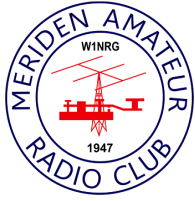




# KEY KLIX



**MERIDEN AMATEUR RADIO CLUB**

**1947 -- 2020**

**DECEMBER 2020**



**THIS IS A TOUGH TIME TO BE FESTIVE BUT WE WILL GET THROUGH THIS TOGETHER...  
LOOK AT THE POSITIVE SIDE, A VACCINE IS COMING ALONG WITH MORE SUNSPOTS..**



***Merry Christmas,  
Happy Chanukah,  
Happy Kwanzaa to all  
and to all a good Night  
—and of course  
HAPPY FESTIVUS  
for the rest of us!!!!***



W1YSM



KB1JL



N1BRL



K1WJL



K1RCT

PRES W1YSM ED SNYDER VP KB1JL ERIC OLSSON SECT N1BRL BART TOFTNESS  
TRES K1WJL DAVE SWEDOCK S.A.M. K1RCT ROB CICHON

ALL MEETINGS ARE **NORMALLY** AT THE EOC HOPE HILL FIREHOUSE, 143 HOPE HILL ROAD, WALLINGFORD **HOWEVER THEY ARE SUSPENDED UNTIL FURTHER NOTICE**

KEY KLIX EDITOR DAVE SWEDOCK K1WJL DSWEDOCK@GMAIL.COM 203 235-8582

WEBSITE WWW.W1NRG.COM  
OFFICIAL MAILING ADDRESS,  
MERIDEN AMATEUR RADIO CLUB,  
POB 583, MERIDEN CT 06450

**Dec 10 , 7:30pm ZOOM Meeting The Year in Review with President Ed W1YSM**

This is more of a look in the rear view mirror as we speed out of 2020 (with a sigh of disbelief) and we enter a new year with a promise of a vaccine, increasing sunspots and a hope for a better economy. The year was not a complete loss as we maintained a strong club with weekly Fox Hunts, multiple On-The-Air Nets, VE sessions, and much more.... Pres. Ed will discuss this and make some announcements for Ham of the Year and Elmer of the Year....

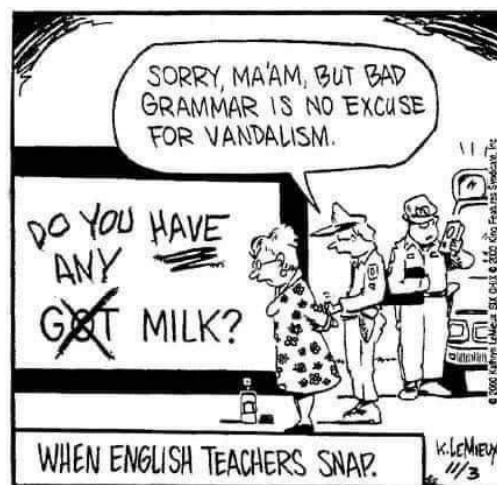
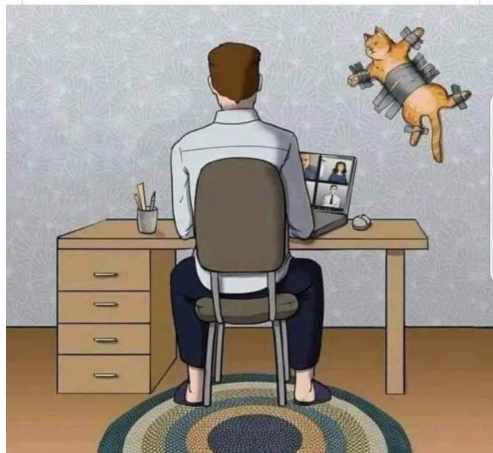
**Get Well Wishes.....**

To John K1LYP and Jeff N1AKN who are recovering from a bout with the Covid-19 virus. John K1VDF is back home from a brief rehab stint at the Masonic and Steve K1IIG who is home recuperating from a recent illness.

