



# FOND DU LAC AMATEUR RADIO CLUB



## — FDL 73 —

www.fdlhams.com

November 2022

Join Us On Sunday Evenings For Our Weekly Net — 1930 hrs. 145.430 MHz — Tone 97.4 Hz

### 2022 Club Officers

President:	Dave McCumber N9WQ
Vice-President:	Joe Scheibinger K9VY
Secretary	Lloyd Vandervort N9RPU
Treasurer	Doug Schultz N9EZF
Sgt-at-Arms:	Paul Bleuel KC9NAA
Board Member	Justin Buell KB9YET
Board Member	Ron Keller KC9YVL
Board member	Bill Kieckbusch KG9IO

### Committee Chairs

Contesting	Jack Heil KG9IN
Education	Jack Heil KG9IN
Scholarship	Jack Heil KG9IN
Field Day:	Jack Heil KG9IN
Parades / Trailer	Justin Buell KB9YET
Net Manager	Doug Schultz N9EZF
Newsletter	Doug Schultz N9EZF
Newsletter layout	Joe Scheibinger K9VY
Public Service	Ed Beltz N9PJQ
Publicity/Program	Joe Scheibinger K9VY
Repeater	Lloyd Vandervort N9RPU
Testing	Doug Schultz N9EZF
Truck & Trailer	Ron Keller KC9YVL
Trailer Design	Justin Buell KB9YET
TVI	Lloyd Vandervort N9RPU
Web Site:	Tim Braun W9AAV
Christmas Party	Paul Bleuel KC9LFI

Each committee has several members. If you are interested in serving on a committee, please contact the chairperson and volunteer your services.

### FARC Volunteer Examiners

**Managing VE - Doug Schultz N9EZF**  
 Jack Heil KG9IN - Dick Finn KC9ZVW  
 Joe Scheibinger K9VY - Wally Meyer K9WKM  
 Paul Tvrdy N9KLLK - Tom Powell KC9VXR  
 Pete Leonard AA9UU - Bill Kieckbusch KG9IO

### Mailing Address

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 PO Box 53  
 Fond du Lac, WI 54936-0053  
 E-mail: fdlhams@fdlhams.com

### Newsletter Submissions:

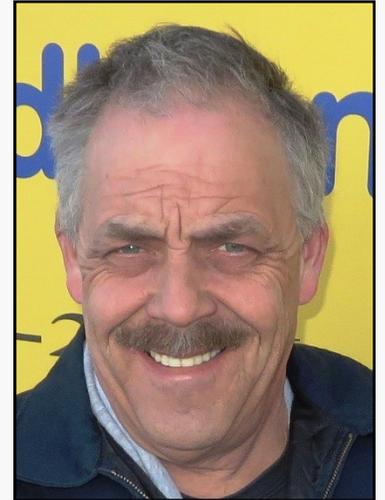
Please email Editor Doug Schultz N9EZF  
 schultz74@charter.net

**FARC FDL 73 Newsletter**  
*design and concept*  
 by Dick Finn KC9ZVW

## THE PRESIDENTS CORNER

By: Dave McCumber N9WQ

**HELLO EVERYONE**  
**FROM SUNNY BEAUTIFUL DOWNTOWN**  
**NORTH FOND DU LAC!**



It has been a spectacular month! There has been a lot going on with the Prefix contest last weekend and the ongoing DX-peditions I was able to work the Is. of OGASAWARA and Indonesia! Making contacts with both on 15 meters! The bands have been on fire and we must take advantage of it or it will be like about 3-4 years ago when nothing was heard unless you had a big antenna system. Now you can work the great ones with a moderate antenna and limited power. I worked a guy QRP in Arizona the other night with 4 watts on 15 meters again. So I hope to see every one at the next meeting and we can discuss all the NEW DX YOU ALL WORKED! HAPPY SIGNALS FROM YOUR PRESIDENT N9WQ!

### OUR NEXT MEETING: MONDAY NOV 14TH

**When: Monday November 14, 2022 at 7:00 pm**

**Where: Moraine Park College Room A-112**

**235 N National Ave, Fond du Lac, WI**

**Please Bring a Friend (or new member) to the meeting!**



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### WHAT'S INSIDE?

**ENTERTAINMENT** Fort Myers Disaster

- President's Corner by Dave McCumber
- Meeting in our Usual Place, Room A-112
- Meet John Portune W6NBC
- Magnetic Loop Antennas
- Meet Tom Powell KC9VXR
- FARC Christmas Party
- Election of Officers
- Dues are Due for 2023
- Testing Dates for December and 2023
- Treasurers Report
- Secretary's Report
- Our Trailer Get's a New Home
- Membership Drive
- Our Heritage Page
- Upcoming Events
- New Classified Page
- FARC Downloads
- Membership Roster by Call Sign
- Membership Application To Print Out

### MEETING ROOM A-112



### Moraine Park Meeting Room A-112

We will be meeting once again in the World Room at MPTC. Even though the construction project is over, it is still easier to use the front entrance . Use the main front entrance.



### Official FARC Goody Table Set Up At Meeting by the Door

Back when we were meeting before Covid, we always had a table set up where you could select from some amazing things that other Ham radio operators would bring in to share. Piles of magazines, books, and even some hardware was brought in to borrow and give away. So it's time to clean out the radio shack of the accumulated stuff you don't want any more over the year of the pandemic. If you have old magazines, this is a great way to help distribute knowledge of our great hobby! Take them home and when you are done reading them bring them back next month and put them on the table for the next ham! And if you have anything to sell, bring it and attach a note to it showing how much you want for the item and who you are. **Older magazines are always welcome!**

### Hey FARC! How are we doing ?

#### Publication Corrections and Distribution

The "FDL 73" newsletter is compiled and distributed by the members of the Fond du Lac Amateur Radio Club. It is distributed by E-mail free of charge to all its members. Members are encouraged to send copies freely to other Ham Radio enthusiasts, electronic hobbyists, and friends. The newsletter is the heartbeat of the club and members are encouraged to participate by lending stories, experiences, and expertise. Deadline for submission is 10 days before the next advertised meeting. For corrections and submissions please send them to [backstagelive@gmail.com](mailto:backstagelive@gmail.com).



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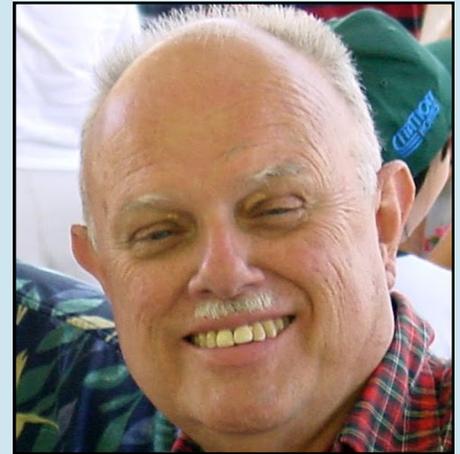
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**ENTERTAINMENT** Through Education

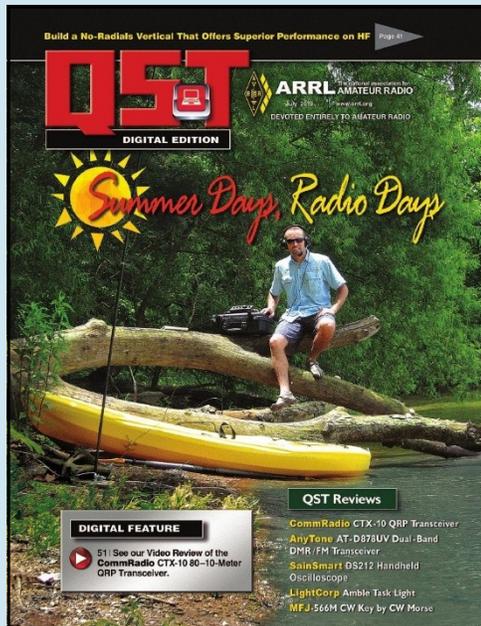
# JOHN PORTUNE W6NBC MAGNETIC LOOP ANTEN-



Special thanks to Dave McCumber for suggesting this topic for our Educational series. John Portune would be considered the “Ham’s” Ham! John writes for QST magazine and other radio related publications, he operates his own educational website, and he appears at ham radio clubs all over the world as a guest speaker. John will be joining us at our November meeting.

