

CROSSTALK IS THE OFFICIAL PUBLICATION OF THE
GLOUCESTER COUNTY AMATEUR RADIO CLUB

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CLUB NETS

6M A.R.E.C.:	50.9---Sundays, 8:00 PM Local Time
10M Rag Chew:	28.8---Fridays, 9:30 PM Local Time
Novice A.R.E.C.:	21.115-Mondays, 8:30 PM Local Time
Friendship:	7.265--Every 3rd Month, 3rd Sunday 1:00 PM Local Time--Time and date subject to change with notice.

DEADLINE FOR ALL SUBMISSIONS IS TWO
WEEKENDS BEFORE THE UPCOMING CLUB MEETING

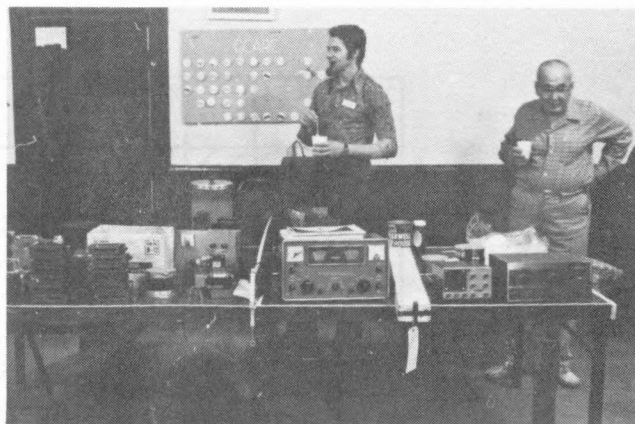
Let's find out if we can break the record of 45 (count 'em) members attending the March meeting by coming out (all of you !) to the club meeting at ye olde clubhouse on April 3, 1974. Come one, come all.

BIG WHITE ELEPHANT LANDED WITH A BANG!!!

Believe it or not, 45 (count 'em) persons attended the March 6 club meeting, which is believed to be a club record. Guess a lot of members wanted to either get rid of some "excess material" or to buy someone elses.

The auctioneer this year, as was last year, was John Stull, **WB2JZX**. John has very sharp eyes and ears, as our unfortunate editor, who accidentally purchased an old 50 pound modulator for a nickel can testify! Well, it'll make a good paper weight anyway!

Although a good deal of stuff was auctioned off, there was also a good deal of stuff that wasn't. Guess we'll have to pull it out next year and hope some poor soul will take pity on it!



The main table at the White Elephant sale displayed a wide variety of equipment.

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SIX METER TAPE NIGHT

The April program will deature our own club members, past and present, as the stars of the show. Jim Peck, W2LVW, and Fred Cowgill, WB2GEK, have each prepared tapes of typical six meter AREC Net activities which we are certain all members will want to hear. Jim's tape is of ten years ago and Fred's tape is of the recent era. Both depict the rigid (Ha!) schedules and Net procedures strictly (Ha!) adhered-to by the Net operators.

See you all on the 3rd of April.

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(below)

