



# FOND DU LAC AMATEUR RADIO CLUB

## — FDL 73 —

www.fdlhams.com

February 2023

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

Tone 97.4 Hz



### 2022 Club Officers

President:	Bob Burrier N2TSQ
Vice-President:	Joe Scheibinger K9VY
Secretary	Tom Powell KC9VXR
Treasurer	Doug Schultz N9EZF
Sgt-at-Arms:	Paul Bleuel KC9NAA
Board Member	Justin Buell KB9YET
Board Member	Bill Kieckbusch KG9IO
Board member	Phil Schmahl W9PHL

### 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 N9PJK
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 N9KLK - Tom Powell KC9VXR  
Pete Leonard AA9UU - Bill Kieckbusch KG9IO  
Phil Schmahl W9MW

### Mailing Address

Fond du Lac Amateur Radio Club  
P.O. Box 53  
Fond du Lac, WI 54936-0053  
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### 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: Bob Burrier N2TSQ



Hello Everyone!

Well, the year is off to a brisk start! There are all sorts of club related activities underway. I appreciated the turnout at the January meeting. These discussions continued at the Board meeting, otherwise known as 'Chews & Brews' held at the Radisson on January 17<sup>th</sup>. These meetings are open to everyone and are a good time and will take place occasionally throughout the year.

The ideas for club activities have created a list we will need to further refine. To put some level of organization around these, we have identified champions to shepherd to club focus areas. Phil, W9MW will be overseeing actions around membership. Doug, N9EZF be coordinating our community-based efforts and Bill, KG9IO will spearhead topics related to learning, socializing, etc. This latter topic is one we had a hard time naming and Bill has suggested we call it Elmering. The champions will be working together and across the membership to help us integrate and place focus on topics that have the greatest impact.

Just as a teaser for things to come, our '23 in 23' membership campaign is kicking off with plans to reach out to hams in Fond du Lac County as well as establish an effort to expose kids to ham radio. Other interesting projects related to our community-based efforts such as field day, the Wisconsin QSO party as well as Elmering topics are coming along. Please come to the meeting to hear more and help shape these efforts.

In my shack I have continued to work many stations using FT8 and FT4 on the 10-, 12-, 15-, and 17-meter bands. Although not hearing the number of DXs stations from last November and December, there are still lots of QSOs to be had. Occasionally I am fortunate to get a new country on a band as well.

I look forward to seeing you all at the next meeting. We will be trying to improve the sound in the room with appropriate microphone and speakers. Also, please remember to bring along any ideas you may have for the betterment of our club.

73 for now, Bob (bobburrier@yahoo.com)

**NEXT MEETING - Monday, February 13, 2023**

**Where: Moraine Park Technical College**

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

**Meeting Starts at 7:00 PM Room B-124**



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## WHAT'S INSIDE?

ENTERTAINMENT ARES / RACES

President's Corner by Bob Burrier

Meeting Location Room B-124

Meet Ron Keller KC9YVL

FARC Featured on CBS 58

**NEW** 23 in 23 Membership Drive

Saying Goodbye to Gene Olig KD9ZP

Gene Olig Educational Initiative Proposal

Secretary's Report

Treasurers Report

Heritage Page

Upcoming Events

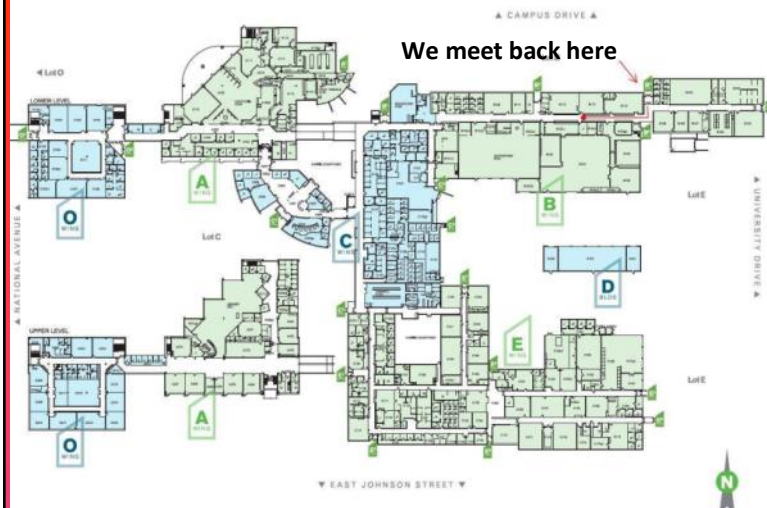
Classified Page

FARC Downloads

A Look at Linked Repeaters

Membership Roster by Call Sign

Membership Application To Print Out



### Moraine Park Meeting Room B-124

We will be meeting in our new location for our meetings. Drive to the north side of the building so you can park next to our new meeting room. There is ample parking and it's a short walk to the room. Look for B-124.



### 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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**ENTERTAINMENT**

**MEET**

**STAN PIEKARCZYK K9STN**  
**ARES/RACES EAST CENTRAL DISTRICT**  
**EMERGENCY COORDINATOR**

*Live Presentation for February*



ARES / RACES East Central District Coordinator Stan Piekarczyk K9STN will be our guest for the February meeting. The presentation will be on how the Amateur Radio Emergency Services (ARES) and Radio Amateur Civil Emergency Services (RACES) are designed, and how they interact with served agencies such as Emergency Management, and other agencies, plus the National Traffic System.