John is a native of Los Angeles, CA. He was licensed in 1965 and received his Extra in 1972. John was a 10 yr. resident of UK and his call was MØGCK. Licenses include GROL, General Radio Telegraph. Bachelor’s degree in Physics, Oregon State University 1960. He was a Career TV broadcast television engineer/instructor, KNBC Ch 4 Los Angeles, Sony Broadcast, San Francisco. Ham magazine author: QST (over 25 articles to date) and others. John is active on HF, VHF, UHF - SSB, FM, digital modes, ham satellites. Other interests are Steam Railroading, pipe organ and sushi enthusiast! He’s married to KF6OEB with 3 children and 12 grandchildren + .

We have a big meeting planned for the month of November. A great guest, and election of officers. See you there!



# Superior Performance from a Unique HF Vertical

John Portune, W6NBC

Ground-mounted HF vertical antennas are popular for their low-angle radiation, reasonable size, and simplicity. They are, however, noisier than horizontal antennas and have no directional gain unless used in phased arrays. However, I have found a way to build a no-radial, small-footprint, ground-mounted vertical that outperforms other verticals of the same size. It is predominantly horizontally polarized for lower noise, has 5 – 7 dBi of directional (azimuth) gain, and has the same low-angle radiation of a conventional vertical.

This no-radial wire-loop vertical was an Honorable Mention winner in the 2018 QST Antenna Design Competition.

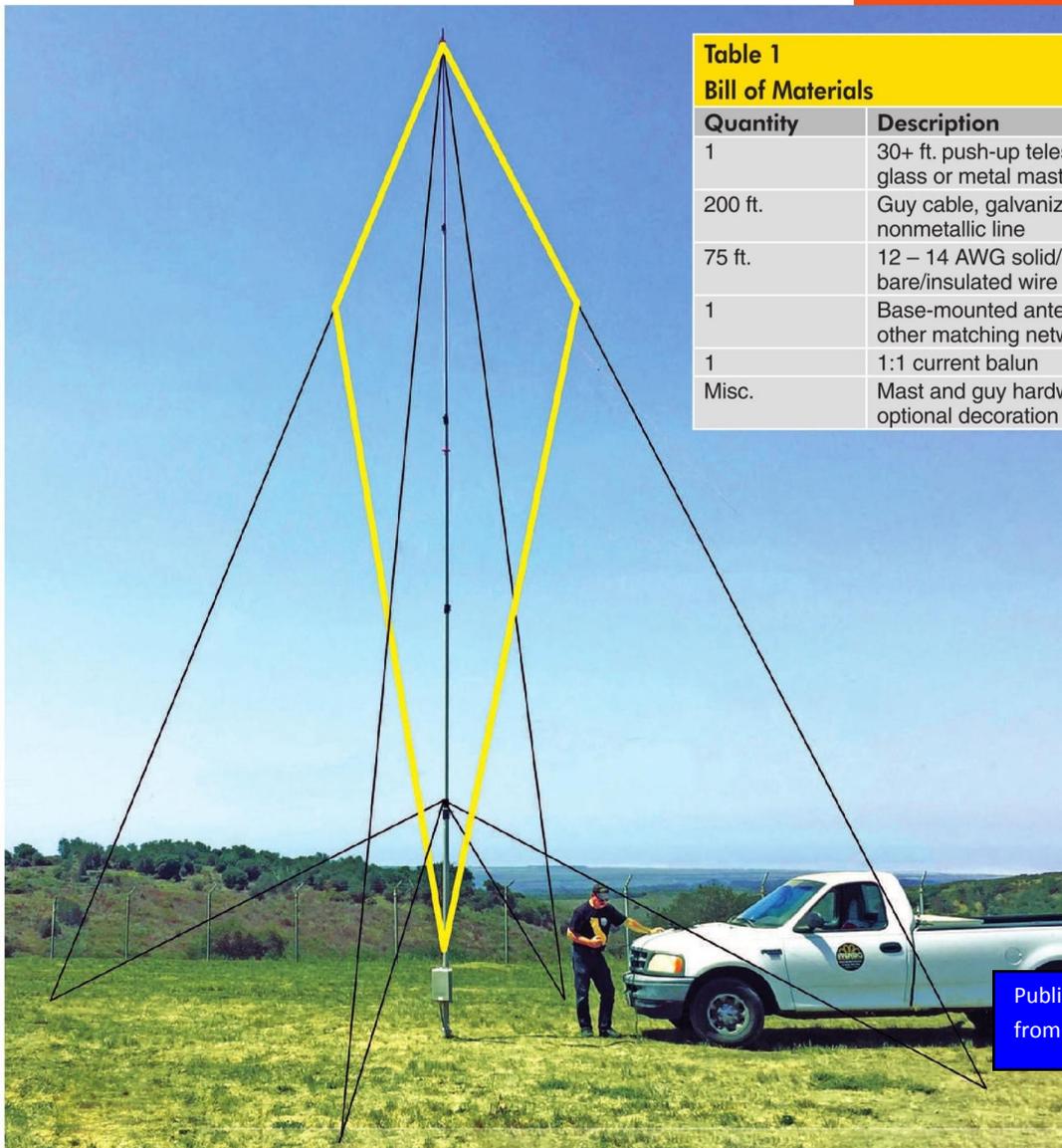


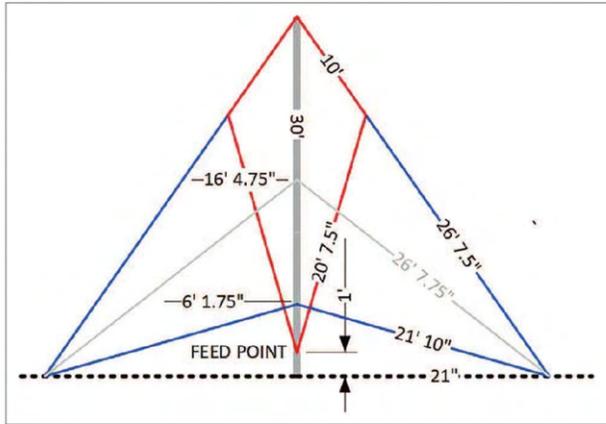
Table 1

## Bill of Materials

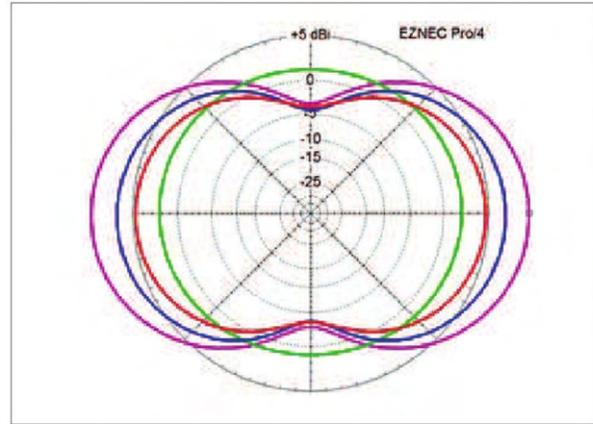
Quantity	Description
1	30+ ft. push-up telescoping fiberglass or metal mast
200 ft.	Guy cable, galvanized steel, or nonmetallic line
75 ft.	12 – 14 AWG solid/stranded, bare/insulated wire
1	Base-mounted antenna tuner or other matching network
1	1:1 current balun
Misc.	Mast and guy hardware and optional decoration

Figure 1 — The kite-shaped loop vertical installed at my radio club site. Loop wires are emphasized in yellow and the guy wires are shown in black.

