

October, 1971

GCARC

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UR X-TALK STAFF

Editor: Doug Gehring, WA2NPD,
YL Page: (LES BELLES) Rose Ellen Bills, WA2FGS
DX Diary: Jack White, WN2MEM
"Ramblings" Ghose Writer
ARRL Bulletins: Harry McCormick, WA2SEA
Roving Reporter: Della Parker, W2AFZ
Typesetter: Sue Frambes
Printer: Bill Frambes, WB2FJE
Circulation: Bill Shaw, WB2PVI
Other Contributors All Welcome!

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OCT. CLUB MEETING--OCT. 6th - 8:00 P.M. - AT THE CLUBROOM

"WHITE ELEPHANT" SALE

"BIG" WHITE ELEPHANT SALE FEATURES OCT. MEETING

It's that time of year again gang!! Seems like only yesterday we had to subject ourselves to the taunts and barbs hurled our way by that notorious, shady, extortionate usurer plying singularly suspicious wares as only WB2WAK is capable! Notwithstanding his string of insidious lexiconic verbiage, we shall straightforward wend our way to the "rack" and exchange our hard-earned cash for the bargain basement goodies. Oh yes, don't forget to bring along any excess baggage from your own shack-rack and toss it to the Shylock hawker for quick (and dubious) cash inflow to the club coffers. See you on the 6th.

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TECHNICAL COMMITTEE BUSY

Della, W2AFZ, is indebted to Jack, WN2MEM, and Tom, WA2MFS, for repairing her 40 M Doublet. FB fellas, you couldn't have helped out a nicer gal.

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CODE CLASS TO BEGIN IN OCT.

As of this writing, the exact starting date is unknown; but, by club meeting night, Instructors Henry, WB2MSH, Howard, WA2OVQ, and Rick, WN2OLS, will, no doubt, announce all the particulars. The club is fortunate to have this triumverate back at the helm, for with a year's experience under their belts, our class this year should be better-than-ever! So, spread the word around to all your neighbors and CB friends (if such friends are possible) about our upcoming class. Be sure to tell them it's FREE!

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FRIENDSHIP NET

The monthly get-together of the West Side Radio Club of Toronto, Canada, and the Gloucester County Amateur Radio Club of Pitman, N. J., was held as scheduled on Sunday, Sept. 19th. Band conditions between Ontario and New Jersey were excellent on 40 meters with many of those participating running signals from S7 to S9 and over. VE3AR (Bill) and our own WB2FJE (Bill) shared net control duties and did a most admirable job of keeping us all sorted out. Able back-up, particularly on those using cw, was provided by WA2WGA (Frank) and WA2NPD (Doug). Altogether we had a total of 12 members from both clubs. On the Ontario end, we had some on fone and some on cw; Bill, VE3AR - Chris, VE3EQT - Dave, VE3BHZ - Bill, VE3BVD and, our end: Bill, WB2FJE - Tom, WA2MFS & John, WN2MEM - Frank, WA2WGA - Della, W2AFZ - Doug, WA2NPD - Harry, WA2SEA. Sure hope I haven't left anyone out!. Can't understand why Bill Frambes couldn't hear Della. You'll have to either tap that antenna pole a few feet deeper into the ground or go over to Della's and try to figure out what Tom and I did to her 40 meter dipole, hi! Harry, I think you must have been pulling my leg with that story about how your antenna was miserable on 40! Tom had to turn down his RF gain and you slammed Bill, VE3AR with S9+! Sure you weren't

on after-burner?....Thanks, fellows - a real nice turnout. Bill, VE3AR, promises to have more fone representation for the next week. The next Friendship net is scheduled for SUNDAY, OCTOBER 17TH AT 12:30 LOCAL TIME AT 7270 + or - 5 KC - CW AND/OR FONE. Hope to see some more of you on that didn't make it for Sept. 19!

Don't forget those little personal sketches, gang! These will help our good friends of the WSRC to know us better. They will be published in their West Side Signal and their's in our Crosstalk. Chris, VE3EQF, is coordinating this so do help me.

John, WN2MEM

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CLUB EMBLEMS (Car Sticker Type) READY

Thanks to W2AFZ and K3WIL, the plastic sticker emblems are ready and will be available to one and all at the Oct. 6th Meeting. Any member who did not receive an emblem upon joining the club (and can prove it) gets one FREE! The rest of you clods must cough up a quarter (or is it 50¢?).

