



# FOND DU LAC AMATEUR RADIO CLUB

## — FDL 73 —



VOLUME 19 ISSUE 10    [www.fdlhams.com](http://www.fdlhams.com) October, 2018

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

### Club Officers

President: Dave McCumber N9WQ  
Vice-President: Tom Powell, KC9VXR,  
Secretary: Lloyd Vandervort N9RPU  
Treasurer: Doug Schultz N9EZF  
Sgt-at-Arms: Dawn Krause KD9CAW

Board Member: Peter Fox KB9WZD  
Board Member: Buddy Larson KC9UVJ  
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: Tim Braun W9AAV

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)

### Some Reminders



While the Fall seems to be a real slow time for our club, we do have two testing sessions coming up. Firstly, Doug Schultz N9EZF will be running a session on Oct. 13, 2018 from 9:00 am through Noon at Moraine Park Technical College in Room O-104. If you know someone who is thinking about becoming a HAM there is still time to study for the Technician Class license. Time is a bit tight but you could probably get prepped for the General class in that timeframe too.

A better schedule for someone thinking to upgrade to General or Extra Class would be to take the test on Dec. 9, 2018 at the above time and location. This gives you plenty of time to get the study materials, read through them and take the practice exams.

Another upcoming annual event is that our yearly dues are coming up. Single memberships are \$15 or if you have two HAM members a family membership is \$20. Student memberships are \$7.50. You can pay Doug Schultz at the next (or following) monthly meeting or send a check to him at:

Fond du Lac Amateur Radio Club, Inc.  
PO Box 53  
Fond du Lac, WI 54936-0053

### Next Meeting

**When:** October 8, 2018 at 7:00 pm

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

**Program:** Paul Hrivnak N8PH, President & CEO of Palstar



# FOND DU LAC AMATEUR RADIO CLUB

## — FDL 73 —



VOLUME 19 ISSUE 10    [www.fdlhams.com](http://www.fdlhams.com) October, 2018

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

### October, 2018 Program

### Paul Hrivnak N8PH, President & CEO of Palstar Will Speak at the October Meeting

On Monday, October 8th, Paul Hrivnak N8PH, President, CEO, and Chief Engineer of Palstar will be our guest. Palstar is one of the largest manufacturers of Ham radio products with locations in over 11 countries around the world.

Palstar is also one of the largest designers and manufacturers of antenna tuners. And that is the subject of the entertainment for the October meeting. What is a antenna tuner, what do they do and how do they work.

Palstar President and CEO, Paul Hrivnak, started his career as an electrical engineer in the automotive industry with his first job at the Ford Motor Company in Detroit, Michigan. He then moved to cable broadcasting and invented the very first [infra-red remote control](#) for use in cable television, which his company sold to Philips. His first amateur radio start-up was Vectronics back in the 1980s. In the 1990s, he became a U.S. citizen and started Palstar Incorporated in Piqua, OH. A lifetime of excellence in engineering is inside every Palstar product and one of the things Paul enjoys most is speaking directly to customers who are considering purchasing a Palstar product or discussing technical issues related to amateur radio.



Paul is also an accomplished classical violinist and once owned a violin made when J.S. Bach was three-years of age. He has played on the world's best violins including Stradivarius and Guarneri violins, and other modern master violin makers.

Over the years, antenna tuners have been called many names, Antenna matchbox, transmatch, antenna tuning unit (ATU), antenna coupler, and feedline coupler are all equivalent names for a device connected between a radio and its antenna to improve power transfer between them by matching the impedance of the radio to the combined impedance of the antenna and feedline.

This will be our very first introduction to antenna tuners. Please put this important meeting on your calendar and please bring a friend to the meeting.





### Vintage Amateur Radio de Bill Shadid, W9MXQ



On the heels of last month's presentation about the Hallicrafters SX-117 Receiver and HT-44 Transmitter (and the SR-150 Transceiver before that) comes a review of the HT-45 Linear Amplifier and the Radio Industries Loudenboomer model. Customers buying the SX-117/HT-44 Twins or the SR-150 Transceiver would find the HT-45 to be a perfect match. This amplifier became a direct competitor to the Collins 30L-1 Linear Amplifier but was potentially a good deal more powerful – at least in the power supply and tube plate dissipation. Below you can see the Hallicrafters HT-45 Linear Amplifier that is in operation at W9MXQ . . .



