

Official Publication of the West Allis Radio Amateur Club

mtrix

Volume 70, Issue 4 April, 2021

APRIL CLUB HAPPENINGS

Virtual Club Meeting **April 13, 2021 7pm**

Using Zoom

Program Wisconsin QSO Party

Chuck Dellis, W9WLX

Squalo Quest!

Mike Johnson WO9B

Zoom Meeting

Meeting ID: 647 484 5588 - Password: warac

NUT NET

3.985mhz Monday-Saturday 8:15am CT

NUT NET

Breakfast 8:30am fourth Tuesday of the month

Milwaukee-Florida Net

Every Day on 14.290 Mhz 7:00AM - 9:15AM ET 6:00AM - 8:00AM CT

Sunshine Committee

If you know of a member who could use a bit of cheer or support,

Barb Garnier (KD9HPS) is now the Sunshine Committee Chair. Contact her: 414-529-3536 or barbsewsblue@gmail.com.

https://zoom.us/j/6474845588?pwd=WjRRQ3E5bHVlbDY5aGNhazN wZlh0dz09

Zoom phone in info on page 15

Virtual Board meeting April 23, 2021 7:00pm

Same Zoom info as club meeting

WARAC 2-meter net

Every Wednesday at 8pm SEWFARS W9TJK Repeater 146.820 standard (-) offset 127.3 Hz CTCSS if repeater down try 146.55 simplex

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		Club renew membership/	
		CW practice	
		ZOOM meeting phone #	
Hamtrix Sale Corner			

If you want to be included in the West Allis Radio Amateur Club Membership Book (PDF copy)send in your dues by the end of April (See page 12)

The President's Shack

Wisconsin seems to be giving us a preview of spring and summer. Nice to be able to go out in a shirt.

I set up my picnic table station using Mike's sparkplug transformer ant. It is a end fed wire antenna. Small and compact. Used on 40 meters, 20 meters and 15 meters. No tuner is needed just plug and play,

I can't say anyone answered my CW CQ's but it is getting faster to set up. So I can go out and enjoy the outside while I play Ham radio. The radio I have been using is my old trusty Yaesu FT-817. It comes with a built in battery and keyer so I take my key out. Makes a small amount of gear to set up.

The other Ham radio related thing I did was volunteer to be a Net controller for the morning Nut Net. Not a big thing since I'm usually on every morning. I have been using my FT-817 on the net for years with good results. Me and others are sometimes surprised what 5 watts can do even on SSB. I now have my Yaesu FT-891 which allows more power so I can be heard more often.

Ham radio seems to have an endless supply of challenges if that is what your looking for. One fun thing I tried last year was a floating wire antenna. I only got to try it once. Mechanically it still needs some work I will have to see what happens. It might be something to use with the sparkplug transformer. It would remove the tuner from the equation. When you are sitting in a little row boat the simpler you can make it the better!

The submarines I was on had floating antennas for receiving. Salt water probably prevented transmitting through them, besides the fact we didn't transmit much because it gave away our location. Trouble was the huge 7 bladed wire cutter we used for propulsion worked really good at cutting the antennas. I think they have made headway on getting them to work better!

Frank KA9FZR



My morning nut net breakfast shack HI HI

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WARAC Club Meeting Minutes

March 9, 2021

Due to the nature of the COVID-19 crisis and Governor Tony Evers "<u>Emergency Order #12 Safer At Home Order</u>", Chuck W9WLX hosted the Zoom Meeting.

The club meeting was called to order 7:00 pm by Frank KA9FZR.

Approximately 18 virtual club members were identified by the Secretary Dave WB9OWN. There was one visitor, Chris W9CPU.

<u>Club Presentation:</u> "Wisconsin QSO Party" by Chuck Dellis W9WLX.

