

Crosstalk is published monthly by the  
GLOUCESTER COUNTY AMATEUR RADIO CLUB

THE CROSSTALK STAFF

EDITOR:	Ray Martin, WB2LNR
HAM INTERVIEW:	Gurdon Cooper, W2PAX
CONTEST CORNER:	Ken Newman, N2CQ
LES BELLES:	Rose Ellen Bills, N2RE
DX:	Wayne Wood, W2SUA
ARRL BULLETINS:	Della Parker, W2AFZ
TYPIST:	Bill Frambes, WB2FJE
PRINTER:	Gary Hitchner, WA2OMY
CIRCULATION:	Mark Wilson, WB2OSQ

GCARC OFFICERS, DIRECTORS & TRUSTEES

PRESIDENT:	Herb Schuler, K2HPV
VICE-PRESIDENT:	Bob Meis, K2JRU
CORRESPONDING SECRETARY:	Della Parker, W2AFZ
RECORDING SECRETARY:	Steve Blasko, W2TDS
TREASURER:	Rose Ellen Bills, N2RE
DIRECTORS:	Jack White, WA2MEM
	Steve Asay, WA2AXJ
	Bill Bachman, WA2VEE
	Mark Wilson, WB2OSQ
	Jack Kessel, WA2VCZ
	Rich Netherby, WB2OCR
TRUSTEES:	Wayne Wood, W2SUA
	Milt GHoldman, K3WIL
	John Kull, WB2GKH
	Jim Buzby, WB2GJH

CLUB NETS

2 M FM	78-18---Sunday, 8:00 PM Local Time
6 M AM	50.9----Sunday, 8:30 PM Local Time
10 M RAG CHEW	28.8----Friday, 9:30 PM Local Time
15 M SLOW NET	21.175--Friday, 7:30 PM Local Time

JUNE MEETING: WEDNESDAY JUNE 1ST, BEGINNING AT 8 PM. Program SEE BOG MEIS.

\*\*DEADLINE FOR SUBMISSIONS FOR THE JULY ISSUE IS SUNDAY, JUNE 18TH, 1977.  
PLEASE MAIL ANY CONTRIBUTIONS TO RAY MARTIN, WB2LNR

Buzz Anthony, WN2WFZ, took the time to send me a follow-up article on the now-famous Jack Anderson column. I had not seen the second article in the paper and I thank you, Buzz, for thinking of me and seeing that I am kept informed.

A three-member committee will be formed to work out the details for our new "Founders's Award" in memory of Van Turner. As I said at the last meeting, these three people should agree to disqualify themselves from becoming a winner of the Award for either 2, or 3 years--depending on how long they serve on the Committee. If you want to be a part of developing this important club function, please contact me. I would like to name this committee either at the June meeting or within a few days after the meeting, so I would appreciate your calling me promptly if you wish to serve.

We have formally responded as a club to the FCC dockets 21116 and 21117. Any members who wish to respond individually to these dockets or other matters before the commission are encouraged to do so. I might suggest that "form letters" are a waste of time--no one is going to read them. Write your own letter, express your own ideas in your own words, and you will be heard.

Field Day is June 25 and 26. Elsewhere in this issue you will find we have decided on a new site--not Alcyon Lake in Pitman--but a site that should prove better than Alcyon. I'd sure be happy if a lot of you turned out to help make Field Day a big success.

Wayne Welsh's AREC excursion to the Explorer Scout's Canoe Race was a big success. Thanks to all who helped for a great job.

We're gonna have a club picnic on Sunday, August 14. You'll see Chairman Ray Martin's details in this issue.

Herb--K2HPV

NEW FIELD DAY SITE:

The location for FD has been changed. It will now be held on the weekend of June 25 and 26 on the campus of Gloucester County College. The exact location is on an old golf driving range (see map). This field can be located by the small building and light poles.

The Field Day committee is providing sandwiches which will be available through the entire weekend. If someone would like to bring out solid (or whatever) Saturday evening, I'm sure it would be appreciated. Don't bring these out too early as we have no way to keep them cold.