**Congratulations**

Bart N1BRL on being elected to the Secretarial Post of the MARC and We thank Anne K1STM for her service as our past secretary..

It is essential to properly prepare for a Zoom meeting



Reprinted from The Funny Times / PO Box 18530 / Cleveland Heights, OH 44118  
phone: (216) 371-8600 / e-mail: ft@funnytimes.com



# The President's Podium



**Ed Snyder W1YSM, President**

## 2020 a Year to Forget or Remember?

This year, 2020, has been disappointing in many ways. The Virus and the death it has left in its wake will have a lasting impact on MARC members. Covid-19 sickened a few of our members but thanks to careful attention to CDC and Town guidelines – not to mention a lot of prayers, we have not only survived as individuals but as a Club, we have grown. We have found ways to stay in touch. Necessity is the mother of invention as the saying goes. Although today it would be better phrased as “necessity is the parent of invention”. Regardless, in response to isolation we learned all about Zoom. Zoom used to be the word to describe the exhaust sound made by a fast-moving race car – not anymore. If not for Zoom we would be severely isolated. A club member noted recently that during the pandemic of 1918, people were encouraged to buy phonographs and radios to pass the time in isolation. Today we surf the Net and try to avoid scams and phishing.

Many MARC members are outdoorsmen and women. Hmmm, what can combine the love of the outdoors with the love of amateur radio? - did someone say Fox Hunt? Now, some 37 (give or take) hunts later – thanks to Dave NZ1J, not only do we hunt weekly (weather permitting) but we have hunts with other clubs, often with members' wives and children joining in the hunts together with their husbands and fathers. New hams need a license. Accordingly, MARC managed to devise a system for VE Examinations that kept us safe and also provided an environment which hatched or upgraded about 10 new hams. We lost our Saturday morning session at the OEM – but it morphed into the Coffee Cup Net which garners about 20 check-ins each Saturday morning. Yes, necessity is the motivation for change. Of course, we miss the face to face meetings, the sight of Al N1APN walking around with the carafe asking if anyone wants more coffee; we miss seeing John N1GNV sitting at a table saying “Nay” to almost every vote; we miss seeing Rob K1RCT walking hurriedly in and out of the Sievert (WA1VXH [SK]) Radio Room with a purposeful and determined look on his face, his thousand keys – jangling on the key ring on his hip; and of course, the joy of eating bagels and rolls on Saturday morning at the OEM while we watch John K1LYP compulsively vacuuming the rug and aligning the chairs under each table—just so. With Zoom, we can still capture some of these things (save for the vacuuming).

While the Coffee Cup net is likely to disappear once we are Covid-free, Zoom and Fox hunts are here to stay. We will meet in person, but the option to Zoom into a meeting will not disappear, much like cell phones are now a fixture of our daily lives. Zoom will help Handy-hams participate in club meetings more easily and allow better interactions among members should inclement weather occur, etc.

MARC, too, is here to stay. Entering the new year, we hope to be together soon – face to face like we should be. Take comfort as we look to 2021, that MARC is strong and vibrant – its future is bright. New and alas, younger members will join, and we will grow and indeed thrive. Soon we will be face-to-face and look back on this nightmare and thank the Lord for MARC and the friendships our beloved hobby has provided – despite it all.

It has been an honor to be your President and a pleasure to work with the other officers and all the club members – even those who may occasionally disagree with my desire to form some new Committee. Merry Christmas, Happy New Year and stay safe. Face-to-Face Field Day may be just around the corner.

