



# FOND DU LAC AMATEUR RADIO CLUB

## — FDL 73 —



VOLUME 17 ISSUE 8 [www.fdlhams.org](http://www.fdlhams.org) August, 2016

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

### 2015 Club Officers

President: Dave McCumber N9WQ  
Vice-President: Tom Powell, KC9VXR,  
Secretary: Lloyd Vandervort N9RPU  
Treasurer: Doug Schultz N9EZF  
Sergeant-at-Arms: Ron Keller, KC9YVL

Board Member: Peter Fox KB9WZD  
Board Member: Stan Cram A10M  
Board Member: Larry Mielke KC9RUE

### Committee Chairs

Contesting/Education/Scholarship: Jack Heil KG9IN  
Field Day: Jack Heil KG9IN  
Fund Raising: Open  
Net Manager: Doug Schultz N9EZF  
Newsletter: Dick Finn KC9ZVW  
Public Service: Ed Beltz N9PJQ  
Publicity/Program: Joe Scheibinger K9VY  
Repeater: Lloyd Vandervort N9RPU  
Testing: Doug Schultz N9EZF  
Truck: Brad Freund KC9QYP  
TVI: Lloyd Vandervort N9RPU  
Web Site: Stan Cram A10M

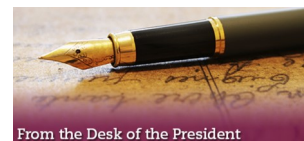
Each committee has several members. If you are interested in serving on a committee, please contact the chairperson and volunteer your services.

### Mailing Address

Fond du Lac Amateur Radio Club, Inc.  
PO Box 53  
Fond du Lac, WI 54936-0053  
E-mail: [fdlhams@fdlhams.org](mailto:fdlhams@fdlhams.org)

**Newsletter Submissions:**  
Please email to  
[rfinn5@hotmail.com](mailto:rfinn5@hotmail.com)

### The Presidents Corner By: Dave McCumber N9WQ



Well, here we are, another beautiful day right in the middle of summer. Everybody's out and about, looking for swimming pools hanging out at the lake, going fishing and camping, generally just going places and getting away from the norm.

Well, I always recommend you bring your radio with you. I can tell you from personal experience. Back in 93 we went on vacation to Florida. To be more specific, we went to Daytona Beach. While we were there, we went for a ride on the Halifax River. That's the large body of water that separates Daytona from Daytona Beach.



Anyway we are on the boat ride and the boat hit an Alligator and destroyed the prop. So there we were in the middle of the Halifax river in a 24' boat with no prop and no way to paddle. We went up to the front and found they forgot to install the ship to shore radio. Luckily, I had my HT along and wound up talking to the Sheriff's Department. They sent someone out to tow us back.

Wow I would of never thought that I would have used it for that but it came in very handy. Back then it wasn't common to have a cellphone like it is today. Still, with today's limited access to signal in remote locations having a HT along might be your best chance to get a communication out if needed!!

Oh and I won't mention the fun you'll have working from remote locations (campsites, large bodies of water and hilltops) Thanks for reading this And have a SAFE and HAPPY Radio filled Summer!!

### Next Meeting

**When:** Aug. 8, 2016 at 7:00 pm

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

**Program:** Luther Lord, Maxcon OCF 3K80 Long Wire Antenna



### August Meeting Program Luther Lord, Maxcon OCF 3K80 long wire antenna

The Fond du Lac Amateur Radio Club will meet on Monday, August 8th in room A112 at the Moraine Park College in Fond du Lac.



Luther Lord, designer of the Maxcon OCF 3K80 long wire antenna will be our guest for the first half hour. Luther is the owner of Maxcon Antennas in Cartersville Georgia. The same antenna that was installed at Joe Scheibinger house a few weeks ago by members of the FARC.



