

CROSSTALK

Published By And For The
GLOUCESTER COUNTY AMATEUR RADIO CLUB, W2MMD*

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Al Trueblood, Ka2KGD, Circulation
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CLUB NETS

2 Meter RTTY Net: Monday, 8:00 P.M. 147.54
ARES Net: Sunday, 8:00 P.M. 147.78/18

The Gloucester County Amateur Radio Club meets the first Wednesday of each month at the VFW Hall in Woodbury Heights. Meetings begin promptly at 8:00 PM.

Please send any contributions for CROSSTALK to Doug Gehring, WA2NPD,

Deadline for submissions is 10 days before Club Meeting.

PRESIDENT'S MESSAGE OCT. 1983

Sometimes it is very easy to write the President's column for Cross-talk because we have a lot of activities to talk about. At other times it is difficult to think of what to say that will be of interest to the club. This is one of those times. It is the first day of fall and the weather has turned cool to celebrate. Thoughts going through my mind are of additional heating expenses and the normal and abnormal rise in the cost of living. In the past few years almost everything had risen in price at an exceptionally fast pace. Everything, that is, except our club dues. (How's that for sneaking in the back door?) This month's meeting should be very lively since it's time to approve the budget for next year. In addition to the budget, your Board of Directors has recommended an increase in club dues which have continued at the present level for about 11 years. To find out about these fantastic and informative topics, please plan to attend the next general club meeting.

October is the month when all your past presidents get together to decide whom they want to recommend as your officers, directors, and trustees for the coming year. In discussing this with some of the past presidents, I find it is usually a difficult job because they do not know who might be interested in serving the club in this capacity. If you have a deepfelt need to help our club or feel you would like to become more involved, why not discuss it with one of the past presidents or drop a note in the "What do you want to know" box. It sounds antiquated to say "You get out of something what you put into it", but the statement is definitely true. Try it-you might like it.

Hope you all have been healthy and happy since the last meeting. Hope to see you this month.

73 - Russ,
N2ASV

OCTOBER MEETING PROGRAM

The program for the October meeting will be presented by Ray - AI2B. Ray plans to enlighten us as to the mysteries of antenna noise bridges and what a noise bridge could do for you. As mentioned at the September meeting, the Board of Directors has selected the noise bridge as the upcoming club construction project. Plan to be on hand for the ground breaking of our construction project.

Note:

For those of you interested in the CW/RTTY project being developed by the Frankford Radio Club and presented to us at the September meeting, I'm told that Tony - N2SS, will give a demonstration over 2 meters of the interface. If you plan to hop on the band wagon, the club (GCARC) will arrange for a group order of the circuit boards will be taken at the October meeting. To join the pack, a deposit of \$5.00 for the circuit board must be paid at the October meeting. There will not be a less expensive way to get on keyboard send/receive RTTY and CW for some time to come. Take a close look at this one.

Harry, WA2VXT

CLUB REPEATER UPDATE

Several changes are being made to the operations of the 2 meter repeater. Effective immediately, the 2 meter repeater will be operational 24 hours a day ! For the time being, the Autopatch will be operational from 5:00am thru to 1:00am the following morning.

Autopatch: Due to the recent changes in the FCC regulations as regards logging, we are simplifying the Autopatch procedure as follows:

Identify your station

W2xxx access patch

Dial the access code + *

wait for dial tone

Dial the telephone number

At the conclusion of your patch

identify your station and disconnect the patch

identify your station as clear thru "W2MMD"

These changes will eliminate the necessity of giving the date and time of the patch. Couldn't be simpler !

Stay tuned for further improvements.

Harry, WA2VXT

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HAMFEST, 1983

Which, by any stretch of the imagination, was again this year highly successful. Overall Chairman Harry WB2GSF, again must receive much applause and singular credit for another terrific effort in steering the big hamfest ship safely through the fog. His organization talents and ability in getting the jobs accomplished and on schedule were highly visible. But not to be outdone were Harry's hardworking crew which included the following coworkers: Firstly, Milt, K3WIL, and Herb, K2HPV, as in yon years handled a broad spectrum of important tasks (printing, tickets, posters, flyers, door prizes, treasury, etc.) in professional fashion. We have hardly come to expect less from these two guys. The huge task of procuring and selling the food was superbly handled by Chic, WA2USI ably assisted by a variety of hard workers including Roselyn, N2AKL, Sonny, WB2DXB (who really dug-in), and XYL's Claudie and Marion (I know we missed others).