Ed W1YSM

## Tales of the Non-Sanctioned Fox Hunts



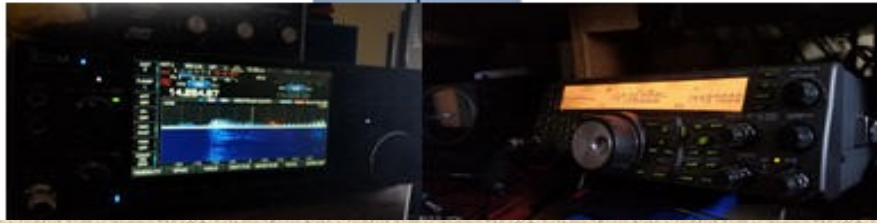
### **AN INVITATION FROM PAUL N1TUP.....NOT FOR THE NOVICE WITH A BAOFENG... 20 MILE RADIUS**

Keeping with tradition, I will be hosting a Foxhunt on New Years Day at 1pm. This hunt will be conducted in the same manner that we have previously conducted live foxhunts. The hunters will assemble at the 91 Ayers Road in South Windsor, CT, home of the old Wapping Elementary School, be set up and ready to start by 1pm. The fox will take a roll call at 1pm on the BEARS repeater, 145.110 MHz, PL tone is 77.0 Hz. This hunt will be conducted using the repeater for all communication and information sharing. I encourage communication between participants and any base stations that can supply helpful information to the hunters. Once you have spotted the fox you should stop all transmissions. Pay attention, if someone says they are going to check an area and you never hear from them again, that might be a clue. Remember not to hunt the repeater output frequency as that will just lead you to the repeater. I will not be there. You will want to listen on the repeater input frequency, 144.510MHz. That is the frequency the fox will be transmitting on. The fox will be located within 20 air miles of the starting point and not within Hartford or Springfield. The fox will be on publicly accessible property that will not require anything other than a standard passenger car for access. The fox will host a "tailgate" party at the end of the hunt at the "den". ***This year all food and drinks will be prepackaged. Don't forget your mask.***

If this is your first hunt, I would recommend riding along with someone who has done this before. Dress warmly as you will be outside at the end for the party, the rest of the time you will be in and out of the car taking bearings etc. Experience has shown that hunters will start arriving in the den about 1 hour after the start. The event has a two hour time limit not including socializing in the den at the end. Current information regarding this and other foxhunts in Connecticut are on Yahoo. If you are not already a group member, you may want to consider signing up for the Yahoo group CTFOXHUNTER so that you do not miss any important foxhunt related news.

73, Paul, N1TUP

# KC1SA

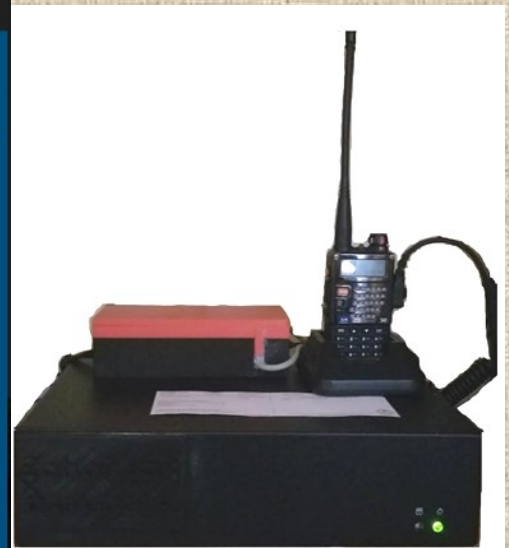
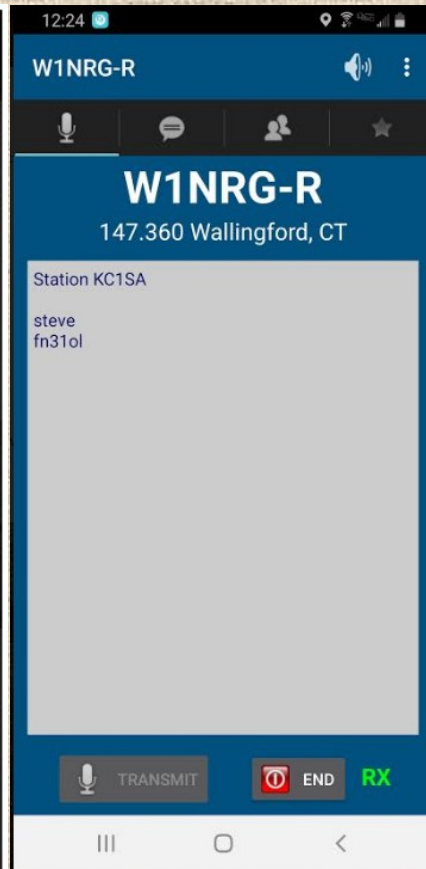


