

The Ozaukee Radio Club Newsletter is published six times yearly and USUALLY mailed five days prior to clubmeeting dates in January, March, May, July, September and November. Articles and items for publication can be mailed to W9BCK c/o RCA - Suite 403 - 101 Falls Road, Grafton, WI 53024. Questions or comments regarding the club or any of its activities may be directed to Barry Anderson, WB9SFK, President, W55 N838 Cedar Ridge Drive, Cedarburg, WI 53021, or Phone 375-0590.

CLUB MEETING DATES

OCTOBER 8, NOVEMBER 12, DECEMBER 10, 1980.
Meeting Time is 7 pm for Reapeater Group and 7:30 pm for Regular Members.
Meeting place is in Port Washington in the Court House Annex. Turn North on Milwaukee Street off Highway 33 (two blocks West of Smith Brothers restaurant) Turn right into Alley Way behind the Jail, pass the first parking lot and park in the second lot south of the Court House and enter the Annex at the lighted doorway.

PROPOSED BYLAWS CHANGE

IT HAS BEEN MOTIONED AND APPROVED AT A REGULAR CLUB MEETING TO INCREASE THE REAPEATER ONLY MEMBERSHIP DUES TO \$10.00 per year. THE FINAL VOTE WILL BE TAKEN AT THE NOVEMBER 12 MEETING.

ACTIVITIES NICHE

FIELD DAY results were down from previous years with most Clubs contacted reporting lower scores too. Standings, however, should be relatively equal to past Club performances.

FOX HUNT participation was a little on the light side with only Hunters to show up WB9PAS Russ, and Terry, WA9AWO looking for WD9JHP Freddie and Lorraine KA9HJR Hiding the transmitter in Barry's, WB9SFK (and Lorraine's) New Mobile Home.

TUESDAY 2M 8 PM NET

KA9DDN has been doing net control duties and has been asking for others to step up and share in the Net Controlling experience. Net activity has been very good with many varied subjects covered by the several involved Repeater Group Members.

3940 Khz 1 PM OZAUKEE RADIO CLUB NET (SUNDAYS)

WB9SFK reports moderate to good participation in the Sunday Net. Newer club members may not realize that 3940 Khz has been used by the OZAUKEE RADIO Group since about 1957 and has been the means by which some of our more distant members keep in touch with their freinds in the club. So lets try to keep this thing going during the coming winter months.....

ACTIVITIES.....continued

WALK FOR MANKIND is scheduled to take place OCTOBER 4, beginning at 6:30 AM and going on til' 3 or 4 PM. Meet at the Theinesville A & W at 6:30 AM. Terry, WA9AWO will give routes and details as the program develops....keep in touch with him for updates.

SWEEPSTAKES

Rumor has it that a couple of the faithful are interested in operating multi-op for Sweepstakes and have been EYEING up WA9UDZ's , Rick, antenna farm. C'mon you CW guys, pull your act together and do something even if it's wrong !

CLUB STATION

A proposition has been made and a tower donated toward the establishment of a Club Station. A site is needed (maybe a School) along with active participation of members to ramrod this long lived dream into reality. Less talk and more action is needed to get this project off the ground.....

HOLLAND DAYS

Holland Days activity worked out real well in spite of wet weather. Holland Days Officials are most pleased with the continuing support of the OZAUKEE RADIO CLUB with special appreciation to those generous members who give most unselfishly of their time and equipment to make this a safe and sucessful event.

CHANNEL SIX TOUR

Plans are underway to arrange a club visit to WITI-TV, Channel Six studio facilities sometime this fall.....keep tuned in to Terry's freq for developing details.

CU all at the October Meeting
Terry...WA9AWO

REFLECTIONS & VIEWS

Since the last writing of this column, we have added a CW Identifier to the WR9AAE repeater. WA9UVK Herb, built the unit completely self contained in rack mounted package. A temporary timing card which counts 60 Hz to trigger the ID cycle every 8 minutes and 20 seconds around the clock was added and I have heard only appreciative comments about the work Herb did on the unit. Work on the "new logic" has been put on hold for a while while Dean K3GGN and I have devoted some time to family and household projects during the summer. We will pick up the project again soon. We can use help with circuit board layout, as this will be a major job. Any willing soul can contact KA9DDn or K3GGn for details.

