



FOND DU LAC AMATEUR RADIO CLUB

— FDL 73 —



VOLUME 18 ISSUE 8

www.fdlhams.org August, 2017

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

Club Officers

President: Jim Balthazor K9AIX
Vice-President: Tom Powell, KC9VXR,
Secretary Lloyd Vandervort N9RPU
Treasurer Doug Schultz N9EZF
Sgt-at-Arms: Isaac Lundberg KD9FPG

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.

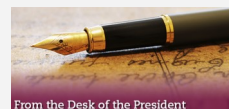
Mailing Address

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

**Newsletter
Submissions:**
Please email to
rfinn5@hotmail.com

The Presidents Corner

By: Jim Balthazor K9AIX



The Eclipse is coming. On Aug 21, 2017, parts of the United States will experience a total Eclipse of the sun. Something that has not happened in this region for quite some time. Wisconsin will not experience the full effect; we are too far north for this one, but we will see some of it. We, as hams have another option to further science during the eclipse. By participating in the Solar Eclipse QSO party.

*During the Eclipse on August 21, 2017, the American Radio Relay League will sponsor an Eclipse QSO Party. This is a contest-like event designed to generate numerous QSOs across the HF bands for the purpose of studying propagation changes during the eclipse. The data from this event will consist of participant logs, Reverse Beacon Network Observations, and QSO party recordings. This is similar to the 2015 Solar Eclipse QSO Party organized by the Radio Society of Great Britain (RSGB). More details regarding this event will be posted here and in QST.
<http://hamsci.org/projects/2017-total-solar-eclipse/get-involved>*



If you have the time jump on the radio and make a few contacts, it's for Science.

73s. JBK9AIX

2017 Total Eclipse Area



Next Meeting

When: August 14, 2017 at 7:00 pm

Where: Moraine Park Technical College, Room A-112

Program:
TBD



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Field Day

The Fond du Lac ARC once again made a great showing at Field Day. Jack Heil was the overall coordinator and managed to coordinate all the equipment, food and people to make for a successful event. We do not have the final results yet but regardless of the scores, everyone enjoyed themselves and we got some great publicity for the club.

Things were a bit different this year as we set up in the center of the north parking lot at the University of Wisconsin. The antennas were strung from the light poles (with permission) using a robot designed by Peter Fox KB9WZD. The robots were distributed one per pole and when the antenna wires were attached climbed up the pole. To bring them down, Peter simply reversed the polarity on the motors— very clever set up.



One of Peter Fox's KB9WZD pole climbing robot.



Untangling the wires.



The team raising one of the antennas.



Marjorie Heil KC9BEN unloading the supplies for the food tent.



Dennis Paulin KB9OFM setting up the pulled pork for sandwiches. As usual, he did a great job!



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Field Day



Buddy Larson KC9UVJ was based in the Yellow Banana and took on his regular role as our network manager.



Everyone enjoyed lunch just before kicking the contest off on Saturday.



Rick Robinson NI9Z was in charge of the CW operation in the trailer. He was assisted by Isaac Lundberg KD9FPG and others.



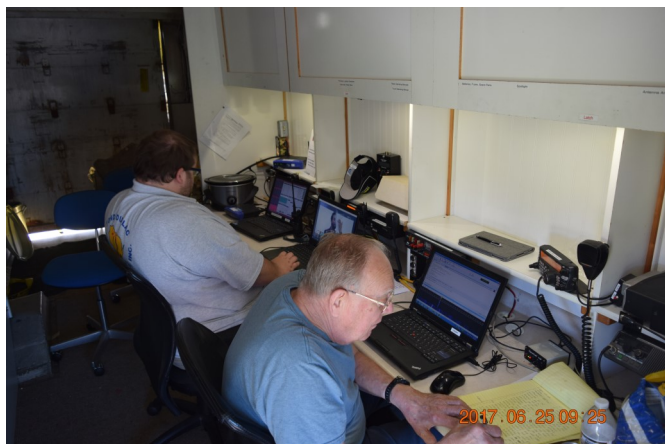
Dawn Krause KD9CAW and Stan Cram AI0M led off the contest in the Motor home.