## W1NRG-R

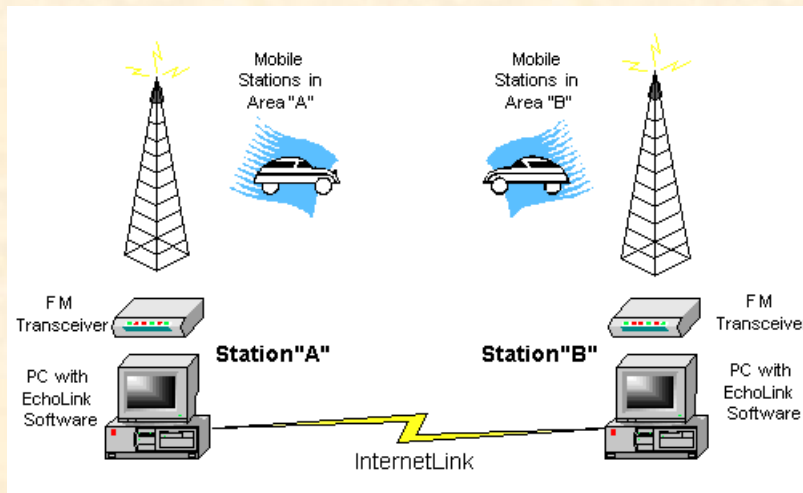
The 147.360 repeater (W1KKF) can be accessed via Echolink, the Echolink node is 624952 with a station id of W1NRG-R. With an internet connection and a PC or smartphone you can communicate with the W1KKF repeater. If traveling out of the area you can participate in nets held on our 2m repeater.

If unfamiliar with Echolink, basically it's VoIP for ham radio; connecting ham radio to TCPIP packets over ethernet and internet. Learn more at [www.echolink.org](http://www.echolink.org). Take the tour and try it out. Testing phase started about the middle of November and since we've had 17 different users access the box and one international QSO from Japan!

The hardware is a small (12 x 8) Intel based SBC, interface box (audio isolation transformer and PTT opto-isolator) and a Baofeng HT. Having 24 x 7 access to the box at my QTH allows for easy tweaks and remedying any problems quickly.



## ECHOLINK VIA KC1SA



I've had the echolink box connected up now for a week that connects to the W1KKR (147.360) repeater here in Wallingford. Having our repeater accessable via Echolink certainly opens up our club footprint considerably. For those unfamiliar with Echolink, QST (Steve Ford) wrote an article nearly 20 years on VOIP and repeater use which is a good backgrounder. I've included links to the Echolink site if you need to learn about the technology. The software operates on three platforms; Windows, Android and iOS. Running on a Windows platform (your PC) is doable but does require opening two UDP ports on your broadband/dsl router while running the apps on your phone is very straightforward.

<https://secure.echolink.org/>

I'm still working through some audio and connection issues, but I think the link is ready to move out of it's beta testing stage and into a more public phase. So I am sending this message out to the Meriden ARC club membership (and to those folks I captured using the Echolink node) so you're all aware that the node is live.

### **Echolink old setup**

- Active November 14, 2020 until November 22, 2020 at noon.
- Current Name on Echolink - KC1SA-R
- Current Node on Echolink - 621257

Maximum number of Echolink users - 10 (may need to be adjusted)

**This system will change its Name and Node number about November 22, 2020 at noon local time.** The new name and node will be:

- Current Name on Echolink - W1NRG-R
- Current Node on Echolink - 624952

### **Interruptions (scheduled and not)**

Early in December the node may be down since I have to make a couple hardware and installation changes and that may take the node down for a half day (maybe). Unscheduled outages would be internet or power related and I don't anticipate that to happen too often.