**Hallicrafters HT-45 Mark IIA 80-10 Meter Linear Amplifier**  
(Hallicrafters P-45 High Voltage Power Supply is Separate.)  
(W9MXQ Shack Photo)

The Hallicrafters HT-45 Linear Amplifier was capable of operating on most of the HF spectrum from 3.5 to 30 MHz, as were its mates, the SX-117/HT-44 and the SR-150. There was some efficiency drop-off outside the traditional 80 – 10 Meter bands of the time. This amplifier was developed by a Hallicrafters subsidiary operation, Radio Industries, Inc., of Kansas City, Kansas. That amplifier was known as the Loudenboomer. That name was kept with the release of the HT-45. Note the word “Loudenboomer” both on the front of the HT-45, above, and on the front of the Radio Industries version, below:



**Radio Industries Loudenboomer Mark IIA 80-10 Meter Linear Amplifier**  
(Radio Industries PS-2A High Voltage Power Supply is Separate.)  
(Radio Industries Loudenboomer Operating Manual)



### Vintage Amateur Radio de Bill Shadid, W9MXQ



The Radio Industries Loudenboomer and the Hallicrafters HT-45 share all physical and electrical specifications. Despite the color differences in the included photographs, the two amplifiers might well have shared the same front panel silk screening. The black insert panel and trim at the top of the HT-45 Front Panel are separate pieces. I have not removed them from my HT-45 but I suspect I would see the Radio Industries panel with the Radio Industries and Loudenboomer name blanked. Further indication of using the same silk screen is noticed when looking at the word "LOADING" at the right side of the amplifier. You will see that the trim piece there nearly covers the "L" in that word. If a separate design screen had been used, this could have been adjusted. That is just one of several trivia items in these products.

The HT-45 used a newly designed triode from Eimac – the 3-400z. This is the predecessor tube to the long popular 3-500z that most of us know. 3-400z tubes today are nearly unobtainable. Some of these amplifiers (both brands) can be found today with an Amperex 8163 triode. The Amperex 8163 (also now nearly unobtainable) was a competing tube to the Eimac 3-400z but was slightly taller and was a very tight fit in the cabinet of these amplifiers. To my knowledge, neither Radio Industries nor Hallicrafters branded amplifiers ever shipped with Amperex tubes from the factory.

For a review, look at comparable specifications for the HT-45 (and Loudenboomer) and its competitive target, the Collins 30L-1:

Specification	Amplifier	
	Collins 30L-1	Hallicrafters HT-45
Band Coverage	80-10 Meters	80-10 Meters
Power Amplifier Tube(s)	Four 811A Triodes	One 3-400z Triode
Total Dissipation	260 watts	400 Watts
Circuit	Zero Bias Grounded-Grid	Zero Bias Grounded-Grid
Input Circuit	Tuned – 50 Ohm Impedance	Tuned – 50 Ohm Impedance
Cooling	Simple fan across the Tubes	Pressurized Cooling System
Input Power	1,000 Watts SSB/CW	1,000 Watts SSB/CW
Drive Power for Full Output	100 Watts	50 Watts
Power Output	500 – 600 Watts	500 – 600 Watts
Plate Voltage	1,800 Volts	3,000 Volts
Total Weight	38 Pounds	Amplifier – 28 Pounds

(Collins 30L-1, Radio Industries Loudenboomer, and Hallicrafters HT-45 Operating Manuals)





### Vintage Amateur Radio de Bill Shadid, W9MXQ



This comparison covers just these popular “table top” amplifiers. (The Hallicrafters P-45 Power Supply for the HT-45 was floor mounted – so maybe “table top” is a bit of a stretch!) The total weight of the HT-45 (at 103 pounds with its power supply) was far more than the 30L-1. That was related to the extremely underutilized P-45 Power Supply in the Hallicrafters system. I am sure that the P-45 Power Supply could have handled much more power. However, the single Eimac 3-400z tube perhaps could not. One wonders if Hallicrafters had plans for a two-tube version of the HT-45. Remember, however, that at that time there was disagreement on the point of 2,000 watts PEP input for SSB. Hallicrafters in those years did not agree with that specification and had no amplifiers rated beyond 1,000 watts. Indeed, even Collins rated the bigger 30S-1 Linear Amplifier (floor mounted amplifier and power supply weighing 170 pounds) at 1,000 watts input. Same as the 30L-1. The 30S-1 could produce far more than 1,000 watts input power.

