



# FOND DU LAC AMATEUR RADIO CLUB

## — FDL 73 —

VOLUME 17 ISSUE 5

www.fdlhams.org May, 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

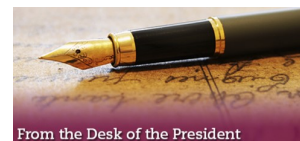
Each committee has several members. If you are interested in serving on a committee, please contact the chairperson and volunteer your services.

### Mailing Address

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

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

### The Presidents Corner By: Dave McCumber N9WQ



Hello Everyone Here we are again starting another month on our HAM calendar.

I was thinking that some of you might not be aware that I collect and restore Vintage ham gear. With that being said I collect specific types of gear like Hallicrafters Collins and Yaesu equipment.

I started collecting old gear when I first became a ham around 1994. I thought to myself I wish I could use all that cool old gear so I started buying estate sales because that's where all the deals could be had... You had to come up with the money and buy it all. That meant all the do-dads that you didn't want along with the good stuff...



It was nice because I had the opportunity to play with, use, work on and have fun with almost every kind of rig made!!! I am very serious when I say that!! I have pics of it all !! On the next page there is a pic from AES Super-fest that I have been involved in three or four times.. I started collecting Yaesu vintage 70's equipment first. Specifically the FT-101 line and all the cool accessories that went with it like the FT2100b amp the FV series Transverters for 2M and 6M. scope, ext speakers with phone patches and more...

So a perplexing problem started to show its ugly head (COLLECTING). I went on to collect Collins AM gear Specifically St James equipment like the 75a1, 32v1. 51j3 and those types. Those are the rigs in the picture!

### Next Meeting

**When:** May 9, 2016 at 7:00 pm

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

**Program:** Meet With W3AO Long Time Field Day Winners



### The Presidents Corner (cont.)

By: Dave McCumber

And then my true love Hallicrafters. I collected them all at one time. Once I realized that it would take a lot of funding and space I came to my sense's and started selling some of it off to concentrate on my favorite gear. I kept certain types of Hallicrafters like the ht32, sx101a and ht33a amp (that would be the "BLUE" colored radios in the other pics). And the large round Silver dial radios from the 1930's like the one's in the picture from an other AES super-fest!..

It took me 23 years to collect what I have so far including a 1943 BC610 e Transmitter that puts out almost legal limit AM and weighs in at 435 lbs(without the acc.'s ) My point... Be Careful what you wish for ;-)



Dave McCumber N9WQ at the AES Superfest.



Some of Dave's radios. These appear to be mostly Hallicrafters.



More of Daves collection.



A 1943 BC610 e Transmitter at the right. The earlier models of this were used at Pearl Harbor, and later, in the Pacific during the Battle of Midway





### FDLARC Meets With W3AO For a Celebration of Field Day



One thing about the hams at the FDLARC. We take our Field Day very seriously! And so does W3AO. At Monday's meeting, our club will meet with club members from the Potomac Valley Radio Club, Columbia Amateur Radio Association. For the last 18 years, W3AO has been the #1 station in the country for Field Day.

Here is how ARRL describes Field Day. "To work as many stations as possible on any and all amateur bands (excluding the 60, 30, 17, and 12-meter bands) and to learn to operate in abnormal situations in less than optimal conditions." Field Day is open to all amateurs in the areas covered by the ARRL/RAC Field Organizations and countries within IARU Region 2. DX stations residing in other regions may be contacted for credit, but are not eligible to submit."

During the meeting, Members from both clubs will share ideas and stories that make this part of the Amateur Radio hobby so much fun! I had the honor last year of working logs, sitting in a motorhome at 2:00 AM watching a pro do his magic. I was hooked!

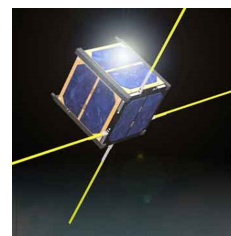
This will be an incredibly fun meeting joining two top rated Field Day groups to share ideas and war stories! Don't miss this one.





### April Meeting Using the Amateur Satellites

Our April meeting was focused on covering business items and discussing upcoming events. We were still able to fit in a great presentation by Ron Keller KC9YVL on communicating with satellites.



Our thanks to Ron Keller who provided us with an overview of HAM Satellite communications at the last meeting. Ron uses his Bao Feng handheld for his satellite work.