If you see (hear) issues with the node, drop me a note ([sallen48@gmail.com](mailto:sallen48@gmail.com)) and I'll look into it.

73,

Steve - KC1SA



## Secretary Report & Minutes of the Meriden Amateur Radio Club Anne West K1STM , Secretary

### Meriden Amateur Radio Club Meeting Minutes

Business meeting November 5, 2020 via Zoom videoconference

Meeting called to order by President W1YSM at 1932 local

Attendees (via zoom) (32) KC1DOY, KB1JL, K1STM, WV2LKM, W1DQ, K1LHO, W1YSM, N1BRL, K1RCT, N1LES, WA1FFT, W1EDX, K1WJL, KB1IFZ, KB1EHE, KE1AY, KC1SA, WA1TRY, KC1HDB, N1KGY, N1API, KC1KQH, AB1DQ, N1GNV, K1JCF, N1ZN, K1LYP, WB1GYZ, NZ1J, W1KKF, KE1AU, WA1ZVY

Announcements (W1YSM) The recent passing of member Greg Ploski N1POP was recognized. Covid restrictions remain at 10 people or less congregating at the OEM building, with masks required inside. The Year in Review will be December 3 at 1930 via Zoom. The CQ Santa and the Christmas party have been canceled.

Secretary's Report (KB1JL) The October 2020 minutes as published in Key Klix were voted on and approved. Membership is at 88 with no new members this month. No new correspondences.

Treasurers Report (K1WJL) was read by Dave. Details available from Dave upon request. There were no requests for disbursement. Due to Covid there is no Christmas gathering and members should send 2021 dues directly to Dave K1WJL at club's PO Box with checks addressed to "MARC"

Station Managers report (K1RCT) Routine maintenance continues at OEM club station. The red shed will not be available for Winter Field Day, Sweepstakes is upcoming. A discussion ensued regarding the on line schedule for W1NRG operation and the updating of serial numbers.

Elections(KC1SA): Nomination of Officers and Ham of the Year and Elmer of the Year were held. HOY and EOY will be done by email via survey monkey, with ballots sent only to members attending the November 5 meeting. The existing slate of officers was put forth for election:

Ed W1YSM --- President                      Bart N1BRL --- Secretary                      Dave --- K1WJL

Eric KB1JL --- Vice- President                      Rob K1RCT -- Station Manager

and the floor was open to anyone else who wanted to run for any officer position. No one came forth and nominations were closed. The current slate will be voted on next Thursday(11/12) via Zoom with current Secretary K1STM casting one vote for the unanimous slate. A quorum will be necessary.

### Committees

Entertainment/Activities (W1YSM) January activity meeting TBA.

Saturday Morning (KB1JL/K1LYP) No change in status. In person gatherings are being missed.

Fox Hunt (NZ1J) Dave noted some drop off of in participation due to weather and anticipates January through March to have no hunts, resuming in April.

Website Update (NZ1J) the site is being maintained as current. A discussion ensued regarding the SSL site encryption (Https) was not working, although it has been paid for. This will be investigated and rectified with current status due to provider not implementing it properly. The welcome letter to new members on the website is out of date and needs to be made current.

Contest Activation (K1RCT) More discussion of Sweepstakes club participation.

Club Nets (W1YSM) All nets are functioning with participation, with the Saturday Coffee net getting close to 20 check ins. The Wednesday night chat sessions on 28.375 MHz are drawing about 4-8 members per week.

Castle Craig (N1API) AI reports increased sunspot activity will help 10 meter propagation, and a February 10-10 QSO party will be upcoming.

Scholarship (N1ZN) no activity

Membership (W1YSM) Discussed previously.

continued on next page

Interference/Technical (K1RCT) Rob is requesting repeater PL activation on both sides to be investigated by the Repeater committee due to propagation interference and also so he can proceed with an Echolink set up, which will assist homebound and facility bound members access to the repeater. The PL is needed for Echolink. A discussion of interference ensued centering on the W1LJO repeater in Newton Mass. Occasional propagation interference also occurs from The NYC 36 repeater on Rockefeller Center. W1KKF stated the committee will meet and look into PL and get back to Rob.