The HT-45 has a rather unique tuned input. And, in fact, both the Collins 30L-1 and the Hallicrafters HT-45 worked with exciters (32S-1 from Collins and HT-44 from Hallicrafters, respectively) that required a load impedance very close to 50 Ohms. Collins did this with tunable Pi-Network input circuits – one for each of its five bands, 80 – 10 Meters. The Hallicrafters input was a “wide-band ferramic transformer” (to quote their actual terminology), “which is broad-band tuned and essentially flat from 3.5 to 30 MHz.” This was all well and good but the HT-45 was super critical to drive level and anything more than 50 watts presented to the input of the amplifier would cause great problems and terrible signal reports caused by overdrive. To resolve this, the Operating Manual for the HT-45 includes design and building instructions for a 3-dB RF Pad that tames the drive power and makes the input circuit of the HT-45 operate as smooth as silk.

I have owned both the Radio Industries Loudenboomer and now the Hallicrafters HT-45 amplifiers. My original Loudenboomer and its matching 3-dB pad lives on with my fellow collector, Bob, W9DYQ. My current HT-45 has its own 3-dB pad, also based on the HT-45 Operating Manual. The pad uses a total of 38, 2-watt carbon composition resistors. As you would expect, the pad dissipates about 50 watts, peak.

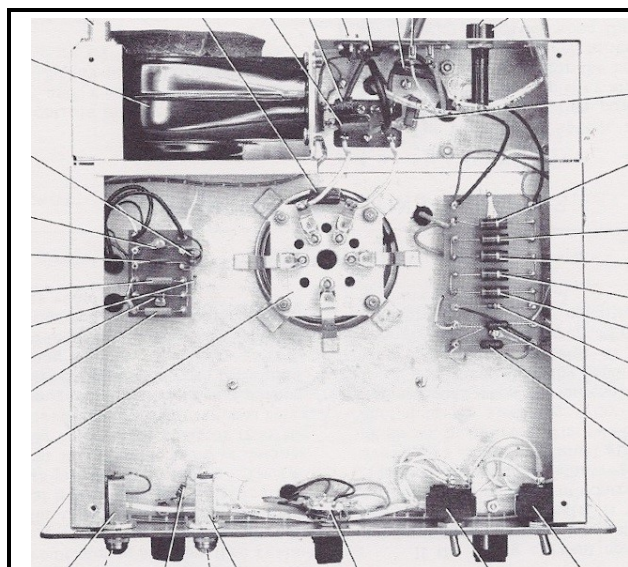
Unlike the Collins 30L-1, and many other amplifiers of the time, the Hallicrafters HT-45 does not have in/out RF switching. When connected to its exciter (such as the Hallicrafters HT-44 Transmitter) it runs 1,000 watts input – period. A relay switching system needs to be designed to handle proper switching – keeping the 3-dB pad inside the amplifier part of the circuit (to prevent a 3-dB loss to the receiver). There is no hint of this in Hallicrafters’ documentation. If you find yourself in need of help making either the 3-dB pad or the relay switching system, you may always contact the author of this article for suggestions and some direction. I built my own switching relay from scratch. Such relays were readily available back in the 1960’s from P&H Electronics, Dow Key, and others. But, those are long gone, today. Homebrew is about the only option today.



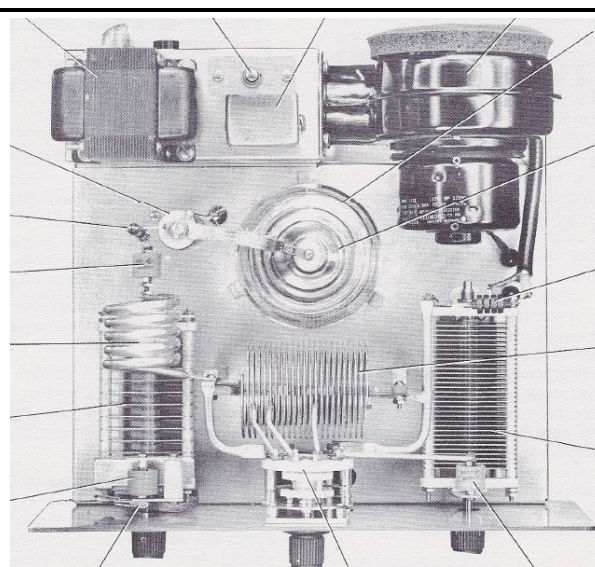
### Vintage Amateur Radio de Bill Shadid, W9MXQ



Here is a peek inside the workings of the HT-45 Linear Amplifier . . .