We will also present how to get involved with ARES including training requirements, and some key information on response and equipment. Finally we will discuss rumors in general and how they can damage the reputation of ARES, served agencies and amateur radio in general.



**RACES** stands for "Radio Amateur Civil Emergency Service," a protocol created by the Federal Emergency Management Agency (FEMA) and the Federal Communications Commission (FCC Part 97, Section 407). Many government agencies across the country train their Auxiliary Communications Service (ACS) volunteers using the RACES protocol. The volunteers serve their respective jurisdictions pursuant to guidelines and mandates established by local emergency management officials.

RACES volunteer operators are licensed radio amateurs certified by a civil defense agency able to communicate on Amateur Radio frequencies during drills, exercises and emergencies. They are activated by local, county and state jurisdictions and are the only Amateur Radio operators authorized to transmit during declared emergencies when the President of the United States specifically invokes the War Powers Act.



The Amateur Radio Emergency Service (**ARES**) consists of licensed amateurs who have voluntarily registered their qualifications and equipment, with their local ARES leadership, for communications duty in the public service when disaster strikes. Every licensed amateur, regardless of membership in ARRL or any other local or national organization is eligible to apply for membership in ARES. Training may be required or desired to participate fully in ARES. Please inquire at the local level for specific information. Because ARES is an Amateur Radio program, only licensed radio amateurs are eligible for membership. The possession of emergency-powered equipment is desirable, but is not a requirement for membership.

See you at the meeting in February to learn more about the services. Everyone is invited.





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**MEET**  
**RON KELLER**  
**KC9YVL**



Meet an outstanding Ham Radio operator, and a real asset to the FARC. Ron Keller has been a member since 2013 and always gives 100% to the club. Whether it's Field Day, club trailer project, Race the Lake, or any other project we do, Ron is there. So let's get better acquainted with him.

Ron has had an interest in severe weather spotting for a number of years prior to getting an amateur license. He received his Technician license in 2013 with our Fond du Lac VE group. Ron used the ARRL study guide to study for the Tech. exam. He has attended Storm Spotting classes in Kewaskum, Juneau, Oshkosh and Fond du Lac over the year. He enjoyed the Storm Spotting classes presented by Rusty Kapella who has since retired at the NWS. Ron still attends the storm spotter classes that are held each spring locally.

Since joining the club, Ron has been an incredible contester for our club's Field Day operations. It all started for Ron when he participated in ARRL Field Day in 2014 when we had some thunderstorms that particular Field Day at the campus. Ron got a chance to work some HF with Brad Freund KC9QYP in his truck that night at Field Day. That was an eye opener for Ron and he was hooked on HF. Ron got his General License in 2014 so he could get on the HF bands. Ron got his Extra class license in 2017 in San Antonio.

Ron Keller KC9YVL also enjoys contesting on the HF bands in the WI QSO Party, Winter Field Day as well as ARRL Field Day. His favorite thing about ham radio is building wire HF antennas and trying to improve their performance. Ron also likes to operate satellites with his Baofeng UV-5R and his handheld satellite antenna. Ron has a 43 foot HF vertical that is ground mounted with 28 radials under the antenna and he uses an Icom IC-7300 HF transceiver. His portable HF setup is an IC-7000 utilizing a Wolf River Coil vertical with 17 ft. Chameleon whip. He also has used offset center fed wire antenna along with end fed antennas as well ham stick dipoles. He runs IC-7000 from a deep cycle battery which he used to activate Lighthouse island at Lakeside Park. Ron is a "Satern" member for the Salvation Army and he checks into a "Satern" Net on VHF once a month. He uses an Alinco DR-735 transceiver and Diamond vertical antenna up about 20 feet. He also participated in a "Satern" activation at Camp Douglas as well as Camp McCoy utilizing communication equipment in a "Satern" food truck. He found the activation was a good learning experience.

Ron has also participated in providing communication with ARES for the Race the Lake bike race in Fond du Lac County and he has served as a club Board of Director.

We salute Ron Keller KC9YVL and his service to the Fond du Lac Amateur Radio Club.

*Doug Schultz*



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**ENTERTAINMENT**

## **FARC LIVE ENTERTAINMENT**

We have some really great LIVE entertainment scheduled for the next few months. We are always looking for member input for our entertainment portion of the meetings. If you have a particular interest in any form or more of Ham Radio, or if you would like to see a particular manufacturer give a presentation, please email me at [backstagelive@gmail.com](mailto:backstagelive@gmail.com). For the next 2 meetings, we will be using entertainment ideas that came from our members. All of the programs are educational. The nice thing about live entertainment is after the meeting, demonstrations could be given afterwards and lots of personal interactions can be exchanged with the guest. Please let me know what your interests are.



## **NEXT 2022 EXAM DATE FEBRUARY 18TH**

The Fond du Lac Amateur Radio Club Volunteer Examiners have scheduled another testing date for 2022. 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





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## **FARC FEATURED ON CBS 58 MILWAUKEE**

On a cold December morning at 6:00 AM, members of the Fond du Lac Amateur Radio Club met at President Bob's house for a special television presentation for CBS TV 58 in Milwaukee. A very special thanks to the members of the FARC for volunteering for this event!