Often random wire antennas are also referred to as long-wire antennas. Long-wire antennas require a length greater than a quarter-wavelength ( $\lambda/4$ ) of the radio waves (most consider a true long wire to be least one wavelength, whereas random wire antennas have no such constraint. Random wire antenna is a radio antenna consisting of a long wire suspended above the ground, whose length does not bear a relation to the wavelength of the radio waves used, but is typically chosen more for convenience.

As simple as it sounds, there are many variations of the long wire antenna and if you plan to use it to transmit, there is a fair amount of knowledge to gain before you actually purchase one.

There are hundreds of different kinds of long wire antennas on the market. The reason I chose the Maxcon for my setup is because it covers 80 thru 6 meters and it fits perfectly with my lot lines! Mine is set up as an offset inverted V with the top on the tower at 35 ft and the sides on stands 10 feet high.

To see the Maxcon Antenna go to <http://www.maxconus.com>.



On a personal note, I want to thank all of the FARC members that came over to help put together the 2 antennas! Peter and Lloyd made it a true educational experience. I don't know what we would do without highly knowledgeable people like this in our club. We are truly blessed for sure.

Joe Scheibinger K9VY



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### Antenna Raising at Joe Scheibingers House

At our last meeting, some hams stayed after the meeting and watched Peter put connector ends on coax. It was pretty educational. The follow up to this was to invite club members to Joe Scheibinger's home in Oshkosh to watch the completion of his antenna tower project.

Peter Fox KB9WZD climbed the tower to install a Maxcon 80-6 long wire and a Discone antenna. He also had about 10 connectors to make.



*Peter Fox KB9WZD finishes preparation before climbing the tower to install the two antenna's Note the safety gear and the even more elaborate than*



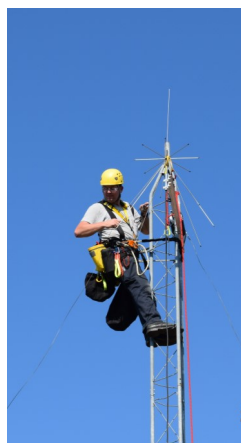
*Peter KB(WZD) starts up the tower. The antenna stayed on the ground until he was ready. At that point Lloyd Vandervoort N9RPU attached it to a rope and Peter pulled it up.*



*Peter hauls up the balun. He is a lot higher than I would ever care to be.*



*Doug Schultz N9EZF, Joe Scheibinger K9VY and Dawn Krause KD9CAW supervise.*



*Peter mounts the antenna at the top of the tower.*



**Antenna Raising at Joe Scheibingers House**



Watching Peter work is hot work. The support team takes ten for a cool drink while Peter continues work.



With the antenna installed, Peter comes down to finish the work on the ground.



Joe had already pulled the cables from his shack. Peter finished work by terminating the cables.

The complete antenna



Joe's nearly complete shack and recording studio. Beautiful Job!!!!



2016.07.18.15.51



**5...4...3...2...1: Readability Reports**  
**By Dan Romanchik, KB6NU**



I'm big on Twitter. It connects me to a lot of interesting amateur radio operators, and I find a lot of food for thought there. Yesterday, I saw the following Tweet:

Charlie – M0PZT @M0PZT  
Blog updated: RST and Speed Matters <http://www.m0pzt.com/blog/rst-and-speed-matters/> #hamradio

Being a CW geek, of course I was interested. Charlie's point is that if you get a bad report, you probably should send more slowly. I certainly have no argument with that. What I do take a little bit of an issue with is that Charlie says, "A Readability 4 report should really make it known that information needs to be brief, but repeated – Certainly no ANT/RIG/WX waffle!"

According to most sources, Readability 4 means, "Readable with practically no difficulty." When I receive an R4 report, I might slow down a little, but it doesn't mean to me that I have to cut the contact short or repeat information over and over. I replied on Twitter that if the operator at the receiving station is having so much trouble copying, then the report should probably be 319 or even 219.

Of course, RST reports are open to interpretation. With that in mind, I thought I'd explain a little more fully how I decide what Readability report to give:

R5: Perfectly readable. To me, this means that copying a signal is no work at all, and that it sounds like it's coming out of a code practice oscillator. I can put my feet up on the desk or putter around the shack while I'm ragchewing with the other operator.