**Hallicrafters HT-45 Linear Amplifier  
Inside Bottom View  
(Front Panel at Bottom of Picture)**



**Hallicrafters HT-45 Linear Amplifier  
Inside Top View  
(Front Panel at Bottom of Picture)**

(Hallicrafters HT-45 Mark IIA Operating Manual)

In the bottom view you can see that the grid connections on the 3-400z socket are directly grounded to the chassis. The Mark II Model of the Radio Industries and Hallicrafters amplifiers had the grid pins going to ground through 0.005 uF mica capacitors. In the same view you can see, in the upper left-hand corner, the blower connected to the chamber housing the AC and Control lines from the P-45 Power Supply – which is open to the main chamber where the tube socket is mounted. All air must flow out of the blower, through the AC/Control input area, into the main socket area, and out via the chimney surrounding the 3-400z final amplifier tube.

Turning the amplifier over shows the 3-400z tube surrounded by its chimney (open at the top) forcing air past the tube socket pins at the bottom, around the tube envelope, and then exiting around the plate cap. In this Top View you can see the TUNING (left) and LOADING (right) capacitors and the Band Switch connected to the tank coils. You will also see the filament transformer (top left in the picture) and the Blower Assembly. Between the filament transformer and the blower, you can see the housing for the “wide-band ferramic transformer.”

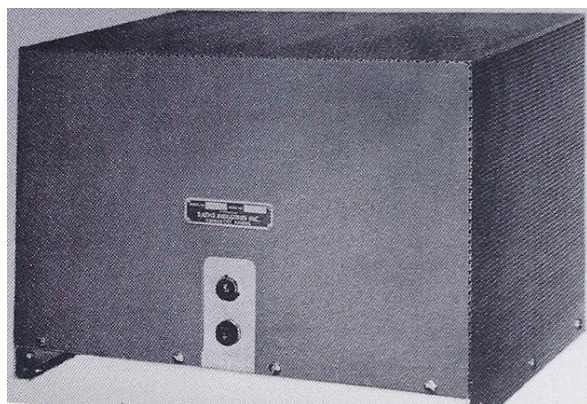




### Vintage Amateur Radio de Bill Shadid, W9MXQ

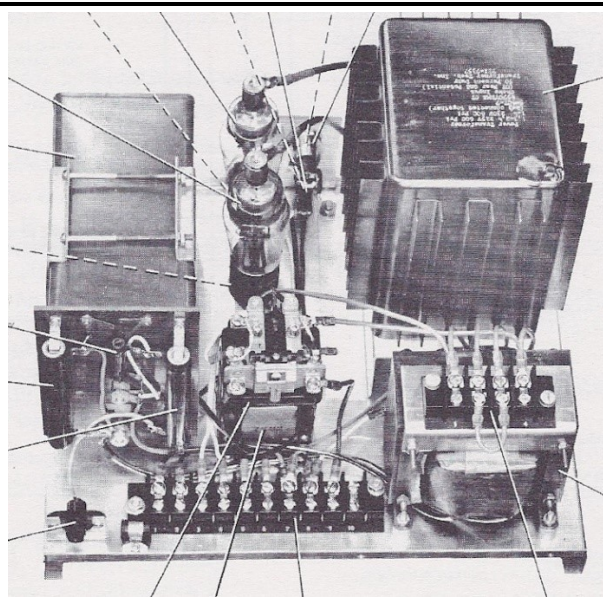


Now let's look at the 75-pound P-45 High Voltage Power Supply. (The Radio Industries P-2A Power Supply is the same.) This is a true monster. It was before the days of the high silicon steel power transformer laminations. Even so, with modern iron in the transformer and choke, this power supply would still be heavy.



**Hallicrafters P-45 Power Supply  
Radio Industries P-2A Power Supply  
(Exterior Front Quarter View)**

("Radios by Hallicrafters," Chuck Dachis 1999)



**Hallicrafters P-45 Power Supply  
Radio Industries P-2A Power Supply  
(Interior View - Bottom is Cabinet Rear)**

(Hallicrafters HT-45 Operating Manual)

Some of these power supplies were delivered with the supply mounted on a piece of half-inch plywood attached to the bottom of the cabinet. My P-45 is mounted that way.