<https://www.cbs58.com/news/ham-radio-operators-keep-classic-communication-style-alive>





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## Founding Member

# GENE OLIG KD9ZP

## 1936–2023



The FARC has suffered a tremendous loss with the passing of our good friend and founding member Gene Olig KD9ZP. Gene falls under the category of Ham Extraordinaire. When you hear his story as told by one of his best friends Dennis Paulin KB9OFM you will see how he fits in this category.

Eugene Albert "Gene" Olig, Sr., 86, died Sunday, January 8, 2023, at Maple Meadows Assisted Living in Fond du Lac. He was born in Fond du Lac on June 29, 1936. Gene was the first of seven children that included five sisters and one brother. He grew up in Fond du Lac where he attended St Joseph's Grade School and St Mary's Springs Academy. After graduating in 1955, Gene attended Marquette University in Milwaukee where he earned degrees in Electrical and Mechanical Engineering. He was then employed at Giddings & Lewis Machine Tool Company for 38 years. Gene married Dorothy Ann "Dottie" Freimark K9FDL from Berlin, WI in October 1971. Gene had many interests including wood working, computers, ham radio, model trains, hunting, and fishing. He was also a plumber and electrician, sharing his skills with family, friends, and co-workers.

The day after our board meeting, I had the honor of talking to one of his best friends Dennis Paulin about this amazing individual. You could hear the emotion in his voice.

So what kind of a Ham was Gene? According to Dennis, Gene absolutely loved Field Day! In fact, the story goes all the way back to the 60's, when Ham radio operators were legally obligated to keep complete logs. Dennis painted the picture of pitched tents, noisy generators, and great cook outs!

Gene and his wife Dot were County Hunters! There are around 3700 counties in the United States and Hams contest to see how many they can contact. Gene actually created a software program that helped you log these counties. Gene and Dot would hop in the mobile and travel from county to county and help Hams get their calls logged. Using a contact controller in Florida, Hams could tune in and the controller would let Hams know when there was an active county! If a Ham needed a nearby county for a logbook contact, Gene and Dot would drive to that county and make that contact!

*Continued....*





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Gene loved his Ham Fests! Dennis recalls a story when Gene and his wife Dot and two other Hams jumped into the truck and drove down to the Dayton Ham Fest. Back in those days, there was no Logbook of the World and Hams would have to bring their QSL cards to an event to have them verified. Dennis remembers having to wait in line with other Hams to get certified for contests.

Gene was known all over the country for his county hunting skills and grid square hunting. There are 488 grid squares in the contiguous 48 states. Each 2° by 1° area is about 100 by 70 miles. Working all grid squares is another contest enjoyed by Hams.

Back in the day, the County Hunter's Association was held in Appleton. Dennis remembers 2 Greyhound busses full of Hams coming for the love of the hobby, great food, and even live entertainment! Dennis was amazed at how many of these people know Gene on a first name basis! Dennis said "he introduced me to everyone."

On the day I wrote this article about Gene, I received an email from a Ham Radio vendor with something called the Amateur Radio Code. The code was written sometime back in 1928 and it expresses what a Ham Radio operator is. Gene had all of these qualities. What an incredible role model for our hobby. Rest in peace Gene and God bless your family. You will be missed by all.

### The Amateur's Code

The radio amateur is:

**CONSIDERATE**...never knowingly operates in such a way as to lessen the pleasure of others.

**LOYAL**...offers loyalty, encouragement, and support to other amateurs, local clubs, and the American Radio Relay League, through which amateur radio in the United States is represented nationally and internationally.

**PROGRESSIVE**...with knowledge abreast of science, a well-built and efficient station and operation above reproach.

**FRIENDLY**...slow and patient operating when requested; offers friendly advice and counsel to the beginner; kind assistance, cooperation, and consideration for the interests of others. These are the hallmarks of the amateur spirit.

**BALANCED**...radio is an avocation, never interfering with duties owed to family, job, school, or community.

**PATRIOTIC**...station and skills are always ready for service to country and community.

Joe Scheibinger K9VY

Photos by Dennis Paulin KB9OFM



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**Dr Jack Heil**

**KG9IN**

[heilj@uwosh.edu](mailto:heilj@uwosh.edu)



**PROPOSAL**

## **GENE OLIG EDUCATIONAL INITIATIVE**

**A PROPOSAL BY DR. JACK HEIL KG9IN**

Dear FARC Members,

Our recently departed colleague, Gene Olig KD9ZP was an Engineer, and he realized the importance of education in our society and to the success of our organization. He invested energy in developing classes, developed notebooks, and taught sessions on amateur radio. We spent hours discussing the best use of our knowledge and time.

A unique program at The Boys and Girls Club in Marinette, WI caught Gene's eye more than a decade ago. Gene, Dave Witt, and I made a day trip to Marinette to see the program. They had a dedicated room for youngsters to view and participate in amateur radio. Several pre-teens were busy in the room: one was operating third party; a 10-year-old girl, licensed, operated independently; an older ham taught theory to others. This provided after-school enrichment for these students. Note: many others were playing basketball, doing art projects, or other great activities elsewhere in the facility.

Amateur radio is one of the broadest educational hobbies. It can relate to Moon bounce, Sunspot cycles, atmospheric science, wave transmission, electronics, etcetera. It can motivate young people to consider STEM (Science, Technology, Engineering, Mathematics) as a career. Yes, I am one of those.