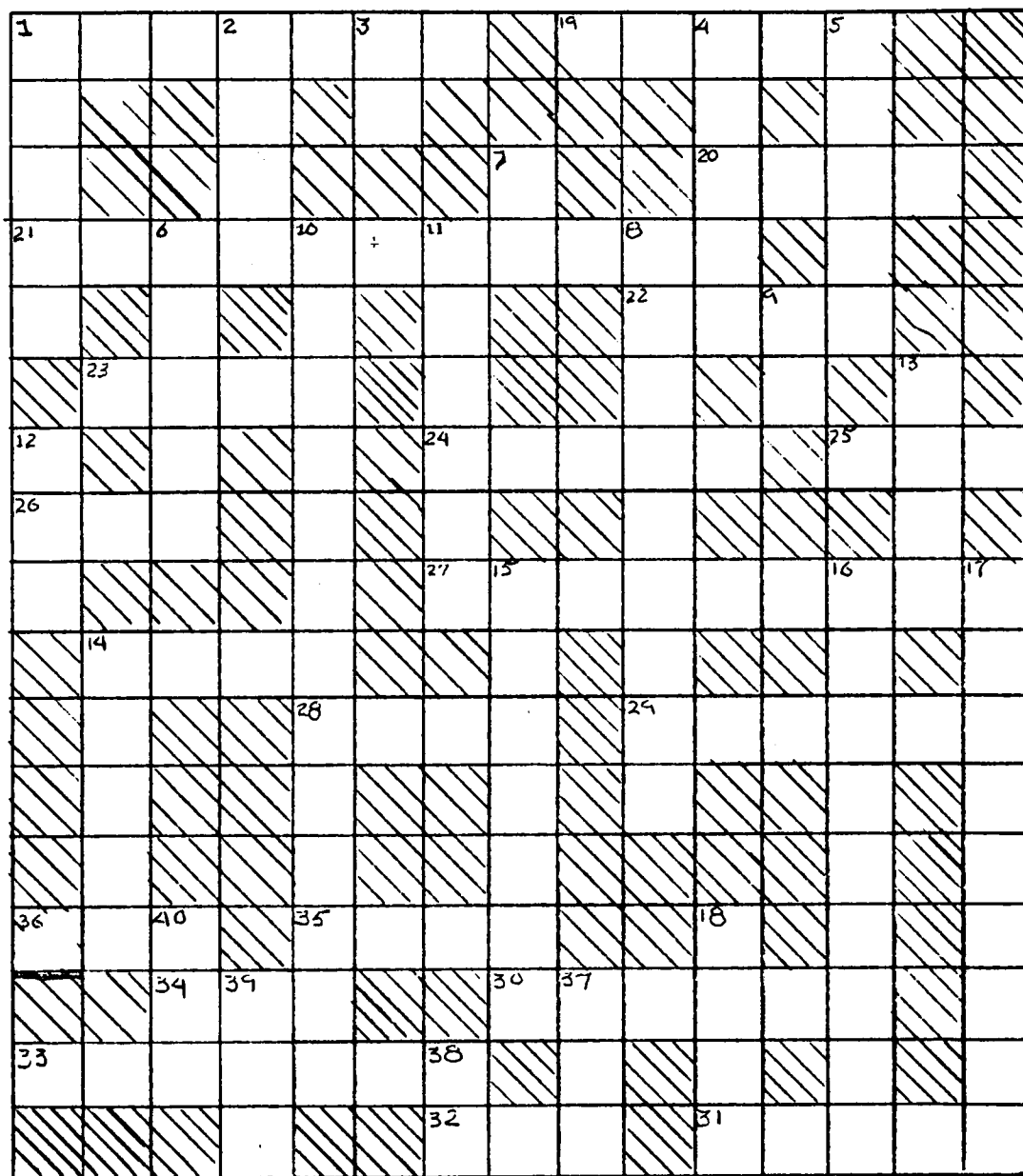
The 3 largest pieces of gear were sold. They are: DAK3 rcvr. (left) 220 MHz rcvr. (rear) and 'scope PS front.



VFO anyone? How 'bout a quarter?

HAM PUZZLE

Looks like Bob Doak, WA2AIH is going to become a regular member of the Crosstalk Staff, with some sort of puzzle, quiz, or technical article every month.



(answers on last page)

Ham puzzle continued.

DOWN

1. Method of generating SSB.
2. Single Sideband Suppressed Carrier. (abr.)
3. Type of meter used for obtaining correct levels in recordings.
4. Voltage times current equals_____.
5. Altogether.
6. Small value resistor placed across an ammeter to increase its range.
7. One one-thousandth of an ampere.
8. Name of an electronic component formed when two plates are insulated by a dielectric.
9. Radio Frequency. (abr.)
10. Type of beam deflection used in most oscilloscopes.
11. Doughnut shaped coil.
12. Beat frequency oscillator. (abr.)
13. Type of transmission used by all AM broadcast stations and some FM stations.
14. Diode used for voltage regulation.
15. Low power transmitter or generator.
16. Combination of reactance and resistance; the total opposition to the alternating current of a circuit.
17. Name given to two or more components connected in series or parallel.
18. A voltage, usually negative, that is placed on the grid of a vacuum tube to control output waveform, plate current, etc.
37. Discharge of electricity.
38. Opposite of yes.
40. Q signal for "your sending is incorrect".