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DX-100B ON AUCTION BLOCK

The club-owned DX-100 is to be auctioned-off at the Oct. 6th White Elephant Sale. This rig is in top working condition, 180 watts input on cw and AM phone. It will drive any kw linear with no problem. Starting price is \$25.00 (nothing lower accepted).

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WANTED

A new, used, or indifferent HQ 100 (Hammerlund) Receiver. See Della, W2AFZ -

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CONTEST NEWS

Certainly looks like WB2WAK has pulled-off another one! This time Paul has taken club honors in the recent N.J. QSO party, 1st place in Gloucester County, and 13th place in all of N.J.!! What more can we say. An excellent score turned in by a first rate ham. Nice going, Paul. Next club contest will be the Sweepstakes in November. See QST for details and mark your calendars. Logs will be available from either Co-chairmen, W2FBE or WB2JZX.

LATE FLASH!

Just learned that Van, W2KE, is now Van, W3JM! Certainly glad to see Van has picked-up most of his old 3JM call (guess he couldn't get them to drop-off the "W"). Listen for this new call on 3999KHz. Understand the new QTH will be completed sometime in October. Will expect an invite to the big housewarming party soon thereafter (Hi).

CLUB BUDGET COMMITTEE REPORT

Following is the 1972 forecast projected by the Club Budget Committee:

A. Total Income - \$311.00 (dues, white elephant sale, etc.)

B. Total Output:

X-Talk	-	\$210.00
FD	-	35.00
Contests	-	25.00
Photo Supplies	-	10.00
Coffee Fund	-	10.00
Misc.	-	<u>21.00</u>
Total		\$311.00

Expected balance at end of 1971 is about \$200.00. The Committee recommends that the Club Banquet (if held) and picnic be self-supporting. Based upon this forecast, an increase in dues is not recommended at this time.

WB2FJE, Chairman

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"LES BELLES" By Rose Ellen - WA2FGS

October 15 - 17 the Ontario Science Centre - VE3OSC is putting on an exhibit called MAN AND HIS WORLD. Objective is to communicate to the general public and to help and advise those interested, how to go about getting their license in Canada. Chairmen - VE3GJH-Cathy welcomes the opportunity to show amateur radio from the YL point of view.

Across the border in Canada there is a group of energetic YLs who organized The Ontario Trilliums or TOT's which is the first Canadian YL radio club. Club call letters are VE3TOT - very appropriate.

For publicity a TOT certificate was introduced. The certificate custodian is Marion-VE3CLP. To raise funds Eva-VE3EVA (first licensed YL in that area) painted a lovely oil landscape for a lucky draw. The club newsletter TOT-TOPICS was started in 1966 with Thelma-VE3CLT as editor. The present editor is Betty-VE3ASZ.

Although a provincial club, many YLs south of the border have joined or have been made honorary members, some of these are Rosemary-WA8OYO; Marion-W8UAP, and also Rosemary-WA8VXE.

Another Canadian YL group formed as a National group during the Canadian Centennial year of 1967 is known as CLARA or Canadian Ladies Amateur Radio Association. Its newsletter is called The Clarion. The editor is Jan-VE3BII.

The TOT's have an annual cw and fone contest called Trillium

"LES BELLES" (Cont.)

Weekend each November. This year it will be held November 6th (mark your calendar now). See QST for announcement and details.

In 1969 the TOT's hosted the annual Midwest YL Convention. The Convention was held in Canada that year and was the first YL Convention ever held in Canada.

An active interest of TOT's is helping sightless YL hams enjoy their hobby. To date there are nine handicapped members in this club.

Following a request at the Club picnic - CARROT CAKE can be made as follows:

- | | |
|-----------------------|----------------------|
| 1-1/2 cups salad oil | 1 tsp. baking powder |
| 4 eggs | 1 tsp. salt |
| 2 cups sugar | 1 tsp. baking soda |
| 2 cups grated carrots | 1 tsp. cinnamon |
| 3 cups flour | 1/2 cup chopped nuts |

Mix together the oil and eggs. Then add sugar and carrots. Mix the dry ingredients. Add dry ingredients to carrot mixture. Add nuts last. Bake at 350° in tube pan for 1-1/2 hours.