We (especially those in the Yellow Banana) owe a vote of thanks to Lloyd Vandervort N9RPU and Peter Fox KB9WZD who teamed up to add the air conditioner to the Yellow Banana.



Field Day



Buddy Larson KC9UVJ and Lloyd Vandervort N9RPU, who worked the digital side, in the Yellow Banana.



The crew in the motorhome watched Stan Cram AIOM operate while Jack Heil KG9IN recorded.



The CW team (not necessarily their best side) in the trailer.



I apologize to those who's pictures were omitted on these pages. I tried to tell a story of set up through operation and that resulted in some people being shown multiple times and others not at all. In most cases I tried to pick pictures with at least two or three people. I am including a collage on the next page and hope that you can all find yourselves on at least one picture. Many thanks to the people who contributed pictures.

Gene Olig KD9ZP joined us on Saturday afternoon.





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Ham researcher to investigate effects of solar eclipse By Dan Romanchik, KB6NU



August 21 is a once-in-a-lifetime opportunity for many in the U.S. to see a total eclipse. It's also an opportunity for a team of Virginia Tech researchers to study the effects of the eclipse on changes in the upper atmosphere that have an impact on HF propagation and the global positioning system (GPS). Backed by research funding from NASA and the National Science foundation, the team is headed by Dr. Greg Earle, W4GDE.

The Virginia Tech team plans to gather data from a variety of sources, including radar systems, transceivers, satellites, ham radio, and GPS receivers, in order to analyze the effects of the solar eclipse on the conductive region of the atmosphere.

"Whether military radar, or consumer GPS signals, the eclipse is going to have effects on the medium that we would like to understand better, so that we can either mitigate them or use them to our advantage," said Earle.

Here are a couple of links to news stories on the research team and the experiments:

- * Virginia Tech team prepares for special project during total solar eclipse (<http://wset.com/news/local/virginia-tech-team-prepares-for-special-project-during-total-solar-eclipse>)

- * Virginia Tech expert to study August solar eclipse effects on radar, ham radio, GPS (<http://wtkr.com/2017/07/17/virginia-tech-expert-to-study-august-solar-eclipse-effects-on-radar-ham-radio-gps/>)

Let's party!

In conjunction with the eclipse, the HamSCI and the ARRL are sponsoring the Solar Eclipse QSO Party (<http://www.hamsci.org/seqp>). (SEQP). According to an article in the August 2017 issue of QST, the goal of the SEQP is to "flood the airwaves with contacts, all measured by the automated receiver networks of the Reverse Beacon Network, PSKReporter, and WSPRNet." Once all the logs are in, researchers will analyze the data to see what effect the eclipse had on radio propagation.

A YouTube video of a presentation at Dayton on the SEQP can be found at <https://youtu.be/3EviY2Cuxpo?list=PLihPo8xWmo8-xDYAtpP9BWX9QnhUoT7k4>

The SEQP will run from 1400Z - 2200Z on Monday, August 21. This is well before the eclipse is due to begin on the West Coast. The reason it starts before the eclipse is to establish a baseline for radio propagation conditions.

SEQP organizers urge you to make as many contacts as you can on as many bands as you can operate. Like nearly every contest, contacts are not allowed on 60m, 30m, 17m, and 12m. CW, RTTY, and PSK31 are the preferred modes because automated receivers can record those contacts, but phone and other digital modes count, too.

An interesting twist to this contest is that, like Field Day, you can earn a number of bonus points, including:

- * Operating outdoors (100 points)
- * Operating in a public place (100 points)
- * Operating a wide-band automated receiver at your station (100 points)

Hams have had a long history of supporting scientific research. They provided communications for some of the early polar explorations and listened for Sputnik as it flew overhead. The Solar Eclipse QSO Party continues this tradition, and it's going to be a lot of fun as well. Visit the HamSCI website (<http://www.hamsci.org/seqp>) for more information.

Dan Romanchik, KB6NU, blogs about amateur radio at KB6NU.Com, and is the author of the "No Nonsense" amateur radio license study guides and the CW Geek's Guide to Having Fun With Morse Code." You can reach him by emailing cwgeek@kb6nu.com.