- 60 year anniversary of this contest.
- March 14th, Sunday 1-8PM CDT. This is an easy 7 hour one day contest.
- Note, this weekend begins Daylight Savings Time.
- 446 logs received last year.
- Phil Gural is going to be W9FK club station bonus contact, look for him.
- Mike Johnson has given six WI QSO Party presentations to local HR clubs.
- See you there, 73's Chuck W9WLX

General Discussion:

- Frank KA9FZR and Mike WO9B have been practicing CW between themselves at night and have announced "Come join us" on Monday Night at 8pm, 21.060 Mhz, meeting first on 147.135 Mhz, 127.3 PL.
- HRO is now open for a limited number of in store customers per Howard WA9AQL.
- Club has lots of electronic material to sell Call Steve NO9B.
- Club Field Day is still up in the air. What do you want to do?

February minutes were approved.

General meeting was adjourned about 7:57 pm.

Respectfully Submitted,
David Garnier WB9OWN
Secretary WARAC, March 9, 2021

West Allis Radio Amateur Club – Sign In Sheet General Meeting Zoom Call Listing

9Feb2021

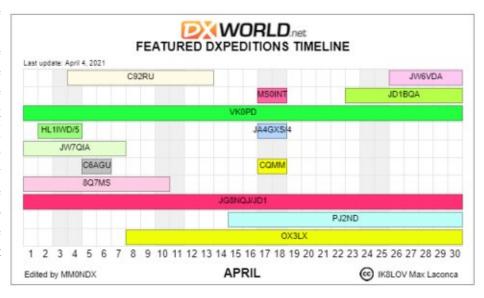
Name	Call	Member	
1Frank Humpal		KA9FZR	Yes
2Bill Dargis		KD9BJZ	Yes
3Chuck Dellis		W9WLX	Yes
4Steve Dryja		NO9B	Yes
5George Dunco		AA9SR	Yes
6Mike Falk		AA9RK	Yes
7David Garnier		WB9OWN	Yes
8Phil Gural		W9NAW	Yes
9Al Hovey		WA9BZW	Yes
10Mike Johnson		WO9B	Yes
11Tom Macon		K9BTQ	Yes
12Herb Phelps		KC9SND	Yes
13Bill Reed		N9KPH	Yes
14Howard Smith		WA9AXQ	Yes
15Paul Sperbeck		W9PCS	Yes
16Lee Todd		K9HCW	Yes
17Phil Tollefson		WA9AQL	Yes
18Ewin Von de Ehe		WI9EV	Yes

19CHRIS PASBRIG W9CPU Visitor • —• —••

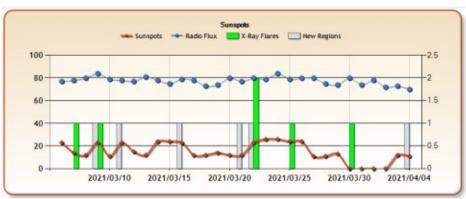
DXing and Contesting - April 2021

DX UPDATE:

You can check the out month. announced ops this Bands improving means these ops will likely pop up for those in the chase. FTx modes will be your friend. News this week the competing 3Y0I from (Rebel) and 3Y0J (Intrepid) Bouvet groups. As the window for Bouvet is January, we have many months of speculation to mill around. Or as the old joke goes, "Which came first, Bouvet or the K4?"



Propagation: Sunspots have not been particularly exciting of late. We seem to be in the SFI holding pattern of 70 +/-. Predictions are for this to continue, however, more activity with solar wind and auroral conditions will provide excitement. Wheels are in motion, things are happening.



CONTEST UPDATE:

It is State QSO Party time. April events are every weekend. These are very nice low key events. Heads up for the surprise QSO Party of the Season: NORTH DAKOTA. That's right, seems a caravan of MN Wireless ops are headed to NoDAK for this weekend's party. They promise to LIGHT IT UP!!. Good for them.

- Neb, New Mex, North Dak, Georgia QSO Parties: April 10 & 11th
- Michigan QSO Party: April 17th
- Ontario QSO Party: April 17th
- Florida QSO Party: April 24th & 25th
- 7th Call, Indiana, Delaware, New England QSO Parties: May 1 & 2
- Arkansas QSO Party: May 8th

For those looking for low key CW contests, the season of summer QRP contests is starting this month. These are contests in name only. They really are operating events that normally have some kind of get out of the house and play QRP radio theme. Some one sponsors them at least once a month. First up...