To work satellites, you can improve any handheld radio's stock antenna: Most stock antennas are rated **at** -6db gain or *worse*! An improved whip will help *just a bit* on receive ... but you *really need some gain*, which you'll achieve with a handheld beam or Yagi - either a home-built or commercial model. Ron bought his handheld antenna from AES.

Typical satellites include uplink communications (signals TO the satellite) being on separate bands from downlink communications (signals FROM the satellite). This is really no different than what we do on earth by separating a repeater's receive and transmit frequencies.

The modes a satellite operates in will vary by design and in some cases can be changed by control stations. Common modes include FM (voice), sideband (voice), and digital.

Some digital-capable satellites may operate in a "store and forward" mode instead of immediately reflecting or repeating what they "hear". A store-and-forward configuration offers the retransmission of the data either for a number of times, at a certain time, or when the satellites approximate position reaches a certain area or range.



Ron Keller KC9YVL demonstrating the hand held Yagi antenna he uses for satellite communications.

So far, AMSAT-originated amateur radio satellites have been active in two orbit configurations known as HEO (High Earth Orbit) and LEO (Low Earth Orbit). Generally speaking, HEO's are geo-synchronous or geo-stationary, that is they seem to stay in the same position with respect to an earth-based observer's viewpoint. LEO's will have relatively rapid "passes" that will appear as if they come from different directions and at varying times. This appearance is because both of their orbital paths and earth's rotation.

#### Operation recommendations

- Don't overload the receiver. Satellites are often short on power. If it's a transponder, and you blast it with lots of power, you'll affect other stations working through it.
- Take account of the Doppler Effect: When the satellite is rising (and coming towards you), it will be (roughly) 2-5kHz above its nominal frequency. As it gets right overhead, it will be on frequency, and as it "goes down" towards the horizon, it will be 2-5 kHz lower. Think of the Big Bang Theory episode where Sheldon went to a costume party dressed as the Doppler Effect.
- Generally, you adjust the receive frequency, and not the transmit frequency to compensate for the Doppler shift. If it's a repeater/transponder, listen to the downlink as you're transmitting - check that you can hear yourself.

A little research on the net should give you the rest of the information you will need to get started (i.e. more detailed info on antennas, satellite tracking programs, etc).





### April License Testing By Dick Finn



Thanks to Doug Schultz N9EZF, we have sponsored another successful testing session with seven HAMS either earning their Technician ticket or upgrading an existing license. This was one of the largest sessions in recent history.

We had a great turnout of VEs too. In addition to Doug, Jack Heil KG9IN, Todd Beay AC9EX and Dick Finn KC9ZVW were in attendance. For Dick, it was his first testing session after earning his credentials. For those of you who may be interested, becoming registered as a VE only involves taking a subjective (i.e. no multiple choice, all essay) test and sending it in to the ARRL. A few weeks later, after grading the test (pass/fail) they send you back your credentials.

While the test is open book, it is not trivial and does take an hour or so of concentrated effort. This shows the importance the ARRL places in assuring its VEs are qualified. Doug commented that he is always looking for VEs so if you have the time and are at least a General Class, go ahead and take the test.



*Our intrepid band of VEs preparing to start the testing session. Doug Schultz N9EZF talking with Todd Beay AC9EX and Todd Beay AC9EX discussing the session with Jack Heil KG9IN*



*Thanks to the fine folks at MPTC, we had a large room to administer the tests.*



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### April License Testing (cont.) By Dick Finn



James Knepple KD9FRE receiving his Extra Class Ticket from  
Todd Beay AC9EX.



Jonathon Markworth receiving his Technician Class Ticket



Mark Forss receiving his Technician Ticket from Jack Heil KG9JN



Rodney Wieck receiving his Technician Ticket from Todd Beay  
AC9EX.





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### April License Testing (cont.) By Dick Finn



David Nigel receiving his Technician Ticket from Jack Heil KG9IN



Arlyn Heape W9ARL receives her General Class Ticket from Dick Finn KC9ZVW.



Brian Hastings receive his Technician Ticket from Jack Heil KG9IN





### I'm EXTRA Ignorant By Dan Romanchik, KB6NU

On Sunday, I received the following e-mail from a reader:

"Just wanted to let you know I passed the General exam using your study guide. It was very helpful. I am now generally ignorant whereas before I was only technically ignorant. Ha!"

My reply to him was:

"Well, if you're generally ignorant, I guess that makes me EXTRA ignorant!"