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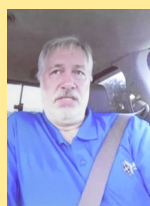
MEETING MINUTES

FOND DU LAC AMATEUR RADIO CLUB Minutes of FDLARC Monthly Meeting Monday, July 10, 2017



Call to Order

The meeting was called to order at 7:02 pm with President Jim Balthazor K9AIX officiating.



Program

Stan Cram AI0M introduced Bart Jahnke W9JJ, the contest manager at the ARRL. Bart started his HAM career in Wisconsin in Wausau listening to hams and earned his license in 1979. He started at the ARRL as the repeater directory editor then became the VEC manager. He gave us an overview of the contests that ARRL sponsors and told us how they verify contacts in submitted logs. It was a very interesting presentation.

Introductions

All attendees introduced themselves.

Approval of Meeting Minutes

A motion was made Buddy Larson KC9UVJ to approve the minutes of the last meeting as published in the newsletter. The motion was seconded by Stan Cram AI0M. The motion carried unanimously via a voice vote.

Treasurer's report

The treasurer's report was presented by Doug Schultz N9EZF. Income was reported as follows:

Dues and Raffle	\$ 77.00
Brat Fry	\$806.37
CD Interest	\$ 2.16

Expenses were as follows:

Truck Insurance	\$467.00
-----------------	----------

Truck Fund	0.00
Emerg. Services Fund	1,776.36
General Use Fund	3,771.31
Savings Account	25.00
Petty Cash Fund	19.12
Total	4,993.17
Repeater Fund	229.19

We saved \$320 on truck insurance by switching to Behnke

A bill to pay for the Field Day Food was presented by Jack Heil KG9IN for 64.92. A motion was made to pay the bill was made by Stan Cram AI0M Buddy KC9UVJ and seconded by Buddy Larson KC9UVJ. The motion carried unanimously via a voice vote.



A motion was made to approve the Treasurer's report by Buddy Larson KC9UVJ and seconded by Tom Powell KV9VXR. The motion carried unanimously via a voice vote.

Old Business

Field day : All went well but we don't have our score yet (nor the score from WI QSO party). We had good help and participation from all. The food (coordinated by Marjorie Heil KC9BEN) was great and the weather good. Dennis Paulin KB9OFM supplied the pulled pork for lunch and dinner. As always, it was very good. Unfortunately the bands were poor.

Peter Fox KB9WZD mentioned that antenna setup had lots of help from some of the new members. The station layout where we ran the antennas in a NS line in the center of the parking lot worked well.



MEETING MINUTES

FOND DU LAC AMATEUR RADIO CLUB Minutes of FDLARC Monthly Meeting Monday, July 10, 2017



Old Business CONT.

Joe Scheibinger K9VY is working on our status as a 501c. We have to make a minor change to our club charter to state that we are an educational institution.

There is a new contact for MPTC (Ann Torguson) as Stan Cram AI0M is leaving to move back to Minnesota.

There are no results for the WI QSO party yet.

New Business

There was a question as to whether we should put together a program to help Boy Scouts get a radio badge. It was pointed out that this is a rather complex process and the matter was dropped. No one volunteered to head up the project

We need headphones, a foot switch and another power supply for the 746.

A motion to select a Field Day Chair at next meeting was made by Buddy Larson KC9UVJ and seconded by Tom Chapman KC9UVJ. The motion carried unanimously via a voice vote.

A comment was made that the library has a location to put up a ham station to demonstrate ham radio. The Children's Museum also has space but we would need manpower to do this. No action was taken on this matter.

The Truck Committee was suspended.

The Web page is still in limbo/ Jim Balthazor K9AIX has paid for the domain name and will carry the matter forward as time permits.

A motion was made to pay \$10 / month for a server to run the web page was made by Jack Heil KG9IN and seconded by Todd Beay AC9EX. The motion carried unanimously via a voice vote.