The Lakshore Repeater Association, WR9AIY, 147.87/27 of Racine, Wisconsin has installed a new control system. Part of the package is a series of Speed-Dial Access Codes for various emergency agencies. The procedure for use is as follows:

Carrier Access the Repeater and Identify yourself...wait for the courtesy tone and enter:

- 301 Racine Police Department
- 302 Racine Sheriff and Water Safety Patrol
- 303 Kenosha Police Department
- 304 Kenosha Sheriff Department
- 305 Kenosha Coast Guard
- 52Disconnect Code

Just a reminder that the 37/97 Tuesday night informal net meets 8 PM (0100Z) and invites participation of all members and any non-members who might have a tid-bit or two of information they would like to pass on to their friends the net. The net provides a great forum for discussion of many things and provides a vehicle to offer ham equipment for sale or find a rare piece you may be looking for the shack.....Come on board

Best Regards es CUL....Skip, KA9DDN

THE W9LO PARADOX

To understand the Paradox of this story, you must know that W9LO is the Chief Engineer of WITI-TV, Channel 6.....Some time ago, Hal Johnson said he wanted to become a HAM. W9LO offered to help him and loaned him a Keyer to practice code, an HW-100 to listen to WIAW code practice sessions and finally gave him his NOVICE test.....So what call sign does that supreme ingrate Johnson come up with ??????...???? KA9ISN ! That's what !

Bob, W9LO

Well Bob, You can always take consolation in the idea that WISN, Ch.12 is the SECOND harmonic of Channel 6. W9BCK.....

A NOTE FROM NEVE.....KA9EXY

As Fall turns to Winter, Spring turns to Summer and Caterpillars to Butterflies, so must Novices turn into Generals. For me, that is what happened on the first of last Month. Since then I have enjoyed operating on the new frequencies. It comes to mind that I will be unable to act as Net Control for the Novice Net that I started a few months ago. When I went to work last June, I asked for someone to take over the Novice Net and my plea was promptly answered by Dick, KA9GBE. Dick has controlled the net since I left and says he would like to continue doing so. I want to wish him the very best of luck and ask all of the membership to visit with dick on 3725 Khz at 1:30 PM Sunday afternoons right after the 3940 Khz Net closes down. Good Luck Dick!.....Larry KA9EXY (soon to change)

UPGRADES..UPGRADES..UPGRADES

We have some HAMS who have upgraded and some that have recieved their new calls.....Sus, ex WB9BGJ is now ADVANCED CLASS KB9OC. Larry Hemsley has new TECHNICIAN CLASS N9BNS.....Greg upgraded to GENERAL CLASS N9BPL. Larry, (Nervous Neve) is awaiting a call sign change from KA9EXY after passing his GENERAL CLASS exams....Lorraine, KA9HJR. acheived TECNICIAN CLASS status and has decided to keep her call sign.

CONGRATS.....CONGRATS.....CONGRATS.....and good HAMMING to you all, Enjoy!
Freddie, WD9JHP

HAM SHOOTERS FORM GROUP.....Rifle,Pistol,Target,Clay Pigeon, Range,Wind, Sight & Shoot.
All key words in the lexicon of several OZRAD Club members. Any whose interest lies herein should contact WB9SFK,KA9DDN,N9APC,WA9AWO,WD9ISS, for get together details....BARRY

..... RALPHIE'S TELECOMPUTING CORNER

This month's program prints a table of wavelengths in various dielectrics given frequency. The program will continue to tabulate as long as a frequency is entered for the INPUT statement. If '0' is entered for the frequency, the table is terminated. This program is written in standard BASIC, and should run on all common home computers without change. This routine is useful for designing matching coax sections, impedance inverters, and antenna lengths. If used to calculate the length of a dipole antenna, the wavelength in air must be divided by two, and then multiplied by 0.95. If used to find the length of a vertical, the air wavelength must be divided by four and the result multiplied by .97.