A really novel, valuable, and terrific feature this year was the use of shuttle buses to and from the parking lot. We have Neil, K2RCH, to thank for this brainstorm (see article elsewhere) and his careful drivers: WA2VEE, W2PAX, N2AIV, K2QGH, WB2OCR, WA2FZB, and WA2SIT. Great job here with lots of favorable comments overheard. As in previous years the critical job at the gate was smoothly handled by Chuck, WA2TML, with yeoman help from N2CQ, WB2FJE, WB2GES, N2ASV, WA2SEA, KA2OSV, and KB2AB. These guys put in many man hours of effort. Similarly, the tailgating team was headed by Tony WA2FZB, with co-chairman Chris, KC2PC, doing a splendid job getting all the sellers nestled away. And as evidenced by the ease with which everyone found us, obviously the Talk-In crew, with Walt, WB2OYQ heading the team were magnificent. Many thanks to N2DYP, WA2WOD, WA2OOS, and, from 100 feet-up, W2SUA. Also, it was duly noted that WB2OYQ doubled as janitor for the ladies room

(bless him) at the risk of receiving a bloody nose from a YL who perhaps misunderstood Walt's objective.

As in past years, Rose Ellen, N2RE, did another super job handling the YL contests in addition to the hospitality table. She also edited and published the special edition of X-TALK for which many favorable comments were received. Many thanks to Della, W2AFZ, and Mary Jo, N2AJG for helping Rose Ellen. The Club Table was again managed by Bill, WA2VQG with the help of Phil, WB2ONS and their efforts were deeply appreciated. Perhaps the highlight of this year's show was the QLF Key built (to scale no less) by Charlie, K2PQD. This is the best looking QLF Key in the USA, according to many! Now, if we could only send with it! Steve, KR1M, assisted by AB2W, conducted the contest in a professional mode. And Harry, WA2VST, handled the PA chores in addition to a variety of other jobs including door prizes, etc. Assisted by Mary Jo and Don and Hope Search from the league, Doug, WA2NPD, handled the ARRL booth as in past years. And, as always, John, K2JF, made the arrangements for the very popular FCC tests and for the ARRL forums. Special thanks also to Exam proctors WA2LET, K2ZA, and AE2L. Lastly, but critically important was the terrific job done by the clean-up committee ably headed by Charlie, K2PQD, with strategic help from WB2OYQ, K2QGH, WA2VQG, KC2PC, KB2GH, KB2GW, N2AJG, WA2NPD, and XYL Ruth.

Knowing full well we probably missed crediting some of you who put-in hours of effort (for which we humbly apologize), it goes without saying that a successful Hamfest requires the hard work of very many Club members! Indeed, some 47 calls were mentioned above! Obviously, if some of the rest of our 120 members helped abit, it would tend to ease the burden on those who worked so hard. Let's hope we hear from some more of you next year.

On a positive note, ARRL Director Hugh Turnbull, W3ABC, and DX Czar Don, W2AZD were highly complimentary of our Hamfest. Both of their respective forums went very well and their discussions were lively. Also, a first for GCARC, we had the pleasure of providing a scenario for W3ABC to present a 50 year ARRL Membership plaque to Arnold Ross, W3DYO. Many congratulations to Arnold. Some 126 FCC exams were passed by those lucky enough to have perservered (including 16 extras), and (would you ever believe), GCARC's own Phil, WB2ONS, won the major prize! We believe tha last time a club member won a major was back in the middle sixties when Della, W2AFZ, won a 6M rig. Although, all the bills are not in as of this writing, it looks as if we were a bit shy of last years record earnings. The important thing is that all who attended had a great time (by all accounts) and are looking forward to next year.

A special thany you to all who participated and helped make this years Hamfest another GCARC success.

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SHUTTLE BUS SERVICE PROVIDED

Through the efforts of Neil, K2RCH, we were very fortunate to have the McGough Bus Company, Deptford, NJ provide us with suttle buses to transport

Hamfesters back and forth from the College Parking lot.. This was really a big help and solved a chronic problem which has been plaguing us for several years. Special and heartfelt thanks to Neil and to Hank and Joe McGough of the McGough Bus Company.

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COMMUNITY SERVICE AWARD WON

Congratulations to GCARC!! We have won the community Service Award this year from the American Cancer Society in recognition of our efforts in helping out with the Bike-A-Thon! We understand the presentation will be made at the October 5th Club meeting. Let's turn out "en mass" for this.