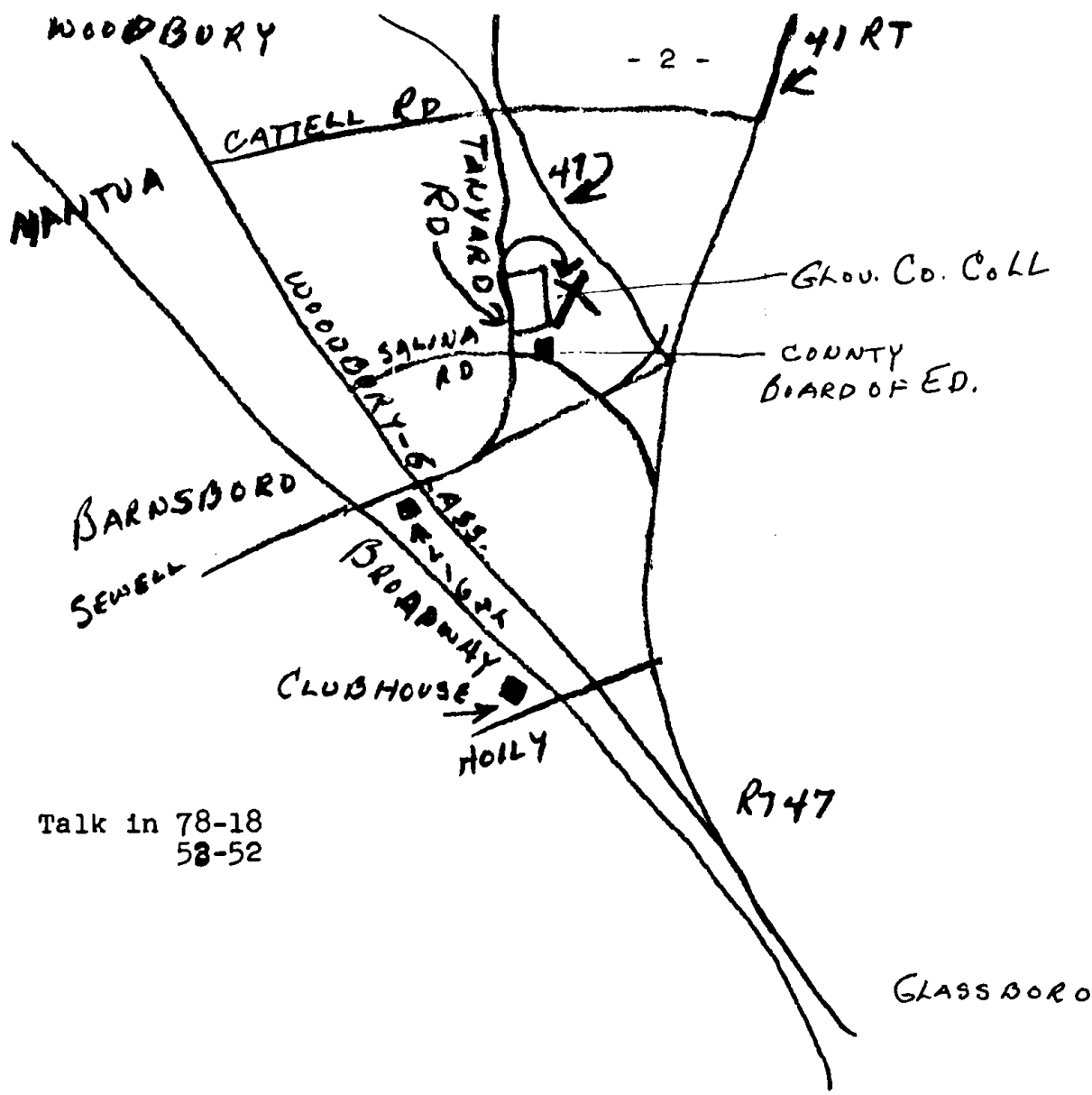
You will probably want to bring out some soda but alcoholic beverages are not permitted. Also, bring some plastic bags as there are no trash containers on the field.

Remember, we need help Saturday morning to set up, but we also need help Sunday about noon to take things down. See the Band Chairman to help with operating. A list appeared in last month's Crosstalk.

Every member should make an effort to set out to the FD site to lend a hand or just watch. There will be a Novice station (which Tech's can operate) and they will need operators.

