

HAMRAG

Aug. 2019

Aug. 9th

Radio Estate Planning

By: Kurt Eversole - KE9N

Inside This Issue:

Page 2 President's Message	Page 7 Fear Not
Page 3 Editor's Note RARA Repeaters Friday Breakfast	Page 9 Ham Funny
Page 4 Upcoming Events Ham Testing Ham Mentor	Page 10 Area Nets
Pages 5 Best Way To Pass	Pages 11 DX Convention
Page 6 Antennas Do's and Don'ts	Page 12 North American QSO
	Page 13 Ham Fest 2019
	Page 14 Membership Form



Next Meeting: Radio Estate Planning • Friday Aug. 9th • 7:00 PM
Location: St. Anthony Medical Center • Foundation Room • 5666 E. State Street Rockford, IL

President's Message



2019 RARA Officers & Board

Officers:

President/Webmaster
Randy Long, AC9OF
815-978-6673
randy@rdlgraphics.com

Vice President
Jennifer Van Zieleghe
KD9FMJ
815-222-4221
jenleek@usa.com

Secretary
Greg Kuczek, W9VOX
815-713-5461
w9vox@comcast.net

Treasurer
Gordon Seaman, KC9NEX
815-262-0294,
kc9nex@gmail.com

Directors:

Jacek Gadjka, KD9ELI
773-505-5604
hyacinth27109@yahoo.com

Kurt Eversole, KE9N
815-389-2784
kurt.eversole@gmail.com

John Mori, N8TA
(815) 484-3657
johnlmori@icloud.com

1 Open Director
Please Volunteer

Special Projects:

Repeater Chairman
Kurt Eversole, KE9N
815-389-2784
kurt.eversole@gmail.com

Hamrag Editor
Lynn Long, KD9IFP
815-978-6673
randy@rdlgraphics.com

Repeater License Trustee
Robert Larson, KC9ICH
815-540-0309
rlarson4@sbcglobal.net

participate

verb

at least he's willing to participate in town events: take part in, engage in, join in, get involved in, share in, play a part/role in, be a participant in, partake in, have a hand in, be associated with; cooperate in, help (out) with, assist in, lend a hand with/to.

involved

adjective

very involved with the organization: engrossed in, absorbed in, immersed in, caught up in, preoccupied by, busy with, engaged in/with, intent on.

volunteer

verb

1 I volunteered my services: offer, tender, proffer, put forward, put up, venture.

2 he volunteered as a driver: offer one's services, present oneself, make oneself available, sign up.

help

verb

can you help me please? assist, aid, lend a (helping) hand to, give assistance to, come to the aid of; be of service to, be of use to; do someone a favor, do someone a service, do someone a good turn, bail someone out, come to someone's/the rescue, give someone a leg up; get someone out of a tight spot, save someone's bacon, save someone's skin.

serve

verb

be of service to, be of use to, help, assist, aid, make a contribution to, do one's bit for, do something for, benefit.

Just a few words to think about and how to apply them when it comes to being **RADIO ACTIVE**.

Randy Long, AC9OF
2019 RARA President



Editor's Note

Extra Full HamRag This Month!!!

Thanks!

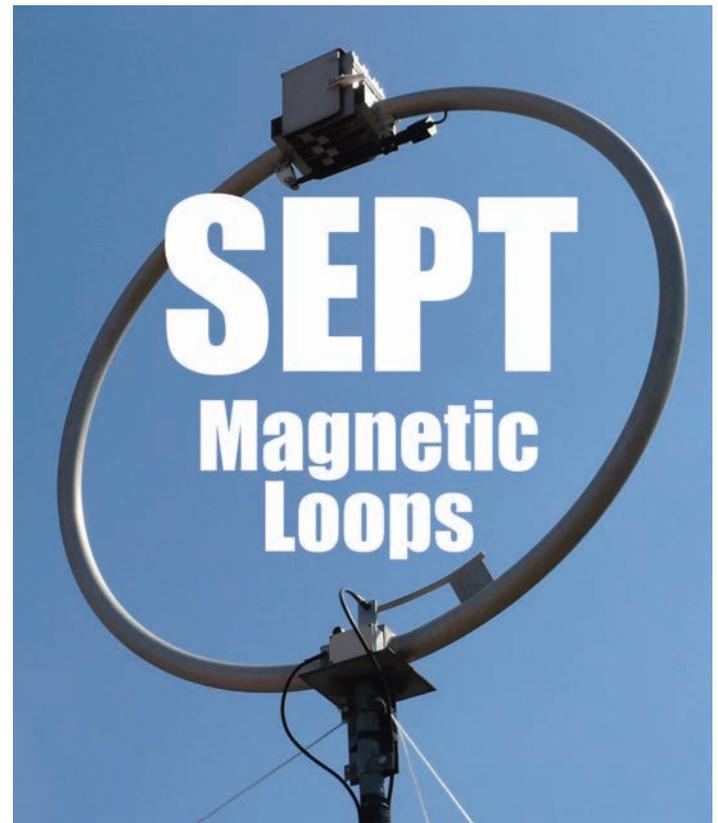
Lynn Long KD9IFP
Hamrag Editor
randy@rdlgraphics.com.