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GCARC "In Bed" with Nat. WX Serv.

Following a super presentation by representatives of the Amateur "Storm Watch" net and National WX Service at our last meeting, the Club unanimously voted to sign an agreement to become affiliated with the Storm Watch Net and, via our repeater provided communications during severe WX probability situations in the Delaware Valley Northeast sector (which we are assigned). More details on this valuable and rather exciting assignment will be forthcoming.

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PROBLEMS WITH RECEIVING X-TALK?

Please contact Charlie, K2PQD, if you are having, or in the future, have any problems with getting your X-TALK due to incorrect or missing address information. Also, if you change your address, or change your call sign and/or license category, please inform Charlie so the Club roster can be updated. Many TNX and thanks to K2PQD for his efforts here.

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OVERHEARD AT OUR HAMFEST

This one was passed along by Jim, KA2OSV. While helping with tickets at the gate, a car drove up to Jim, Stopped, and the elderly couple inquired what was going-on? Jim replied, "this is the GCARC annual Hamfest and would you like to come on in?" They replied, "No thanks, we've already had our breakfast". Oh well, we all started-out from somewhere.

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CONGRATULATIONS TO -

the following Hamfest upgrades:

Barry, KC2ME, to Extra Class !!

Vernon, N2DRD, to Advanced !

Len, WA4FDO, to Advanced !

Jim, KA2OSV, to General !

Nice going guys, we are proud of you !

4 - SALE

1. Icom IC701 HF XCVR, Mint cond. w/Amp Mike es manuals
2. Hamtronics complete 6M XVTR, solid state w/preamp, GUD wrking Cond.
4 above 2 items contace Ed, WA2PFC,
3. Hammerlund HQ 170C RCVR, in excellent cond., w/manuel., \$60.00.
Call Doug, WA2NPD,

DA'S & DIT'S

W2MMD/Repeater says, "Up on top of the water tower all alone ! I need help"!

WA2VEE has switched to a Celebrity.

Now that there are two - is WB2LNR thinking about number three?

Hope KZ2N is keeping hemsself busy in the entertainment field.

Hopefully WB2EFL is doing well on his farm, but I bet he sure could use some more rain.

K2QGH has been operating from his rig for the past fifteen years without the need of replacing even one tube.

KA3CYW carried a portable air conditioner around with him during the hot spell in an effort to beat the heat.

We are all hoping that WB2GKH is well on the way to recovery.

W2BX - now a silent key.

AI2B - our condolences on the recent loss of his mother.

de the Eavesdropper

FOUL-UP AT THE FRIENDLY CHICKEN COUP

Bill, N2BK, reports that his XYL Chris has now joined Bill and his daughters in that she has received her novice ticket ! Many congratulations to Chris ! In fact, the Fcc sent her two (2) novice tickets, KA2THA, and (the following day) KA2THT arrived at the Kardas QTH! For those of us who wait years (it seems) to get our call, Chris has killed 2 birds with one stone. I guess this is a plus for the FCC considering what might have happened.

* * * * *

LES BELLES

The 1983 Ham/Comfest is now history. We did have many YL's attend, some were: N2AKL, N2AJG, K3WAJ, N3AYD, KA3NOH, N2RE, WB3ANE, KA2CQX, W2AFZ, N3CFE, WB3EPU, N3DWR, WB3JCE, KA3ITN, N3AYE, N2AKL and WA2SOQ. These gals all passed the Hospitality Table at one time or another during the day. If we missed anyone, we are sorry not to have seen you. About 25 prizes were given out to YL's during the day with two separate times designated for the purpose. Did you get a prize?

It is not too early to express your desires to help with the YL portion of next year's Ham/Comfest. If you are interested please make this known so you will not be left out of taking part in the annual event.

Wonder if you have noticed how many YL's are out there upgrading: In the past several months I learned of a few, namely KA2ASY came all the way from Stone Ridge, New York to go to the FCC in Oxford Vally to upgrade from General to Extra and now has a new call coming. WO4U upgraded to Extra along with WI4K and both are in there chasing DX most of the time. K4AOH upgraded to Extra at the Atlanta Hamfest but will keep her call as she had it many many years. WD4NKP also passed Extra at the Atlanta Hamfest and elected to keep her call -- she has already won just about every award for many contests and has been on the air just a few years. Congrats to all these YL's who never stop reaching for the top.