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from QST Magazine



**Figure 2** — Dimensions of the kite-shaped wire-loop vertical (red) with a full set of guy wires (blue).



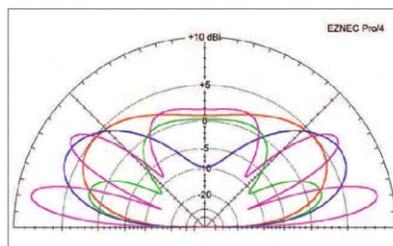
**Figure 4** — Azimuth patterns and gains. Twenty meters is shown in red; 15 meters in blue; 10 meters in green, and 6 meters in violet.

Figures 1 and 2 show my solution to the major weaknesses of a conventional vertical. It is a kite-shaped closed loop operating as a vertical without the need for radials. Easily made from ordinary wire and a push-up mast, it efficiently works from 20 through 6 meters. It will also work on 40 and 80 meters with reduced — but still useful — performance. Table 1 shows the list of materials necessary for this antenna.

### Design Concepts

As stated by notable ham author L. B. Cebik, W4RNL (SK), “Most human-made noise [QRM] is vertically polarized and of ground wave propagation. Hence, [conventional] ground-mounted verticals are more susceptible [to noise]. A horizontal antenna generally shows an immediate 3 dB reduction.” While a conventional vertical cannot be horizontally polarized, a closed loop connected at the top and bottom can be. It may be either predominantly vertically or horizontally polarized, depending on how it is fed.

My kite shape gives this antenna two advantages. First, it is easy to construct using only antenna wire, guy lines, and a mast. The top antenna wires share 10 feet of two of the guys, and the bottom wires are supported by the guys. Metal guys with egg insulators are best for a permanent



**Figure 3** — Elevation radiation patterns and gains across different bands. Twenty meters is shown in red; 15 meters in blue; 10 meters in green, and 6 meters in violet.

installation, whereas nonmetallic guys are best for portable operation.

The second advantage became apparent during modeling with *EZNEC*.<sup>1</sup> All the parts of most antennas do not radiate equally. This kite-shaped vertical radiates more from the top than a conventional vertical. Greater radiation height reduces ground losses and improves gain.

Figures 3 and 4 show the *EZNEC* elevation radiation patterns and gains of the loop on 20, 15, 10, and 6 meters over average soil. As a comparison, a conventional no-radial half-wavelength vertical dipole with the same base height has an elevation gain of roughly 0.22 dBi at a wave angle of 19°.

<sup>1</sup>Several versions of *EZNEC* antenna modeling software are available from developer Roy Lewallen, W7EL, at [www.ez nec.com](http://www.ez nec.com).

A further aspect of this loop is that its natural resonant frequency is approximately 16.8 MHz, so it must be properly matched at the antenna. This can be accomplished with a remote auto-tuner, a manual tuner, or a relay-switched matching network enclosed in a weatherproof box. Because the antenna feed is balanced, it is important to isolate the tuner from ground with a 1:1 current balun at the tuner input. Do not ground or ground-mount the tuner. You can eliminate the tuner if you use the loop on only one band. In this case, make the loop a full wavelength on the desired band to match directly to coax with a simple L-matching network.

Finally, whereas a conventional vertical is omnidirectional, this kite loop can have 5 – 6 dBi gain in the familiar bidirectional donut-shaped pattern, as shown in Figure 4. However, at some mast heights and loop lengths, one or more bands may not exhibit gain.

As with a horizontal wire dipole, you may wish to orient the loop to favor one direction. Alternatively, you can make the gain electrically steerable by mounting a second loop rotated by 90° on the other two guys. Then a remote or manual switch box could switch the loops, either individually, in series, or parallel, or in-phase or reverse-phased. A second set of guys greatly decreases wind sway.



**Figure 5** — The team of (from left to right) Chip, W6MY; Mark, KM6FXR; Dayle, KK6HNS, and Doug, KK6ITL, helped set up the antenna at our radio club site.

**Table 2**  
Azimuth and Elevation Gains and Wave Angles

Band (meters)	dBi Gain	Angle
20	4.88	38
17	6.15	32
15	6.58	29
12	4.62	23
10	2.21	12
6	9.71	10

### The Mast

Most heavy-duty push-up masts are suitable. Surplus camouflage poles or even a tree can be used. My choice is an MFJ-1906HD 38-foot heavy-duty push-up telescopic fiberglass mast by MFJ Enterprises. The 1-inch mast section is used for the cross arm. Any higher mast sections are not used. The wire and guy dimensions shown in Figure 2 are designed for this mast. A suitable steel mast is the Channel Master CM-1850 40-foot telescopic push-up mast. For a metal mast, the top of the loop and the feed point must be insulated. As I have verified with *EZNEC*, a metal mast does not affect the loop performance.

For highly portable situations, a lighter-duty fiberglass mast, a wind-

sock pole, or even a large fishing pole can be fit with lighter wire and guy wires. For the MFJ fiberglass mast, I created a set of 3D-printed parts for the guy rings, feed hardware, and clamps for one and two booms. The files are free for download at [w6nbc.com/kite](http://w6nbc.com/kite).

Erecting a push-up mast is straightforward. Begin by attaching the guys and antenna wires to the collapsed mast, laying them out straight in the appropriate directions. A stake driven into the ground and a bungee cord or a commercial mast anchor should be used to secure the bottom of the mast. Then, elevate the collapsed mast and secure it with the bottom set of guys.

Next, solicit assistants to keep the antenna wires and guy cables straight and to steady the mast with gentle tension on the guys as the mast sections go up. Figure 5 shows my construction crew at a recent club event.

Standing on a ladder, push up and secure the higher sections. Start with the top (smallest diameter) section and work downward. A common 6-foot step ladder is usually sufficient (see Figure 6). A 10-foot straight ladder, leaned against the guyed



**Figure 6** — Dayle Good, KK6HNS, pushing up mast sections while helpers gently hold the top guy wires.

bottom section of the mast, may be needed for a metal mast.

### Conclusion

On-the-air experience has shown this unconventional, kite-shaped, mainly horizontally polarized vertical to be an excellent performer in my antenna-restricted area. It has nearly the gain of a small beam and definitely exceeds the performance of conventional verticals. It is also well suited for ARRL Field Day and portable situations — the collapsed mast, antenna wire, cables, and hardware travel well in my RV.

Photos by the author.

John Portune, W6NBC, a native of Los Angeles, California, has been licensed since 1965. He was also a 10-year resident of the UK where he was licensed as M0GCK. John received a BS in physics from Oregon State University in 1960. He is retired from KNBC Channel 4 in Burbank, where he was a broadcast television engineer/instructor. John has been well published in *QST*, *World Radio*, and *73 Magazine*. He is active on HF, VHF, UHF, SSB, AM, CW, FM, and digital modes, and is an AMSAT satellite user. John is also currently a Volunteer Examiner team leader and is a frequent speaker at ham clubs. When not involved with ham radio, John enjoys steam railroading, pipe organs, and is a sushi enthusiast. You can reach John at [jpportune@aol.com](mailto:jpportune@aol.com).

For updates to this article, see the *QST* Feedback page at [www.arrl.org/feedback](http://www.arrl.org/feedback).





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### WHAT IS A MAGNETIC LOOP ANTENNA?

A **loop antenna** is a [radio antenna](#) consisting of a loop or coil of wire, tubing, or other [electrical conductor](#), that is usually fed by a balanced source or feeding a balanced load. Within this physical description there are two (possibly three) distinct types:

**Large loop** antennas (or *self-resonant loop antennas*) have a perimeter close to one or more whole [wavelengths](#) at the operating [frequency](#), which makes them self-[resonant](#)<sup>[a]</sup> at that frequency. They are the most [efficient](#) of all antenna types for both transmission and reception. Large loop antennas have a two-lobe [radiation pattern](#) at their first, full-wave resonance, peaking in both directions *perpendicular* to the plane of the loop.<sup>[b]</sup>

**Halo antennas** are shortened [dipoles](#) that have been bent into a circular loop, with the ends not quite touching. Some writers prefer to exclude them from loop antennas, since they can be well-understood as [bent dipoles](#), others make halos an intermediate category between large and small loops, or the extreme upper limit for small loops: In shape and performance halo antennas are very similar to small loops, only distinguished by being self resonant and having much higher [radiation resistance](#). (See [discussion below](#).)