Out Summer picnic will be held Jack KG9IN and Marjorie Heil's KC9BEN home on Sept 9th 6:30 pm.

The RMC triathlon will be on Sunday morning July 23, 2017.

No will not be having any Technician classes this year as there is a significant amount of web resources to help people prepare for the exam. We have four testing sessions each year

Business from the Floor

Stan Cram AI0M is retiring from MPTX and moving back to Rochester Minnesota. We will all miss him and are grateful for his contributions to our club.

Adjournment

Lloyd Vandervort N9RPU made a motion to adjourn. Jack Heil KG9IN seconded the motion. The motion carried unanimously via a voice vote and the meeting was adjourned at 8:38 pm. The Raffle was won by Tim Braun W9TRX.





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NOTICES/ANNOUNCEMENTS

FDLARC On YouTube



Many of you may not be aware, but Lloyd Vandervoort N9RPU, our Club Secretary, has been making videos of the presentations at our meetings. There is now a pretty large collection of them on You Tube. Do yourself a favor and take a few minutes to scan the list and play some of them. Enjoy!

FARC - W3AO Field Day Presentation <https://youtu.be/UK1A47pNKyo>

FARC - Bob Heil Ham Radio Presentation https://youtu.be/t3Ueh9IN5_U

FARC - WWV Presentation https://youtu.be/w3-DP9DEv_U

FARC - Pacific Antenna Talks Kit Building <https://youtu.be/SBReL2YIsn0>

FARC - Scanner Master Presentation <https://youtu.be/dlSIAufGkv8>

FARC - WBAY Field Trip TV Nov 17 2015 <https://youtu.be/sfQvJ1fV6eo>

FARC - WBAY transmitter tour https://youtu.be/NnZ21O_6HvA

FARC - NooElec https://youtu.be/s_pxYkH4xds

FARC - Elecraft Radio <https://youtu.be/3Ou1Qpx9Vg8>

FARC - Ed Tobias & Morse Code <https://youtu.be/9uu4PFMrH2U>

FARC - Salvation Army Emergency Communications <https://youtu.be/oxXoZjuTTNE>

FARC - KFIZ Interview <https://youtu.be/UVFMCvRGEJE>

Member Address/Phone Directory

If you have any corrections to the Address/Phone Directory, please send them to Doug Schultz N9EZF at schultz74@charter.net.

Code Classes

Rick Robinson reports the following statistics and call for members of the code class.

Code class up-date:	Basic classes	2
	Inter. classes	2
	Advanced	1

Interested in learning CW, call Rick NI9Z at 920-924-9559



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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.

—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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Free, For Sale or Wanted

Upcoming HAMFESTS and Conventions From ARRL

Hamfests

Hamfest/Convention

08/05/2017 | [Riverland ARC Swapfest](#)

Location: Onalaska, WI

Type: ARRL Hamfest

Sponsor: Riverland Amateur Radio Club

Website: <http://rarc.qth.com>

[Learn More](#)



Hamfest/Convention

08/12/2017 | [Free Fest 2017](#)

Location: Racine, WI

Type: ARRL Hamfest

Sponsor: Racine Megacycle Club

Website: <http://www.w9udu.org>

[Learn More](#)



Hamfest/Convention

08/26/2017 | [Circus City Swapfest](#)

Location: Baraboo, WI

Type: ARRL Hamfest

Sponsor: Yellow Thunder Amateur Radio Club

Website: <http://yellowthunder.org>

[Learn More](#)





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Free, For Sale or Wanted

Buyers and Sellers Wanted

The **Wisconsin Antique Radio Club**

Madison Chapter

Will host a swap meet on Sunday
August 20 at 3610 Lexington Ave. in
Madison from 8:00 to 11:00 AM

Indoor/outdoor meet with limited space

Admission is free. Selling spaces are \$7.00 for
members, \$10.00 for non-members. Bring your own table. Street
parking is available for buyers. WARCI will provide free coffee.