R4: Readable with practically no difficulty. "Practically no difficulty" is the key phrase here. There may be some QRN or QSB on this signal, and I have to pay some attention while copying. An R4 is still solid copy, though, and ragchewing is definitely possible.

R3: Readable with considerable difficulty. A signal that rates an R3 needs my full attention. I have to work at copying the signal, and even then, might miss characters here and there. Even though I don't copy every single character, I'm able to fill in the gaps. An R3 signal might not be good enough for a ragchew, and repeating information is probably a good idea.

R2: Barely readable, occasional words distinguishable. A signal that rates an R2 is usually so weak that it's below the noise level or drops below the noise level occasionally. At this level, the contact will definitely be brief and any important information, such as the callsign needs to be repeated.

R1: Unreadable. Generally, I would never give out this report, as I would never attempt making contact if a signal was truly unreadable.

Although my explanations above reflect the fact that I'm primarily a CW operator, I think they also apply to phone or even digital contacts. For example, an R5 for a phone contact would mean that the signal sounds like it could be coming from just down the street or coming through the local repeater.

What do you think? How do you decide what Readability report to give?

=====

Dan, KB6NU, is the author of the "No Nonsense" amateur radio license study guides, and blogs about amateur radio at KB6NU.Com. You can contact him by e-mailing [cwgeek@kb6nu.com](mailto:cwgeek@kb6nu.com). If you want an honest Readability report, look for him most evenings on 40m CW.



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Last month I was unable to save the following collage. Apparently the pics were too high def (read as too large of a file) for MS Publisher to save as a PDF. I was able to overcome this so following is the collage from Field Day.





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### MEETING MINUTES

#### FOND DU LAC AMATEUR RADIO CLUB Minutes of FDLARC Monthly Meeting Monday, June 13, 2016



##### Call to Order

The meeting was called to order at 7:05 pm with Stan Cram officiating.

##### Introductions

All attendees introduced themselves.

##### Approval of Meeting Minutes

A motion was made by Lloyd Vandervoort N9RPU to approve the minutes of the last meeting as published in the newsletter. The motion was seconded by Don Chapman KC9KZQ . The motion carried via a voice vote.

##### Treasurer's report (9/14/15)

Truck Fund	0.00
Emerg. Services Fund	1,175.66
General Use Fund	2,683.46
Savings Account	25.00
Petty Cash Fund	<u>19.12</u>
Total	3,903.24
Repeater Fund	328.51

The treasurers report was presented by Doug Schultz N9EZF. A motion to approve the Treasurer's report and pay the bills was made by Jack Heil KG9IN and seconded by Paul Bluel KC9NAA . The motion carried via a voice vote.

##### Old Business

We don't have total scores for Field Day yet but we will get good points for local politicians attending. Buddy Larson KC9UVJ has the laptops to consolidate the scores.

Things went pretty good except for the thunderstorm and poor band conditions. Isaac Lundberg KD9FPG was on for about 6 hours.

##### New Business

The storage location for the large tent is now at Jack Heil's KG9IN house.

Peter Fox KB9WZD mentioned that we need a storage location possibly a small trailer or storage shed. A small trailer would be easier to move and store instead of the truck.

The Ripon Medical Center Triathlon will be on July 24 Todd Beay AC9EX still needs more help.



##### Business from the Floor

None.

##### Adjournment

A motion to adjourn was made by ? . The motion carried via a voice vote and the meeting was adjourned at 8:15 pm.

The 50/50 Raffle was won by ticket 554935



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### NOTICES/ANNOUNCEMENTS

#### Elmers:

It has come up several times recently that there is a need for our more experienced members to act as Elmers for the newer HAMs in the club. The first time this came up I got linked up with Jack Heil (KG9IN) and have spent many enjoyable hours with him. I've learned about hanging an antenna, contesting and a week or so ago got a super tour of my Yeasu FTDX1200. Most importantly, I finally got on the air.