**Small loop** antennas (or *magnetic loops*) have a perimeter smaller than half the operating wavelength (typically no more than  $1/3 \sim 1/4$  [wave](#)). They are used mainly as receiving antennas, but are sometimes used for transmission despite their reduced [efficiency](#); loops with a circumference smaller than about  $1/10$  [wavelength](#) become so inefficient they are rarely used for transmission.<sup>[c]</sup> A common example of small loop is the ferrite (loopstick) antenna used in most AM broadcast radios.<sup>[d]</sup> The radiation pattern of small loop antennas is maximum at directions *within* the plane of the loop, opposite first-resonance large loops.

**Loop Antennas** may be in the shape of a circle, a square or any other closed geometric shape that allows the total perimeter to be slightly more than one wavelength. The most popular shape in [amateur radio](#) is the [quad antenna](#) or "quad", a self-resonant loop in a square shape so that it can be constructed of wire strung across a supporting 'x' shaped frame. There may be one or more additional loops stacked parallel to the first as [parasitic elements](#) or driven elements, creating an [antenna array](#) which is unidirectional with increased [gain](#). This design can also be turned 45 degrees to a diamond shape supported on a '+' shaped frame. Triangular loops have also been used for vertical loops, since they require only one elevated support.<sup>[e]</sup> A rectangle twice as high as its width obtains slightly increased gain and also matches  $50 \Omega$  directly if used as a single element.<sup>[f]:§ 9.6.2</sup>

Unlike a [dipole antenna](#), the [polarization](#) of a resonant loop antenna is not obvious from the orientation of the loop itself, but depends on the placement of its feedpoint.<sup>[g]</sup> If a vertically oriented loop is fed at the bottom, its radiation will be horizontally polarized; feeding it from the side will make it vertically polarized.

The **radiation pattern** of a first-resonance loop antenna peaks at right angles to the plane of the loop.<sup>[3](p 235)</sup> At the lower shortwave frequencies a full loop is physically quite large, and can practically only be installed "lying flat", with the plane of the loop horizontal to the ground, consisting of wires supported at the same height by masts along its perimeter.<sup>[2]</sup> This results in horizontally-polarized radiation peaking toward the vertical which is generally less desired.

Above about 10 MHz the loop is approximately 10 meters in diameter, and it becomes more practical for the loop to be mounted "standing up" – that is with the plane of the loop vertical, in order to direct its main beam towards the horizon. If small enough, it may be attached to an antenna rotator in order to rotate that direction as desired. Compared to a dipole or folded dipole, a vertical large loop wastes less radiated power toward the sky or ground, resulting in about 1.5 dB higher gain in the two favored horizontal directions.

Additional gain (and a uni-directional radiation pattern) is usually obtained with an array of such elements either as a driven endfire array or in a Yagi configuration (with all but one loop being parasitic elements). The latter is widely used in amateur radio in the "quad" configuration (see photo).

Low frequency one wavelength loops "lying down" are sometimes used for NVIS operation. This is sometimes called a "lazy quad". Its radiation pattern consists of a single lobe straight up (radiation toward the ground which isn't absorbed is reflected upward). The radiation pattern and especially the input impedance is affected by its proximity to the ground. If fed with higher frequencies the antenna input impedance will generally include a reactive part (and a different resistive component) requiring use of an antenna tuner. As the frequency increases, the radiation pattern breaks up into multiple lobes which peak at lower angles relative to the horizon which is advantageous especially at higher frequencies.

*(Special Thanks to Wikipedia for this article)*



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MEET

**TOM POWELL**  
**KC9VXR**



Tom Powell KC9VXR got interested in amateur radio through Steve Smith W9GPI. Both were involved with the Red Cross at the time. Tom got licensed as a Technician on April 30, 2012 as KC9VXR. He bought a Yaesu FT-60R handheld and used a j-pole VHF antenna that

Steve had got for him which was mounted at about 15 feet off the ground. With his HT and the J-pole Tom was able to check into the Sunday night 2 meter net. Wally Rueger KC9WQ also gave Tom a Motorola VHF base station radio and Steve Smith gave Tom a power supply to use with the base station VHF transceiver.

In December, 2012 Tom took the General class license exam and passed. Now that Tom was a General class ham he wanted to get on the HF bands. Dennis Paulin KB9OFM sold Tom a Yaesu FT-900 transceiver in the winter of 2013 along with an inverted L wire antenna which got Tom on air on the HF bands. Tom eventually changed his HF antenna with Dennis' help to a 20 meter extended Zepp wire antenna which Tom can use on 10 meters thru 80 meters. He enjoys a lot of different facets of Amateur Radio. Tom enjoys DXing and contesting. He likes operating both Wisconsin QSO Party and ARRL Field Day. He also likes doing AREs and communicating on bike races such as Race the Lake. He primarily operates SSB but would like to get more involved in one of the digital modes since he has the Signal Link interface for his HF radio. He likes working with the members of Fond du Lac Amateur Radio Club because of their knowledge and willingness to help other members get on the air.

Tom has a number of other hobbies that he is involved with. They include: golf, bowling, poker night, gardening and wine making. He is also active in the Fond du Lac County Red Cross where he leads a team of 10 volunteers who respond to fires and flooding. Tom usually puts in about 6 hours a week with his Red Cross duties. Tom likes to fish especially for large mouth bass on Spring Lake with his small aluminum boat with an electric trolling motor mounted on it. Tom and his wife have kayaks and use them in the summer. Tom and his wife like to travel and have travelled to Mexico, Jamaica and Aruba in the past as well as Florida.

Tom has served as Club Vice President three times in the past and he has headed up Field Day effort one year. See Tom's Shack on the next page....

*Doug Schultz*



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### OFFICER ELECTIONS

#### Officers to be Elected

- President
- Vice President
- Secretary
- Treasurer
- Board Member

### ELECTION OF OFFICERS AT NEXT MEETING

It's that time once again to elect our club leadership for the year 2023. We ask all members in good standing to come to the November meeting and take part in our annual Election of Officers.

Just before the end of the business meeting, we will take nominations for President, Vice President, Treasurer and Secretary. This year we will have 1 Board Member to vote for.

After the nomination process, we will pass out ballots and we will take your vote for the people nominated for the positions. The new officers will begin their reign starting on January 1, 2023. See you at the November Meeting! Don't forget to bring a pen!



### NEW TESTING DATES ANNOUNCED FOR 2023

I have scheduled four exams for 2023 for the following dates February 18, 2023, April 15, 2023, October 7, 2023 and December 9, 2023 in room O-122 at MPTC. Everyone taking amateur exams is required to get a FRN from the FCC website to put on their FCC application as well as provide a photo ID. I have a suggestion for people taking the Technician exam to also study for the General exam since if you pass the Tech. exam on the first try you can take the General exam for free. Cost of the exam is \$15. Preregistering is encouraged, but walk-ins are allowed at the exams. To pre-register for any of the exam sessions call Doug Schultz at 920-922-3088 or via email at: [schultz74@charter.net](mailto:schultz74@charter.net).