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JPOKE 33,33
JLIST
9 HOME
10 PRINT "THIS PROGRAM CALCULATES WAVE
LENGTHS": PRINT "IN VARIOUS DIELECTRICS
GIVEN": PRINT "FREQUENCY IN MEGAHERTZ":
PRINT
11 PRINT "ENTER A '0' FOR FREQUENCY TO
STOP PROG": PRINT
20 PRINT "ENTER VELOCITY FACTOR FOR SPE
CIAL CABLE": INPUT "ENTER A '0' IF NOT R
EQUIRED " ; S
21 IF S = 0 THEN S$ = " AIR DI"
23 IF S < > 0 THEN S$ = " SPEC"
24 IF S = 0 THEN S = .95
25 PRINT
26 PRINT : PRINT "MHZ FREE SPACE POLY
FOAM " ; S$
27 PRINT "-----"
31 INPUT F
32 IF F = 0 THEN GOTO 60
33 L = (2 * 491.78552544) / F
34 PRINT F ; TAB( 6) ; INT (L * 1000) / 1
000 ; " " ; TAB( 15) ; INT (L * 660) / 1000 ;
" " ; TAB( 24) ; INT (L * 840) / 1000 ; " " ;
TAB( 33) ; INT (L * S * 1000) / 1000 ; " "
53 GOTO 31
60 INPUT "ENTER Y/N IF NEW TABLE DESIRE
D" ; G$
70 IF LEFT$(G$,1) = "Y" THEN GOTO 9
80 END
```

Happy Computing..... Ralph.....WA9UDZ

FROM ME TO YOU.....HERB, WA9UVK

Any member that has a need for the following items can call me WA9UVK Herb Roehner at 377-3307. These parts are FREE for the asking.

Zener diodes

500mW
 1N5222 2.4-2.5V
 " 29 4.3V
 " 32 5.6V
 " 35 6.8V
 " 36 7.5V
 " 39 9.1V
 " 45 15V

1W
 1N4731 4.3V
 " 32 4.7V
 " 33 5.1V
 " 34 5.6V
 " 35 6.2V
 " 36 6.8V
 " 37 7.5V
 " 38 8.2V
 " 39 9.1V
 " 42 12V
 " 43 13V
 " 44 15V
 " 45 16V
 " 46 18V
 " 50 27V
 " 59 62V

1N5363 30V 5W
 1N3000B 62V 10W
 1N1598 27V 3.5W

1 amp bridge rectifiers KBP-02
 1 " " " VM-65

NEON BULBS 2 types
 # 18 GA WIRE BLACK or GRAY
 27 Pair WESTERN ELECTRIC CABLE 24GA
 4 " Shielde cable in one jacket
 PULSE TRANSFORMER 1 to 1 ratio

2N1671 Unijunction Transistor

SCR

2N2322 1.6 amps @ 50V GE
 2N2323A 1.6 " @ 25V GE
 2N688 25 " @ 500V RCA
 40536 1.9 " @ 400V RCA
 22RC50 35 " @ 500V IR

TRANSISTORS

2N3566 NPN Fairchild
 2N3638A PNP "
 2N3053 NPN Motorola
 2N1711 NPN "
 2N4037 NPN RCA
 40250V1 NPN RCA Power Transistor

MC 1461G Pos Voltage Reg. 2.5 to 32V
 Motorola @ 500mills

LEDS

FLV-100 Point Contact Fairchild
 Diffused "

OPTICAL COUPLERS

6 Pin I.C. Type

REED RELAYS

Large Round Circuit Board Type SPST 3V
 Small " " " " SPST 6V
 Square " " " " SPST 6V
 16 pin 4 coils 4 spst CB RELAY 6V

RESISTORS

0.2 ohms 10% for Power Supply
 392 " 1% glass
 2.2K 1% "
 4.99K 1% "

CAPACITORS

16 pin DIP CERAMIC SPRAGUE 8 - 0.10PF
 # 936C10409SR

MISC. NEW AND USED let me know type

" DIODES

ITEMS for SALE by HERB ROHNER - WA9UVK

4 ACCU KEYER CIRCUIT BOARDS @ \$5.00
 MAGNECRAFT RELAY 250x59 DPDT 10A 12V @ 0.40
 " " 88x359 DPDT 10A 12V @ 0.40
 " " W102MPCX-50 3 n.o. 24V @ 1.50
 P & B " RS5D SPDT @ 0.15

Contact Herb at 377 3307.....

Wanted to Buy

Drake TR-4 or T4X
 Call Bob..W9L0 ...375 2692

ICOM IC-230 2 Meter System
 Contact Barry.. WB9SFK..375 0590

ITEMS FOR SALE

HQ 110A, 160 thru 6 Meters Ham band only
 Reciever, Dial calibrated for 2 Meter with
 external converter(converter not incl.)
 Factory built-in Q-Multiplier, 100 Khz
 Xtal Calibrator. S-Meter, Speaker, Manual
 Recently retubed....\$100.00
 Jingle Herb...WA9UVK @ 377 3307

LEED
 2) 2N3569
 (2) 2N697
 (2) 11V VOLTAGE
 SWITCHING
 BTS-721 (or 723)
 DELCO
 FAMILY 46
 -OR-
 DELCO BTS-430
 -OR-
 SOLITRON
 SBT-402

SUS' CORNER

With the summer just about over, DXing should pick up pretty quick. Lots of rare stations showed up with pile ups you wouldn't believe and I hope you were the ones that made it through. At this time a couple of rare ones should be on.....look for HKØAA from SERRANA BANKS.....LA5KC/3X should start up from GUINEA about 15 September, look for list operations from him.....ZD9 from TRISTAN DA CUNHA has been heard regularly on the bottom end of 20. A7XD from QATAR has been on all bands including RTTY.....also IRAQ,Y1BGD has been active. Look for PYØ2DX from FERNANDO DE NORONHA in early November.