(Ed. Note: Pass this recipe along to the XYL guys--remember this was the same stuff she made for FD! It was delicious)

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SCUTTLEBUTT

1. Just finished excerpts from a RTTY letter from WA4BMC to WAPNS-- a real novel way to communicate, Bertha; see where she chatted with WB2WAK on 20 M (Paul didn't tell us, Hi). Bertha has 2156 couplings confirmed (all new calls) in her second go-around, wow! She is FM "bug" also, has 2 M FM antenna with 4-11 element in phase beams, vertical, up 79 feet (not bad for a start). She runs 75 watts out on 4 channels. Soon will be on 450 mc with a 20 element ant. up 85 feet! Still have the KWM-2 in the car. (No wonder Slim doesn't get time to operate, Hi).

2. WWV Information: They are all voice now:

- | | | |
|----|-----------------|--|
| 4 | after each hour | - Time correction in milliseconds |
| 14 | " " " | - Short time forecasts as N-7 |
| 16 | " " " | - N. Atlantic WX including storm coordinates |
| 18 | " " " | - Solar terrestrial alerts |

Correct time given (voice) every minute.
(Information courtesy of WA4BMC for which we say thank you).

3. Glad to hear W2SUA is coming along OK after his stay in the sawbones hotel. We trust Shorty won't have to spend any more time in that QTH for the duration (DX is poor on the X-ray band segment).
4. From the sound of WA2WGA's cw fist, I would say Frank has not lost a dit or dah since last having heard him on cw about 9 years ago (I sure have slowed down--could hardly keep up with him).
5. Tom, WA2MFS, putting in FB signal from atop his new 55' tower. Blasting into VE land (et al.) with a TA-32. Sounds good, Tom.
6. Saw a ghost from the past at last club meeting; WA2FFZ was on hand! Glad to hear you're located in the area (Bill is new engineer for Voice of Glassboro State College) and expect to see you more often at the meetings, Bill.
7. From ham radio, to golf, to tennis, and NOW (get this gang) its football! Yes team; Paul, WB2WAK, made the 115 lb. Oak Valley "Giants" and is slated to start this coming Sunday at left guard (he was out the past two weeks having sustained a bruised thumb). Unfortunately, the other teams complained because Paul was calling signals in cw which drew many offsides penalties. Hence, Paul has been demoted to team coach where he is (from all reports) doing a FB job.
8. Understand the Clearview School Board received a rather odd voucher this month for repair of a hole in the south wall of the High School. Reliable sources have received copies of a recent FAA report which confirms that an airplane of suspicious origin had been flying unauthorized flight paths in that general area. Fortunately, a piece of wing was recovered a short distance from the crash site (needless to say the plane is grounded) and the truth-is-out! The plane, a radio controlled model, bore an id label on the wing remnant which read: "Red Baron Ron," WA2EOB. Better luck with the "Harding Court #2," Ron, which is soon to be off the drawing board.
9. All systems go on the AREC nets gang, see you on Friday nites at 9:30 P.M., 28.8 (not 28.7) MHz, and on Sunday evenings, 8:00 P.M. at 50.9 MHz.
10. Don't forget to see WB2JZX at the club meeting and kick-in towards the worthy, charitable cause for which he was designated to head-up. John is chairman of the "Buy-a-patch-for-Jack Drive." (Things are ruff in the oil business these days--so don't knock it too hard--Hi!).
11. WA2VEE has impressive array of over 100 DX QSL's--all on 10 M. Get that DXCC Award, Bill. FB.

Cheers for this month,

de WA2NPD

P.S. Don't forget to renew your QST subscription through Club Treasurer Paul, WB2WAK!! (The club gets a small kickback, y'know).

DX DIARY

Propagation

10 Meters: Some fairly good openings should be possible to many areas of the world during the daylight and early evening hours. Openings to Europe and those in a generally easterly direction should peak an hour or two before noon, while those to South America and Africa are expected to peak during the early afternoon hours. Openings to the Far East, Australasia, Southeast Asia, etc., are most likely to occur during the later afternoon hours and the early evening. Due to the decline in solar activity considerably fewer openings are expected on this band than during the past five years.