Doug Schultz



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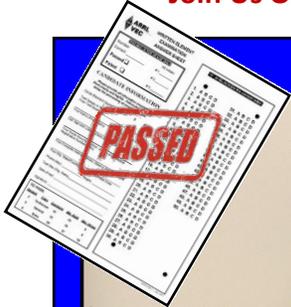


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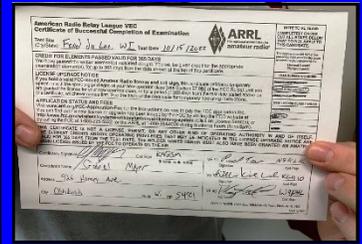
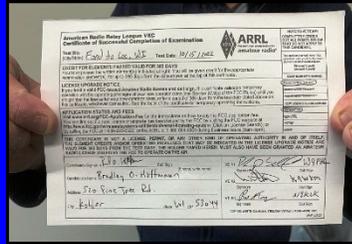
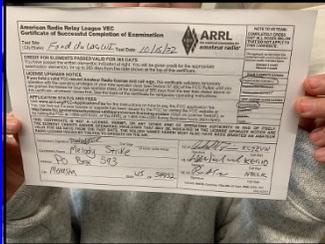
PASSED



### CONGRATULATIONS TO FOUR NEW HAMS!

AND ONE IS ONLY 10 YEARS OLD!

Doug Schultz and the gang did it again! Congratulations go out to these four new ham license holders! More to come in December.



### NEXT EXAM DATE DECEMBER 10TH



The Fond du Lac Amateur Radio Club Volunteer Examiners have scheduled another testing date for 2022. Our last testing date for the year December 10, 2022 in room O-122 at MPTC. Everyone taking amateur exams is required to get a FRN from the FCC website to put on their FCC application as well as provide a photo ID. I have a suggestion for people taking the Technician exam to also study for the General exam since if you pass the Tech. exam on the first try you can take the General exam for free. Cost of the exam is \$15. Preregistering is encouraged, but walk-ins are allowed at the exams. To pre-register for any of the exam sessions call Doug Schultz at 920-922-3088 or via email at: schultz74@charter.net. Face masks are no longer required at MPTC.



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### FARC CHRISTMAS PARTY

Paul Bleuel KC9NAA has accepted the position of Chairman for our annual Christmas party. Here is what we have so far.

The party will be held at Gino's Italian Restaurant on Johnson in Fond du Lac on Wednesday, December 7th. Cocktails start at 5:00 PM with dinner being served at 7:00 PM. The price is only \$18.95 and it's payable when you attend. Here is the cool part! Gino's will be closed to the public that evening! We have the entire place (and the bar) to ourselves while we celebrate Christmas together!

The menu will include a buffet style presentation with Beef Stroganoff, Chicken Alfredo, Spaghetti & Meat Balls, Salad, and Gino's famous Bread Sticks served at the tables along with coffee.

Invitations have been sent out using "Sign up Genius," a web based sign up platform. You don't need to give out a credit card or send cash. Just enter your name so we can total the number that are coming. You can pay the bartender at the party for the dinner using either cash or credit card. Don't forget to bring a gift for the exchange! That's always a fun time and a great tradition!  
For more information contact Paul Bleuel at 920-921-6015



### 2022 Fond du Lac Amateur Radio Club Dues



The 2022 club dues are due now. Club membership dues are \$15 for individuals, \$7.50 for students and family memberships are \$20 . You can pay Doug Schultz at the next meeting. If you can't attend, you can mail them to:

**Doug Schultz N9EFZ**  
**Fond du Lac Amateur Radio Club,**  
**P.O. Box 53,**  
**Fond du Lac, WI 54936**



# FOND DU LAC AMATEUR RADIO CLUB



## — FDL 73 —

www.fdlhams.com

November 2022

Join Us On Sunday Evenings For Our Weekly Net — 1930 hrs. 145.430 MHz — Tone 97.4 Hz

### Treasurer's Report

Month of October 2022



Doug Schultz N9EZF

	Previous Income & Month Expenses	Current Total	Savings	Checking	CD	Other
<b>FDL RADIO CLUB</b>						
Truck Fund	0.00	0.00	0.00	0.00		
Emergency Svc Fund	2,098.07	0.44	2,098.51	1,632.52	465.99	
General Use Fund	4,584.11	58.65	4,642.76	3,449.26	1,193.50	
Savings Account	25.00	0.00	25.00	25.00		
Petty Cash Fund	19.12	0.00	19.12	19.12		
<b>TOTALS</b>	<b>6,726.30</b>	<b>6,785.39</b>				
<b>FDL REPEATER ASSN.</b>						
Repeater Fund	153.83	0.15	153.98	0.00	153.98	
<b>TOTALS</b>	<b>153.83</b>	<b>153.98</b>				
<b>TOTALS</b>			<b>19.12</b>	<b>25.00</b>	<b>5,081.78</b>	<b>1,813.47</b>

Income		
Raffle		24.00
Dues		33.50
CD Interest		1.74
	<b>TOTAL</b>	<b>59.24</b>
Expenses		
0.00	<b>TOTAL</b>	<b>0.00</b>





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### Meeting Minutes



Lloyd Vandervort  
N9PRU

### CLUB MINUTES FOR OCT 2022

The meeting was called to order at 7:00 PM by Joe Scheibinger K9VY Vice President presiding. The Skype program was cancelled due to Steve Smith's illness. We went around the room with introduction of attendees of the meeting. Janice Marie talked about her condo in Fort Myers being flooded due to Hurricane Ian's storm surge and she showed some pictures of the destruction. The pictures are in the newsletter.

Joe Scheibinger K9VY then asked if everyone had seen the minutes in the newsletter. A motion was made to approve the minutes in the newsletter and there was unanimous approval of the minutes as published.

Joe Scheibinger K9VY then asked Doug Schultz to give the Treasurer's report and any bills that need to be paid. A motion was made by Jack Heil KG9IN to approve the report and to pay the bills. The motion was seconded by Cully Kowal KS0D. The motion passed.

Doug Schultz N9EZF reported that we had five people interested in taking amateur exams on Pct. 15, 2022 at MPTC. The next amateur exams are scheduled for Dec. 10, 2022 at MPTC.

Cully Kowal KS0D mentioned some states prohibit from having a scanner or VHF radio in your vehicles despite the fact you have an amateur license.

Our 501C3 application was completed on Aug. 28, 2022 on the IRS website but they have a backlog of applications at the IRS.

Joe Scheibinger K9VY then asked if anyone wants a topic for entertainment or put on a workshop let Joe know so he put it in the newsletter.

Joe Scheibinger K9VY then asked the club if we could get enough help to organize the holiday parade this year for KFIZ. We all said we could not get enough help to organize it in 2019 but we did it anyway. We all said we can't do it this year with even less help available the first Saturday in December.

Joe Scheibinger K9VY said he applied to the ARRL Foundation for a grant of \$2800 for the club to outfit the inside of the club trailer. Justin Buell KB9YET said that the club will have to move the club trailer out of his driveway for the winter. Joe said he would have to measure it to see if it would fit in his hangar otherwise Dave McCumber N9WQ it could be parked in his business parking lot for the winter.

Continued....



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### CLUB MINUTES FOR OCTOBER 2022 (CONTINUED)

Joe Scheibinger K9VY then brought up the club Christmas party and he suggested Gino's. He said they would be open for us on a Wed. night Dec. 7? Jack Heil KG9IN then asked about Jim and Linda's with Joe responding they didn't want us last year. Jack Heil KG9IN then suggested we go to El Patron on Fourth Street. Joe then asked if anyone is against Gino's for the club Christmas party and asked for a poll on Gino's for the Christmas party. The poll showed the club members willing to have the Christmas Party at Gino's.

Lloyd Vandervort N9RPU said that Dec. 7<sup>th</sup> is his birthday. Joe Scheibinger K9VY and Paul Bleuel KC9NAA will finalize the planning on the Christmas party by the next meeting.

Joe Scheibinger K9VY will be adding a classified section in the newsletter for members to buy and sell equipment.

The club received two tickets to the FCARC swapfest on Nov. 6<sup>th</sup> and Doug Schultz N9EZF won the raffle and the tickets.