The front view shows the cover in place with a high voltage indicator lamp on top, on the small panel, with the primary fuse below it. The other picture – reversed front to back from the outer view, shows the Plate Transformer at the upper right, the Plate Choke at the lower right, with the 110/220 VAC jumper strip on top of that choke, the AC Power-On Relay in the middle just below center, and the two 866A Mercury Vapor Rectifier tubes at top center that are in a full-wave, center-tapped circuit. At the upper left is an 8 uF, 3,000-volt Oil Filled Capacitor. There is a Millen high voltage connector at the lower left corner of the chassis plus a 10-pin terminal strip for interconnection with the amplifier.

The Hallicrafters P-45 and the Radio Industries P-2A Power Supplies are interchangeable and, like the two amplifiers, were built by the Radio Industries Subsidiary.



# FOND DU LAC AMATEUR RADIO CLUB

## — FDL 73 —



VOLUME 19 ISSUE 10    [www.fdlhams.com](http://www.fdlhams.com) October, 2018

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

### Vintage Amateur Radio de Bill Shadid, W9MXQ



The HT-45 is very clean, simple, and effective design. It gets the same results (and maybe a bit more) than its target competition, the Collins 30L-1. One mystery (there are always mysteries in these old radios!) is why Hallicrafters selected vacuum tube rectifiers. Maybe Hallicrafters President, Bill Halligan, ex-W9AC, liked that blue flash in sync with SSB modulation and CW keying – just like me! Do you think?

In closing, here are two pictures of the HT-45 Linear Amplifier in operation at W9MXQ. Top is with the SX-117/HT-44 Receiver/Transmitter. Bottom is with the SR-150 Transceiver. The HT-45 is quiet and provide a good added signal punch to the exciter. The HT-45 also adapts well with other brands of the 1960's as well as radios of today.

**Left to Right: HT-45, HT-44, PS-1**



**50-120, SX-117**

**(with D-104 Mic, HA-8 Spatter Guard, HA-1 Keyer, HA-10 Keyer, VibroKeyer)**

**Left to Right: HT-45, SR-150, PS-150-120, HA-1  
(with D-104 Mic, HA-8 Splatter Guard, VibroKeyer)**

Until next time – 73, and keep those old radios running on the bands!!

**W9MXQ**





# FOND DU LAC AMATEUR RADIO CLUB

## — FDL 73 —

VOLUME 19 ISSUE 10    [www.fdlhams.com](http://www.fdlhams.com) October, 2018



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

### MEETING MINUTES

#### FOND DU LAC AMATEUR RADIO CLUB Minutes of FDLARC Monthly Meeting Monday, September 10, 2018



##### Call to Order

The meeting was called to order at 7:04 pm. With Tom Powell KC9VXR (Vice President) presiding.

##### Introductions

All attendees introduced themselves.

Joe Scheibinger K9VY Had a message about the application for our 501-c3 . He has a copy of the application for review. See him if there are any errors .

##### Program: SATERN

SCOTT RUESCH W9JU Explains what SATERN stands for Salvation Army Team Emergency Radio Network. This is the radio communications arm of the Salvation Army. They have 25 members in Wisconsin and upper Michigan and are all volunteers.

When the Salvation Army is activated during a fire tornado or disaster and they are called out. They use uhf/vhf repeaters or simplex and hf as needed. The site is [www.Satern.org](http://www.Satern.org) .

The Salvation Army began offering assistance to disaster survivors after a major hurricane hit Galveston, TX in September 1900, destroying the coastal city and killing thousands of people. At the request of The Salvation Army's National Commander, Frederick Booth-Tucker, officers (the clergy of The Salvation Army) from across the country moved into the Galveston area to help feed and shelter the thousands of survivors, while also providing much needed emotional and spiritual support.

Since then, The Salvation Army has responded to numerous natural disasters, transportation accidents, civil unrest situations and terrorist attacks. By providing beverages, meals, and emotional and spiritual care to first responders and survivors, The Salvation Army strives to bring hope and healing to people who find themselves in the midst of extremely difficult situations.

SATERN is an all-volunteer organization made up of currently licensed amateur radio operators. They volunteer their time and efforts toward aiding The Salvation Army Emergency Disaster Services ministry. Many are also volunteers in such all-volunteer organizations as SKYWARN, ARES, and others. Some have completed the FEMA online training, or EDS Incident Command training, SKYWARN training, or ARES Emergency Communications training.

