistance when they need it most. Please find attached your matching Red Kettle impact recap.

From all of us at The Salvation Army and those we have the privilege to serve throughout the year, please except our humble thanks! Again, thank you for your support. Merry Christmas in July!

God bless,

Major Jeff Russell

Ruth Blick

The Salvation Army Traverse City 1239 Barlow St., Traverse City MI 49686
p:231.946.4644 f: 231.946.4822 web:satraversecity.org

Thunder Bay Amateur Radio Club

Find us on the web at:
<http://ThunderBayARC.org>



This is a ARRL
Sanctioned
Event

Alpena's 5th Annual Swap meet!
October 6th, 2018
9:00 AM - 1:00 PM

This year back to October!

Held at the Alpena Mall, 2380 US-23 South, Alpena, MI

Make a trip to Alpena, Michigan. Take in a great Swap and see some of the other sites and events in the Alpena area on this weekend.

<http://www.bessermuseum.org/> <http://www.alpenashipwrecktours.com/> <http://thunderbay.noaa.gov/>

Tables only \$5.00

Email W1UP@ThunderBayARC.org to reserve.

Send payment to:

TBARC
PO Box 764
Alpena, MI 49707

There is no entrance fee but, we would like everyone to register. A donation helps support the SWAP.

See <http://ThunderBayARC.org> for updates and details on the Swap meet.

Bring the Family. The Alpena Mall and the Alpena Area offers a great time for all. Coffee and snacks can be purchased at Cabin Creek Coffee in the Mall. Fast food restaurants within walking distance.

See <http://www.alpenamall.com/> for information on stores in the mall.

CUB SCOUT TRAILBLAZER CAMP

SATURDAY, OCTOBER 13, 2018

CAMP GREILICK | 4754 SCOUT CAMP RD, TRAVERSE CITY

9:00AM CHECK-IN

9:20AM-4:00PM PROGRAM

Join us for a day of archery, bb guns, bouldering wall, scavenger hunt, rockets, fishery, fire safety, skull& skins, and more!

BRING YOUR CUB SCOUT PACK to this day of Cub Scout Fun! Please remember to bring a sack lunch, water bottle, and dress for the weather.

Scouts and Scouters, we need you to help make this a great day for the Cub Scouts. Come to Camp and share your expertise!

	UNTIL 7/30	7/31-9/30	10/1-10/11
\$10	\$16	\$18	\$20
ADULTS	YOUTH	YOUTH	YOUTH
	\$10	\$12	\$15
	TAG ALONG 3-5 years old	TAG ALONG 3-5 years old	TAG ALONG 3-5 years old

For more information contact Lynn Bakker at 231-271-3673 or at ajb2677@yahoo.com or contact Matt Hogg at 616-930-4586 or at matthew.hogg@scouting.org.

Register today at <https://www.scoutingevent.com/272-2018trailblazer>

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BOY SCOUTS OF AMERICA
MICHIGAN CROSSROADS COUNCIL

Cherryland ARC Information:Club Meetings:

The official CARC Club Meeting occurs on the **Fourth Tuesday** of each month at 7pm. Anyone is welcome.

Board Meetings:

The CARC Board meets on the **First Tuesday** of each month at 7pm. Board meetings are open all.

Project Night:

The CARC meets for a "project night" on **all other Tuesday nights** at 7pm. Anyone is welcome to come and use the tools, parts, resources, and "elmers" in the project room / SATERN station.

All Meetings occur at the **Salvation Army building** on **Barlow St.** (at Boon st.) in **Traverse City.**

The project room is on the **basement level.**

To become a member of the CARC:**1. Fill out a membership form.**

You may fill out a form at any meeting, fill out the form online via the website, or you can email cherrylandarc@gmail.com to receive a form via email.

2. Submit dues with your form.

Dues are \$24 per year and are due January 1 each year or with your membership form submission. (pro-rated)
(Family Memberships available for \$26)

That's all for the July 2018 issue of The Cherry Juice! As always, if you have any suggestions or comments, I'm all ears! — joe@n8cn.org

73, Joe N8CN

CARC Membership Application form

Last Name: _____ First Name: _____ Nickname: _____
Callsign (if any): _____ Class (if any): _____
Street: _____ City: _____ State: _____
ZIP: _____

Email (we promise not to spam): _____

Home Phone: _____ Work Phone: _____

Occupation: _____ Spouse: _____

ARRL Member? (Y/N): _____

Annual dues are \$24.00

Please complete the above and mail along with your payment to:



Ward Kuhn N8WK
PO Box 987
Traverse City, MI 49685

<SK>