Have you signed up for the G.C.A.R.C. Classes? That is one good way to upgrade if you have in mind getting on the low bands and enjoying a wider scope of hamming than 2-meter operation will bring you. Come out to the general meetings and discuss your interests regarding any phase of amateur radio which "is your thing", so to speak.

There is a YL radio organization for those living in the second district - our area. If you are interested in being a member, please let me know. This group has regular nets and a meeting just two times annually - once in New York State and once in New Jersey. The SAYLARC (Second Area YL Amateur Radio Club) is a good way to meet other YL's living in these two states. Sound interesting? Please get in touch with me.

CODE CLASS

Chic, WA2USI, reports that 22 eager students have signed-up and the Class is now underway. There still is room for a few more.

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DX DOPE, TNX TO KE2M

BV, TAIWAN. I2MQP and I2BVS from Sept. 18 to 25 on 1Ø/15/2Ø CW/SSB/RTTY

CR9 MACAO. By Paogmn around Sept. 27 for three days.

HKØTU MALPELO. Scheduled for Oct 12-17. QSL via HK3DDD.
K4YT DXPEDITION. J28 NOW. 7Q7 9/14-19. ZE 9/19-23. ZS 9/23-26.
A2 9/26-3Ø.

VE1SPI ST. PAUL. By VE1ASJ from Sept. 23 to Oct 3. on 16ØM thru 435MHZ. QSL via VE3EUP.

VK/LH LORD HOWE. By VK2WU in CQ WW Phone Oct 29-3Ø

ZD7BV ST. HELENA. Each Saturday on 3795 or 3778 at Ø73ØZ.

3A MONACO. By W5JW Sept. 23-27. QSL via W5UR.

5U7 NIGER. By KC7UU for two weeks in Mid-Oct.

VQ9 CHAGOS. VQ9JD and VQ9EH on 142Ø8 at 13ØØ, 14238 at 1635.

XU CAMBODIA. XU1KC and XU1SS on 21295 from Ø1-1ØØØZ daily.
QSL J1HQG

ZA ALBANIA. By DL7FT and friend, Cancelled.

4S7WP SRI LANKA. Mon-Fri on 14Ø1Ø-Ø3Ø from Ø1-Ø3ØØZ.

9N1 NEPAL. Father Moran 9N1MM on 14194 at 21ØØ, 14215 at ØØØØ.
QSL N7EB.

3Y Bouvet rumored to start in November for 10 months

70 P.D.R. Yemen by J28AZ delayed until October

MALAGASY REPUBLIC. 5R8AL can be found on Mondays and Wednesdays at 19ØØZ between 21330 and 21335 KHZ.

TOGO. ALI, 5V7RE, is on 21335 KHZ between 1700 and 2ØØØZ.

CONGO. Roger, TN8EE, may also be found on 21335 KHZ around 17ØØZ.

DEPARTURES. Lee, TJ1AF, has returned to the states and 9Y4RD.STØ has gone back to 4x4.

SIERRA LEONE. Look for LA2WW/91 around 21330 KHZ.

SOUTHWEST PACIFIC. C21BD, NAURU, and ZL4OY/C, Chaiham Island, can both be found on 3795 KHZ at 1100Z.

160 Meters. The top band has had little QRN lately. Look for 4U1TU, EA3VY, GS, DLS and other europeans operating in the window starting around 0330Z. SV0AA has been worked in the U.S. at 0330Z.

CHINA. Tom VE7BC, reports that he will activate BY1PK on SSB beginning October 4. He plans to work U.S. and Canadian stations by call area. He will begin at 2 P.M. peking time on 14145 KHZ, listening between 14180 and 14220 KHZ.

CONTEST CORNER

Light the Torch - and let the games begin ! Yes, it's October again and with it comes fall and the CQ World Wide DX Contest - the Olympics of DX contesting. Stations World-Wide go all out for this one and its possible to work mucho new V DX.

October's CQ Magazine included the 1982 CQ World Wide CW results, W2YC's effort earned him ninth place in Two-Land! October's QST highlighted the 82 ARRL DX contest results. Congratulations to WA2OOS who finished first in the South Jersey Section on both modes, SSB + CW! Super job Tom! GCARC placed 11th in the "Local" club category. We missed the top 10 by less than 60,000 points that could have been your entry, you see everyone's effort - big and small - does count. October is another busy contest month with at least 17 events, there certainly is something for everyone:

October 1 - 2 Vh/ZL Oceania Contest - SSB
 " 8 - 9 " " CW
 " 8 - 9 ARRL CW QSO Party (for all League Members)
 " 9 RSGB 21 MHz Phone
 " 16 " " " CW,

and, for the ladies:

October 22-23 CLARA AC/DC Contest
 " 22-23 YLRL Anniversary CW Party

Plus, there are 4 state QSO Parties for you county hunters (California, Oregon, MD/DC, and Penna.)