• QRP to the Field: April 24th



* By Michael Johnson, WO9B

Carpe Talkgroups: How to drop a Talkgroup like a Pro

DMR is all about Talkgroups (TG). What follows is aimed at the very popular BrandMeister (BM) network using a simplex hotspot. Dropping TG's with either a duplex hotspot or on a repeater is just a matter of changing channels. Not so with a simplex hotspot and it can be a real problem if your hotspot is locked onto a run-on TG and you want out. If you've visited Worldwide English TG 91, you may have found your stay much longer than you expected. That's what I'm talking about.

The good news is you have options to terminate that TG:.



Option 1: You can drop a TG by dialing up TG 4000 and hitting PTT. This works best if you have TG 4000 already programmed in your active zone. The other problem is you need to find a long enough pause in the offending TG to issue the TG 4000 PTT. Secondly, the command will not drop a static TG, only dynamic TG's. TG 4000 is always my first try. It works most of the time for me, but not always. As mentioned, it requires a long enough break/pause between the users and that does not always happen.

Option 2: This option works all the time, but requires access to your Pi-Star Dashboard. I'm showing the MMDVM version, but if your hotspot is something different (DVMega, OpenSpot) they will have similar functionality. Simple solution: Bring up your Pi-Star Admin Panel and Drop the QSO, Dynamic or Static Talkgroup

If this panel does not appear on your Pi-Star Admin panel, then you will need to install the BM API Keys. It is very easy. Follow these directions: https://amateurradionotes.com/bmapi.htm

Option 3: All else failing, go directly to **BM** Selfcare Under Hotspots you will find the following control panel. This is the master control and will, without fail, terminate with prejudice the offending TG.



Next Month: Carpe Talkgroup: Controlling your talkgroups

The DEKALB Hamfest



Sponsored by the Kishwaukee Amateur Radio Club Sunday....May 2, 2021....8 AM to 1 PM

Vendor Set-up—Saturday 1 PM to 9 PM and Sunday at 6 AM \$8.00 Advance Ticket (Double-Stubs—See Below) \$10.00 Admission at the gate (Single Stub)

Overnight Camping on Fairgrounds \$10 includes Electrical and Water

Rain or Shine
3 Large Buildings
CASH Prizes

TAILGATING
Free Outside
No VE Testing

Food Provided Fairground regulations prohibit Vehicles in buildings

Prize Drawings Every Half

Chairs Not Furnished

Hour Masks and Social Distancing Required.



Always the First Sunday in May. May 2, 2021 Sandwich Fairgrounds, Sandwich, IL

(Just North of RT. 34 Intersection of SUYDAM and GLETTY Roads)
TALK-IN: KARC Repeater 146.730 p = 100 (-) or 146.52 Simplex

**** PLEASE USE MAIN GATE ****
??????????? Questions ??????????

Phone: Bob Yurs—W9ICU—Hamfest Chairman at 815-757-3219

Or e-mail w9 icu@arrl.net

KARC Hamfest Webpage / Hotel Info: www.karc-club.org

Return to: KARC, POBox 371, Del	
Deadline: April 20, 2021 MUST INCLUDE SASE FOR	ADVANCE TICKET SALES
ADVANCE TICKETS @ \$8 each (Dual	Stubs)
INSIDE TABLES @ \$10 each (FREE TA	
TotalPlease make checks payable to K.	ARC
Telep hone Numb er	e-mail address
Call Sign	

Hamtrix Sales Corner

Microcontroller Projects for Amateur Radio

All the information you need to build fascinating projects using the Arduino, STM32 ("Blue Pill"), ESP32, and Teensy 4.0 micro-controllers.

Unfamiliar with C or C++ programming? No problem. Microcontroller Projects for Amateur Radio provides all the introduction you need to build projects such as a programmable power supply, a signal generator, a DSP mic processor, and more!