ACRCSS

1. A component or device is _____if it doesn't consume or generate energy.
14. Nil.
19. The terminal at which power or voltage is going into a circuit is called an_____.
20. A unit measure of power.
21. Reciprocal of reactance.
22. American Radio Relay League. (abr.)
23. A thermionic device used for amplifying, detecting, etc.
24. Amateur satellite used for relaying communications. (abr.)
25. Record book that must be kept by the radio amateur showing QSO's.
26. Abbreviation for a semiconductor whose main advantages are low noise and high input Z.
27. The varying of the carrier frequency of an FM transmitter.
28. The pulses in a television video signal that maintain the received video like that of the transmitted video.
29. Opposite of input.
30. To limit the supply of.
31. Signal which has a sawtooth waveform and is applied to the deflection plates or yoke of a CRT to scan a line or make a frame.
32. Oscillator. (abr.)
33. Name of a tube that converts reflected light rays from images to a varying voltage; used in television cameras.
34. CW abbreviation for sorry.
35. To _____a tank circuit, you vary either the inductance or capacitance.
36. Q signal requesting an increase in sending speed.

AM, FM BROADCAST RECEIVERS WANTED AS DONATIONS

Anyone who has any old AM or FM broadcast radios to spare, please bring them to the April club meeting. This suggestion was made by Bud Snyder, WB2TKN, who thought it might be a good idea for the club to donate old radios as a gift from the club to the Robin's Nest home in Pitman. The Robin's Nest is a home for homeless girls, and it seems that the girls there would like to have some entertainment from the broadcast stations. So, if you have any radios that more or less function, please bring them and help these girls out. Undoubtedly they would be greatly appreciated.

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XYL OF EX-W2CDZ TAKES PLACE IN BOARD

Rose Ellen Bills, WA2FGS, XYL of the late Bill Bills, W2CDZ, was voted into the club's Board of Directors at the February 20th Board meeting to fill the vacant spot that Bill had held. Certainly Rose Ellen will do a very fine job in this position, and we wish her the best of luck.

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SWAP SHCP

WANTED: Egg insulators for dipole. Call Rudy Jalbert, WA2UWU.

MUST SELL: 50' STEEL TOWER in three sections. \$75 or make offer. Please contact Steve Asay, WA2AXJ.

FOR SALE: HQ-110C Receiver. Perfect condition. 160-6 meters. \$90. Lafayette KT-90, 80-10 meter AM/CW transmitter. 90W and includes mike. \$25. Heath VF-1 VFO, \$15. 7 element Cush Craft 2 meter beam. \$10. Contact Wayne Welsh,

FOR SALE: Heath SB401 TRANSMITTER, good operating condition. Also the following linear amplifier components for sale:
 2- 8mfd/4KV capacitors.
 1- 1.2KVA (1200W) 3KV transformer.
 2- 10KV 1.5A diodes.
 2- 100K/200W power resistors.
 1--Good 3cx1000A7 tube and socket, guaranteed to put out 1KW.
 1- Jennings 27-300pf vacuum variable capacitor.

Anyone interested in any of these items please call Jeff Ehrenkrantz, WA2LWC.

FOR SALE: KWM-2, Henry 2K, TA36, D104 Mic, 'scope. Fred E. Neumann, W2EUX.

For Sale - Model 103 Teleprinter suitable for RTTY.
 \$20. J. A. Klupar - WB2OER

AFCEA ANNUAL AMATEUR RADIO LUNCHEON

Sheraton Park Hotel-Washington, D.C. Wednesday, 12-June, 1974
at 12:30 PM.

\$6.00 per person includes free tickets to the world's largest
Communications-Electronic and Photographic exhibits. K4NAA operating
in the lobby. PRIZES FOR CM's AND YL's.

