

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

THE GROSSTALK STAFF

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NET NEWS:	Jack White, WA2MEY
ARRL BULLETINS:	Della Parker, W2AFZ
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CLUB NETS

6M AREC	Stopped meeting for the Summer
10M Rag Chew	28.8--Fridays, 9:30 PM Local Time
Novice AREC	21.115--Mondays, 8:30 PM Local Time
Friendship	7.265--Every 3rd month, 3rd Sunday time and date subject to change with notice.

NO CLUB MEETING IN JULY OR AUGUST. DON'T FORGET THE PICNIC AT LAKE GARRISON AUGUST 3, AND OF COURSE FIELD DAY BEHIND ALGON LAKE ON JUNE 22-23. FD STARTING TIME IS 2:00 PM LOCAL TIME SO GET OUT THERE EARLY!

DEADLINE FOR ALL SUBMISSIONS FOR THE AUGUST ISSUE IS SUNDAY, JULY 21.
MAIL ALL ARTICLES TO THE NEW TRIAL EDITOR, MARK WILSON, WB2OSQ.

Crosstalk, July, 1974

1.

TV SHOW AT GCARC

A real live TV show (slow scan variety) was the featured attraction at the June 5 club meeting, compliments of producer, director, and star Joe, W2PH. W2PH presented GCARC's first ever program-demonstration on slow scan TV and, as was expected, Joe gave us a real FB performance. The theoretical aspects and technical complexities were presented in such a way as to give us the overall picture without leaving anyone behind in the dust. Joe had a series of color slides which helped us to understand the subject in addition to illustrating a very FB TV ham station (W2PH's). But perhaps the highlight of the evening was the live demonstration (via tape) featuring W2PH's Robot monitor.

We certainly thank Joe for a most fascinating show and for a much better appreciation of amateur TV and what is required to get underway in this area.

Incidentally, there will be a QSL card contest at our next regularly scheduled meeting in September. More will follow in future Crosstalk issues.

73's

Doug, WA2NPD
Program Chairman

* * *

DE WB2FIF...

This being my final issue of Crosstalk as far as editing is concerned, I figured it would be appropriate to say a few words about my 6-month trial period as the editor of our paper.

First of all, I would like to express deep gratitude to the other members of the Crosstalk staff for their cooperation in getting this paper to you. (I must admit I did have problems with a few concerning the deadline and whether or not these few were going to write a full article in 12 hours notice, but you know who you are, HI HI.)

I very much enjoyed my 6 months on this job, and I certainly hope that you were satisfied with the work that I did. I would also like to take this opportunity to welcome Mark, WB2OSQ, who will be your editor for the next 6 months, and wish him the best of luck during his trial period. I really hope that whichever of us did the better job will take the editorship permanently, as I would like to see this paper as good as it can be

73 and enjoy your Summer,
Bill Conrad, WB2FIF

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CORRECTED FD LIST

It seems that our FD chairman, Rick, WA2OLS made a few errors on the list of FD band chairmen in last month's Crosstalk. The following is the correct list:

160 WA2AXJ
75 WB2FJE
40 WB2OSQ
20 WA2OMY
15 WB2FIF
10 WB2FIF
6 WB2FZY
2 WB2DBS, now WA2VOY

* * *

GHOSTWRITER APPARENTLY QUILTS

Sorry to say it, but it seems that our faithful ghostwriter has decided to stop contributing his/her intriguing articles. Whoever you are, please reconsider. Your articles always proved to be very worthwhile reading, and the lack of them will certainly be a great blow to our membership.

Incidentally, should the above appeal not make our ghostwriter reconsider, anyone interested in taking the job please start sending anonymous letters to our new editor, Mark!

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CLUB CONSTRUCTION PROJECT

The project chosen for construction by the members at the last meeting was the 50.9 MHz monitor receiver. Ten members indicated that they would participate in the project.

We would like to have answers to some of the questions listed below, from all who intend to participate, so that a suitable design can be chosen. Please reply to Ken Newman, W2FBF in writing or by phone as soon as possible if you plan to join the project.

1. How will you use the receiver? (portable, shack monitor, etc.)
2. What is the dollar cost limit in your case?
3. What skills, material, or facilities can you contribute? (test gear, metal shop, components, etc.)
4. Do you have a design which suits your needs?
5. Indicate your order of importance of the items below in the design of the receiver:
Portability (solid state, batteries). Simplicity, low cost, performance, (sensitivity, selectivity), squelch, noise limiter.