Some of the practical hands-on projects featured:

- The Morse Code Tutor learn and practice sending and receiving methods, with or without Farnworth encoding.
- •The CW Messenger allows you to send up to 50 "canned" CW messages, that are completely changeable in the field without a PC.
- •The Mini Dummy Load is small enough to fit in a shirt pocket, can handle up to 30W, includes an OLED display that shows RF power, yet can be built for around \$20!
- •The Double-Double Magnetic Loop antenna sets a new standard for small (3' diameter), multi-band operation and includes remote tuning.

Special Member Price! Only \$34.95 (regular \$39.95)

One Copy New Price \$25.00 Donated to club by Howard WA9AXQ

Call or email Frank KA9FZR KA9FZR@gmail.com 414-425-0794



Product Details

Softcover: 400 pages

The club has some items for sale, as for those with unknown condition, come over and plug them in. :-)

As I get time I go out to the garage and plug stuff in with basic testing.

The following prices are for club members:

Tektronics 7704a Oscilloscope working \$100

Tektronics 7603 Oscilloscope working \$100

Tektronics 5113 Oscilloscope working \$75

Tektronics D40 Oscilloscope working \$50 (qty3)

Icom 1.2ghz mobile radio unknown condition \$25

450mhz liner amplifiers 100watts unknown condition \$40 (qty2)

Kepco 20amp power supply, one working other unknown \$50

Kepco 2amp power supplies unknown condition \$25 (qty 3)

Many antenna books \$5 ea.

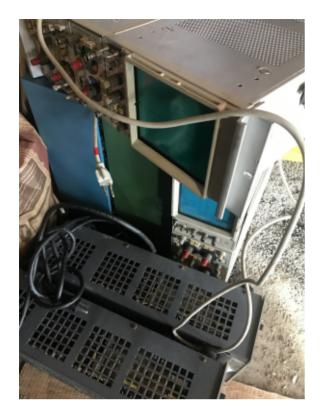
Many Tektronics manuals \$5 ea unless its a service manual then it's \$10

20 pin IC sockets \$1 per tube

40 pin IC sockets \$1 per tube

Various lengths of hard line.

If you come over and buy stuff the more you buy the better the prices get ;-)



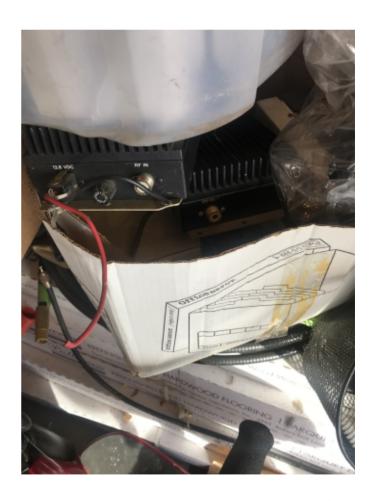
Tektronics 5113 Oscilloscope working \$75



Tektronics 7704a Oscilloscope working \$100



Kepco 20amp power supply, one working other unknown \$50



450mhz liner amplifiers 100watts unknown condition \$40 (qty2)



Tektronics 7603 Oscilloscope working \$100



New Ham Radio Onboard The ISS Is On The Air Posted on September 15, 2020 by K0LWC

Nice as it would be we do not have one for sale.

STARVED ROCK RADIO CLUB

AMERICAN RADIO RELAY LEAGUE SANCTIONED HAMFEST 2021





HAM RADIO, RC MODEL S, COMPUTER & ALL HOBBIES FLEA MARKET

AMATEUR RADIO HOBBYIST & COLLECTORS SHOW

SUNDAY, JUNE 6th 2021 8:00am to 3:00pm



MENDOTA TRI-COUNTY FAIRGROUNDS <a><- NEW LOCATION
503 1st Ave, Mendota, IL 61342

ARRL VE TESTING 9:30am to 11:00am
GO-KIT JUD GING (Score sheet at w9mks org) 11:00am
GRAND PRIZE CASH DRAWING at 2:00pm

TICKETS \$7.00 AD VANCED (2 Stubs) or \$8.00 AT GATE (1 Stub)
ALL AD VANCED ORDERS MUST BE RECEIVED BY MAY 27th 2021
GRAND PRIZE WINNERS NEED NOT BE PRESENT TO WIN.