Lloyd Vandervort  
N9RPU

### THANK YOU FOR BEING A MEMBER!

Club membership dues are \$15 for individuals, \$7.50 for students and family memberships are \$20. You can pay Doug Schultz at any meeting. Sign up a new or expired member that has been away for more than a year and you will get your dues FREE of charge with the new "22 in 22" incentive program. Send your dues or application (attached in newsletter) to:

Doug Schultz N9EZF  
Fond du Lac Amateur Radio Club,  
P.O. Box 53,  
Fond du Lac, WI 54936

Check out the new poster on the right! This poster is also attached to the email that is bringing your newsletter. Please attach the picture to your Facebook page! Announce to your friends that we will be meeting Monday night and tell them how much fun you can have being a Ham Radio Operator. There are applications for membership inside this newsletter. Print them off and for every member you bring to the club, you receive a years membership FREE!

FOND DU LAC AMATEUR RADIO CLUB

Discover  
**HAM RADIO**

*Meet People From All Around the World*

There has never been a better time to get your Ham Radio license! The test is fast and easy, and your accomplishment will give you a lifetime of fun. Come and join the rapidly growing family of Amateur Radio hobbyists here in Fond du Lac!

**COME TO A MEETING!**  
Second Monday of the Month at 7:00 PM  
Moraine Park Technical College  
Fond du Lac, Wisconsin  
For a free newsletter, send an Email to:  
backstage@v@gmail.com

WWW.FDLHAMS.COM | PH: 920 237-1450



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## "22 IN 22"

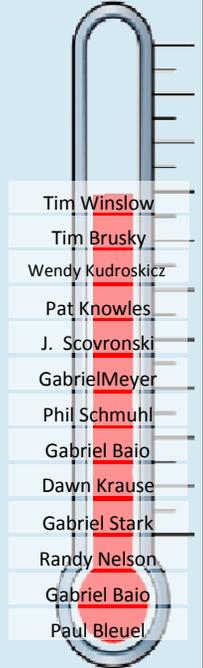
### MEMBERSHIP DRIVE

WE STILL HAVE 9 NEW MEMBERS TO GO GO!

WE HAVE THREE NEW MEMBERS to report this month as of the writing of this newsletter. Tim Brusky N2TIM, Tim Winslow N91CD, and Wendy Kudrowicz. Everyone who brings in a new member, or an old member absent for a year or more that wants to re-join our club, will get one year's worth of dues paid! **To make sure you get credit, look at the attached membership form and fill in your name. You will see a red box labeled "sponsor."** Put your name and call sign in the box and when the new member joins, you get a free year of membership dues! (9 new members to go!)

**Let's make 2022 the best year for our club. For the October meeting, call up a buddy and invite them along for the fun!**

## GOAL



## OUR TRAILER GETS A NEW HOME FOR THE WINTER!

A huge thank you goes out to club member Richard Finn KC9ZVW for the donation of his beautiful hanger for the winter months. The location of this hanger is behind locked gates at the Fond du Lac County Airport. The hanger is a beautiful fully insulated building with heat and electric.

This will not only provide security, but will give our trailer a longer lifespan. Richard has been a very long term member of the club and was our previous newsletter editor and club historian. We still use the format that Richard built for our newsletter today. On behalf of the club, thanks for this great donation and your help.





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### heritage

It's fun to go back in history and look at the achievements we have made as Amateur Radio operators. So throughout the year we will investigate old and fun news stories about local radio and local Hams from our area. So let's go back and take a peek at our older and recent FARC QSL cards!

Special Event  
Boy Scout-GOTA

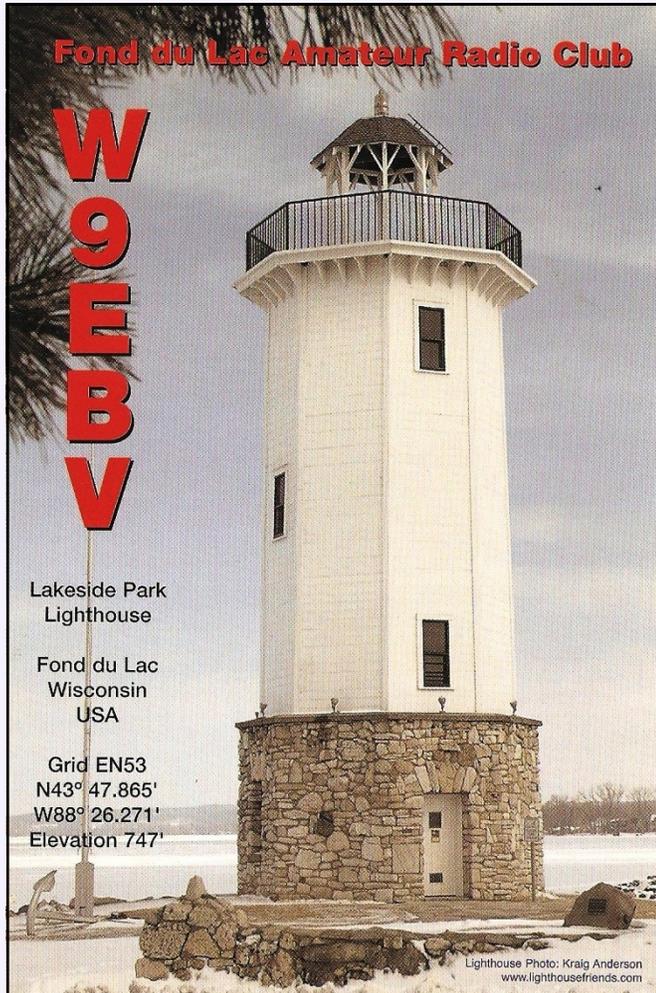
FDLARC  
P.O. Box 53  
Fond du Lac, WI  
54935-0053-USA

**W9EBV**  
Fond du Lac

Confirming QSO With	Date (Z)	UTC	Freq / 2 X Mode	Power out	Report

73's from FDLARC

Grid EN53



Fond du Lac Amateur Radio Club

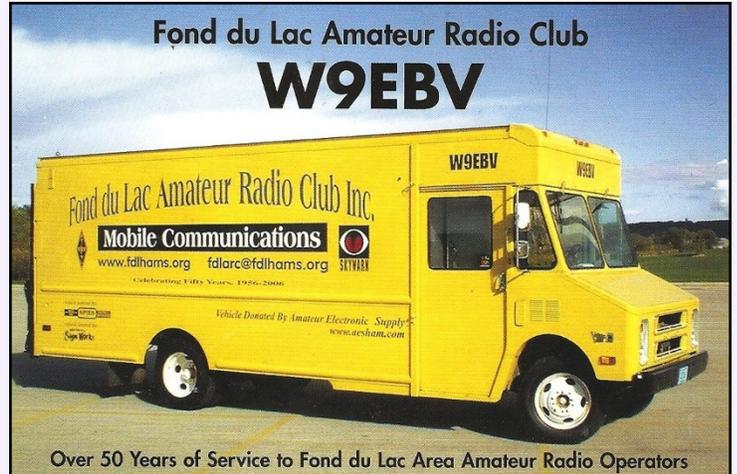
**W9EBV**

Lakeside Park  
Lighthouse

Fond du Lac  
Wisconsin  
USA

Grid EN53  
N43° 47.865'  
W88° 26.271'  
Elevation 747'

Lighthouse Photo: Kraig Anderson  
www.lighthousefriends.com



Over 50 Years of Service to Fond du Lac Area Amateur Radio Operators



FARC Radio Station set up at Goodrich! (1995)



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### HAMFEST/CONVENTION

11/05/2022 - Friendly Fest

Location: Milwaukee , WI Type: ARRL Hamfest Sponsor: Milwaukee Repeater Club Website: <http://MRC91.org>

### HAMFEST/CONVENTION

11/06/2022 - FCARC Swapfest

Location: Kaukauna, WI Type: ARRL Hamfest Sponsor: Fox Cities Amateur Radio Club, Inc. Website: <http://www.fcarc.club/hamfest.php>

**FARC Meeting** November 14th Moraine Park Fond du lac 7:00 PM

**FARC Christmas Party** December 7. Cocktails at 5, dinner at 7. See the newsletter for more information.



Congratulations to Tom Sturtivent for purchasing the Kenwood from Dennis! Just to show you how great our members are, Dennis is helping Tom get on the air for the first time by helping him with the assembly of his antenna. Tom is a new member of the FARC and now that he is retired, he is exploring one of his dreams with ham Radio. Hopefully, he will be licensed in December! Congrats Tom and Thanks Dennis. Notbad for a first time rig!