ELMERS	
Lloyd Vandervort (N9RPU)	lloydv654@gmail.com
Doug Schultz (N9EZF)	n9ezf@fdlhams.org
David McCumber ((N9WQ)	n9wq@charter.net
Marjorie & Jack Heil (KC9BEN, KG9IN)	heilmj@att.net 920-9221413
Rick Robinson (N19Z)	920-924-9559 Code, DX'ing, Contesting
Stan Cram (A10M)	Contesting, general help

At the April meeting we collected the names of several members who were willing to act as Elmers and the names of several others who would like their help. With a goal of linking the two I have listed the names below. I offer it as an exercise for the student to match Column A to Column B.

SEEKING HELP	
Paul M. Bleuel (KC9NAA)	920-921-6015

—30—



**Club Nets**  
 Sunday Evenings - Open to all  
 6:15 pm Ten Meter SSB Net-28.450 MHz  
 7:30 pm Two Meter FM Net-145.430 MHz  
 PL 97.4



**FDL County ARES Net**  
 Sunday Evenings  
 For ARES Team Members. Now combined with the Club Net at 7:30 pm.  
 ARES Coordinator: Todd Beay (AC9EX)



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### NOTICES/ANNOUNCEMENTS

#### New Extra Class Exam Question Pool

New Extra Class Element 4 Exams will be used at exam sessions beginning Friday July 1, 2016.

The new exams are drawn from the new extra class question pool which was released in January 2016 by the Question Pool Committee (QPC) of the National Conference of Volunteer Examiner Coordinators (NCVEC). The pool and exams created from this pool must be in use starting July 1st.

What this means is that if you are studying for the Extra Test you will have to use a new test guide containing the latest version of the questions. Don't let that stop you though. If you've been working on it for some time, it won't be that big an effort to get the new questions and bring yourself up to date.

#### License Exams By Doug Schultz



If you missed our last testing session in April, we will be hosting license exams again on Oct. 15, 2016 from 9:00 am to Noon at Moraine, Park Technical College in Room O-104. If you know of anyone who is interested in getting their ticket, please give them a call. There is also plenty of time to prepare for an upgrade test. Buy the study guide now and divide it up across the months from now till October. Reserve the last three or four weeks for taking practice tests.

You should be able to easily pass even the Extra exam with only a few minutes of effort per day from now to October. Be aware that the question pool for the Extra Class Test takes affect on July 1, 2016. If you plan on taking this test you will need to prepare using the new pool. See the article in this copy of the newsletter for more info.

#### Club Brat Fry Friday, August 26, 2016 and Saturday, August 27, 2016 Contact Doug Schultz N9EZF



We have our club's second major fund raising event coming up with a Brat Fry on Friday, August 26th and Saturday, August 27th. The Brat Fry will be held at the Brat Shack located at the Kountry Korner Convenience Store/Exxon Gas station in Lomira at the interchange of Hwy 67 and I-41.

We use these Brat Fry funds to help pay for Field Day, truck expenses, club liability insurance as well as for door prizes for the Christmas party. It is important that club members volunteer for this Brat Fry to have a successful club so we can enjoy these fun activities. I will be at the August 8th club meeting with a volunteer sign- up sheet for both days of the Brat Fry. If you want to sign up and can't make the meeting send me an email at: [schultz74@charter.net](mailto:schultz74@charter.net) or call me at 920-922-3088.





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### NOTICES/ANNOUNCEMENTS

#### Ham Radio Outlet - Press Release for Immediate Release July 12, 2016



Most of you have probably heard about this but for those that haven't.....

RE: HRO-Milwaukee, Amateur Electronic Supply's closing on 7/28/2016

On July 1, 2016 Amateur Electronic Supply (AES) made the decision to close down their entire organization and terminate all retail operations at their Las Vegas, Cleveland, Orlando and Milwaukee locations.

Upon hearing the news, and with the concurrence of AES senior management, Ham Radio Outlet (HRO) sent senior management to each location to interview the staff with hopes of acquiring some of the Amateur Radio retail employee talent in each of the current AES locations.