Meets every Friday morning from 8 am until about 10:00 am. An informal gathering of ham folks, no affiliations necessary, good food and good company.

Everyone is welcome to attend.

**"The Spring Garden Family Restaurant"
4820 N. 2nd Street
Loves Park, IL 61111**



RARA Repeaters

Both repeaters (146.610 and 147.000 (both have a pl 114.8)) will function with both digital and analog radio signals, but the repeaters require time to determine whether the signal is digital or analog. To operate the repeater properly you must first be sure the frequency is clear, then key and hold the microphone button down for 1-2 seconds. Then begin speaking. If you fail to do this, the first part of your message will be lost.

RARA Mission Statement

A member association with common interest of public service to the community through the use of amateur radio.



Programs 2019

August - Radio Estate Planning -
Helping Your Family Understand
What's in the Ham Shack

September - Magnetic Loops

Meetings

Aug 9, 2019

General RARA Meeting 7:00 pm at OSF

Aug 20, 2019

RARA Board Meeting 7:00 pm at OSF

Sept 13, 2019

General RARA Meeting 7:00 pm at OSF

Sept 17, 2019

RARA Board Meeting 7:00 pm at OSF

Sept 28 Setup - 29 Fest, 2019
Ham Fest

RARA HAMMentor

The program keeps moving forward. We are working on a magazine article, powerpoint and possible handouts that could be made available for other clubs to start this type of program within their local clubs.

This program will only work locally if you are willing to step up and help. See a board member at the club meeting or give us a call - we can point you in the right direction for help or to become a mentor.



Ham Testing

In July we had 2 successful applicants:

Meyers, James T.
Technician Class

Palmer, Gregory B.
Technician Class

Amateur Radio exams are held the 3rd Saturday of every month in Rockford IL. The next session is 9 AM Aug. 17, 2019.

Walk-ins welcome. Check-in is from 9AM-10AM, no exams started after 10:30.

We require two signature ID's and one photo. If you are a licensed Amateur Radio operator bring a copy of your FCC ULS page with your call sign. If you are using a CSCE for exam credit, bring the original and a copy (We need to see the originals & keep a photocopy of each). No copier on site. The test fee is \$14.00. Bring a non-programmable calculator.

Location:

OSF St Anthony Medical Center
5666 E State St (Bus US20) Rockford IL
Exams are held in the St Francis Room
(Main Entrance then turn right).

Jim Holich AB9SX
jholich@comcast.net

The Best Way To Pass The License Exams

by Kerry KD9MAP

This year I passed the three ham license exams. I didn't have to read the ARRL handbook. I didn't have to buy a copy of the study manuals. It didn't require hundreds of hours of study. How did I do it?

First of all, notice that the tests have all canned answers. Even the questions that "involve math" have fixed, canned answers. The only difference between the answers available to you (thru the study guides or the internet,) and the actual exam will be their order; the wording and the numbers will be exactly the same. The licensers are deliberately trying to make it as easy for you to pass as they can get away with. (That's why they threw out the morse code requirement years ago.)

The ham license exam inevitably requires some memorization. Things like electronic theory can be learned organically from many sources, but bandplan frequencies, laws and regulations and other purely arbitrary information can be learned only thru rote memorization.

What's the best way to memorize something? Drill it! Over and over. How do you do that?

The hardest way to do it is to use a book and pencil and paper, doing sample tests, writing down the answers and then checking your answers, adding up the score. That is the HARD way!