SATERN has local organizations in all 50 states and Canada, as well as many other parts of the world. The Salvation Army Team Emergency Radio Network has demonstrated its effectiveness by providing essential radio communication services in countless disaster situations,

The **SATERN International Digital Net** makes use of the FLDIGI NBEMS software suite from W1HKJ, Dave Freese. NBEMS is an acronym for Narrow Band Emergency Message System. It consists of a suite of applications that work together to provide considerable capability to the amateur operator.



# FOND DU LAC AMATEUR RADIO CLUB

## — FDL 73 —



VOLUME 19 ISSUE 10    [www.fdlhams.com](http://www.fdlhams.com) October, 2018

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

### MEETING MINUTES

#### FOND DU LAC AMATEUR RADIO CLUB Minutes of FDLARC Monthly Meeting Monday, September 10, 2018



#### Approval of Meeting Minutes

A motion to approve the Minutes was made by Don KC9KZQ and seconded by Joe Lauber. KC9MDY . The motion carried unanimously via a voice.

#### Treasurer's report

The Treasurers Report was presented by Doug Schultz N9EZF.

A motion to approve the Treasurers Report was made by Buddy KC9UVJ and seconded by Justin Buell KB9YET. The motion carried unanimously via a voice vote.

Truck Fund	0.00
Emerg. Services Fund	1,479.98
General Use Fund	5,169.29
Savings Account	25.00
Petty Cash Fund	<u>19.12</u>
Total	6,689.39
Repeater Fund	229.92

#### Old Business

Buddy Larson KC9UVJ : The ARC will be holding the run-walk-roll at Lakeside Park and he needs some volunteers to provide communications for a couple of hours 10 -12 am. Contact Buddy KC9UVJ at [kc9uvj@gmail.com](mailto:kc9uvj@gmail.com) .

Tom Powell KC9VXR questioned if the truck committee had any suggestions on a replacement of the truck. Joe Scheibinger K9VY said that they are waiting on the completion of the 501-c3.

#### New Business

Doug Schultz N9EZF reported that the next testing session will be on Oct 13, 2018 at MPTC, Room O104.

Doug Schultz N9EZF The club has received a letter concerning a cartoon that we published in our July newsletter, this was copyrighted and was published without permission. It has since been removed and Doug Schultz N9EZF will be contacting them.

The replacement Yaesu repeater has arrived and may be installed by the time the newsletter is published. So far it seems to be testing out ok .

Peter Fox KB9WZD gave thanks to all the volunteers at Race The Lak, although there was an accident with several injuries.

#### Adjournment

A motion was made to adjourn by Buddy Larson KC9UVJ . This was seconded by Jim Balthazor K9AIX The motion carried unanimously via a voice vote. 7:55 pm

The raffle # 554977 was won by Joe Scheibinger K9VY



# FOND DU LAC AMATEUR RADIO CLUB

## — FDL 73 —



VOLUME 19 ISSUE 10    [www.fdlhams.com](http://www.fdlhams.com) October, 2018

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

### 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](https://youtu.be/t3Ueh9IN5_U)

FARC - WWV Presentation [https://youtu.be/w3-DP9DEv\\_U](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](https://youtu.be/NnZ21O_6HvA)

FARC - NooElec [https://youtu.be/s\\_pxYkH4xds](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>

FARC - HAARP Presentation <https://youtu.be/cdeNXLMuyEE>

FARC - The DZKit Ham Radio Kits [https://youtu.be/giZcfQW\\_tpA](https://youtu.be/giZcfQW_tpA)

FARC - The DZKit Ham Radio Kits [https://youtu.be/giZcfQW\\_tpA](https://youtu.be/giZcfQW_tpA)

FARC - The Christmas Island DXpedition with Bill Kendall (4/9/18) <https://youtu.be/XgjYL0vAhlw>

FARC - Restoring Old Antique and Classic Radios (5/17/19) <https://youtu.be/3l352v4gYdw>

#### Newsletter Back Issues

When I took over as the newsletter editor I simply continued the volume numbering that existed then. Unfortunately, I don't have copies of those old newsletters. I would appreciate it if you have any newsletters earlier than October, 2014 you would send them to me. Electronic copies are ideal but I would also be pleased to accept hard copy. I'll scan them and return the originals to you.