This isn't just a joke--being ignorant is part of the hobby. Amateur radio operators will always be ignorant about something or other. Even if you could master every facet of the hobby at some point in time, your mastery would be short-lived as the technology continued to advance.

Over the course of my amateur radio career, we've gone from equipment that primarily used vacuum tubes, to solid-state gear that first used discrete transistors and then integrated circuits, to software-defined radios. I could have, at some point, simply given up on the new technology and still enjoyed amateur radio. Some guys do that, and that's OK. It is only a hobby after all.

I'm not one of those guys, though, and if you're not one of those guys, then you have to resign yourself to being ignorant. But, that's a good thing, as long as you realize that you're ignorant. Realizing that you're ignorant will spur you on to learn new things and accept new challenges.

Recently, I realized that I'm mostly ignorant about satellite operation. I know some of the basics from having read articles and writing about the topic in my study guides, but I have never made a contact using a satellite. I think that might be one of my next challenges. With the advent of CubeSat, there are many new satellites up in the air and many more opportunities to have interesting contacts.

So, what are you ignorant about? By that I mean, of course, what's going to be your next challenge in amateur radio?

=====

When he's not challenging himself with new things, Dan falls back on something he knows pretty well--operating CW. You'll find him mainly on the 80m, 40m, and 30m bands. Dan is the author of the "No Nonsense" amateur radio license study guides, and blogs about amateur radio at KB6NU.Com, and you can contact him by e-mailing cwgeek@kb6nu.com.







### **“Rules of Radio”**

**Dan Hubert, VE9DAN**

(Originally published sometime in 1996 or 1997)

1. There shall be no talking by the family during a QSO.
2. The XYL shall assist with antenna construction when and only when required.
3. The shack budget will take precedence over all other incidental items such as mortgages, food, echoes, etc.
4. Christmas stocking stuffers for the OM must include at least two items for the shack (total value of not less than \$300).
5. Flea markets, hamfests, and field days over-rule family holidays.
6. Furry pets are not allowed near the rig (except for testing purposes).
7. TVI never occurs within the home, or if it does, is negligible and does not count.
8. All trees around QTH shall be considered antenna supports, and not "greenery", "landscaping", or other such nonsense. Corollary: Any tree may be cut down, pruned, poisoned, dug up, or otherwise removed should it be in the way of wire.
9. The last postage stamp and envelope in the home shall be reserved for direct QSL mailings, and not for personal letters, bills, or mail orders (unless orders are for shack).
10. Any number of holes may be drilled in the family car to accommodate mobile whips. Corollary: Coax may droop across the steering column occasionally.
11. Never herewith shall insurance coverage of shack items be less than triple the replacement value, notwithstanding acts of God.
12. Burger King must never allow the holy whopper oven to cool.
13. Newly licensed hams must honor, praise, look up to, ask easy questions of, and purchase coffee for, old guys.
14. The XYL shall anticipate good band propagation conditions at all times, and whenever rare DX flows in, she shall without fail;
  - Keep log when requested;
  - Hold all phone calls - except those from other hams;
  - Call the OM's work QTH the next morning and cover his absence with a good excuse;
  - Appear very excited;
  - Change all her plans to suit;
  - Provide steaming coffee at 45 minute intervals;
  - Cancel all household chores, and in particular, cancel vacuuming.
15. All materials owned by the work QTH can and will be used for ham projects.
16. These rules may be modified at any time, without notice, to continuously be in the OM's best interest.
17. The most recent licensee must beareth the brunt of our collective teasing until the next new licensee fills his humiliated shoes.
18. All members of all radio clubs must support, in unsurpassed vigor and cooperation, whatever the resident "contest man" suggests-ith.
19. Whence OM bears unrelentless fright of tower height, others must climbeth said structure unfailingly upon request.
20. Refer longstanding rule #15. Verily, if you cannot convince work QTH to donateth items for thine shack, thou shalt quit said despicable workplace without notice. Simply QRT-eth hastily-eth.
21. New rule added by Rich, WB2MBM, August 11/97 via pactor: I'd like to add a rule to the list... "Coax cables may be routed to achieve the lowest loss, regardless of whether they cause doors, windows, etc., to be blocked or otherwise not to function. And if the house appears to be trapped in a sort of rubber "spider's web," that's a plus rather than a minus."





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### MEETING MINUTES

#### FOND DU LAC AMATEUR RADIO CLUB Minutes of FDLARC Monthly Meeting Monday, March 14, 2016



##### Call to Order

The meeting was called to order at 7:02 pm with President Dave McCumber (N9WQ) officiating.