The easy way is to go to <https://arrlexamreview.appspot.com/> and take the practice exams there. No paper and pencil, they do the scoring, easy-peasy. You can take the whole exam as fast as you want, and get your results instantly.

I just lay in bed before going to sleep, with my laptop, doing the exams over and over. Click, click, click! I could do four to six practice exams in a half-hour. I was instantly shown which questions I kept getting wrong, so it was easy to focus on those hard ones. They keep track of

your progress and chart it by exam section. By the time I was scoring 85%-90% on all sections of the practice test, I knew I was ready to take the real test. It required only about ten half-hour sessions like that for each test, before all the answers were imprinted in my mind. I took one real exam per month, and in three months I had my Extra ticket.

Don't get the wrong idea! I encourage you to read the ARRL Handbook soon, and often. I want you to learn and understand as much as you can about radio and electronics and operating technique! The more knowledgeable you are, the more fun you will have in the radio hobby. Hams are expected to continually advance their knowledge of the science and art of radio. (In fact, if it was up to me, the exams would be made more difficult to pass, and the math answers would not be canned.)

But you can get your license quickly, before you become an expert on all that stuff. So why not do it the EASY way?

The licensers WANT you to get your license quickly!



Antenna Do's and Don'ts

by Larry AC9GO

I was thinking the other day about some of the different antennas that I have had and put up over the years, and some of the things that I have learned. I tend to learn things the hard way at times, so if I pass some of those things along it may just save you some trouble. Let me give you an example. If you are going to run an antenna into the house, and most of you will, be sure to put a drip bend in the wire or coax before it comes into the house. The last time that I forgot that, I had a coax that went to an inverted V up about thirty feet. I started out all right, but forgot when I was down in the basement and needed just a little more coax to reach a 1200 watt linear, and pulled it through the hole to the outside. You guessed it. I eliminated my drip bend, and with the next rain I found out real quick. Let's just say that rain water collected on 30 feet of large coax is not something you want to deal with at the back of a high voltage linear. I pulled plugs faster than I ever had, disconnected the coax, and ran outside in the rain to put my drip bend back into the cable. Lucky for me nothing was hurt. I just had to dry out the amp before using it. I'm just glad it wasn't a storm with lightning. Always, put the drip bend in the cable.

Trees may seem to be made for antennas, but they aren't perfect. Have you ever watched a bunch of trees flop back and forth on the ends of the branches in a storm. If not, watch in the next storm. They do not bend back and forth at the same time. Think about that when you put up your next wire antenna. The wire that you string between those trees will NOT hold those branches. I've seen a couple of things done such as a pulley and some weights on one or each end of the wire or rope that is holding the antenna wire up. The thing I like to do is put an old type screen door spring on one or both ends. Believe it or not they are still available. I bought one a couple of years ago at Walmart, which saved my G5RV more than once. I generally tie the wire to the trunk or a major branch of two

trees, because they don't move as much as the smaller branches, and that spring can take up the slack from there.

I mentioned that I tend to learn things the hard way, and that brings me to a story about PVC pipe. I wanted to put a mast up, so down I went to Farm and Fleet. There was a nice piece of copper pipe, but man was it expensive. Did I also mention that I'm also cheap? I looked at some Iron pipe, but it really seemed to be heavy and I wanted something light. Then I spotted the PVC pipe. I think the small one was about 1.5" and 10' long. I bought it and headed for home. I was only going to put a small ground plane for 2 meters so I could get into the 61 repeater without going out to the car. I had 2X2 wood slats on a little deck railing outside of the garage, and with a couple of u-bolts around the base of the PVC, and the antenna on the top, I had a nice little 2 meter setup. I was getting into the 61 but after about a week I wondered what else I could hit from Rockton, if I could get over the top of the house. The antenna was up a little over 10' but what if I added another piece of PVC and took it up over 20'. Down to Farm and Fleet I went. I bought another 10' piece and the glue and coupling to make my 20' mast. I took the first unit down, glued it to the second piece. Let it harden the appropriate time, and put a few zip ties around the coax to keep it from blowing around, and I was ready to mount it. I pushed it up as straight as I could and looked up to see how far up the antenna was, and I couldn't see it. It wasn't where I expected it to be. I looked over my shoulders, and it wasn't in sight. Where was it? Did it fall off? Then I felt something on the back of my leg, and turned and looked down behind me to see my antenna bouncing back and forth a couple of feet off the ground. Talk about feeling stupid. By the way I used the wrong zip ties as well. The white zip ties will be destroyed by the sunlight in a short time. Use black zip ties for your outside work. They are

Continued on Page 8

Fear Not The Internet

by Kerry KD9MAP

In the short time since I've returned to the radio hobby, I've met some old-timers who refuse to use the internet. They don't know what they are missing!