Last call for sale items: 5 band Hex beam \$250  
HI tower with all additional bands \$350  
Todd Beay  
[montanarvrs@gmail.com](mailto:montanarvrs@gmail.com)

Please send you classified adds to [backstagelive@gmail.com](mailto:backstagelive@gmail.com)



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### FARC RECORDED MEETINGS



*Videotaped by Lloyd Vandervort N9PRU*

**CLICK HERE**

FARC - W3AO Field Day Presentation

**CLICK HERE**

FARC - Bob Heil Ham Radio Presentation

**CLICK HERE**

FARC - WWV Presentation

**CLICK HERE**

FARC - Pacific Antenna Talks Kit Building

**CLICK HERE**

FARC - Scanner Master Presentation

**CLICK HERE**

FARC - WBAY Field Trip TV (11/17/15)

**CLICK HERE**

FARC - WBAY transmitter tour

**CLICK HERE**

FARC - NooElec

**CLICK HERE**

FARC - Elecraft Radio

**CLICK HERE**

FARC - Ed Tobias & Morse Code

**CLICK HERE**

FARC - Salvation Army Emergency Communications

**CLICK HERE**

FARC - KFIZ, Morning Show with Bob Hoffmaster

**CLICK HERE**

FARC - HAARP interview from Alaska

**CLICK HERE**

FARC - The "DZ Kit" Ham Radio Kits (02/12/2018)

**CLICK HERE**

FARC - Christmas Island DXpedition with Bill Kendall (04/09/18)

**CLICK HERE**

FARC - Restoring Old Antique and Classic Radios (5/17/2019)

**CLICK HERE**

FARC - SDR Radio with Steve Brightman (01/10/2022)

**CLICK HERE**

FARC - Paul Ewing and his Incredible DXpeditions Around the World

**CLICK HERE**

FARC - Fond du lac Amateur Radio Club presents Dave Sumner IRAU

**CLICK HERE**

FARC - Solar Cycles with Carl Luetzelschwab K9LA (03/14/22)

**CLICK HERE**

FARC - The Collection & Legend of George E. Ulm W9EVT (04/11/22)

**CLICK HERE**

FARC - Field Day 2022 radio interview on KFIZ (6/20/22)

**CLICK HERE**

FARC - Radio Deluxe Software with Dr. Carper (7/11/22)

**CLICK HERE**

FARC - Hiding the Antenna in the Attic with John Portune (8/15/22)



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## SCANNING THE BANDS

### CLIP AND SAVE FOR YOUR SHACK

The FCC mandates that everyone using the airwaves have some sort of license, and each license holder is required to make their use transparent. Information is available on the web about all users of the airwaves. For you scanner users, here are some government frequencies in use.

#### DEA FREQUENCIES

CH.1 OPERATIONS RPT. 418.625/416.050 MHZ.  
CH.2 OPERATIONS RPT. 418.90/416.325 MHZ.  
CH.3 SURVEILLANCE/STRIKE FORCE 418.750 MHZ.  
CH.4 SURVEILLANCE/STRIKE FORCE 418.675 MHZ.  
CH.5 OPERATIONS RPT. 418.825/415.60 MHZ.  
CH.6 OPERATIONS RPT. 418.95/416.20 MHZ.  
CH.7 OPERATIONS RPT. 418.975/417.025 MHZ.  
CH.8 OPERATIONS SIMPLEX 418.975 MHZ.

#### UNITED STATES MARSHALS

CH.1 OPERATIONS RPT. 163.20/163.8125 MHZ.  
CH.2 OPERATIONS SIM. 163.20 MHZ.  
CH.3 OPER. RPTS. EXTENDERS 164.60/163.8125 MHZ.  
CH.4 OPER. SIMPLEX 164.60 MHZ.  
CH.? AIR/MOBILES 163.8125 MHZ.  
CH.? OPER. REPORTED 162.7125/170.80 MHZ.  
BUREAU OF PRISONS  
CH.1 170.875 MHZ.  
CH.2 170.925 MHZ.  
CH.3 170.650 MHZ.

#### INTERNAL REVENUE SERVICE

CH.1 CID OPER. RPT. 165.950/167.00 MHZ.  
"IRS" CH.2 CID OPER. DIRECT 167.000 MHZ.  
CH.3 CID OPER. DIRECT 165.950 MHZ.  
USDT COMMON 166.4625 MHZ.  
CH.1 IRS. INVESTIGATIONS 166.00/167.10 MHZ.  
CH.2 IRS. INVESTIGATIONS 166.00 MHZ.  
? USDT COMMON FREQ. 165.4625/166.5875  
CH.1 CID OPER. (UHF) 418.225/414.700 MHZ.  
CH.2 CID OPER. DIR 418.225 MHZ.  
CH.3 CID TACTICAL 418.175 MHZ.

#### FED. COMMUNICATION COMM.

167.05 MHZ.  
BUREAU OF ALCOHOL, TOBACCO & FIRE ARMS  
CH.1,3 OPERATIONS 165.2875/166.5375 MHZ.  
AND FIREARMS "BATF" CH.4 USDT COMMON 166.4625 MHZ.  
CH.5 OPERATIONS 165.9125 MHZ.  
USDT COMMON 165.4625/166.5875 MHZ.  
LOCAL OFFICES 165.35 MHZ.  
USDT COMMON 166.4625 MHZ.  
CH.2 TACTICAL 166.5375 MHZ.

#### U.S. CUSTOMS

CH.1,2 OPERATIONS 165.2375/166.4375 MHZ.  
CH.3 USDT COMMON 166.4625 MHZ.  
CH.4 TACTICAL 165.7375 MHZ.  
CH.5 USDT COMMON 165.4625/166.5875 MHZ.  
OPERATIONS 162.825 MHZ.  
TACTICAL CAR-CAR 165.85 MHZ.

#### LOW POWER FEDERAL FREQUENCIES

UNDER 30 WATTS 163.10, 418.050, 418.575 MHZ.  
SOME USES ARE: EAR MICS, 5 WATTS 27.575, 27.585 MHZ.  
SECRET COMM., SOME SURV. 166.75, 166.875 MHZ.

#### SECRET SERVICE NATIONWIDE

RPT. 165.375 MHZ.  
BAKER 165.7875 MHZ.  
FEDERAL EMERGENCY AGENCY DC AREA 16.95 MHZ.  
FEDERAL PROTECTION AGENCY 415.20, 417.20 MHZ.  
FEDERAL DISASTER NETWORK 170.20 MHZ.  
FEDERAL GOVT. SHARED  
408.40 MHZ.  
418.075 MHZ.  
165.85 MHZ. TACTICAL

#### FEDERAL BUREAU OF INVESTIGATIONS

163.425/163.925 MHZ.  
"FBI" RPT. 163.725/163.775 MHZ.  
RPT. 163.80/164.55 MHZ.  
RPT. 162.6375/162.7875 MHZ.  
RPT. 163.9375 MHZ.  
F5 RPT. 163.9125 MHZ.  
F1 RPT. 167.3125 MHZ.  
F2 SIM. 167.45 MHZ.  
F3 167.6125 MHZ.

#### ALSO SEARCH THROUGH THESE FREQUENCIES

164.00 - 164.55 MHZ.  
167.2375 - 167.80 MHZ.  
U.S. DEPT. OF LABOR WV. 168.35 MHZ.  
OHIO 173.6125, 406.20 MHZ.  
KY. 164.70 MHZ.  
ALL PORTABLES 406.20 MHZ.  
162.685 - 162.98 MHZ. 163.20 - 163.99 MHZ.  
165.21 - 165.95 MHZ. 166.40 - 166.75 MHZ.  
167.05 - 167.80 MHZ. 168.80 - 168.95 MHZ.