As a club we could do more than Wisconsin QSO Party and Field Day. Work to benefit our community could benefit our club immensely. We need younger, more energetic members to carry on. What is more energetic than a 10-year-old?! Let us start the discussion at the next FARC meeting.

The **proposal** is for us to seriously consider taking on educational initiatives in Gene's name. We should:

- o Access the club interest in furthering amateur radio education.
- o Establish reasonable goals.
- o Investigate alternative paths towards satisfying goals.
- o Invest time and money towards goals. Implement.

*73 Dr. Jack Heil KG9IN*





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### Treasurer's Report

Month of January 2022



Doug Schultz N9EZF

		Previous Month	Income & Expenses	Current Total	Cash	Savings Account	Checking Account	CD	Other
2									
3									
4	<b>FDL RADIO CLUB</b>								
5	Truck Fund	0.00	0.00	0.00			0.00		
6									
7	Emergency Svc Fund	2,058.28	1.17	2,059.45			1,592.29	467.16	
8									
9	General Use Fund	5,146.76	-75.98	5,070.78			3,874.26	1,196.52	
10									
11	Savings Account	25.00	0.00	25.00		25.00			
12									
13	Petty Cash Fund	19.12	0.00	19.12	19.12				
14									
15	<b>TOTALS</b>	<b>7,249.16</b>		<b>7,174.35</b>					
16									
17	<b>FDL REPEATER ASSN.</b>								
18	Repeater Fund	153.98	0.38	154.36			0.00	154.36	
19									
20	<b>TOTALS</b>	<b>153.98</b>		<b>154.36</b>					
21									
22				<b>TOTALS</b>	<b>19.12</b>	<b>25.00</b>	<b>5,466.55</b>	<b>1,818.04</b>	
23	<b>Income</b>								
24	Raffle								16.00
25	Dues								205.00
26	CD interest								4.57
27									
28								<b>TOTAL</b>	<b>225.57</b>
29									
30	<b>Expenses</b>								
31	HRO Gift Certificates								200.00
32	Gino's Tip								100.00
33									
34								<b>TOTAL</b>	<b>300.00</b>
35									
36	<b>Bills Needing Approval to Pay &amp; Action Required</b>								
37									
38									<b>0.00</b>



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### Meeting Minutes



Tom Powell KC9VXR

The meeting was called to order at 7:02 pm by President Bob Burrier, N2TSQ. All those in attendance introduced themselves. President Burrier welcomed all and commented that this meeting will be used for planning purposes and setting Club goals for 2023.

Motion made by Phil Schmahl W9MW, seconded by Bill Kieckbush, KG9IO to approve the minutes of the November meeting as published in the newsletter. Motion passed by unanimous voice vote. The Treasurer's Report was read by Doug Schultz, N9EFZ. Motion made by Dave McCumber, N9WQ, seconded by Justin Buell, KB9YET to approve/accept the Treasurer's Report. The motion passed by unanimous voice vote. Doug reported that there will be a testing session on Feb. 18<sup>th</sup> in room O-122 and commented that most of those tested in previous sessions have been from outside the area. President Burrier asked that the Volunteer Examiners raise hands to identify themselves and commended them for their work at testing sessions. He also reminded members to check their license expiration dates and renew accordingly.

#### Old Business

Joe Scheibinger, K9VY reported that a Milwaukee TV station, CBS channel 58 contacted him after reading about the Club in our Facebook page, which lead to their filming segments recently with several Club members for their news reports. Joe has been working on the Facebook page and sees it as a very good PR tool and membership promotion. Paul Bluel, KC9NAA reported that the Christmas party was well attended, and a good time was had by all. Joe asked if the Club would like to have the party there again next year. He asked Club members to give feedback to him and Paul to help in planning. Cully Kowal, KS0D reported that the 501c3 applications from May have been reviewed by the State and since our application was sent in August, we will have to wait a number of months yet for approval. Joe reported that neither of our grant applications to ARRL was approved but we will try again when the next round is announced.

#### New Business

President Burrier reminded members that annual dues of \$15 individual, \$20 family and \$7.50 student for 2023 are now being collected by the Treasurer. He then presented and invited discussion on Strategic Planning for 2023:

Club Mission/Objectives – grow the club, community involvement, personal learning, growth and socialization

Membership & Participation – reach out to others with pride in the Club and tell them about your experiences

Roles (officers, board members, committees) opportunities and mentoring

Looking for Ideas – topics for future entertainment guests, initiatives for membership growth, and discussion topics (members leading discussion about personal interest or expertise). Several members expressed interest in doing this at 6pm prior to each meeting. This and other planning ideas will be discussed at the next Board meeting on January 16 at 7pm at the Radisson Hotel, 625 Rolling Meadows Drive, Fond du Lac. All members are welcome, Board members should let Bob know if unable to attend.

Continued....





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Several clips from the CBS 58 filming were then viewed. Joe Scheibinger K9VY invited members to bring unwanted items to meetings for a “swap/freebies” table or to send him classified ads for the newsletter. Concern was expressed by Dave Mc Cumber, N9WQ about how Club archives and equipment inventories are kept. Joe stated a member who last year had volunteered to arrange for storage of archives had backed out and we need someone to volunteer for that. Justin Buell, KB9YET states he has put all equipment in the trailer. Tom Powell, KC9VXR reports that he did an inventory as Vice President about a year and a half ago. President Burrier is concerned about Club documents that must be kept according to incorporation rules. This will be discussed further at the Board meeting. Dave mentioned that Club member Gene Olig, KD9ZP is quite ill and asked if we could send something from the Club. (Please check out the article about Gene Olig in this newsletter) A motion was made by Jim Balthazor, K9AIX and seconded by Dave Mc Cumber, N9WQ to approve \$100 for card, flowers, etc. to be sent. The motion was approved by unanimous voice vote. Jack Heil, KG9IN who knows him well will be asked to make arrangements. A motion was made by Doug Schultz, N9EZF and seconded by Cully Kowal, KS0D to adjourn and passed by unanimous voice vote. The meeting was adjourned at 8:17pm by President Burrier.