Let me start by acknowledging that an internet connection is pretty expensive (mine costs \$90 a month,) although there may be lowercost options for low-income folks. You may even have a free, open WiFi connection available that you are unaware of. But for those who just can't afford it, please disregard what follows.

The internet is the greatest advance in the dissemination of knowledge since the invention of the printing press. That is not an exaggeration! It is the biggest, easiest-to-use library ever invented. It contains all the great literature, art, music, philosophy and scientific knowledge of all civilizations. We are incredibly lucky to have been born into this era, and to have this resource.

Whatever question you need answered, if there IS an answer, it is on the internet. Do you need to know how to replace the water pump in a 2015 Ford F150? In ten seconds, you can find a step-by-step video that shows you how. Are you still wondering what "reactance" really is? Within a minute, you can find an explanation you'll understand. Do you want to know what the weather forecast is for a place you intend to visit? On the internet, you can get it direct from the forecasters yourself, including animated maps of every imaginable kind. There is no longer any need to guess or speculate about questions; the answers are at your fingertips!

You can get WHAT you want, WHEN you want, WHATEVER it may be. It's not like turning on the TV and watching whatever happens to be on, hoping it might be interesting. You use it to YOUR purpose, on YOUR schedule.

The internet is also a great way to communicate, much better than ham radio, in my opinion. You

can instantly discuss things with people in literally every place on the planet, without being hampered by propagation conditions. There are online forums on any topic you could possibly imagine. Say you enjoy discussing politics, but not on the radio. You will easily find a forum of people who think like you do, and you can say anything you like, anonymously if you prefer. It's the BEST way to rag-chew!

Ever turn on your radio, and you can't find anybody on HF? (I hear that complaint a LOT.) On the internet, there are hundreds of radio receivers, all around the globe, available for your free use, and some of them have huge antenna farms that you could never ever afford to build yourself. If you can't hear any QSOs or HF nets on your own rcvr and antenna, go on the internet and listen to receivers in Kentucky, Hawaii, Moscow, Tasmania, etc. With internet technologies like Echolink and DMR, you can talk too.

There are many things you can do that eliminate the need to travel. For me, a good example was weather-spotter training. I went to one of the training sessions in person, and I just could not hear what the teacher was saying, because the acoustics were so bad, so I left. But one of his handouts showed me where to do the training on the internet, and the internet training is, frankly speaking, much better than the in-person training, and includes many resources you don't get in-person. Plus you do it on YOUR schedule; you don't wait months for the next session to be scheduled. I did my ham license-exam training all on the internet. I did the Red Cross First Aid and CPR training all on the internet.

Maybe the best thing you are missing out on is email. When you try to reach somebody by phone or radio, much of the time they aren't there to answer you, and I find telephones

Continued Next Page

Fear Not The Internet, Continued...

annoying anyway, because phone calls interrupt whatever I am doing. With email, you send your message, and the other party reads it when they get around to it. Unlike radio, email is 99.99999% reliable. If you send it, it will get through. And you can include pictures, sounds, videos, and whatever else helps you support your message. How many times I've heard on the air "Have you heard W9XYZ today? I'm trying to get a message to him!" Why fuss? Send it by email!

Maybe you think computers and the internet are too difficult to learn. I say: if you can pass a ham license exam, then yes, you can figure out how to use the internet.

Maybe you are afraid of getting a computer virus, or that people will snoop on you thru your computer. It is true that there are a lot of BAD things on the internet, and you DO have to take some easy precautions when you use it. That's a separate article, if someone wants me to write it.

Antenna Do's and Don'ts Continued...

the same price, but offer UV protection. I ended up using TV mast which comes in about 4 foot sections that slide into each other. Put WD 40 on the sections that slide into each other and you will be able to get them apart if they aren't up to long. 5 sections got me up close to where I wanted to be, and it held the G5RV as well as the 2 m ground plane. I tried 6 sections, but after the wind took it down twice, I went back to 5.