- ✓ LARGE INDOOR EXHIBIT BUILDINGS
- ✓ TABLES \$13.00 ADVANCED OR AT THE GATE WITH FREE ELECTRICITY
- ✓ FREE OUTDOOR FLEA MARKET-TAIL GATING AREA
- ✓ ONSITE CAMPING-ELECTRICITY AVAILABLE FEE BY FAIR BOARD
- ✓ HOUTLY DOOR PRIZE DRAWINGS

FOR ADVANCED TICKETAND TABLE SALES OR GENERAL INQUIRIES: SEND A SASE TO SRRC C/O Hamfest Chairman, PO Box 198, Leonore, IL 61332-0198

E-mail: starvedrockhamfest@gmail.com or see our internet site for latest info www.w9mks.org

B9 to Exit 72 US Rte 34, West to 1" Ave, South(Left) to Fairgrounds on Left.

GPS: N41 5 45580 deg. W089 108484 (N41 deg. 32.735min (44.08sec) W089 deg. 6 509Min (3.054sec))

TALK-IN by SRRC Repeater W9MKS 147 120 +103.5PL Simplex 146.520 BREAKFAST and LUNCH ON-SITE BY CATERER

To keep Ticket prices down, D O NOT dispose of unwanted equipment on the fairgrounds.

If it doesn't sell or you can't give it away. Take it Home!

MAIL WITH PAYMENT & SASE ENCI	OSED T	0:			
SRRC C/O Hamfest Chairman		Make checks payable to SRRC			
PO Box 198					
Leonore, IL 61332-0198					
Name:			QTY ITEM	EA CH	EXTENDED
Address:			Advance Ticket	\$ 7.00	\$
City: St	ate:	ZIP:	Indo or Table	\$13.00	\$
Phone:				Total	\$

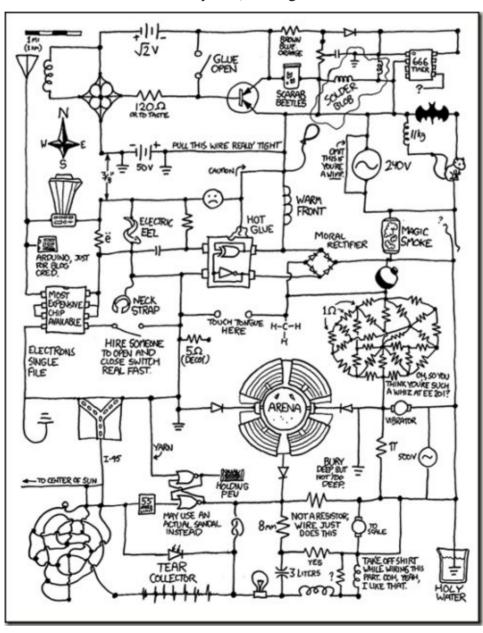
Frome https://w5wx.net/ham-humor/

"The theory of electricity by Joseph Lucas"

Positive ground depends on proper circuit functioning, which is the transmission of negative ions by retention of the visible spectral manifestation known as "smoke". Smoke is the thing that makes electrical circuits work. We know this to be true because every time one lets the smoke out of an electrical circuit, it stops working. This can be verified repeatedly through empirical testing.

For example, if one places a copper bar across the terminals of a battery, prodigious quantities of smoke are liberated and the battery shortly ceases to function. In addition, if one observes smoke escaping from an electrical component such as a Lucas voltage regulator, it will also be observed that the component no longer functions. The logic is elementary and inescapable!

The function of the wiring harness is to conduct the smoke from one device to another. When the wiring springs a leak and lets all the smoke out of the system, nothing works afterward."



If you want to be included in the West Allis Radio Amateur Club Membership Book (PDF copy)send in your dues by the end of April

WARAC Members:

The club's new fiscal year began November 1st, which means that dues for the 2020 to 2021 year are payable now.