Together with this interview process, HRO examined what it would take to perhaps acquire one or more of the AES store locations. At the time of these interviews, many opportunities were explored with current AES senior management.

We are very excited to announce that HRO was successful in providing offers of employment to a number of soon to be former AES employees and that to some, we have offered positions that involve HRO sponsored and funded relocation.

We are also extremely pleased to announce that, after the closing of the Milwaukee AES location on July 28, 2016, Ham Radio Outlet will begin an extensive remodeling project to create the largest Amateur Radio retail showroom in North America. We will open our newest and largest Ham Radio Outlet in Milwaukee at the end of August 2016.

Effective at the closing of AES on July 28, 2016, all former AES locations' direct telephone numbers and toll free telephone numbers will be redirected to the closest HRO location so as to not disrupt providing service to the AES customer base. Additionally effective on July 28, 2016, the [www.aesham.com](http://www.aesham.com) website will be directed to [www.hamradio.com](http://www.hamradio.com) also so as not to disrupt service for the AES online customer base.

Steve Gilmore, National Sales Manager for HRO states, "We are extremely excited to have a store in the Central Northern part of the United States. It will minimize shipping times for our products to be able to be delivered in 2 days or less in most of the lower 48 United States. We are building a showplace that all must come see! It will be expansive with massive inventory levels and a large all encompassing demonstration area featuring nearly all of the Amateur Radio transceivers on the market today."

Robert Ferrero, President of HRO tells us, "It is with great pleasure that we are able to continue Terry Serman and Phil Majerus' legacy of providing a fantastic Amateur Radio store in Milwaukee, Wisconsin. It is our immediate goal to have the largest, most well stocked Amateur Radio retail store in North America and perhaps even the world."

HRO is a family owned business with 14 sales locations throughout the United States which includes a formidable presence on the Internet, making it the largest Ham Radio dealership in the world.

HRO has been continually expanding with our most recent location in Plano, Texas which opened on February 2, 2015. HRO is also continuing to evolve with the relocation and expansion of our Portland store which will open on July 25, 2016 at 14405 SW Pacific Highway, Portland, Oregon 97224.

Ham Radio Outlet - Milwaukee is located at 5710 W Good Hope Rd, Milwaukee, Wisconsin. It will be open for business at the end of August 2016.



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### Free, For Sale or Wanted

#### Logo Ware:

Last spring many members ordered polo shirts with the club logo on the back and name and call sign over the pocket on the front. The screen printing company, "Imagineers" in Ripon, has the logo and will print it on many items such as tee shirts, polo shirts, jackets, etc. The prices are reasonable. They do not need a minimum order and will do one item if it is paid for in advance.



You can call them to order a polo shirt like members got last year or another item, give a credit card number if you do not want to travel to Ripon, Tom Powell, KC9VXR, who lives in Ripon is willing to bring them to FDL at the next meeting or event. Or, you can come to their store in Ripon to see the many choices they can offer from a wide variety of clothing manufacturers.

Contact information is listed below. Due to the many manufacturers they buy from the options are too numerous to put on a website. They do a lot of business with schools in the area also. There are other options for purchase of club logo wear but this company was chosen last year for their prices, quality, the large variety of items, their good service, and willingness to do small orders.

Imagineers  
Howard and Jane Hansen, owners  
217 Watson St.  
Ripon, WI, 54971  
(920) 748-6599  
—30—

**Rick Robinson wore this jacket to our last meeting. It really is quite handsome. The logo is embroidered. Rick paid the setup charge already and estimates the price would be about \$125 for others.**





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### 2016 CALENDAR

**Jan. 11, 2016**

FDLARC Monthly Meeting, 7:00 pm, MPTC A-112.

**Feb., 8, 2016**

FDLARC Monthly Meeting, 7:00 pm, MPTC A-112.