It should be a good weekend as I have put in an early request for good weather.

73's Steve, WA2AXJ



Talk in 78-18  
58-52

PICNIC 1977:

The event will take place on August 14, at Bellmawr Lake Park. Tickets will be \$5.50 per person. This will include all lake privileges, kiddie rides miniature golf, volley ball, horse shoes, volley ball. The picnic area will be under the threes and roped off for us. There are barbeque pits and enough picnic tables to go around. Rest rooms are close by. There is an amusement pavillion with pin ball machines and juke box for those interested. Plus a snack bar. The affair will be catered by the lake personnel, which means all you have to do is be there. The food will be prepared for us as we wish. This will include: 300 hamburgers, 150 hot dogs, all home made rolls, 200 ears of corn, 15 watermellons, 2 drums of potato chips and 2 drums of pretzels, tablecloths, all paper goods, plates, cups, napkins, salt, pepper ions ketchup, pickels, mustard, relish, forks and spon and knives, everything. In case it rains, we will be protected by the trees, and if that isn't enough there are pavillions no more than 20 feet from where we will be. The club will pitch in and purchase a ½ keg of birch beer for the ladies and kiddies, and for you people who like beer we will also have a ½ keg or 2 of real beer. Since the real beer doesn't come in the package deal, we will probably be selling it at a very nominal fee, (which is only fair to cover cost)., since booze is permitted on the premises, you may also bring what you like. Also, children up to 3 will be getting free. This is a very good deal. If you sit down and figure

PICNIC (Cont'd.)

out just how much you would probably have to spend for everything for a nice picnic you really come up with a few dollars spent. Plus all the time and effort getting everything ready, packing it out to the car, then setting up everything once you have arrived. This way, its one price, and come-as-you-are. Hopefully tickets will be available at the next meeting. Please don't forget to ask friends to come no matter what the affiliation. Yuk it up gang; the more the merrier. A map will appear in next month's issue for those not knowing how to get there. Let's all do our best to make this an enjoyable and memorable event.

WB2LNR & W2SUA

JUNE PROPAGATION FORECAST:

- 1.8--2.0 Mhz. Poor--Heavy noise. Daylight hours--non usable. Evening 4--6 PM short distance.
- 3.5--4.0 Mhz. Local due to heavy noise level. Summer time effect--3.5--3.55 possible, hour before to hour after Sunset--North East 3500 to 4000 mile multipath. Verticals may work out better than horizontal. June 15-18 possible long patch early morning--Flare activity.
- 7.0--7.3--Daytime 600-1000 miles--Evening sporadic--Look for Far-East openings around 1400--1600 (EDST) around mid June. Europe will be spotty. Follow the Sunset and Sunrise. Do you look for Africa on this band. Skip zone area is to large. If antenna orientation is correct, chance for Mid-Atlantic oecania DX (St. Peter & St. Paul Rocks, Ascension Island.)
- 14.0--14.45 Mhz. Very good--Sun rise--Sun set All areas--North-South and East-West--Best results for Asia 1600--200 EDST. Do not look too much for phone. CW is best. Weak stations will be W, K or Nevethess. 200 miles. F-2 layer is will be very compressed and skip will be excellent all month. South Pacific looks good around middle of the month. If expected Sun storm develops as it now looks--Field day should be wild.
- 21--21.450 Mhz. Spotty DX. Central Asia during the day is no warble. May be very in-out. Australia early morning. Evening it should close down. When central and South America expected to come in around 1500 to 1700 they will be very strong. Good chance around Field Day to work little America. You will need antenna orientation ability.
- 28--30 Mhz. Very sporadic getting better as year progresses and cycle; 21 becomes older. Fairly good Zurich Sunspot number, sun's north latitude. If any DX look for North-South conditions. Daytime only.
- 50-54 Mhz. You should go crazy this month. Sporadic E skip will ve very prominent, and with a highly compacted, over ionized F-2 layer DX up to 2500 miles may be expected. Expect an Auroral effect around June 15--21. It may happen, if so, stay home from work. You should be able to WAS. Cycle 21 is going to help us. Things are going to get better. Look for storms, good for 300 mile DX. Follow the fronts on TV newcasts.
- 144-148 Mhz. You name it, you are going to get it. F-2 DX will start around first week of June. You should do 250-500 miles early evening. Unstable part. Watch for surprise for early morning on Simplex, CW and SSB frequencies. Maybe we can ask Barnsboro to shut down some morning from 0500 to 0700 on Saturday the 18 and 25. Tropospheric