Make reservations no later than 6:00 PM 11 June 1974. Write Ray
Meyers, W6MLZ, P.O. Box "B", San Gabriel, CA. 91778, or Myrtle Cunningham,
WA6ISY, 1105 E. Acacia Ave., El Segundo, CA 90245, or call either of the
above at the hotel-202-265-2000, June 9, 10, or 11.

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DUES EXTENSION

According to the Club Constitution, if dues are paid during the
months of January, February, or March, there is a discount of \$1.00
for full members and .60¢ for associate members.

The members of the Board of Directors have agreed to extend this
discount until the enening of the April general meeting.

Harry McCormick, WA2SEA
Rec. Sec. GCARC

...So mail your \$5.00 to Jim, WB2CER before April--before it becomes
\$6.00. Just mail this handy coupon to Jim.

-----DETACH HERE-----

I. _____ hereby surrender \$5.00 as my dues to the
Gloucester County Amateur Radio Club for the year of 1974.

Mail to: Jim Klupar

CLUB PROGRESS

Each year it is the duty of the Club's Recording Secretary to file a
report about our club with the ARRL to keep our affiliation in effect.

In going over some statistics I found several things that I thought
you might find interesting. I know statistics can be boring, but they do
point out the trend in our club's growth.

In order to make it short I would like to compare our records for
just the past four years, as of March 1st.

In reviewing the following figures it appears that we are showing a
slow but steady growth, which is a healthy sign, but it also shows that
we are not gitting enough Novice licensees in the club and that there
are several slots open for ARRL appointees.

Also notice that the number of persons upgrading has fallen off
recently.

(there are many more statistics called for in the annual report,
but the accuracy of these may be questionable, so were omitted in the summary.)

	<u>1971</u>	<u>1972</u>	<u>1973</u>	<u>1974</u>
President.	WB2FJE	WB2JZX	W2SUA	WA2MEM
Vice President.	WB2JZX	WA2FVH	WA2DNL	WA2NPD
Treasurer.	WB2WAK	WB2WAK	WB2CER	WB2CER
Recording Secretary.	WA2SEA	WA2SEA	WA2SEA	WA2SEA
Corresponding Secretary.	W2AFZ	W2AFZ	W2AFZ	W2AFZ
Number of voting members.	57	56	65	67
Number of ARRL members.	45	49	52	58
Number of licensed hams.	57	58	63	69
Total club membership.	57	59	65	72
Extra class.	2	2	3	5
Advanced.	16	16	13	15
General.	20	25	29	33
Technicians.	8	9	9	10
Novice.	8	8	8	5
Unlicensed.	1	1	2	3
Foreign.	0	0	1	1
Upgrading.	2	6	11	8
Annual Dues.	\$5.00	\$5.00	\$5.00	\$5.00
Number of ARRL appointees.	5	10	8	7

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LES BELLES

This month we like to have food prepared that does not take much time so that we can enjoy the springtime and be outside as much as possible.

Lets try:

SHELLFISH-VEGETABLE CHCWDER

1 pound small shrimp
 6 slices of bacon, diced
 2 medium onions, chopped
 1 can (6 ounces) minced clams
 1 medium potato, diced
 1 package (10 ounces) frozen succotash
 2 cans (10-1/2 ounces each) frozen oyster-stew soup
 3 cups milk
 3 tablespoons butter or margerine
 3 tablespoons flour
 1 can (6 ounces) lobster, cut up
 1-1/2 cups heavy cream
 1/2 cup dry sherry
 Salt and freshly ground pepper to taste

Cover shrimps with boiling water and cook, drain, re-serving the liquid. Peel and de-vein shrimp. In large kettle cook bacon until crisp. Remove bacon and pour off about half of fat. Cook onion in fat in kettle for 5 minutes. Combine shrimp liquid and liquid drained from clams; add enough water to make 4 cups. Add to onion with potato and succotash. Simmer for about 15 minutes. Add soup, milk, and blended butter and flour. Cook, stirring until thickened. Add remaining ingredients including shrimps and drained clams, and heat. Makes 8 generous servings.