15 Meters: Good-to-excellent DX propagation conditions are expected from shortly after sunrise through the early evening hours. Despite declining solar activity, openings are forecast to almost all areas of the world, and exceptionally strong signal levels may occur during many of them. For each geographical area of the world, conditions on 15 meters are expected to peak about an hour or two after they have peaked on 10 meters. During most of the daylight hours, this should be the optimum band for DX openings to most areas of the world.

20 Meters: Generally good-to-excellent DX openings are forecast to one area of the world or another on this band, almost around-the-clock. DX conditions should peak an hour or two following sunrise, and again during the late afternoon and early evening hours in the USA. Excellent openings are also forecast to many southern and tropical areas well into the hours of darkness. The decline in solar activity, however, is expected to result in fewer nighttime openings on this band than during the past several years.

40 Meters: DX openings to Europe and in an easterly direction should begin during the late afternoon hours and steadily improve towards darkness. Openings in almost all directions are forecast during the hours of darkness, with signal levels exceptionally strong at times. Openings in a westerly direction are expected to peak shortly after sunrise, just before the band closes for DX propagation. During most of the hours of darkness, 40 meters should be the optimum band for DX propagation to most areas of the world.

80 Meters: Some fairly good DX openings are forecast to several areas of the world during the hours of darkness and the sunrise period. Peak conditions are expected around midnight on paths to the east, shortly before sunrise for paths to the north or south, and shortly after sunrise for paths in a westerly direction.

160 Meters: DX openings to some areas of the world should be possible during the hours of darkness and the sunrise period. Signals tend to peak at local sunrise at the more easterly terminal of a path. Because of the relatively high signal absorption on this band, and the low power levels used, openings at best are expected to be weak and noisy.

V.H.F. Ionospheric Openings: Some ionospheric activity may be possible on these bands during October. There is a fairly good possibility for some 6 meter DX openings between the southern half of the United States and central and southern areas of South America, by means of trans-equatorial or TE propagation. These openings generally occur during

the evening hours, peaking between 8 and 11 p.m. local time, and the path must cross the magnetic equator at an approximate right angle. Some meteor-scatter openings are likely to occur on the v.h.f. bands during the two-day Orionids meteor shower, which should peak during the early evening hours of October 21st. Auroral activity is generally on the upswing during October, and some auroral-scatter type v.h.f. openings are expected during the month, especially during periods when h.f. propagation is either below normal or disturbed.

New WWV Forecasts

On July 1, 1971, WWV inaugurated a completely new format for its radio propagation data transmissions. C.w. has been discontinued, and all data is now given in voice. More easily than ever before, up-dated propagation data and forecasts can now be obtained directly from WWV transmissions. Now located at Fort Collins, Colorado, WWV transmits continuously, on the following frequencies: 2.5, 5, 10, 15, 20, and 25 mc. Propagation data is transmitted hourly, following the 14th minute time announcement. The transmission consists of a letter:

N (November)
U (Uniform)
W (Whiskey)

followed by a number between 1 and 9. The letter designates propagation conditions expected during the present six hour period, as follows:

- N - Normal propagation conditions
- U - Conditions unstable or erratic, signals subject to increased fading and noise.
- W - Radio storm in progress, conditions below normal or disturbed.

The number designates propagation conditions expected for the following six hour forecast period, as follows:

- 1 - Useless; 2 - Very Poor; 3 - Poor; 4 - Poor-to-Fair;
- 5 - Fair; 6 - Fair-to-Good; 7 - Good; 8 - Very Good;
- 9 - Excellent

DX Report

Old reliable Shorty, W2SUA sent along a few of his "goodies" just prior to leaving for a short stay at the hospital: CR8AG - Portuguese Timor, HK9AA - Bajo Nuevo, ET3ZU/A - Jabel At Tair. Above were on 20 ssb as usual. The last, ET3ZU, is a new DXCC country in the Red Sea.

Now, if some of you other fellows would send me your DX you would not have to put up with my fillers! DL3WF - 15 cw, DK20I, 15 cw, and VE5RI, 15 cw/ssb, DL2ZN, cw/ssb.

Tom, WA2MFS, passed these along just as I was about to post this to Doug....YV5CVE, VP8ME and KH6HMA all on 40 ssb and VE5RI on 15 cw... that new multi-band trapped dipole really looks like its going to do a fb job for you Tom!