**Feb. 20, 2016**

License Exams, 9:00 am-Noon, Moraine Park Technical College in Room O-104



**Mar. 13 & 14, 2016**

Wisconsin QSO Party



**Mar. 14, 2016**

FDLARC Monthly Meeting, 7:00 pm, MPTC A-112.

**Apr. 11, 2016**

FDLARC Monthly Meeting, 7:00 pm, MPTC A-112.

**Apr. 16, 2016**

License Exams, 9:00 am-Noon, Moraine Park Technical College in Room O-104  
Contact: Doug Schultz



**May 9, 2016**

FDLARC Monthly Meeting, 7:00 pm, MPTC A-112. We will have an open Mic session with W3AO on Field Day

**May 20 thru 22, 2016**

Dayton HAMFEST



**June 3-4, 2016**

Brat Fry at the Country Corners Exxon Station, Hwy 67 and Hwy 41 in Lomira.  
8:00am TO 5:00pm  
Contact: Doug Schultz



**June 13, 2016**

FDLARC Monthly Meeting, 7:00 pm, MPTC A-112.

**June 10, 11, 12, 2016**

Walleye Weekend. Contact Joe Scheibinger

**June 25 & 26, 2016**

ARRL Field Day, 1800 UTC Saturday and running through 2059 UTC Sunday



**July 11, 2016**

FDLARC Monthly Meeting, 7:00 pm, MPTC O-102.

**July 24, 2016**

RMC Triathlon



**Aug. 8, 2016**

FDLARC Monthly Meeting, 7:00 pm, MPTC A-112.

**Aug. 14 2016**

Race the Lake



**August 26-27, 2016**

Brat Fry at the Country Corners Exxon Station, Hwy 67 and Hwy 41 in Lomira. .  
8:00am TO 5:00pm  
Contact: Doug Schultz



**Aug. 12, 2016**

FDLARC Monthly Meeting, 5:00 pm, Annual Picnic,

**Sept, 2016**

Fox Cities Marathon



**Oct. 10, 2016**

FDLARC Monthly Meeting, 7:00 pm, MPTC A-112

**Oct. 15, 2016**

License Exams, 9:00 am-Noon, Moraine Park Technical College in Room O-104  
Contact: Doug Schultz



**Nov., 14 2016**

FDLARC Monthly Meeting, 7:00 pm, MPTC A-112. General Business Meeting, Election of 2016 Officers

**Dec. 3, 2016**

FdL Parade of Lights, 4:00, Downtown



**Dec. 12, 2016**

FDLARC Monthly Meeting, 7:00 pm, MPTC A-112

**Dec. 10, 2016**

License Exams, 9:00 am-Noon, Moraine Park Technical College in Room O-104  
Contact: Doug Schultz



**Dec, 2016**

Christmas Party,





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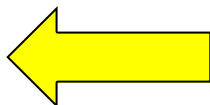


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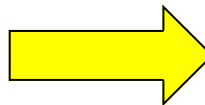
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## FDL ARC ROOSTER