VIVA LA DAYTON HAMVENTION. Don't miss all the attractions at the YL booths to be placed by the Buckeye Belles and the YLRL during this event on the dates of April 26-27-28. There will also be special luncheons and tours for any ladies attending.

A father of four sets of twins sued his wife for divorce on the grounds that she was overbearing!

vy 73's

Rose Ellen, WA2FGS

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VISITORS AT MEETINGS GET GCARC RUN-DOWN

The following letter along with an application for club membership will be sent to people that attend our club meetings as guests:

"Thank you for attending one of the recent meetings of the Gloucester County Amateur Radio Club. It was a pleasure to have you as a visitor.

You may wish some information on what the Gloucester County Amateur Radio Club has to offer its members, and I would like to take this opportunity to give you a brief summary of some of the things we are doing for the Ham fraternity.

First I would like to point out a little of our past history.

The club was organized in 1959 and incorporated in the State of New Jersey as a non-profit organization.

Since 1959 we have had a record of continuous activities, with regular meetings and other club activities. Though we are not a large club, if you will look back through the pages of QST you will find our records in most ARRL events. You will find that we have participated nearly every year in most ARRL sponsored operating events. (we have been an ARRL affiliated club since our inception.)

Each year we have been active in the Field Day event, and have sponsored activities connected with the DX contest, ARRL Sweepstakes and VHF Sweepstakes, not to mention the Novice Roundup and various other contests. Our club has for many years sponsored an Amateur Radio Emergency Corps and has supplied the nucleus of personnel for the CD-RACES program in Gloucester County.

In the past club members have put on Amateur Radio demonstrations at various schools and service organizations, as well as providing communications for various Police Departments during the Halloween season and has on occasion helped with annual clothing drives for Goodwill Industries of Southern New Jersey.

We have had a float in Woodbury's Halloween parade, and have put on exhibits at the 4H Fair and participated in Amateur Radio Week in Gloucester County.

We provide fraternity and friendship for our members. We supply Club QSL cards, at cost, to our members. Our club member identification badges are unique. We have a program that pays half of the application filing fee for club members that are successful in upgrading their operators license. We have a distinctive club jacket, and decals for your car and shack, along with patches for your jacket and or cap.

For prospective Amateurs each year the club runs code and theory classes that lead to the Novice ticket. We also have a technical advisory committee that can give assistance with technical problems that may arise from time to time.

There are two classes of membership available, the Associate membership for non-amateurs or persons not able to actively participate in the club, and Full membership for licensed amateurs.

The cost for Associate membership is a \$1.00 initiation fee, plus \$3.60 per year dues. For Full membership a \$3.00 initiation fee, plus \$6.00 per year dues.

We are sincerely interested in helping you get the most out of Ham Radio and feel we can do this best by having you join our club."

Truly yours,

Harry McCormick, WA2SEA
Recording Sec. G.C.A.R.C.

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RAMBLINGS OF A GHST WRITER

The frogs had diligently endeavored but utterly failed to get one of their number out of a rut. The next day they were startled to see him hopping around, for they felt that he was stuck in the rut for good.

He told them, "I couldn't get out, but a truck came along and I had to." Honestly, couldn't you really do more for our club?—

Engraved on an old sundial are the words, "Today is the tomorrow you worried about yesterday."

To make an interesting QSC, one must get away from the hackney procedure of talking only about your rig and the weather. Most of the hams get stuck for something to talk about when they have covered these subjects. You will find out that if you start to talk about some trips that you have taken or places that you have visited, you will bring up a response from the ham you are talking to along the same lines. Then he will happen to mention something that will ring a bell to you giving you an opportunity to talk on another subject. This will continue for quite some time (as long as conditions permit) and in the end your partner will say that the QSC was one of the most interesting one that he has had, and had no idea that you had been in contact for such a long time. Of course I am speaking of phone QSC's and not CW, for code can become monotonous after a while. (Editor's note: Really?)