AN 80 METER ANTENNA FOR THE NOVICE (OR OLD TIMER)

By Harry McCormick, WA2SEA

468

By using the formula Freq (MHz) from the A.R.R.L. Handbook, we find that for a frequency of 3.700 to 3.750 MHz. our antenna should be approximately 126 feet long, which means that the antenna should be 63 feet on each side of the center insulator.

So you say, "I don't have enough room to put up an 80 meter dipole." This doesn't have to be true. If you work 40 meters with a dipole antenna, you may possibly have enough room to get an 80 meter antenna in operation. As a solution to the space problem for an 80 meter antenna, here is what I have done (I find that the antenna also works very well for the Novice band). Make up your 80 meter antenna according to the formula at the beginning of this article. Then put it up in an inverted vee configuration; that is, get the center insulator as high as possible (and the higher the better)--then let the ends droop to a point as low as possible, perhaps 8 to 10 feet from the ground. So it still won't fit in your space? Next, take as much of the antenna as possible out in a straight line and bend any left over wire to fit in the allotted space.

My 80 meter antenna runs from a point below my 6 meter beam at the 38 foot level on my tower, off in a straight line to a tree in the front yard--then droops to about 10 feet from the ground. The back leg of the antenna runs straight for about 45 feet and then makes a 90 degree left bend to another tree in the back yard at about the 10 foot level.

Many different configurations can be put up that will work very well. These configurations work because the inherent 45-50 ohms impedance of the basic inverted vee antenna is not changed significantly by bending the ends of the dipole legs. One thing to remember is to cut the antenna to the correct length, after that the way you run it is relatively unimportant.

With the coming cold weather, 80 meters is a good band, and all Novices should try this band.

Good luck with your new 80 meter antenna. Any questions give me a call.

(Ed. Note: Let's get busy bending those ends around guys; FB Harry!)

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RAMBLINGS OF A GHOST WRITER

One of the hardest things to do is to write an article, such as this, each month, and come up with something different and interesting for all the club members. I guess that by now you have noticed that this is a good way of filling up space in CROSSTALK that would otherwise remain blank; so bear with me and I will try to find something to write about.

No doubt, you have noticed in other club papers that most of the

articles written are of a technical nature, and some of the newer members may have some difficulty in understanding the technical aspects of the various articles. Now this doesn't belittle the intelligence of the ham in any way, but does show the individual how much there is to learn when one has electronics as a hobby.

Speaking about hobbies; there is an old saying, "NEVER LET A HOBBY RIDE YOU--YOU RIDE THE HOBBY;" in other words, don't get so engrossed in your hobby that you neglect everything else. This is very easy to do for one just entering ham radio. I know, for I went through the same thing myself. It requires self discipline to keep the hobby within bounds. Also, this can be a good way to keep from getting tired of your hobby. Another way to insure the duration of your hobby, is to have another hobby concurrent with ham radio. Something of a different nature. By dividing your time between both hobbies, the chances of each giving you the pleasure you want will be greater and they will have a much longer duration.

I came across an article in the American Encyclopedia that I thought most interesting. Evidently, this was written in 1941 as some figures were dated as such. The article quotes, "A revolutionary use has recently been announced in READING BY RADIO. An apparatus has been perfected which, attached to the radio, will transcribe news and pictures on a roll of paper at the receiving end. Plans have been made to supply a news service in the home at a reasonable cost--\$35.00 to \$75.00 for the receiver and 10 cents to 20 cents per week for service and supplies. By this means the news will be recorded during the night and made available for early morning use." This must have been the forerunner of RETTY that is now used by a segment of the hams.

Don't hang on to those old issues of QST, CQ, and some of those other publications you have stashed away for too long a time. I know you think some day you will use the information in them, but believe me, electronics is moving ahead so rapidly that these journals are soon out-dated, and the only thing they are doing is taking up valuable space. I don't mean that you are to read the magazine this month and then throw it away the next; keep it for a reasonable time, but not for five and six years.

Don't let the stardust get into your eyes, keep a nice clean fist, keep DX-ing, and by all means keep that antenna up and your station on the air.

73's es CULGhost Writer

(Ed. Note: We believe the best way to get rid of the XYL forever is to come up with another hobby to go with ham radio, H1).

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FOR SALE

- WA2DVU - Marauder HX 10 - \$150.00
- Model 14 and Typing Perforator - \$50.00 each
- Drake 2B - \$150.00