October also kicks off the Club "Mega point" contest season. Copies of the Megapoint award rules will be available at the meeting. Rules/logs for the CQ World - Wide and ARRL sweepstakes will also be available.

Contesting is fun and can also be another means of achieving other goals ie more DX, counties etc.

August's Contest Corner briefly discussed contest strategy for us "little pistols" Let's examine the merits of calling CQ Versus search and pounce. After all, we have to draw that DX into our web some how! At the beginning of the typical contest big guns will call CQ and be answered by weaker

stations plus the usual heavy QRM at the band's low end buries weaker signals and can be overwhelming. Try search/pounce for awhile in the upper band portions concentrating on weaker stations. Remember, the big guns will be there till the contest ends. If your making contacts on your 1st call - propagation could be in your favor - try a few CQ's. Certain bands are better for weak signal CQ's (10/15 meters are very good when they're open) So try to operate on the highest band possible. Search and pounce will probably be the usual approach, sweep and resweep the band. When answering a CQ keep it short example "de WB2GES". There maybe times when calling CQ and search/pounce no longer works - three options are available ie change bands, take a break or search/pounce at a low rate. We'll discuss these items in detail during later columns. Next months column will be devoted to ARRL Sweepstakes and some ideas for operating strategy.

See you at the meeting.

73

Dennis

LEGISLATIVE REPORT (TNX to Westlink es K3WIL)

FEDERAL LEGISLATORS ARE LINING UP against No Code. The controversial proposal to establish a class of amateur license not requiring the applicant to prove proficiency in Morse Code has already been criticized by US Senator Barry M. Goldwater, K7UGA, and California Congressman Charles Pashayan in separate actions. (See WLR-396, 399) They have now been joined by a host of others, including Senators John Tower and Sam Nunn, and Representatives Jesse Helms, Charles Wilson and Jack Brooks. According to Arthur P. Kay, W5APX, of Port Arthur, Texas, the letters sent to the FCC by Towers, Brooks and Wilson were very strong at pointing out that the Morse requirement should not be disturbed in any way. Kay said that getting Congress to pressure the FCC is the best way to beat back No Code. He added that only the apathy of amateurs to write their elected officials stands in the way of killing the proposal. He urges all concerned to take this action now.

A PRO-NO CODE LETTER WRITING CAMPAIGN appears under way, under the guiding force of a group calling itself the "American CB Trucking Alliance." The ACBTA is openly soliciting truck driving CB operators along California Interstate 5 to write en-masse to representatives and senators to urge they support a far more lenient approach to No Code than is currently proposed in Docket 83-28. While no documentation is available, on-air contacts monitored in the 10½ meter illegal band indicate that the group wants pressure brought against the FCC to "grandfather" all operators of 11 meters into No Code amateur status, and to include high frequency operating privileges by recognizing the 10½ meter spectrum as a No Code only amateur band. While industry indicators say that Class D CB is a dead marketplace, its militant supporters see the No Code amateur radio license as an avenue toward expanding their operating horizons. Presently, the operation of this group appears limited to the state of California.

AMATEUR RADIO BECAME A LIFELINE Thursday the 18th when Hurricane Alicia slammed into the East Texas coast near the city of Galveston. The Storm packed winds in excess of 90 miles per hour, knocking out power to parts of the Houston-Galveston metropolitan areas while causing damage and severe flooding. Amateur radio operators were prepared for the storm's worst punch and mobilized through ARES and allied services before the hurricane hit. Both 2 meter FM and HF nets were used to coordinate relief efforts between city officials, emergency services, hospitals, evacuation shelters and relief agencies, such as the Red Cross. In many cases, the volunteer amateur radio operators did far more than anyone would expect and there were so many individuals and groups involved that it is impossible to single out anyone for special merit. Many hams are still involved in cleanup activities after the storm.