##### Introductions

All attendees introduced themselves.

##### Approval of Meeting Minutes

A motion was made to approve the minutes of the last meeting as published in the newsletter by Lloyd Vandervoort N9RPU. 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	1,025.10
General Use Fund	2,728.67
Savings Account	25.00
Petty Cash Fund	<u>19.12</u>
Total	3,797.89
Repeater Fund	328.33

The treasurer's report was presented by Doug Schultz N9EZF. A motion to approve the Treasurer's report was made by Jack Heil KG9IN and seconded by Joe Scheibinger K9VY. The motion carried via a voice vote.

A motion to pay the bill for web hosting of \$71.88 was made by Ed Beltz N9PJQ and seconded by Tom Powell KC9VXR. The motion carried by a voice vote.

##### Old Business

##### New Business

Isaac Lundberg KD9FPG has added a flyer about ham radio and our club in his school newsletter

Isaac Lundberg KD9FPG has submitted an application for membership in the club. ALL APPROVED

Ed Beltz N0PJQ needs for help for the Salute the Troops Marathon on Saturday, May 28, 2016. Doug Schultz N8EZF needs help with the MS walk on May 7, 2016 from 10:00 to 11:00 am. Dave McCumber N9WQ will put these on the website.

Rick Robinson NI9Z reports that Imagineers in Ripon has custom embroidered heavy jackets with the club logo for about \$120. Rick wore his jacket to the meeting and gave everyone a chance to admire it. Pictures of the jacket are in the For Sale page of the newsletter.





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### MEETING MINUTES

#### FOND DU LAC AMATEUR RADIO CLUB Minutes of FDLARC Monthly Meeting Monday, March 14, 2016



Our first Brat fry of the year is coming up June 3 & 4th, 2016 from 8:00am TO 5:00pm at the Country Corners Exxon Station, Hwy 67 and Hwy 41 in Lomira. The contact for the event is Doug Schultz N9EZF.

Dave McCumber N9WQ explained how important QSL cards are and how he met a rock star by sending him a QSL card.

Testing will be held sat Apr 16 from 9:00 am through 12:00 pm at Moraine Park Technical College in Room O-104. The contact is Doug Schultz N9EZF.

Storm spotter training will be held on April 19, 2016 at Marian University.

There will be a state wide tornado test on Thursday, April 19, 2016 from 1:00 to 2:00 pm net on 147.09 state drill 6:50pm, ARES net 7pm on 145.430, Qip net 7:30

A discussion of Field day was led by Jack Heil KG9IN:

- Areas will be set up for CW, PHONE, PSK
- It was suggested we have a GOTA (Get On The Air) station.
- Food tent: Dawn Krause KD9CAW volunteered her husband to fry brats
- Joe Scheibinger K9VY will do publicity for Field Day.

Walleye Weekend will be after our Brat Fry June 10-11, 2016. A discussion on whether we should find a new location was held with no resolution.

#### **Business from the Floor**

Please note the following events on your schedule:

- Aug 14 Race the Lake
- July 24 Ripon Triathlon.
- ARES meeting Apr 25 Moraine Park Technical College, Room O103 at 7:00 pm.

Dave McCumber N7WQ is thinking about getting a storage shed/ Should we get one?

We need someone to store all of our awards. Dick Finn KC9ZVW has a bunch of stuff from Randy and there are some of our plaques in the truck.

Any scores for WIQSO party? Nothing has been published yet but all our results have been sent in.

#### **Adjournment**

A motion to adjourn was made by Peter FoxKB9WZB and seconded by Jack Heil KG8IN. The motion carried via a voice vote and the meeting was adjourned at 8:33 pm.

Ron Keller gave a demonstration on satellite communication with a dual band antenna and a handheld radio. Note, see the article in this edition of the newsletter.





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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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### Code Class By Rick Robinson

Rick will be at the next meeting to discuss progress of the students in his code class and his plans to start a new class for those interested.

Thanks  
Rick



Resistance is futile



### License Exams By Doug Schultz



If you missed our last testing session this past month, 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 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.





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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 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 A-112.