My G5RV is made for 80 threw 10. As I recall, it is a little over 100 feet long, and it has a long section of ladder line that goes from the horizontal wires to a ballun that matches your coax, so you can get it into the house and your equipment. I never did get the twin lead completely off the ground, but the antenna worked fairly well. I picked up Russia, much of Europe, The Canary islands, much of South America, Mexico, Canada and coast to coast here in the states. Not bad for feeding it with what I found out later to be 50 feet of Radio

Sometimes I hear people say "radio is better than internet, because the internet might go down in a disaster or emergency." That's fine, but please notice that MOST of the time, we are NOT in an emergency, and the internet is up. My internet connection is as reliable as my electric utility is, which is actually very very dang reliable.

The only other reason for avoiding the internet that I've heard from hams is: they just like doing things "the old-fashioned way." Well, if that's what you prefer, I won't try to talk you out of it. I assume you also like riding your horse instead of a car, that you like your icebox better than an electric refrigerator, and you have some good explanation for why you bought a radio rig that was designed and built in 2016, instead of using a spark-gap and cats-whisker.

Shacks inside coax. I didn't even know they made inside coax, and when I discovered it a lot was explained. I told you I learn a lot the hard way. I have also discovered that the coax you buy should be the best you can get for the band or bands that you are going to use it for. A poor quality coax can cause you more problems then you ever thought possible, including wild and fluctuating SWR, as well as incoming and out going signal loss. Inside coax takes the SWR up so high when it rains that it knocks you off the air. Lesson learned.

I was telling one guy several months or maybe years ago about some of my stupid mistakes, and I commented that as an extra, I shouldn't be making those mistakes. He commented back that having the license only gave me the right to make bigger mistakes, and I just continue to prove it. I am having fun though, and that's what it is all about. I am learning to plan a little better when I do a project however.

73 Larry AC9GO { larry.schubert@gmail.com }

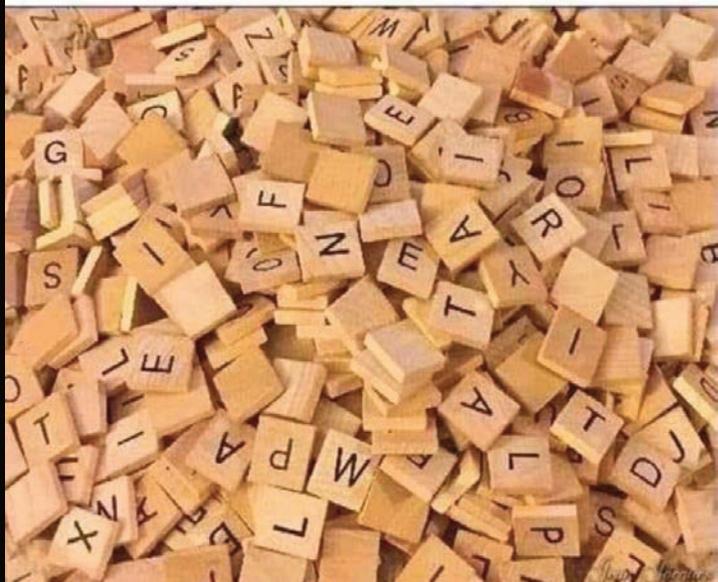
Ham Funny

OK, I GROUNDED BOTH BATTERY TERMINALS



**WITH 4/0 WIRE.
NOW WHAT?**

The "Ham Radio for Ikea Customers" book.



OK, I CLAMPED THE MIX 31 FERRITES TO MY USB CABLE.



NOW WHAT?



IS IT TOO LATE TO MAIL-IN THE WARRANTY?



If I add just one more antenna and increase power by 3db, I can bounce signals off Jupiter.

Area Nets

MONDAY

8:00 PM - VARA (Valley Amateur Repeater Association) Net 176.79 (-, 107.2)

8:00 PM - WX9MCS Repeater Ham Radio Traders Net (Echolink) 444.725

8:00 PM - McHenry County ARES/RACES Net 146.835 (-,91.5)(This net is also conducted on the 1st and 3rd Saturday's of each month @ 8:00pm)

8:30 PM - Kishwaukee Amateur Radio Club Net 146.730 (-, 100.0)

9:00 PM - 10 Meter Net 28.375 Rockford, IL

TUESDAY

7:00 PM - Rock County ARES / RACES 145.450 - PL 123.0 Janesville, Wi

8:00 PM - Tuesday Night Tech Net, 145.110 (pl 123.0). Tony, N9ARB, is net control.