Respectfully submitted by Tom Powell, KC9VXR, Secretary



**MEETING  
MINUTES**

## THANK YOU FOR BEING A MEMBER - DUES ARE DUE

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 “23 in 23” incentive program. Send your dues or application (attached in newsletter) to:

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

## LET'S LEARN ABOUT LINKED REPEATERS

By: Brad Gehrt KA9JDE

Have you ever used a “linked Repeater”? We are fortunate to have a wide area linked repeater here in Wisconsin called FM38. The FM38 repeater group is a collection of UHF Amateur (“Ham”) Repeater systems in the state of Wisconsin and Northern Illinois. This is a privately owned system but available Amateur Radio operators. Currently there are 16 repeaters in the network providing coverage from Chicago, IL. To Green Bay, WI and West to Madison the Dells and beyond. I live about 10 miles north of Ripon. I can easily get into Ripon FM38 repeater and work other hams all the way from Northern Chicago to Green Bay. How cool is that? Check out the FM38 Tech Net on Thursday evenings at 9 PM. The website for FM38 is: [fm38.org](http://fm38.org). Check out the following article to learn more. Consider joining ARRL so you can get your own copy of “On the Air” magazine or QST magazine.

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# Linked Repeaters

Mike Walters, W8ZY

**M**any new hams start with a handheld and make their first contacts through a local repeater, with a ham who's also fairly local to them. And we know that repeaters are an important part of emergency communications for their ability to move crucial information into and out of an area affected by a disaster or emergency. But what if you want to be able to talk farther than the limits of a local repeater? This is where *linked repeaters* can be a help.

Many groups use linked repeaters to extend the range of communication. The concept is just what it sounds like: two or more repeaters are linked together, enabling you to contact a local repeater and use it to talk with hams in another town, county, or even state.

## How Linking is Achieved

There are two basic linking plans: *Ad-hoc* links and *fixed* links. *Ad-hoc* linking means that the link is not always connected. The link can be switched on or off with CTCSS tones as needed for emergencies or nets. Typically, the repeater trustee will assign the rights to trusted members, and give them the code that allows them to control the link. *Fixed* links are connected all the time.

Linking is generally done by one of two methods, by *radio* or by *internet*. *Radio* linking is typically for local networks of repeaters that cover a specific geographic area, like a single state or close group of states. *Internet* linked repeaters can be across the country or even around the world. The newer digital systems like DMR use internet linked repeaters and can connect hundreds of repeaters in many countries.