Since we are not holding physical meetings due to the COVID 19 virus, we are asking that you handle your membership in one of the following ways:

Life Members

· Please mail the club (PO Box 511381, New Berlin, WI 53151) a completed application so that we can update our membership records.

Other Members

- The preferred method of payment would be via PayPal using the "Friends and Family" option. By using this option, the club does not incur the usual PayPal transfer fee. Use this address: waracpp@warac.org.
- Mail a check payable to WARAC at PO Box 511381, New Berlin, WI 53151.
- · If you prefer, you can mail a cash payment to this address as well. A receipt will be emailed to you at your address of record
- Whichever option you choose, we would appreciate having a completed application mailed to us so that we can ensure that our membership records are up to date.

And please, please, please try to take care of your dues payment by the end of December. We will be publishing a new electronic membership directory early next year, and if we haven't received your dues by this date, your name will not be included in the directory.

Thanks in advance for your help!



West Allis Radio Amateur Club, Inc. MEMBERSHIP APPLICATION

Name	Çell	Hendle		
Address				
City	Stein	Zhp		
Phone	Emell Address			
Spouse's Name	Wedding Ann.	Birthday		
License Class	Expiration	Lileansed Since		
Membership in ARRL	Armet Off	•		
Operational Station	Mobile Bends:			
Would You Be Willing To Serve	On A Committee?	As An Officer?		
Club Activities You Would Like To Perficipate in Field Day				
Class Of Membership: Full Associate New Renewal				
Dues Paid: Full \$150	Dues Pald: Full \$15.00 Associate \$10.00			
Femily \$18.90 Student \$10.90				
Refired \$10.00				
I hereby apply for membership in the West Allie Radio Amateur Club, inc. in the membership class indicated above. I agree to abide by the Constitution and By-Laws of the club and any rules or conditions that may be set forth in accordance with the Constitution and By-Laws.				
Applicant		Dele		
Secretary		Dele		
Тперштег		Dete		
	Accepted for Membership	Dele		

Meetings on the 2nd Tuesday of the month at: New Berlin Community Center 14759 W Cleveland Avenue

Bring your completed application to a club meeting or mail with dues payment to this address: West Allie Radio Ameteur Club, Inc.

P. C. Box 511361 New Barlin, WI 53151-1361

CW Practice

One of the best and maybe the only way to get better at CW is practice. Having someone else who also wants to practice also helps. Just makes it more fun.

The West Allis Radio Club is going to try to help. We are running a CW practice net on Monday at 8pm The repeater is 147.135+ 141.35 the CW portion is on HF 28.060 MHZ

Mike WO9B has been joining me and setting up some practice but we are open for suggestions on where to go with this. Come join us.

Heathkit: An Employee's Look Back

Lessons of a successful electronic business—an interview with Chas Gilmore, former Heath executive. Lou Frenzel

https://www.electronicdesign.com/communiqu/article/21148923/electronic-design-heathkit-anemployees-look-back

Interesting vidios

https://www.youtube.com/watch?v=74 N163HyhA

https://www.youtube.com/watch?v=uh88Y2_33GI

----Zoom Telephone info----

Dial by your location

+1 646 558 8656 US (New York)

+1 669 900 9128 US (San Jose)

+1 253 215 8782 US (Tacoma)

+1 301 715 8592 US (Germantown)

+1 312 626 6799 US (Chicago)

+1 346 248 7799 US (Houston)

Meeting ID: 647 484 5588

Passcode: 434973 • --• --•

Officers and Board

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Frank Humpal KA9FZR

Vice President

Steve Dryja, NO9B

Secretary

Dave Garnier WB9OWN

Treasurer

Bill Reed N9KPH

Directors

Tom Macon K9BTQ

Phil Tollefson, WA9AQL

Newsletter Editor

Frank Humpal, KA9FZR fhump@milwpc.com

Webmaster past president

Mike Johnson WO9B

West Allis Radio Amateur Club P. O. box 511381 New Berlin, WI 53151-1381

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