9:00 PM - Wisconsin ARES / RACES Statewide - Digital 145.610 - KB9UNX-10 Winlink 2000

WEDNESDAY

7:00 PM - Wednesday Night Stephenson County ARES (Amateur Radio Emergency Service) Net, 147.390 + offset (pl 114.8). N9ARB, Tony, is net control.

7:00 PM - WX9MCS Repeater National Weather Service in Chicago/Romeoville Weekly Weather Net 444.725 (Echolink)

8:00 PM - Freeport Swap Net 147.390 Freeport, IL

8:00 PM - N9SZV Six Meter Net 51.540 FM Simplex

9:00 PM - Madison Amateur Radio Association 147.150 - PL 123.0 Madison, WI

THURSDAY

7:00 PM - Thursday Night Northern Illinois ARES (Amateur Radio Emergency Service) Net and Thursday Night Northern Illinois Skywarn net, on the 147.195 + offset (pl 114.8) repeater.

9:00 PM - ATV Net Video 439.250 (cable channel 57) Voice 144.340 Rockford, IL

FRIDAY

8:00 PM - Friday Night Fun Net - Every Friday night, on the 146.610 - offset (pl 114.8) RARA repeater with Jimmy, KC9GCR, as net control.

SATURDAY

8:00 PM - McHenry County ARES/RACES Net 146.835 (-,91.5) This net is conducted on the 1st and 3rd Saturday's of each month (also ever Monday @ 8:00pm)

SUNDAY

4:30 PM - Illinois ARES Net 1st & 3rd Sundays of the month 145.350 - PL 107.2 (Chicago) 46.925 - PL 100.0 (Kane County)

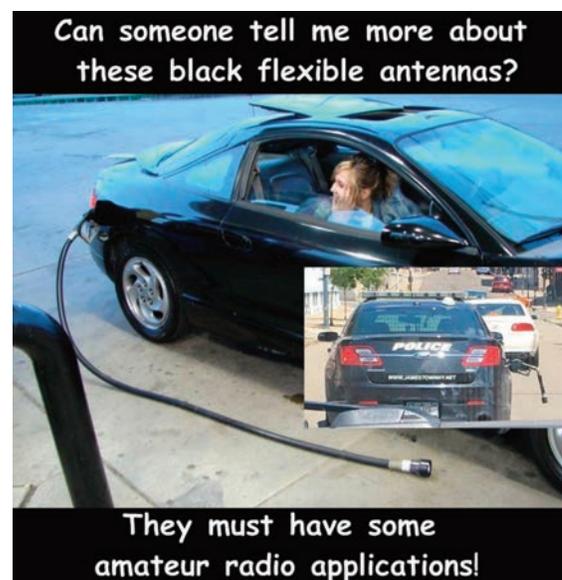
7:30 PM - Arrow Net 144.410 Woodstock / Mc Henry

8:00 PM - Big Thunder ARES Net 147.375 - PL 100.0 Belvidere, IL

8:00 PM - Southern Wisconsin Listeners (SWL) Net 147.150 - PL 123.0 Madison, WI

OTHER NETS

HF Net Information - Head on over to the RARA website and take a look at the "Nets" page. We now have listings and links to great HF nets.





**Sept 13-14
2019**



- [Home](#)
- [History](#)
- [Program](#)
- [Contest U/DX-U](#)
- [Schedule](#)
- [Prizes](#)
- [Exhibits](#)
- [QSL Checking](#)
- [Location & Lodging](#)
- [Registration](#)
- [Links](#)
- [Contact W9DXCC](#)

The 67th W9DXCC DX Convention and Banquet

SAVE THE DATE!

W9DXCC 2019 will be held September 13-14 2019 at the Pheasant Run Resort in St. Charles, IL.

Make your hotel reservations now !

Register for the Convention and Banquet here.