**Let's look at some of the ways linked repeaters can be connected.**

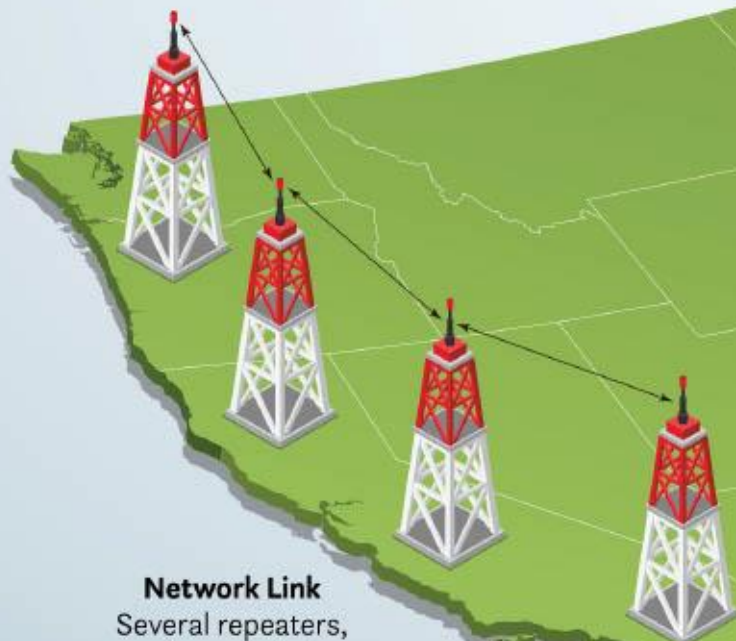
### Simple Link

One repeater to another



### Network Link

Several repeaters, all connected





## The Uses of Linked Repeaters

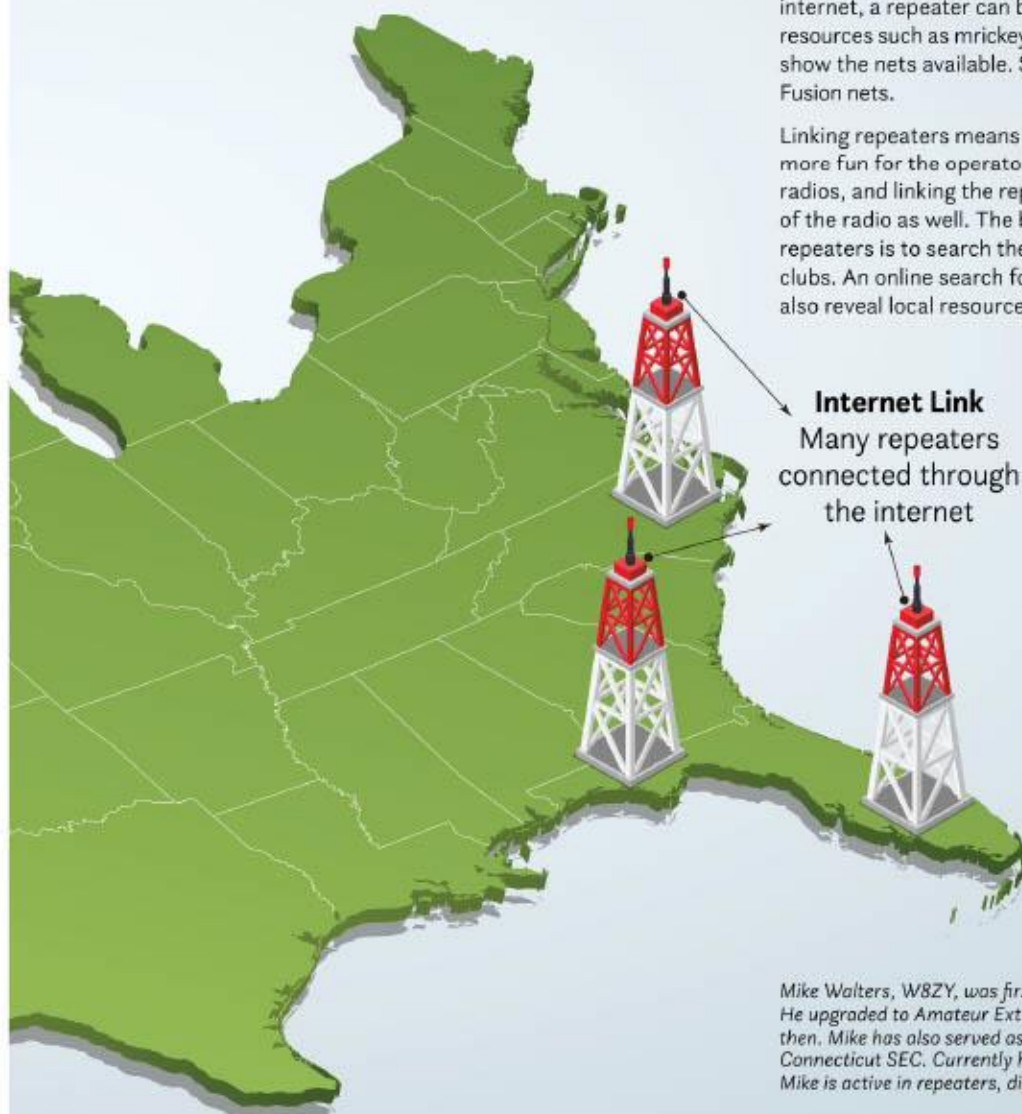
Emergency communications can use a linked repeater network to gather information over a much larger area. For instance, perhaps there's a storm that covers several towns in ice and snow. Phone lines and power are down in much of the area. Cell phones may work, but the system tends to be overloaded with the sudden increase in traffic. Emergency management has their hands full with various duties. This is where ARES comes in, using a linked repeater network. By establishing a net control, or several net controls that can cover the area, information on damage assessment, road closures, and downed power lines can be passed to authorities. By using a linked group of repeaters, more territory can be covered.

Another good use of a linked repeater network may be a public service event like a bicycle race. Many such races cover distances up to 100 miles. This may be outside the coverage of a single

repeater. With a linked repeater network, a single net control station may cover the entire race. Event coordinators rely on timely information to manage such a race, and amateur radio and a linked repeater network works well to provide that information. Often during such events, hams will interface with law enforcement and emergency medical resources to conduct the race. Many such resources will not use their radio systems to pass race information, but hams are well suited to do just that.

Linked repeater systems that use the internet open a whole new world to hams with even a handheld and access to the local repeater. Digital systems like DMR and D-STAR use the internet to connect hundreds of repeaters together. Using the capabilities of these technologies, it is common to be using a handheld radio and be able to talk to someone in another state, country, or even continent. Nets are held on the systems that may have the net control in England and check-ins from the US to New Zealand. Linking the repeaters this way means that anywhere you can have internet, a repeater can be linked. There are a variety of online resources such as [mrickey.com/amateur-radio/dmr-nets](http://mrickey.com/amateur-radio/dmr-nets) that will show the nets available. Search online for DMR, D-STAR, or Fusion nets.

Linking repeaters means greater coverage, greater access, and more fun for the operators. Repeaters extend the range of the radios, and linking the repeaters ultimately can extend the range of the radio as well. The best way to find information on linked repeaters is to search the websites for your local amateur radio clubs. An online search for linked repeaters in your area may also reveal local resources.