Instruction/VE (KE1AY) The October VE session produced one license upgrade and one new technician licensee. Another session will be held November 22. It was decided that exams could be offered monthly with walk ins welcome, starting in January. K1RCT will purchase a club IR thermometer for Covid screening. Currently we have been using W1YSM's thermometer.

Key Klix (K1WJL) KK continues with positive comments on the recent AB1DQ article on mobile installations. More of this type articles are solicited from the membership.

EMCOMM (KB1JL) no recent activity or news.

Candy Store (N1ZN) Nothing new.

Community Outreach (W1YSM) Two news articles are being worked on by WB1GYZ and W1YSM

#### Old Business

W1YSM will discuss By law changes to include W1WRG call sign inclusion into the bylaws. This will occur in the January 2021 meeting.

#### New Business

KB1JL announced that a clean out procedure for surplus club radio equipment will be formulated in concurrence with K1RCT and K1LYP and presented to the club in January. This will not include radios, which will be kept to be shared with new members who are entering the hobby. Other essential equipment will also be kept but surplus will be offered to members to buy or bid on.

Ron K1RCT stated that he maintains an inventory of all club equipment and asks that anyone loaning equipment report this to him. Some members inquired as to the list and are encouraged to contact Rob, rather than keep a list on the website or forum.

W1YSM reported on his recent ARRL appointment as Affiliated Club Coordinator. He explained the position and expectations, and is asking for input from membership to make this a group project to support and exchange with other clubs in CT.

Meeting was adjourned at 2133 hours

Respectfully submitted,  
Eric Olsson, KB1JL

continued on next page

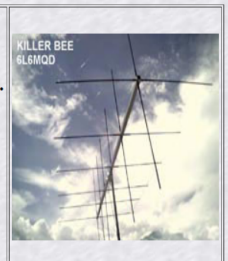
#### **FROM STEVE K1IIG:**

OVER THE NEXT YEAR I WILL BE SELLING A LOT OF MY HAM STATION EQUIPMENT DUE TO HEALTH REASONS. RIGHT NOW I HAVE A NEW IN THE BOX A CUBEX 6M "KILLER BEE" QUAD FOR SALE AT HALF PRICE. IT GOES FOR \$365 PLUS SHIPPING. I AM ASKING \$180. I CAN BE REACHED AT 203.786.0052 OR K1IIG@ARRL.NET.

THANKS STEVE

#### **6 Meter 6 Element Quad (17+ dbi Gain)**

- FG= 17dbi, @ 40ft; F/B > 30db
- Direct feed with 50 Ohm coax; 50.2 MHz.
- Rugged all weather construction.
- Adjustable feed point to change resonance.
- Aluminum mast to boom coupler.
- 16 ft. rugged aluminum boom
- Handles >1 KW PEP.
- Horizontal or vertical polarization.
- > 500 KHz; bandwidth.
- Turning radius 12.5'
- weight 34 lbs.





**Meriden Amateur Radio Club      Special Business Meeting via Zoom video teleconference  
Annual Election of Officers      November 12, 2020**

Attendees: (27) K1RCT, KB1JL, KC1SA, KC1DOY, N1LES, N1BRL, W1YSM, W1KKF, W1EDX, K1JCF, KC1NQE, KB1EHE, KB1IFZ, KC1HDB, N1ZN, W1DQ, N1API, K1STM, AB1DQ, KC1ISI, KE1AU, K1LHO, N1GNV, KE1AY, WA1TRY, K1LYP, WB1GYZ.

Meeting was called to order at 7: 33 PM by president W1YSM.

W1YSM yielded the floor to KC1SA who announced the voting process, that the Secretary K1STM would cast one vote for the current slate of officers that were presented on the November 5, 2020 business meeting. The slate ran unopposed and nominations were closed.