Picture collecting of the other hams is also a nice sideline to go along with hamming. Haven't you wondered what the other person looks like? Some hams go so far to have their picture along with the XYL, if she has a license, along with the WSL. This is a nice way to kill two birds with one stone; you get the QSL and photo too. Other QSL's have pictures of the ham's vicinity and customs, thus enabling one to make a nice collection of picture cards along with the call letters. If you haven't tried this, see if you don't enjoy it when you start getting some in.

For the hams who want to protect and display their QSL's, write to the Tenn Paper & Box Co., PO Box 198, Gallatin, Tenn., and ask for the

EZ-IN 20 card Double Packet. Price about \$2.00 for six displays. They are easy to mount on the walls with Nail-Less picture hangers. There is no better way to show off those cards. So many fellows wanted to know how to show off their cards without defacing the walls and keeping them clean; well here's the best way.

Looking out the window of my shack, I just saw my two reporters latching onto a star and trying to trail that darn comet around the moon. I bet when they report back to me next month they will have some tales to tell.

73 es CUL....Ghost Writer

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DX

I hadn't intended to hit the subject of QSL's until a later date but our February Ghost Writer directed some remarks to our readers which prompted me to shed a little light on the subject.

He complained about the time it takes to receive QSL's via the bureau--he apparently has not stopped to think about the time consuming process it really is. Here is how it works!

The DX station you work waits for card quantity before sending your card to his local bureau--the local bureau waits for larger quantities before mailing via surface mail (the slowest and cheapest) to ARRL, Newington, Conn. They are sorted at ARRL and again packaged and sent to your call area bureau. After their receipt they are alphabetized, date-stamped and matched with your waiting envelope. Only after enough cards accumulate to fill your envelope are they mailed to you.

It is not unreasonable to wait 5 months to a year for your card--maybe even longer when you understand the system.

No one ever claimed QSL bureaus to be the fastest way to QSL--to blame ARRL for their slowness is simply unfair.

Another point I would remind our Ghost Writer and members of is that the club has late Callbooks available at every meeting for member use. No need to wait for a DX card to come to you before mailing his--either QSL via his bureau or get his QTH from the club Callbooks!

QTH's of currently popular DX stations are also available every month in DX columns of QST and CQ mags, to name a few.

QSL bureaus should be considered in their proper light--if you are in a hurry to get that QSL from your latest DXCC country--there are better ways to go. The next issue will have the answers!

Incidentally the new air mail rates are as follows;

	U.S.	13¢
Central and South America		21¢
Europe, Asia and Africa		26¢

I understand a great circle chart--a map 36" by 42" titled "Azimuthal Equidistant Projection of the World" centered on N.Y. City is available for 40¢ from the U.S. Department of Commerce, National Oceanic and Atmospheric Administration, Rockville, MD., 20852. The map is listed as number 3042.

Latest word has it that FIVE-BAND WAC is now available from ARRL with 6 band endorsement.

ANSWERS TC HAM PUZZLE

¹ P	A	S	² S	I	³ V	E	/	¹⁹ I	N	⁴ P	U	⁵ T	/	/	/	/	/	/	/
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A	/	/	S	/	/	/	/	⁷ M	/	/	²⁰ W	A	T	T	/	/	/	/	/
²¹ S	U	⁶ S	C	¹⁰ E	P	¹¹ T	A	N	⁸ C	E	/	A	/	/	/	/	/	/	/
E	/	H	/	L	/	O	/	/	²² A	⁹ R	R	L	/	/	/	/	/	/	/
/	²³ T	U	B	E	/	R	/	/	P	/	F	/	M	/	/	/	/	/	/
¹² B	/	N	/	C	/	²⁴ O	S	C	A	R	/	²⁵ L	O	G	/	/	/	/	/
²⁶ F	E	T	/	T	/	I	/	/	C	/	/	/	N	/	/	/	/	/	/
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³⁶ Q	R	⁴⁰ Q	/	³⁵ T	U	N	E	/	¹⁸ B	/	A	/	R	/	/	/	/	/	/
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!!!!STOP PRESS!!!!

Just got word that the Friendship Net will meet on the 7th of April at 1:00 PM Local Time around 7.265 MHz. Hope that as many of the club members as possible can check-in.