Best time to work lots of DX will be in contests...EUROPEAN DX CONTEST September 13 & 14. A bigger one, the CQ WW on October 18 & 19.....last year we worked 90 countries on 10 only. I hope 10 Meters opens up by then. Since I got my new call KB90C, I find that the two letter suffix is a big help in pile-ups.....so get going and get your advanced or extra. I worked about 170 countries in 2½ months...so you see, you have a great experience coming in the world of DX.

Good Hunting...Good DXingSus, KB90C....

RARE BIRDS

We have a rare and talented Bird in our midst whose handle is Joe and whose call is W9WQ. Joe seems to have been published several times in past years in various technical HAM magazines and his latest contribution to the world of HAMDOM can be found in September QST on page 22. Joe has designed a 5/8 ths wavelength vertical antenna for 2 meter use which has a novel feed system that requires no exotic parts and which anyone can make. Although Joe's article in QST centers on 2 meter design characteristics, the principles he outlines and discusses can be used for any frequency vertical antenna system, space and support systems permitting. So read up on it and find Joe at a meeting or on the air and have a ball boning up on the W9WQ special....

Joe's former call was W2WQ and under that banner, performed extensive experiments on the VLF band at 160 thru 190 KILOHertz using solid state transmitters of his own design feeding capacity loaded 50 foot vertical antennas with 1 watt DC input to the solid state final. FCC limits antenna systems to 50' including feed lines and grounding systems. For this reason, these low power transmitters are usually attached directly onto the antenna at the base via the matching system.....interesting, no? Special designs for relatively simple receiving frequency converters also abound in Joe's bag of peculiar tricks.

The point of all this is that Joe would like to fire up again on 160 Khz Band and start burning it up with those ONE WATT powerhouses.....AND you don't even need a license to get involved.. Might be a very good way to get a prospective HAM interested in actually doing something on the air prior to getting a ticket.....just a 'thot'. Contact Joe if you like more information from this RARE BIRD called W9WQ.W9BCK.....

MORE FOR SALE

Dentron Linear Amplifier, 160 thru 10 Meters, 2000 watts PEP Model MLA-2500..\$575.00
Contact Barry, WB9SFK.....375 05090

TR-4CW Drake 80 thru 10 Meter, 300 Watt PEP, with Noise Limiter, External VFO Model RV4C.
AC4 Power supply and SpeakerCall W9EDS.....Bill...evenings @ 377-9156

N9APC extracted this from a Chicago FM Club Newsletter..it serves as a warning to all of us that the world is listening and taking notes of your Repeater transmissions.

"A year ago at Christmas, my home was robbed! While on the way to North Dakota for the Holidays, I was talking on our Repeater. My final remark went something like this, 'I'll see you guys in four days when I get back', and signed my call. When I got home, a window was broken and the house had been robbed. A few days later an employee friend said he heard my "vacation" message at Radio Shack on a scanner and knew I would be gone for four days. So too, apparently, did the burglar with a call-book who cleaned me out all because of my incautious remarks over the LOUDSPEAKER to the world, our friendly local repeater"

Keep those Card and Letters Coming es Thanks...W9BCK