- President Ed Snyder W1YSM
- Vice President Eric Olsson KB1JL
- Secretary Bart Toftness N1BRL
- Treasurer Dave Swedock K1WJL
- Station Manager Rob Cichon K1RCT

A motion for the floor was put forth and seconded that the above slate be elected. The motion was passed with one dissent. A quorum was present.

KC1SA yielded the floor and Secretary Anne West K1STM cast one vote for the slate presented above. Following the election a discussion ensued regarding the Ham of the Year and Elmer of the year vote, which was done via email through Survey Monkey. Three members who were present at the November 5 meeting and eligible to vote had not received the ballots and could not vote. The awards will be announced in December.

Meeting was adjourned at 7:43 PM      Respectfully Submitted  
Eric Olsson KB1JL



**BIRTH OF AN  
ANTENNA  
FARM AT  
W1UFO QTH**



# MERIDEN AMATEUR RADIO CLUB

## OFFICERS OF MARC

PRESIDENT.....W1YSM ED SNYDER  
 VICE PRES.....KB1JL ERIC OLSSON  
 SECT.....K1STM ANNE WEST  
 TRES.....K1WJL DAVE SWEDOCK  
 STATION A.M...K1RCT ROB CICHON

MEETINGS: NORMALLY  
 7:30PM ON THE 2ND & 4TH THURSDAYS  
 OF THE MONTH,  
 UNLESS OTHERWISE POSTED,  
 THE HOPE HILL ROAD FIREHOUSE / EOC  
 143 HOPE HILL ROAD, WALLINGFORD  
**ALL MEETINGS ARE CANCELLED  
 UNTIL FURTHER NOTICE**

MAILING ADDRESS:  
 MERIDEN AMATEUR RADIO CLUB  
 POB 583, MERIDEN CT. 06450

## CLUB NETS

6 MTR NET MONDAYS 8PM  
 50.175MHZ N1ZN JIM

2 METER NET TUESDAYS 7:30PM  
 147.36 /RPT NO PL K1TDO TODD

10 METER NET TUESDAYS 8PM  
 28.375MHZ K1VDF JOHN

10/10 CASTLE CRAIG CHAPTER  
 (CONCURRENTLY WQITH CLUB NET)  
 28.375MHZ TUESDAYS 8PM N1API AL

2 METER TECH NET Thursdays 7:30PM  
 147.360+, no PL (on non-MARC meeting nites)  
 WEEKLY NET MODERATED BY VARIOUS  
 AMATEURS WITH DIFFERENT TECHNICAL  
 TOPICS AND Q&A SESSION

2 METER COFFEE CUP NET SAT 9AM  
 147.36+ NO PL W1YSM ED  
 (THIS HAS ALSO A SIMULTANEOUS  
 SECONDARY NET OF SORTS THROUGH  
 THE VIDEO TELECONFERENCING  
 W1NRG JITSI SITE)

WEBSITE: (USE LOWERCASE)  
[www.w1nrg.com](http://www.w1nrg.com)

FORUM / BBS:  
[www.w1nrg.com/forum/](http://www.w1nrg.com/forum/)  
 or go to website and follow links

CASTLE CRAIG 10-10 WEBSITE:  
 go to [www.w1nrg.com](http://www.w1nrg.com)  
 and follow the links

CLUB REPEATER W1KKF/R  
 147.36MHZ +600 OFFSET  
 NO PL TONE (OPEN REPEATER)