*Mike Walters, W8ZY, was first licensed in 1977 in Bluefield, WV. He upgraded to Amateur Extra in 1992, and has been a VE since then. Mike has also served as a Volunteer Instructor as well as Connecticut SEC. Currently he is Field Services Manager for ARRL. Mike is active in repeaters, digital modes, and QRP.*



# FOND DU LAC AMATEUR RADIO CLUB

## — FDL 73 —

www.fdlhams.com

February 2023

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



What else would you call it!  
**IT'S THE NEW  
23 IN 23  
MEMBERSHIP DRIVE**

At the Rag Chews & Brews Board Meeting held at the Radisson (more about that in another article in the newsletter) we discussed what we could do to further our already successful 22 in 22 drive. So we all thought hard to come up with the name for our next drive. How do you like that! Someone came up with 23 in 23! Hey, if it works!

In 2022, our main goal was to get our family back together after a long bout of Covid, and to get our incredible club back on its feet and functioning. All in all, we had a very successful 2022, new members, a strong field day, lots of public service and good fun.

So what are our goals for 2023 as far as membership. Some really good ideas came from the Board meeting. 2023 will focus on two things for a membership drive. New members from publish lists of license holders, and a push for recruiting young people from the schools in this area to experience the joy of Ham Radio. And who better to lead this drive is FARC member Phil Schmahl W9MW. Phil is a teacher and he has great ideas up his sleeve!

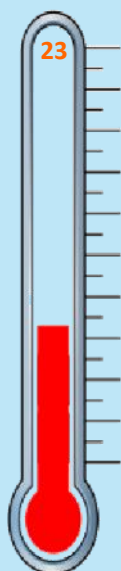
There are lists available from the ARRL, Google, and other social media outlets with the names and addresses of every ham radio license holder in the Fond du Lac County area. Phil has that list! In fact, published in this newsletter is some of that list you can cut out and save to your shack.

The list isn't perfect. There are some silent keys on the list, some people that have moved, some no longer interested, but even with that, the list is over 250 people! If we could generate less than 10% just from the list, we made our goal in one mailing!

The word "Elmer" was brought up at the meeting. The term "Elmer" means someone who provides personal guidance and assistance to would-be hams. The term first appeared in QST in a March 1971. If you love the combination of kids and Ham Radio, please contact Phil at 920-948-5063. Phil will be looking for volunteers to help promote the club, send mailers, make phone calls, and distribute posters. You might also consider sharing your ham shack with some grade school or high school age kids some evening and demonstrate how to work the globe!

We brings people, electronics and communication together. We talk across town, around the world, and even into space, all without cell phones. It's fun, social, educational, and can be a lifeline during times of need. Share the hobby!

**GOAL!**







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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.

*In this issue, we will feature pictures of founding member Gene Olig KD9ZP from the photo collection of his friend Dennis Paulin KB9OFM.*







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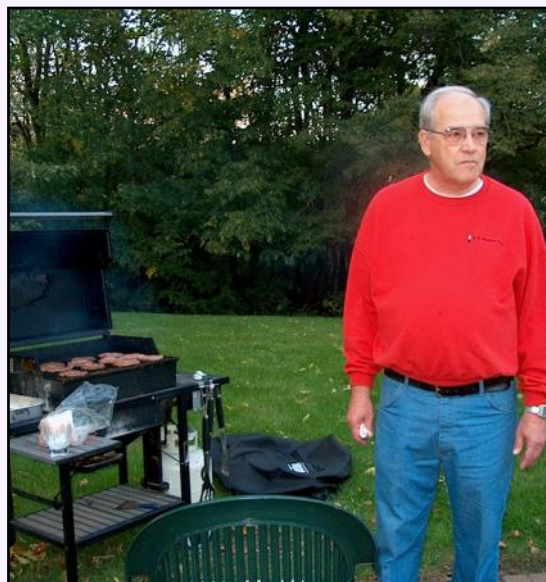
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*heritage*





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### INTERESTING THINGS TO DO!

#### FARC Meeting at Moraine Park

Monday, February 13th, 2023



#### FARC FCC Testing Session

Monday, February 18th, 2023



03/19/2023

#### [Jefferson Hamfest 2023](#)

Location: Jefferson, WI

Type: ARRL Hamfest

Sponsor: Tri-County Amateur Radio Club - W9MQB

Website: <http://w9mqb.org>

03/25/2023

#### [11th Annual Milwaukee Area Swapfest](#)

Location: Milwaukee, WI

Type: ARRL Hamfest

Sponsor: Milwaukee Radio Amateurs' Club

Website: <https://www.w9rh.org/club-events/swapfest-2/>

04/15/2023

#### [Madison Hamfest](#)

Location: Stoughton, WI

Type: ARRL Hamfest

Sponsor: Madison Area Repeater Assc

Website: <http://www.w9hsy.org>

05/06/2023

#### [ORC 43rd Annual Spring Indoor Swapfest](#)

Location: Cedarburg, WI

Type: ARRL Hamfest

Sponsor: Ozaukee Radio Club, Inc.