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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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2017 CALENDAR

Jan. 9, 2017

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

Feb. 13, 2017

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

Feb. 18, 2017

License Exams, 9:00 am-Noon, Moraine Park Technical College in Room O-104
Contact: Doug Schultz N9EZF



Mar. 12 & 13, 2017

Wisconsin QSO Party



Mar. 13, 2017

FDLARC Monthly Meeting, 7:00 pm, MPTC A-112.
Annual Membership Drive-Contact Joe Scheibinger

Apr. 10, 2017

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

Apr. 22, 2017

License Exams, 9:00 am-Noon, Moraine Park Technical College in Room O-108
Contact: Doug Schultz N9EZF



May 8, 2017

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

May 19 thru 21, 2017

Dayton HAMFEST



June 2-3, 2017

Brat Fry at the Country Corners Exxon Station, Hwy 67 and Hwy 41 in Lomira.
8:00am to 5:00pm—Contact: Doug Schultz N9EZF



June 12, 2017

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

June 9 - 11, 2017

Walleye Weekend. Contact Joe Scheibinger

June 24 & 25, 2017

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



July 10, 2017

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

July 23, 2017

RMC Triathlon



Aug. 14, 2017

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

Aug. 20 2017

Race the Lake



August 25-26, 2017

Brat Fry at the Country Corners Exxon Station, Hwy 67 and Hwy 41 in Lomira. .
8:00am TO 5:00pm—Contact: Doug Schultz N9EZF



Sept. 11, 2017

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

Sept. 9, 2017

FDLARC Annual Picnic. 6:30 pm. Hleil's Home

Sept. 24, 2017

Fox Cities Marathon



Oct. 9, 2017

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



Oct. 14, 2017

License Exams, 9:00 am-Noon, Moraine Park Technical College in Room O-104
Contact: Doug Schultz N9EZF

Nov., 13 2017

FDLARC Monthly Meeting, 7:00 pm, MPTC A-112. Election of 2018 Officers



Dec. 2, 2017

FdL Parade of Lights, 4:00, Downtown

Dec. 11, 2017

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



Dec. 9, 2017

License Exams, 9:00 am-Noon, Moraine Park Technical College in Room O-104
Contact: Doug Schultz N9EZF



Dec. 10, 2017

Christmas Party. Jim and Lind's Contact Buddy Larson KC9UVJ



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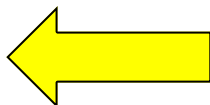
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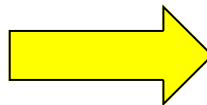
Name	Callsign
Barbara Simon	W9MER
Bowen Blend	KC9VXV
Brad Freund	KC9QYP
Brian Turkiewicz	KC9LFR
Buddy Larson	KC9UVJ
Chuck Mahnke	K9HXI
Cully Kowal	KS0D
Danny Vandekolk	KC9IGD
David Mc Cumber	N9WQ
David Zittlow	K9DUI
Dawn Krause	KD9CAW
Dean Choate	KC9TGM
Dennis Paulin	KB9OFM
Dick Finn	KC9ZVW
Don Chapman	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	AI0M

FDL ARC ROOSTER

Name
Sort



Call
Sort



Name	Callsign
Edward Frac	AA9WW
Todd Beay	AC9EX
Stan Cram	AI0M
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 Karmann	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
Gene Olig	KD9ZP
Mike Keyes	KE7ES
Jack Heil	KG9IN
Cully Kowal	KS0D
Tom Murray	NOHOR
Reinhold Aschmotat	N8VDH
Doug Schultz	N9EZF
Ed Beltz	N9PJQ
Lloyd Vandervort	N9RPU
Jim Cole	N9WAP
David Mc Cumber	N9WQ

Ted Neuburg	W9LUQ	Rick Robinson	NI9Z
Ted Willett	W9NHE	Laura Yates	none
Todd Beay	AC9EX	Ted Neuburg	W9LUQ
Tom Karmann	KC9VZY	Barbara Simon	W9MER
Tom Murray	NOHOR	Ted Willett	W9NHE
Tom Powell	KC9VXR	Ed Sippel	W9VYO
Tony Pass	KC9QYR	Gerry Radtke	WA9GON
Walter Rueger	KC9WQ	Mark Forss	WD9CYM