Many Thanks, Dick Finn KC9ZVW





# FOND DU LAC AMATEUR RADIO CLUB

## — FDL 73 —

VOLUME 19 ISSUE 10    [www.fdlhams.com](http://www.fdlhams.com) October, 2018



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

### NOTICES/ANNOUNCEMENTS

#### HAM Testing Session

The Volunteer Examiners of the Fond du Lac club will be holding Amateur License exams on Saturday, October 13, 2018 from 9:00 AM until Noon in Room O-104 at Moraine Park Technical College in Fond du Lac. If you have questions or want to reserve a spot please contact Doug Schultz at 920-922-3088 or via email at [schultz74@charter.net](mailto:schultz74@charter.net).



There's still plenty of time to crack the books and prepare to upgrade your ticket.



#### 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)



**FOND DU LAC AMATEUR RADIO CLUB**

# — FDL 73 —



**VOLUME 19 ISSUE 10    [www.fdlhams.com](http://www.fdlhams.com) October, 2018**

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

## Free, For Sale or Wanted

### Upcoming HAMFESTS and Conventions From ARRL

#### 10/13/2018 | Wisconsin ARES/RACES Conference

**Location:** Wisconsin Rapids, WI

**Type:** ARRL Convention

**Sponsor:** WeComm, Ltd.

**Website:** <http://wi-aresraces.org>

[Learn More](#)

#### 11/03/2018 | MRC91 Milwaukee Repeater Club

**Location:** Milwaukee, WI

**Type:** ARRL Hamfest

**Sponsor:** Milwaukee Repeater Club

**Website:** <http://mrc91.org>

[Learn More](#)

#### 11/04/2018 | FCARC Swapfest

**Location:** Appleton, WI

**Type:** ARRL Hamfest

**Sponsor:** Fox Cities Amateur Radio Club

**Website:** <http://www.fcarc.club/hamfest.php>

[Learn More](#)

#### 01/05/2019 | 47th Annual Midwinter Swapfest

**Location:** Waukesha, WI

**Type:** ARRL Hamfest

**Sponsor:** West Allis Radio Amateur Club

**Website:** <http://warac.org>

[Learn More](#)