PROGATION FORECAST (Cont'd.)

bending will give excellent coverage just prior to weather front. Especially when East coast is having a hot-humid time. A good contact can be made 1000 to 2500 miles. Chances of getting to the Gulf Coast are good if a Bermuda high gets tuck for a couple of days and hot moist air comes up from the Gulf. There will be many days when standard operations will be happening. Don't give up hope. Look for storm fronts. Follow the fronts TV weather then do your thing. Rotary beams will pay-off.

As cycle 21 progresses during the coming year and the Flux index keeps increasing the higher frequencies will open up.

Sun spot activity is important, but season changes are very important. Other solar action give us very pronounced effects. Solar flares manifest themselves is higher banding of the F layer and also extra ultra violet radiation which will give sporadic E layering and high concentration on North-South earth's magnetic flux lines--and SID's (Sudden Ionospheric Disturbance) will appear and when they do, for a short time all kinds of band openings will occur.

As summer approaches, on the 40 and 20 meter band look for multi-hop effect. Do not be surprised if you hear stations 500 to 700 miles away and then nothing until 1400 then 3000 miles. This may happen during the daylight hours.

K2JF

CONTEST CORNER:

I.A.R.U. Radiosport Championship--July 9/10, 1977 Work anyone and everyone once per band on whatever mode. Bands from 160 through 2 meters. Work DX or locals. Logs should be available at the June meeting, along with complete rules. The club will award a certificate to the highest scoring club member, in addition to the ARRL awards, if participation warrents.

NJ QSO PARTY. This event will take place near the end of August. Exact date is not yet known. It will be a good chance for all the newly up-graded hams to try their new CW skills out. N.J. stations are in demand, much like DX usually is. Logs for N.J. QSO Party will be available at the June meeting, and from the contest chairman thereafter. Club award if participation warrents.

73 N2CQ

FCC NEWS:

According to Broadcasting Magazine, the FCC's Office of Plans & Policy has produced a report on "Spectrum alternatives for personal radio services" that outlines three target sources for new CB frequencies. They are 26.95--26.96 Mhz. (International fixed service), 27.54--28 Mhz. (Government), 29.80--29.89 Mhz (Internal fixed), 222-224 Mhz. (Government/Amateur), 894--902 Mhz. (Land mobile), and 928--947 Mhz. (Reserved/Amateur). According to the FCC study, the frequencies can be re-allocated for CB usage without causing existing users to lose service or experience overcrowding.

One might recall the FCC made a similar statement to the legitamate users of 27 Mhz. before allocating their frequencies to CB channels 24-40.

The FCC study says the new service would pose few "severe interference" problems to television reception, and that equipment costs would be reasonable. The study says that additional research should be done before a final

FCC NEWS (Cont'd.)

"reasonable." The study says that additional research should be done before a final decision is made--but that is t in the works. Research is underway on interference analysis on each band to other services, and international treaty obligations. Cost studies on equipment, and radiation hazards are also underway.

Also in the CB vein, Texas Instruments jumped on the CB manufacturers bandwagon, with a built-in telephone system. With one of their radios, a CB'er may punch in a 5 digit code on a touchtone pad, and activate a similar radio using those digits. By using call numbers, a system similar to the home telephone could be effected. The radios will appear on the market this fall, and are SSB equipped.

Bob Spain, WB2RVE

LES BELLES:

by Rose Ellen, Treasurer

With summer well on the way we begin to think about preparing food to be served out doors and also to large groups. I would like to share with you something that went over big with a group of 20 people I recently entertained in my QTH (thanks for the nice day we could all be in the backyard) and almost everyone there asked for the following:

SPICY APRICOT MOLD

Drain one 1-pound can apricot halves and one 8-3/4 ounce can pineapple tidbits, reserving syrups. Combine syrups with 2 tablespoons vinegar, 1 teaspoons vinegar, 1 teaspoon whole cloves, and 4 inches stick cinnamon; bring to boil. Simmer 10 minutes; strain; add hot water to make 2 cups. Pour over one 3-ounce package orange-flavored gelatin; stir to dissolve. Chill till partially set.