Website: <https://www.ozaukeeradioclub.org/>



*Nothing for sale today!*







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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)

**CLICK HERE**

FARC - Loop Antennas with John Portune (11/14/22) Nov. Meeting





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## SCANNING THE BANDS

**CLIP AND SAVE FOR YOUR SHACK**

**SHORTWAVE RADIO STATION FREQUENCIES IN THE USA**

Name	Frequencies (Khz)	Topic
Voice of America	4930, 4960, 5960, 6080, 6105, 6110, 7125, 7175, 7205, 7405, 9645, 9760, 9785, 9885, 11655, 11885, 11890, 11975, 12015, 12150, 13600, 13640, 13710, 13735, 13755, 15150, 15185, 15205, 15290, 15445, 15580, 17640, 17715, 17730, 17895	Worldwide news service
RFEL	7345	Europe and Asia
Radio Free Asia	17640	Asia
Radio Sawa	1548	Middle East
Radio Farda	17830	Iran
Radio Martí	7345	Cuba
WWV/WWVH	10000, 15000	Military News
Adventist World Radio	5010	Christian Missionary
Alt Universe Top 40	6070, 9670	SCORCHED EARTH MUSIC SHOW
KVOH	9975	Voice of Hope
Supreme Master TV	9395	Peace
Texas R Shortwave	5950	Music
Uncle Bills Melting Pot	WBCQ 7490, 6070	Comedy & Music
WBCQ The Planet	7490, 9330	Free speech
WEWN	9470, 9385	Catholic
WINB	9265	Gospel of Jesus Christ
World's Last Chance R	3265, 6160, 7490, 9330	Talk Show
WRNO Worldwide	7505, 15420	Religious
WTWW	5830, 15810	Religious
WWCR	3215, 4840	Religious
WWRB	3185, 5050, 15240	Religious
Family Radio	5010, 9455	Religious



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First	Last	Call Sign
Fred	Lloyd	AA7BQ
Pete	Leonard	AA9UU
Todd	Beay	AC9EX
Doug	Iverson	AC9XW
Jim	Balthazor	K9AIX
David	Zittlow	K9DUI
Dot	Olig	K9FDL
Chuck	Mahnke	K9HXI
Ray	Grenier	K9KHW
Carl	Luetzelschwab	K9LA
Joe	Scheibinger	K9VY
Walter	Meyer	K9WKM
Patrick	Knowles	K9ZPU
Steve	Weinert	K9ZW
Brad	Gehrt	KA9JDE
Ed	Steinfeld	KB1ZJK
Dennis	Paulin	KB9OFM
Larry	Lamont	KB9POP
Peter	Fox	KB9WZD
Justin	Buell	KB9YET
Kirk	Everson	KC9FZE
Don	Chapman	KC9KZQ
Marjean	Buck	KC9LFI
Neal	Buck	KC9LFN
Brian	Turkiewicz	KC9LFR
Joe	Lauber	KC9MDY
Randy	Nelson	KC9MYG
Paul	Bleuel	KC9NAA
Tom	Trethewey	KC9ONY
Brad	Freund	KC9QYP
Tony	Pass	KC9QYR
Larry	Mielke	KC9RUE
Jeremiah	Alderden	KC9SGL
Donna	Blend	KC9TFN
Buddy	Larson	KC9UVJ
Tom	Powell	KC9VXR
Blend	Bowen	KC9VXV
Tom	Karrmann	KC9VZY
Laurie	Winchell-Beltz	KC9YQS
Ron	Keller	KC9YVL
Doug	Murray	KC9ZVT
Dick	Finn	KC9ZVW
Fernando	Salazar	KC9ZVX
Lee	Clausen	KC9ZVZ
Donald	Bakke	KD0HCW
Dawn	Krause	KD9CAW
Mathew	Yates	KD9CSD
Gregory	Schmude	KD9EHB
Richard	Jarzynka	KD9EMX
Isaac	Lundberg	KD9FPG

## FARC Membership Roster

Alphabetized by CALL SIGN



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.



Fond du Lac Amateur Radio Club Newsletter

Gene	Peterson	KD9IAG
Ted	Gustavus	KD9IAH
Derek	Giese	KD9IAN
Walter	Drees	KD9JAD
Matthew	Zimmerman	KD9KTY
Ben	Haack	KD9LVQ
Frank	D'Imperio	KD9OXO
Raymond	Teschke	KD9QLE
Bill	Hutchinson	KD9TQA
Gabriel	Meyer	KD9UWC
Mike	Kraus	KD9UWD
Gene	Olig	KD9ZP
Jack	Heil	KG9IN
Bill	Kieckbush	KG9IO
Cully	Kowal	KS0D
Tom	Murray	N0HOR
Tim	Brusky	N2TIM
Robert	Burrier	N2TSQ
Reinholt	Aschmotat	N8VDH
Doug	Schultz	N9EZF
Tim	Winslow	N9ICD
Paul	Tvrdy	N9KLG
Gabriel	Stark	N9NEZ
Ed	Beltz	N9PJQ
Lloyd	Vandervort	N9RPU
Michelle	Lawrence	N9RQL
Mike	Lawrence	N9UA
James	Scovronski	N9WAM
Jim	Cole	N9WAP
David	McCumber	N9WQ
Timothy	Braun	W9AAV
George	Ulm	W9EVT
Steve	Smith	W9GPI
Ted	Neuburg	W9LUQ
Ted	Willett	W9NHE
Phil	Schmahl	W9PHL
Tom	Pachner	W9TJP
Ed	Sipple	W9VYO
Erling	Gruel	WB9QJD
Mark	Forss	WD9CYM
Dave	Witt	WD9W
Laura	Yates	
Scott	Kreis	
Debra	Drees	
Brad	Hansen	
Richard	Regent	
Tom	Sturtevant	
Gabriel	Baio	
Dave	Harms	
Wendy	Kudrowicz	
Bob	Wagner	





## 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 \_\_\_\_\_

Sponsor Name

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

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