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1	First	Last	Call Sign
2	Fred	Lloyd	AA7BQ
3	Pete	Leonard	AA9UU
4	Todd	Beay	AC9EX
5	Doug	Iverson	AC9XW
6	Jim	Balthazor	K9ADX
7	David	Zittlow	K9DU
8	Dot	Olig	K9FDL
9	Chuck	Mahnke	K9HX
10	Ray	Grenier	K9KHW
11	Carl	Luetzelschwab	K9LA
12	Joe	Scheibinger	K9VY
13	Walter	Meyer	K9WKM
14	Patrick	Knowles	K9ZPU
15	Steve	Weinert	K9ZW
16	Brad	Gehrt	KA9JDE
17	Ed	Steinfeld	KB1ZJK
18	Dennis	Paulin	KB9OFM
19	Larry	Lamont	KB9POP
20	Peter	Fox	KB9WZD
21	Justin	Buell	KB9YET
22	Kirk	Everson	KC9FZE
23	Don	Chapman	KC9KZQ
24	Marjean	Buck	KC9LFL
25	Neal	Buck	KC9LFN
26	Brian	Turkiewicz	KC9LFR
27	Joe	Lauber	KC9MDY
28	Randy	Nelson	KC9MYG
29	Paul	Bleuel	KC9NAA
30	Tom	Trethewey	KC9ONY
31	Brad	Freund	KC9QYP
32	Tony	Pass	KC9QYR
33	Larry	Mielke	KC9RUE
34	Jeremiah	Alderden	KC9SGL
35	Donna	Blend	KC9TFN
36	Buddy	Larson	KC9UVJ
37	Tom	Powell	KC9VXR
38	Blend	Bowen	KC9VXV
39	Tom	Karrmann	KC9VZY
40	Laurie	Winchell-Beltz	KC9YQS
41	Ron	Keller	KC9YVL
42	Doug	Murray	KC9ZVT
43	Dick	Finn	KC9ZVW
44	Fernando	Salazar	KC9ZVX
45	Lee	Clausen	KC9ZVZ
46	Donald	Bakke	KD0HCW
47	Dawn	Krause	KD9CAW
48	Mathew	Yates	KD9CSD
49	Gregory	Schmude	KD9EHB
50	Richard	Jarzyanka	KD9EMX
51	Isaac	Lundberg	KD9FPG



These are the devoted members of one of the best Amateur Radio Clubs in the Midwest, dedicated to community service, and dedicated to preserve and protect one of the greatest hobbies in the world.

Amateur Radio operators come from all walks of life -- doctors, students, kids, politicians, truck drivers, movie stars, missionaries and even your average neighbor next door. They are of all ages, sexes, income levels and nationalities. Whether through Morse Code on an old brass telegraph key, voice communication on a hand-held radio or computerized messages transmitted via satellite, all hams use radio to reach out to the world.



1	First	Last	Call Sign
2	Gene	Peterson	KD9IAG
3	Ted	Gustavus	KD9IAH
4	Derek	Giese	KD9IAN
5	Walter	Drees	KD9JAD
6	Matthew	Zimmerman	KD9KTY
7	Ben	Haack	KD9LVQ
8	Frank	D'Imperio	KD9OXO
9	Raymond	Teschke	KD9QLE
10	Bill	Hutchinson	KD9TQA
11	Gabriel	Meyer	KD9UWC
12	Mike	Kraus	KD9UWD
13	Gene	Olig	KD9ZP
14	Jack	Heil	KG9IN
15	Bill	Kieckbush	KG9IO
16	Cully	Kowal	KS0D
17	Tom	Murray	N0HOR
18	Tim	Brusky	N2TIM
19	Robert	Burrier	N2TSQ
20	Reinholt	Aschmotat	N8VDH
21	Doug	Schultz	N9EZF
22	Tim	Winslow	N9ICD
23	Paul	Tvrdy	N9KLK
24	Gabriel	Stark	N9NEZ
25	Ed	Beltz	N9PJK
26	Lloyd	Vandervort	N9RPV
27	Michelle	Lawrence	N9RQL
28	Mike	Lawrence	N9UA
29	James	Scovronski	N9WAM
30	Jim	Cole	N9WAP
31	David	McCumber	N9WQ
32	Timothy	Braun	W9AAV
33	George	Ulm	W9EVT
34	Steve	Smith	W9GPI
35	Ted	Neuburg	W9LUQ
36	Ted	Willett	W9NHE
37	Phil	Schmahl	W9PHL
38	Tom	Pachner	W9TJP
39	Ed	Sipple	W9VYO
40	Erling	Gruel	WB9OJD
41	Mark	Forss	WD9CYM
42	Dave	Witt	WD9W
43	Laura	Yates	
44	Scott	Kreis	
45	Debra	Drees	
46	Brad	Hansen	
47	Richard	Regent	
48	Tom	Sturtevant	
49	Gabriel	Baio	
50	Dave	Harms	
51	Wendy	Kudrowicz	



# FOND DU LAC AMATEUR RADIO CLUB, INC.

www.fdlhams.org • E-mail: fdlhams@fdlhams.org  
PO Box 53 • Fond du Lac WI 54936-0053



## MEMBERSHIP INFO & APPLICATION

*Please Print All Information  
Complete both sides of this Application*

Call \_\_\_\_\_ License Class \_\_\_\_\_ Date \_\_\_\_\_

Name \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Phone \_\_\_\_\_ Cell Phone \_\_\_\_\_

E-mail Address \_\_\_\_\_

Sponsor Name

Do you have a web site? If so, list here \_\_\_\_\_

### Membership Dues

Individual Dues are \$15 per year. Full-time student membership is \$7.50 per year. Family memberships are \$15 per year plus \$5 for each additional family member--if your spouse/son/daughter is licensed, please have him/her complete a separate Membership Application. Dues are payable upon acceptance of your Membership Application by vote of the membership at a Regular Meeting, and at the first meeting in January of each year thereafter.

NOTE: Dues for NEW members are pro-rated if joining after July 1st:

- Individual \$7.50    Student \$3.75    Family \$10 + \$2.50 for each additional family member

### Membership Application

I hereby apply for membership in the Fond du Lac Amateur Radio Club, Inc. I agree to abide by the Constitution and By-laws of the Club. And, recognizing that an organization does not run itself, I agree to serve on any committee or in any elected office to which I can give the proper time and attention, to the best of my ability. I understand that, as a member, I am expected to help at all events, including fund raising events that are sponsored by the Club. I will conduct myself appropriately both on the radio and in person so as to set a good example for other hams as well as the community.

Signed \_\_\_\_\_ Date \_\_\_\_\_

Please bring your Membership Application to a regular Club Meeting or mail it to the Club at the address on the top of this page.

## Background and Interests

Please tell us a little about yourself: Where you work; married; children; what other hobbies you are interested in?

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Please tell us a little about your "ham shack" and your interests in the Amateur Radio hobby. (Radio equipment, antennas, DX, contesting, rag chewing, HF, VHF, UHF, Packet, RTTY, Microwave, EME, satellite, emergency preparedness, etc...) If not yet licensed, are you into shortwave listening?

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How did you hear about the Club?

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## Security Preferences

- Do you want your phone number listed in the on-line Club Directory?  Yes  No
- Do you want your cell phone number listed in the on-line Club Directory?  Yes  No
- Do you want your E-mail address listed in the on-line Club Directory?  Yes  No

## Interests

- Are you a member of the ARRL (American Radio Relay League)?  Yes  No
- Are you interested in Emergency Services (ARES/RACES)?  Yes  No
- Are you interested in weather spotting (SKYWARN)?  Yes  No

The Club maintains several standing committees. Please indicate any that you would be interested in serving on (you may check more than one):  Testing  Contesting  Communications Van  Public Service  Fund Raising  Repeater  Field Day  Program  TVI  Education/Scholarship  Contesting  Web Site  Publicity/Newsletter  On-Air Nets