**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. 6, 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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Name	Callsign	FDL ARC ROOSTER				Name	Callsign
Barbara Simon	W9MER	Name Sort				Barbara Simon	W9MER
Bowen Blend	KC9VXV					Edward Frac	AA9WW
Brad Freund	KC9QYP					Todd Beay	AC9EX
Brian Turkiewicz	KC9LFR					Stan Cram	AI0M
Buddy Larson	KC9UVJ					Jim Balthazor	K9AIX
Chuck Mahnke	K9HXI					Nancy Myers	K9ANA
Cully Kowal	KS0D					David Zittlow	K9DUI
Danny Vandekolk	KC9IGD					Dot Olig	K9FDL
David Mc Cumber	N9WQ					Chuck Mahnke	K9HXI
David Zittlow	K9DUI					Joe Scheibinger	K9VY
Dawn Krause	KD9CAW					Ed Steinfeld	KB1ZJK
Dean Choate	KC9TGM					Dennis Paulin	KB9OFM
Dennis Paulin	KB9OFM					Larry Lamont	KB9POP
Dick Finn	KC9ZVW					Louis Simon	KB9VQM
Don Chapman	KC9KZQ					Peter Fox	KB9WZD
Donna Blend	KC9TFN					Doug Wagner	KC0RNS
Dot Olig	K9FDL					Marjorie Heil	KC9BEN
Doug Murray	KC9ZVT					Mike Miller	KC9DOA
Doug Schultz	N9EZF					Kirk Everson	KC9FZE
Doug Wagner	KC0RNS					Danny Vandekolk	KC9IGD
Ed Beltz	N9PJQ					Joyce Keyes	KC9KIJ
Ed Sippel	W9VYO					Don Chapman	KC9KZQ
Ed Steinfeld	KB1ZJK					Marjean Buck	KC9LFI
Edward Frac	AA9WW					Neal Buck	KC9LFN
Fernando Salazar	KC9ZVX					Brian Turkiewicz	KC9LFR
Gene Olig	KD9ZP					Joe Lauber	KC9MDY
Gerry Radtke	WA9GON					Randy Nelson	KC9MYG
Gregory Schmude	KD9EHB					Paul Bleuel	KC9NAA
Isaac Lundberg	KD9FPG					Brad Freund	KC9QYP
Jack Heil	KG9IN					Tony Pass	KC9QYR
Jim Balthazor	K9AIX					Larry Mielke	KC9RUE
Jim Cole	N9WAP					Donna Blend	KC9TFN
Joe Lauber	KC9MDY					Dean Choate	KC9TGM
Joe Scheibinger	K9VY					Buddy Larson	KC9UVJ
Joyce Keyes	KC9KIJ					Tom Powell	KC9VXR
Kirk Everson	KC9FZE					Bowen Blend	KC9VXV
Larry Lamont	KB9POP					Tom Karrmann	KC9VZY
Larry Mielke	KC9RUE					Walter Rueger	KC9WQ
Lloyd Vandervort	N9RPU					Lori Winchel Beltz	KC9YQS
Lori Winchel Beltz	KC9YQS					Ron Keller	KC9YVL
Louis Simon	KB9VQM					Doug Murray	KC9ZVT
Marjean Buck	KC9LFI					Dick Finn	KC9ZVW
Marjorie Heil	KC9BEN					Fernando Salazar	KC9ZVX
Matt Nett	KD9BBN					Matt Nett	KD9BBN
Mike Keyes	KE7ES					Dawn Krause	KD9CAW
Mike Miller	KC9DOA					Gregory Schmude	KD9EHB
Nancy Myers	K9ANA					Isaac Lundberg	KD9FPG
Neal Buck	KC9LFN					Gene Olig	KD9ZP
Paul Bleuel	KC9NAA					Mike Keyes	KE7ES
Peter Fox	KB9WZD					Jack Heil	KG9IN
Randy Nelson	KC9MYG					Cully Kowal	KS0D
Ray Grenier	W9KHW					Doug Schultz	N9EZF
Rick Robinson	NI9Z					Ed Beltz	N9PJQ
Ron Keller	KC9YVL					Lloyd Vandervort	N9RPU
Stan Cram	AI0M	Tom Karrmann	KC9VZY	Ted Neuburg	W9LUQ	Jim Cole	N9WAP
Ted Neuburg	W9LUQ	Tom Powell	KC9VXR	Ted Willett	W9NHE	David Mc Cumber	N9WQ
Ted Willett	W9NHE	Tony Pass	KC9QYR	Ed Sippel	W9VYO	Rick Robinson	NI9Z
Todd Beay	AC9EX	Walter Rueger	KC9WQ	Gerry Radtke	WA9GON	Ray Grenier	W9KHW