## Hamfests





# FOND DU LAC AMATEUR RADIO CLUB

## — FDL 73 —



VOLUME 19 ISSUE 10 [www.fdlhams.com](http://www.fdlhams.com) October, 2018

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

### 2018 CALENDAR

**Jan. 8, 2018**

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

**Feb. 12, 2018**

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

**Feb. 10, 2018**

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



**Mar. 11 & 12, 2018**

Wisconsin QSO Party



**Mar. 12, 2018**

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

**Apr. 9, 2018**

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

**Apr. 14, 2018**

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



**May 14, 2018**

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

**May 18—20, 2018**

Dayton HAMFEST



**June 1—2, 2018**

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 11, 2018**

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



**June 8—10, 2018**

Walleye Weekend. Contact Joe Scheibinger K8VY

**June 23 & 24, 2018**

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



**July 9, 2018**

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

**July 22, 2018**

RMC Triathlon



**Aug. 13, 2018**

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

**Aug. 26, 2018**

Race the Lake



**August 24-25, 2018**

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. 10, 2018**

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

**Sept. 21—23, 2018**

Fox Cities Marathon



**Oct. 8, 2018**

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

**Oct. 13, 2018**

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



**Nov., 12 2018**

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

**Dec. 1, 2017**

FdL Parade of Lights, 4:00, Downtown



**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:  
Lind's Contact

Jim and  
Buddy Larson KC9UVJ

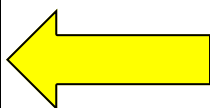






First	Last	Call Sign	Dues
Annika	Kreis		
Barbara	Simon	W9MER	
Blend	Bowen	KC9VXV	
Brad	Freund	KC9QYP	
Brian	Turkiewicz	KC9LFR	
Buddy	Larson	KC9UVJ	
Chuck	Mahnke	K9HXL	
Cully	Kowal	KS0D	
Danny	Vandekolk	KC9IGD	
Dave	Witt	WD9W	
David	McCumber	N9WQ	
David	Zittlow	K9DUI	
Dawn	Krause	KD9CAW	
Dean	Choate	KC9TGM	
Debra	Florian		
Dennis	Paulin	KB9OFM	
Derek	Giese	KD9IAN	
Dick	Finn	KC9ZVW	
Don	Chapman	KC9KZQ	
Donna	Blend	KC9TFN	
Dot	Olig *	K9FDL	
Doug	Murray	KC9ZVT	
Doug	Wagner	KC0RNS	
Doug	Schultz	N9EZF	
Ed	Beltz	N9PJQ	
Ed	Sipple	W9VYO	
Ed	Steinfeld	KB1ZJK	
Edward	Frac	AA9WW	
Fernando	Salazar	KC9ZVX	
Gene	Olig *	KD9ZP	
Gene	Peterson	KD9IAG	
Gerry	Radtke	WA9GON	
Gregory	Schmude	KD9EHB	
Isaac	Lundberg	KD9FPG	
Jack	Heil	KG9IN	
James	Scovronski	N9WAM	
Jim	Balthazor	K9AIX	
Jim	Cole	N9WAP	
Joe	Lauber	KC9MDY	
Joe	Scheibinger	K9VY	
Joyce	Keyes	KC9KIJ	
Justin	Buell	KB9YET	
Kirk	Everson	KC9FZE	
Kyle	Ruesch	AB9AX	
Larry	Lamont	KB9POP	
Larry	Mielke	KC9RUE	
Laura	Yates		
Laurie	Winchell	KC9YQS	
Lloyd	Vandervoort	N9RPU	
Lorelei	Kreis		
Louis	Simon	KB9VQM	
Marjean	Buck	KC9LFI	
Marjorie	Heil	KC9BEN	
Mark	Forss	WD9CYM	
Mathew	Yates	KD9CSD	
Matt	Nett	KD9BBN	
Matthew	Zimmerman	KD9KTY	
Michelle	Lawrence	N9RQL	
Mike	Keyes	KE7ES	
Mike	Lawrence	N9UA	
Nancy	Myers	K9ANA	
Neal	Buck	KC9LFN	

## FDL ARC ROOSTER



Name Sort



Call Sort



Paul	Bleuel	KC9NAA		Doug	Schultz	N9EZF
Paul	Tvrđy	N9KLK		Paul	Tvrđy	N9KLK
Peter	Fox	KB9WZD		Ed	Beltz	N9PJQ
Randy	Nelson	KC9MYG		Lloyd	Vandervoort	N9RPU
Ray	Grenier	K9KHW		Michelle	Lawrence	N9RQL
Reinholt	Aschmotat	N8VDH		Mike	Lawrence	N9UA
Richard	Jarzynka	KD9EMX		James	Scovronski	N9WAM
Rick	Robinson	N19Z		Jim	Cole	N9WAP
Ron	Keller	KC9YVL		David	McCumber	N9WQ
Scott	Kreis			Rick	Robinson	N19Z
Stan	Cram	A10M		Timothy	Braun	W9AAV
Steve	Smith	W9GPI		Steve	Smith	W9GPI
Ted	Gustavus	KD9IAH		Ted	Neuburg	W9LUQ
Ted	Neuburg	W9LUQ		Barbara	Simon	W9MER
Ted	Willett	W9NHE		Ted	Willett	W9NHE
Timothy	Braun	W9AAV		Ed	Sipple	W9VYO
Todd	Beay	AC9EX		Gerry	Radtke	WA9GON
Tom	Karrmann	KC9VZY		Mark	Forss	WD9CYM
Tom	Murray	N0HOR		Dave	Witt	WD9W
Tom	Powell	KC9VXR		Annika	Kreis	
Tony	Pass	KC9QYR		Debra	Florian	
Walter	Rueger	KC9WQ		Laura	Yates	
Walter	Drees	KD9JAD		Lorelei	Kreis	
				Scott	Kreis	

Edward	Frac	AA9WW
Kyle	Ruesch	AB9AX
Todd	Beay	AC9EX
Stan	Cram	A10M
Jim	Balthazor	K9AIX
Nancy	Myers	K9ANA
David	Zittlow	K9DUI
Dot	Olig *	K9FDL
Chuck	Mahnke	K9HXL
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
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
Blend	Bowen	KC9VXV
Tom	Karrmann	KC9VZY
Walter	Rueger	KC9WQ
Laurie	Winchell	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
Richard	Jarzynka	KD9EMX
Isaac	Lundberg	KD9FPG
Gene	Peterson	KD9IAG
Ted	Gustavus	KD9IAH
Derek	Giese	KD9IAN
Walter	Drees	KD9JAD
Matthew	Zimmerman	KD9KTY
Gene	Olig *	KD9ZP
Mike	Keyes	KE7ES
Jack	Heil	KG9IN
Cully	Kowal	KS0D
Tom	Murray	N0HOR
Reinholt	Aschmotat	N8VDH
Doug	Schultz	N9EZF