Friday September 13 - Contest University and DX University Sessions

Saturday September 14 Presentations --

W9DXCC is an **ARRL** approved Operating Specialty Convention



- * **V84SAA DXpedition - K08SCA**
- * **Ducie Island 2018 DXpedition - N6HC**
- * **How Do Our Signals Propagate? - K9LA**
- * **Low Band Receive Antennas for Small Spaces - K9AY**
- * **The Future of Amateur Radio Equipment - WB1GCM**
- * **DX Marathon - K9EL**
- * **ARRL Forum - W9XA, K9LA, AD9I, W9WU**
-
- * **Special Banquet Keynote Speaker ***
- "The Early Days of MFJ" - Martin F. Jue K5FLU**



Martin F. Jue, K5FLU, is the founder/owner of several companies, including MFJ Enterprises, Hy-Gain, Cushcraft, Ameritron, Vectronics and others. He holds numerous patents on specialized technology, especially in the area of T network field tuners.

Photos of 2018 W9DXCC have been posted on the W9DXCC Facebook page.

Rules: 2019 North American QSO Party (CW/SSB/RTTY)

1. Eligibility: Any Amateur Radio licensee may enter.
2. Object: To work as many North American stations as possible during the contest period.
3. North American Station: Defined by the ARRL *DXCC List*, with the addition of Hawaii.
4. Contest periods:

Jul y/ August 2019 Event s

RTTY: 1800 UTC July 20 to 0600 UTC July 21, 2019 (third full weekend in July)

CW: 1800 UTC August 3 to 0600 UTC August 4, 2019 (first full weekend in August)

SSB: 1800 UTC August 17 to 0600 UTC August 18, 2019 (third full weekend in August)
5. Entry Classifications: a) Single Operator (SO):
 - i) One person performs all transmitting, receiving, and logging functions as well as equipment and antenna adjustments.
 - ii) Access to spotting information obtained directly or indirectly from any source other than the station operator, such as from other stations or automated tools, is prohibited.
 - iii) Only one transmitted signal allowed at a time.
 - iv) May operate 10 out of the 12 hours of the contest. Off-times must be at least 30 minutes in length. In order to count as off-time, the difference between the times of consecutive contacts must be greater than or equal to 31 minutes (i.e, 30 intervening minutes, during which no contacts occur). The contest period ends at 05:59:59 UTC.
 - v) Any use of assistance such as spotting networks, skimmers and the like will place the operation into the multioperator category.

b) Multioperator Two-Transmitter (M2):

 - i) More than one person performs transmitting, receiving and logging functions, etc.
 - ii) Single operators using assistance such as spotting networks and skimmers
 - iii) A maximum of two transmitted signals at any given time, each on a different band. Both transmitters may work any and all stations.
 - iv) Starting when the first QSO on a band is logged, a transmitted signal cannot transmit on a different band until 10 full minutes have passed. Any QSOs made on a different band before 10 minutes have passed will not count for scoring. The other station will receive full credit for the QSO.
 - v) May operate for the entire 12 hours of the contest.
 - vi) May use assistance such as packet spotting networks, skimmers and the like
 - vii) Multioperator stations are required to use one name throughout the entire contest.
6. Output Power: Maximum of 100 watts from the output of the final amplifier. QRP (5 W) entries will be recognized in the results. Entries from stations choosing to use more than 100 W will be classified as check logs. Entries found to use more power than claimed will be disqualified.
7. Mode: CW only in CW parties. SSB only in phone parties. RTTY only in RTTY parties.
8. Bands: 160, 80, 40, 20, 15, and 10 meters only, except no 160 meters for the RTTY contest. You may work a station once per band. Suggested frequencies are 1815, 3535, 7035, 14,035, 21,035 and 28,035 kHz (35 kHz up from band edge for Novice/ Tech) on CW; and 1865, 3850, 7225, 14,250, 21,300, and 28,500 kHz (28,450 kHz for Novice/Tech) on SSB.
9. Station: All radio transmitters, receivers and antennas used by an entrant must be associated with one station, either at a fixed geographical location or as a mobile/portable station. A station may be operated remotely. Use of multiple stations during the contest using the same call sign, whether directly or remotely operated, is prohibited. Entrants must use only one call sign per station operated and may not work themselves.
10. Exchange: Operator name and station location (state, province or country) for North American stations; operator name only for non-North American stations. Multioperator stations are required to use a single name throughout the entire contest.
11. Multipliers: Multipliers are all 50 US states, including Alaska and Hawaii, the District of Columbia (DC), the 13 Canadian provinces/territories (British Columbia, Alberta, Saskatchewan, Manitoba, Ontario, Quebec, New Brunswick, Nova Scotia, Prince Edward Island, Newfoundland-Labrador, Yukon, Northwest Territories, and Nunavut) and other North American entities as defined by the ARRL *DXCC List*. Non-North American countries, maritime mobiles and aeronautical mobiles do not count as multipliers but may be worked for QSO credit. Multipliers count again on each band.
12. Valid Contact: A valid contact consists of a complete, correctly copied and legibly logged two-way exchange between a North American station and any other station. Proper logging requires including the time in UTC and band for each contact. The use of non-Amateur Radio means of communication or the use of Amateur Radio modes or bands different than those specified for the contest to solicit contacts during the contest period is prohibited.
13. Scoring: Multiply total valid contacts by the sum of the number of multipliers worked on each band.
14. Team Competition: You may wish to form a team with fellow NAQP participants. If so, your team must consist of two to five Single-Operator stations whose individual scores are combined to produce a team score. Although clubs or other groups having more than five members may form multiple teams, there are no distance or meeting requirements for a team entry. Teams must be registered prior to the start of the contest. Use one of the following online forms to register your team:
 CW team registration: www.ncjweb.com/cwnaqpteamreg SSB team registration: www.ncjweb.com/ssbnagpteamreg RTTY team registration: www.ncjweb.com/rttynagpteamreg These team registration forms automatically provide confirmation of team registration by return e-mail. Inclusion of team infor-