Fold in WELL DRAINED Apricot halves, halved, and pineapple. Pour into 6-cup ring mold. Chill til ALMOST firm.

Meanwhile, dissolve one 3-ounce package orange-flavored gelatin in 3/4 cup boiling water; stir in 3/4 cup apricot nector. Chill till partially set; whip till fluffy. Swirl in 1/2 cup dairy sour cream. Pour over first layer. Chill at least 8 hours.

Trim with Frosted Grapes: Brush grapes with slightly beaten egg white; sprinkle with sugar; dry on rack. Serves 8.

In between the large amount of cooking and entertaining I have been doint I will need a QSL manager as everyone wants my new QSL card. So, there's a stalk waiting to be sent ou. Anyone in the club interested? Well, after a QSO you can have one with N-2-R-E. on it.

73's Rose Ellen--N2RE

MANASSAS HAMFEST:

Sunday, June 5, 1977, Prince William County Fairgrounds 1/2 mile South of Manassas, Virginia, on Route 234. All of the normal hamfest activities. Fantastic prizes again this year. 1st Price--H.F. SSB Transceiver (TS-520 or equivalent) 2nd Price--200 plus Mhz frequency county, 3rd Price--Bird Model 43 wattmeter with element, plus many, many more prizes.

HELP TO REVOLUTIONIZE AMATEUR RADIO COMMUNICATIONS:

From AMSAT  
Newsletter.

An exciting new phase in amateur radio is about to begin, one that will affect all of us. OSCAR satellites of the new AMSAT Phase III series will soon revolutionize long-distance amateur communications in the same manner that earth-bound repeaters have completely transformed local communications by dramatically increasing communications reliability while simultaneously reducing the cost and complexity of individual amateur stations. The first Phase III spacecraft, now scheduled for launch in 1979, will be available to most stations about 17 hours each day, and will make communications possible between stations separated by distances of up to 11,000 miles.

Amateurs interested in DX, rag chewing, contests and traffic handling will find Phase III satellites as easy to use as the whimsical ionosphere and their favorite band. AMSAT-Phase III spacecraft are being designed so that output powers of the order of 50 watts (CW or SSB) at 145 or 435 Mhz. and a small antenna resembling a TV antenna will usually outperform an HF band KW and tower-mounted beam. In effect, each satellite in the Phase III series will provide a new band with capabilities for worldwide contacts, using by hundreds of amateurs at a time.

AMSAT-OSCAR's 6 and 7 have shown that long-lifetime amateur satellites are possible but, like all low-altitude satellites, they are greatly restricted in terms of range and access time, and they require accurate tracking. Phase III will eliminate these constraints.

But AMSAT needs your help to make Phase III a success. Hardware costs for the Phase III spacecraft are estimated at \$200,000. (A government or commercial satellite providing similar performance would cost about \$10,000,000.) While this figure may sound very large, once the system is operational the cost per user will actually be less than many of us are currently contributing to local repeater groups. In addition, individual users will find that their home station investment can be significantly decreased. With the rapid growth in amateur radio the question really is: Can we afford not to go ahead with the Phase III program?

What you can do to help:

1. Join AMSAT as a member for \$10 per year in support of the amateur satellite program, or become a life member for \$100.
2. Volunteer your services for engineering design, construction, fund-raising and other Phase III activities.
3. Sponsor a piece of the action by sponsoring part of the Phase III satellite. Sponsor one or more solar cells (\$10 each), battery cell (\$200), solar panel (\$2,000), transponder (\$5,000), onboard micro-computer (\$8,000), or apogee rocket motor (\$10,000). Donations are tax-deductible under Section 170 of the IRS code. Sponsors will receive a certificate suitable for framing, acknowledging their specific contribution. Contributors of \$1,000 or more will have their names inscribed on a plaque included in the spacecraft orbiting around the earth.

Please send your contribution and membership dues to AMSAT, P.O. Box 27, Washington, D.C. 20044, U.S.A.

Invest in the future of Amateur Radio!