Name  
Sort



Call  
Sort



Name	Callsign
Barbara Simon	W9MER
Bowen Blend	KC9VXV
Brad Freund	KC9QYP
Brian Turkiewicz	KC9LFR
Buddy Larson	KC9UVJ
Chuck Mahnke	K9HXI
Cully Kowal	KS0D
Danny Vandekolk	KC9IGD
David Mc Cumber	N9WQ
David Zittlow	K9DUI
Dawn Krause	KD9CAW
Dean Choate	KC9TGM
Dennis Paulin	KB9OFM
Dick Finn	KC9ZVW
Don Chapman	KC9KZQ
Donna Blend	KC9TFN
Dot Olig	K9FDL
Doug Murray	KC9ZVT
Doug Schultz	N9EZF
Doug Wagner	KC0RNS
Ed Beltz	N9PJQ
Ed Sippel	W9VYO
Ed Steinfeld	KB1ZJK
Edward Frac	AA9WW
Fernando Salazar	KC9ZVX
Gene Olig	KD9ZP
Gerry Radtke	WA9GON
Gregory Schmude	KD9EHB
Isaac Lundberg	KD9FPG
Jack Heil	KG9IN
Jim Balthazor	K9AIX
Jim Cole	N9WAP
Joe Lauber	KC9MDY
Joe Scheibinger	K9VY
Joyce Keyes	KC9KIJ
Justin Buell	KB9YET
Kirk Everson	KC9FZE
Larry Lamont	KB9POP
Larry Mielke	KC9RUE
Laura Yates	none
Lloyd Vandervort	N9RPU
Lori Winchel Beltz	KC9YQS
Louis Simon	KB9VQM
Marjean Buck	KC9LFI
Marjorie Heil	KC9BEN
Mark Forss	WD9CYM
Mathew Yates	KD9CSD
Matt Nett	KD9BBN
Mike Keyes	KE7ES
Mike Miller	KC9DOA
Nancy Myers	K9ANA
Neal Buck	KC9LFN
Paul Bleuel	KC9NAA
Peter Fox	KB9WZD
Randy Nelson	KC9MYG
Ray Grenier	K9KHW
Reinhold Aschmotat	N8VDH
Rick Robinson	NI9Z
Ron Keller	KC9YVL
Stan Cram	A10M

Ted Neuburg	W9LUQ
Ted Willett	W9NHE
Todd Beay	AC9EX
Tom Karrmann	KC9VZY
Tom Powell	KC9VXR
Tony Pass	KC9QYR
Walter Rueger	KC9WQ

Rick Robinson	NI9Z
Laura Yates	none
Ted Neuburg	W9LUQ
Barbara Simon	W9MER
Ted Willett	W9NHE
Ed Sippel	W9VYO
Gerry Radtke	WA9GON

Name	Callsign
Edward Frac	AA9WW
Todd Beay	AC9EX
Stan Cram	A10M
Jim Balthazor	K9AIX
Nancy Myers	K9ANA
David Zittlow	K9DUI
Dot Olig	K9FDL
Chuck Mahnke	K9HXI
Ray Grenier	K9KHW
Joe Scheibinger	K9VY
Ed Steinfeld	KB1ZJK
Dennis Paulin	KB9OFM
Larry Lamont	KB9POP
Louis Simon	KB9VQM
Peter Fox	KB9WZD
Justin Buell	KB9YET
Doug Wagner	KC0RNS
Marjorie Heil	KC9BEN
Mike Miller	KC9DOA
Kirk Everson	KC9FZE
Danny Vandekolk	KC9IGD
Joyce Keyes	KC9KIJ
Don Chapman	KC9KZQ
Marjean Buck	KC9LFI
Neal Buck	KC9LFN
Brian Turkiewicz	KC9LFR
Joe Lauber	KC9MDY
Randy Nelson	KC9MYG
Paul Bleuel	KC9NAA
Brad Freund	KC9QYP
Tony Pass	KC9QYR
Larry Mielke	KC9RUE
Donna Blend	KC9TFN
Dean Choate	KC9TGM
Buddy Larson	KC9UVJ
Tom Powell	KC9VXR
Bowen Blend	KC9VXV
Tom Karrmann	KC9VZY
Walter Rueger	KC9WQ
Lori Winchel Beltz	KC9YQS
Ron Keller	KC9YVL
Doug Murray	KC9ZVT
Dick Finn	KC9ZVW
Fernando Salazar	KC9ZVX
Matt Nett	KD9BBN
Dawn Krause	KD9CAW
Mathew Yates	KD9CSD
Gregory Schmude	KD9EHB
Isaac Lundberg	KD9FPG
Mark Forss	WD9CYM
Gene Olig	KD9ZP
Mike Keyes	KE7ES
Jack Heil	KG9IN
Cully Kowal	KS0D
Reinhold Aschmotat	N8VDH
Doug Schultz	N9EZF
Ed Beltz	N9PJQ
Lloyd Vandervort	N9RPU
Jim Cole	N9WAP
David Mc Cumber	N9WQ