Comming Fast....

We need to start thinking about our table count for this years event.
Let a board member know if you plan to sell some gear
this year and how much table space you will
need to display it.

Thank you....
Randy AC90F

2019 Radio Expo

Northern Illinois' Largest Hamfest

Sunday September 29th, 2019

- Dealers!
- Radios!
- Computers!
- Electronics!
- Raffles!

Talk-In Repeaters
146.760 - 107.2 PL CFMC

Boone County Fairgrounds
8791 IL-76, Belvidere, IL 61008

Indoor Market 8am-3pm
Flea Market 6am-3pm
Breakfast - Lunch

Bring The Family
Hourly Drawings

VEC Testing 9am-Noon

RV's or Motor Homes
Camping
Water-Electric \$35



MAKING HAM RADIO FUN

Advance Tickets - \$8.00 - At the Gate - \$10.00 - Kids under 12 Free Tickets required with Tables

Name & Call _____ # of Tickets _____ x \$8 = _____

Address _____ All tables _____ x \$15 = _____

City, State, Zip _____

Phone _____

\$10.00 - Inside Electric _____ Outside Electric _____

Make Check payable to: _____ Total _____

Chicago FM Club
1118 N. Carlyle Ct.
Arlington Heights, IL. 60004

For event questions: Call 773-614-4733
Email wa9orc@gmail.com
Flyer on website <http://www.chicagofmclub.org>
CFMC reserves the right to make any necessary changes required
Vendor setup is Saturday, September 28th from 9:00 - 4:00 PM with security over night.

RARA Membership Form

If you would like to join the Rockford Amateur Radio Association, please fill out the form below and mail it (with the membership fee payment) to the address shown at the bottom of the form. If you would like to join at our next meeting (see cover for meeting details), fill out the form and bring the form with your payment to the meeting and see our treasurer. **Thank you for your support!**



MEMBERSHIP APPLICATION

website: w9axd.org

Membership Type: New (New memberships after July 1st are 1/2 price) Renewal

Annual Fees: \$20 - Student (up to age 24)

\$35 - Adult (25-61 years old) \$25 - Senior (Starts the year you will turn 62)

Above rate includes the
RARA monthly newsletter, HamRag (website download)
HamRag via USPS: \$12 extra

Name: _____

Call Sign: _____

Email Address: _____

Address: _____

Town: _____ State: _____ Zip: _____

Home Phone #: _____ Work #: _____

Cell #: _____ Ext: _____

Radio Interests: _____

May we make your phone and e-mail available for other RARA members only? Yes No

Comments: _____

RETURN THE COMPLETED FORM TO:
ROCKFORD AMATEUR RADIO ASSOCIATION
P.O. BOX 8465
ROCKFORD, ILLINOIS 61126

All membership applications to become either a new member or to be reinstated as a member of RARA must be approved by the RARA board.

Approved: _____ Membership Year ____/____/____ to ____/____/____