(TNX to Westlink es K3WIL)

NORTH AMERICAN OPERATING FREQUENCIES to be used by Dr. Owen Garriott, W5LFL, from the orbiter Columbia have been announced. His primary downlink will be on 145.55 MHz, with other, yet unreleased frequencies in that range to be used as back-up. North American uplink frequencies will be on 20 kHz centers starting at 144.91 MHz and continuing through 145.09 MHz. This spectrum was chosen to minimize interference to and from other ongoing use of 2 meters. The current schedule calls for lift off October 28th with the amateur radio portion of the mission starting 3 days later. Tnx ARRL.

(TNX to Westlink es K3WIL)

RUMOR: The Central Intelligence Agency has effectively killed the "No Code" license. This rumor permeated the exhibition hall at the highly successful ARRL Southwest Division Convention the weekend of September 3rd. The story, if factual, says that the CIA has contacted the FCC, either officially or unofficially, and has indicated that the establishment of a license class not requiring proficiency in the Morse Code would not be in the interest of the United States.

The Commission is not in a position to comment, since action on PR Docket 83-28 has not yet been finalized. Don't expect any public comment on the matter from the CIA, itself, since that agency rarely issues public statements.

Recent personnel-staffing advertising that appeared in various amateur publications indicate that a proficiency in Morse at a speed of 12 words per minute is a highly sought after requirement for employment with the agency.

It is also believed that this action, if true, was unilateral on the part of the CIA, and not solicited by the ARRL. League officials attending the convention appeared to be quite surprised when they heard the story, but reserved comment until all the facts become known.

(TNX to Westlink es K3WIL)

MEETING OF NOMINATION COMMITTEE

ALL PAST PRESIDENTS
THURSDAY OCTOBER 20, 1983
AT
RUSS GLANS -- 8 PM

STATUS N2SS N7BIT RTTY Box Project

Jim, N7BIT, has designed a terminal unit to interface between a transmitter receiver and a computer. The terminal unit in conjunction with appropriate software driving the computer provides full send/receive CW, RTTY and ASCII capabilities. This terminal unit is similar to the Kantronics interface that you have probably seen, advertised in the magazines for \$169.00. I say similar, but it is actually better, as it incorporates capabilities not found in the Kantronics unit. Jim's design utilizes 7 IC'S and 4 Transistors and operates off of nominally 12VDC. WA2USI has done a PC board layout for the project-it is a double-side board only 4" square. I am getting 2 separate quotes on a complete parts kit to further facilitate construction by those interested in the project. The first quote received is from Tom Clemens (Clem-Neff Enterprises) in Glassboro. Tom's quote is just under \$50.00 including \$9.75 for a case. You will need to add the board, approximately \$8.00, a relay from Radio Shack at \$3.00 and the Experimenter's Board from Radio Shack (\$2.00) for the 2732 EPROM (\$6.00). You only need the last 2 items if you go the VIC-20 route (see below).

As I mentioned previously you will also need a computer and software. Software packages are available from Kantronics. They range in price from \$50.00 to \$100.00 depending on which computer you have and which software package you buy. Computers can be any one for which appropriate software is available. But we can suggest a very cost effective approach to this portion of your system. We have available a software package that is burned into a PROM which can be plugged into the game cartridge part of a VIC-20. WA2USI has access to a PROM burner-so you supply a new 2732 EPROM (cost: about \$6.00) and we can return it with the CW/RTTY/ASCII software burned into it. You would then wire this PROM to the pins of a piece of edge connector perf board (Radio Shac 44 Pin Experimentar's Board) and plug it into the Vic game part.

At the last Hamfest I attended, Vic-20's were being sold for \$69.00. Thus, for under \$140.00 you can be on the air with a complete CW/RTTY/ASCII send-receive capability. The software we have provides the following: Split Screen Type Ahead, Buffer, 10 Programmable Message Parts (Messages can be saved on tape and loaded back), Clock Display, CW to 99WPM. RTTY at 60, 67, 75 and 100 WPM and ASCII at 110, 300 band. The Vic by the way includes a modulator so that you can use either a video monitor (better resolution) or a standard TV receiver.

I have been using the N7BIT INTERFACE built onto one of the prototype PC boards along with a Vic-20 and the software package described above, for the past several weeks on both H.F. and V.H.F. and it works just super. For \$140.00 and a few hours work you will have a "really fun" station accessory.

Boards will be ordered by the Club for those interested. Board cost will be about \$8.00. Please advise WA2VRT of your interest so that we know how many boards to order. If you have any questions, please contact me.

73's

DE-N2SS