## MEMBERSHIP ROSTER

AB1DQ	James Surprenant	22R	N1BF	Patrick Dionne	21R
AB1HB	Charlie Dudac	20S	N1BRL	Bart Toftness	20S
AF1HS	Art Fregeau	20S	N1GNV	John Bartscherer	20S
K1IIG	Steve Tripp	20S	N1GY	Geoff Haines	21S
K1JCF	Joe Farrell	20S	N1HCA	Susan South	20R
K1LHO	Mike Ash	20S	N1IBE	Wade Martell	21S
K1LYP	John Yusza	21S	N1KGY	Chuck Ayers	20R
K1MMK	Mike MacKennedy	20R	N1LES	Joe Murray	21R
K1MVM	Mike Macri	20S	N1MOB	Dan David	20R
K1RCT	Rob Cichon	20R	N1NAN	Helen Spokes	20S
K1SCI	Stuart Isaac	20R	N1OKF	Bob Parisi	20R
K1STM	Anne West	21S	N1OKR	Frank Ciccone	20S
K1TDO	Todd Olsen	20R	N1QYB	William Wilecki Jr.	20S
K1TGX	Jerry Molaver	22S	N1YLN	Edward O'Lena	20R
K1VDF	John Blevins	20S	N1ZN	James Savage	20S
K1WJL	Dave Swedock	20S	NZ1J	Dave Tipping	22R
KB1CIW	Bob Stephens	20S	W1AJK	Andrew Kazimer	20R
KB1EHE	Eric Knight	20R	W1DQ	John Elengo	20S
KB1FYL	Bob Carruthers	20S	W1EDX	Paul Stasieluk	20S
KB1HCC	Jonathan Winslow	20S	W1KKF	Bill Wawrzeniak	L
KB1IFZ	Elsie Mathews	20R	W1KPS	Kevin Shields	20R
KB1JL	Eric Olsson	21S	W1LV	Steve Morley	20R
KB1MFU	John Ramadei	21R	W1NHS	Fred Ring	20S
KB1SIT	Teresa Stephens	20S	W1NNZ	William Kosche III	20S
KB1SSN	Alex Dills	20R	W1POP	Fred Liedke	21S
KB1TJD	Gainne Jenkins	20S	W1ST	Stephen Stimpson	20R
KB1TMC	Clare O'Lena	20R	W1UFO	Mike Cei	20R
KB1YFJ	Glen Couture	20R	W1XK	Stan Kugler	20S
KC1DOY	Ted Renzoni	20S	W1YSM	Ed Snyder	22R
KC1GMD	Ralph Ring	20R	WA1FFT	Ray Irwin	20S
KC1HDB	Jeff Martin	28R	WA1JKR	John Rogus	21S
KC1HFO	John Stoidis	20R	WA1SFH	Douglas Sharafanowich	20R
KC1IHK	Scott Mowerson	20R	WA1TRY	Rich Aubin	L
KC1IIL	Matt Mowerson	20Y	WA1ZVY	Jim Martin	20S
KC1ISI	Kristin Olsson	21R	WB1GGP	Jerry Shepard	20S
KC1KQH	John Kasinskas	20S	WB1GYZ	Bob Biancur	21S
KC1MBG	Robert Luby	21R	WB8IMY	Steve Ford	20R
KC1NQE	Shawn Warren	21R	WV2LKM	Steve Waldmann	20S
KC1NXP	Andrew Paolillo	21R	W3APC	James Cook	21S
KC1PU	Bob Woodtke Jr.	21R	W9OTW	Debbie Foss	20R
KC1SA	Stephen Allen	21R		Ron Rogers	20S
KE1AU	Robert Kaczor	20S			
KE1AV	Dave Sanford	20R			
KE1AY	Donald Mitchell	20S			
KR1U	Bob Eslinger	20S			
N1AKN	Jeff Dwyer	20R			
N1API	Al Kaiser	20S			

## MEMBERSHIP STATS

TOTAL MEMBERS.....88  
 REGULAR(UNDER65).....42  
 SENIOR(OVER 65).....43  
 LIFE.....2  
 STUDENT(UNDER 18).....1

## CLUB DUES STRUCTURE (JAN-DEC)

UP TO 64 YRS OF AGE--\$20/YR  
 SENIOR DISCOUNT 65 & UP--\$15  
 ANY MEMBER WHO IS A LICENSED HAM,  
 18 & UNDER WILL BE GIVEN FREE DUES.

KEY KLIX EDITOR DAVE SWEDOCK K1WJL  
 CONTACT DSWEDOCK@GMAIL.COM  
 203 235-8582