I mentioned at one meeting that I had a receiver which worked pretty well in this application. It has not been completely changed over to solid state as yet, however. At present it has tube IF and front end, with solid state squelch, noise limiter, and audio sections.

The cost of a completely solid state version of this could be around 50-60 dollars unless we have some good parts sources. The other end of the scale is the superregenerative type of receiver, solid state, of a type similar to the one used in the Heath Sixer which is tube. It could be done for 15 to 25 dollars or less. This type of receiver is simple, easy to operate, portable, quite sensitive, has some inherent AGC action and noise limiting action, and as you can see, would be inexpensive.

On the other hand, this type of circuit is not very selective and I am not sure any squelch circuit has been developed for this type of receiver.

If anyone knows of one, please let me know.

What is your pleasure?
de W2FBB

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NEW MEMBERS

GCARC welcomes Bob Spain, WB2RVE of Sicklerville, Jim Esposito, WA2LYZ, Barrington, Larry Bakely, WN2VKG from Pitman, and Bob Ruple, no call yet, who hails from Wenonah. Best wishes to all of you, and we hope you enjoy our club.

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MEMBERSHIP LIST CORRECTIONS

Please make note of the following corrections for the membership list printed in last month's Crosstalk:

Ray Metzger's address

Steve Blasko's phone number Steve tells us
that if you're interested in ordering some good pizza, try
calling the number listed.

Wayne Welsh's call is now WA2VOY, although for the address
given, it's still WB2DBS.

The prefix of Bill Frambes' phone number

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CLUB JACKETS

Anyone interested in ordering a club jacket, contact Rich Netherby, WB2OCR. If enough members are interested an order will be made up. At least ten orders must be received.

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BASIC ELECTRONICS

Pure resistance let's consider
There's no need to write a tome
If one volt will pass one ampere
The resistance is one ohm.

There are many calculations,
Some would tie our brains in knots
But let's end with one for power
Amperes squared, times ohms is watts.

(continued)

Take a pair of like resistors,
Place them first in single file
For the total of the circuit
Simply add them with a smile.

Parallel we shall now place them
Total does not neatly come
Multiply one by the other
Then divide this by the sum.

From LERC Bulletin, W6DDB, Editor.

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LES BELLES

At the annual Buckeye Belles' meeting held in Ashley, Ohio, March 31, 1974, Eila Russell-WA8EBS, President of YLRL made the following speech. I am sure it will prove more than of general interest to all:

FIFTY YEARS! That really is a long time to wait for a ham license, but that's what it took. I probably wasn't like the girl in this story, but maybe I really was-that's for you to judge. A girl was sitting with her boy friend parked in a car in a beautiful garden cemetery. A burly guard approached them as they were deeply engrossed in each other and shouted "hey there, start up that motor and get out of here, they'll shut those gates and you'll be locked in over night. Didn't you see that sign on the gate 'Closed at 5:00 PM?' The girl piped up "But we didn't come in that gate. We came in over here and the sign on that gate says, "Get a lot while you're young."

Anyway it took me fifty years to become an amateur radio operator and it's a wonder that I ever did, and astonishing that I even married one, considering my introduction to the art. Oh, I did learn the code to earn a Girl Scout badge, but that in my estimation had nothing to do with amateur radio, or wireless as it was generally called then.

My very best boy friend, Jim, was a wireless operator, but that wasn't the reason I thought he was special. I recognized " .. -.. --- ...- -.- --- ..- " but I hadn't any particular use for the other letters in the alphabet.

Well, when Jim came to call, I never wanted to appear anxious. My mother always said "Don't be a ripe peach, ready to fall in his mouth. Be the most luscious, beautiful, desirable tantalizing one on the top of the tree, that he has to expend real effort to reach." So, accordingly, I would wait upstairs until I heard the call "Eila, Jim is here," and I would answer "I'm almost ready I'll be down in a minute." So, Jim occupied the interval getting acquainted with my father and little brother.

Since radio was Jim's hobby and a new scientific interest, the conversation took that trend and Jim explained to my father the art of making a coil on an oatmeal box with a slide tuner and a chunk of galena with a cat's whisker. My Dad said "Galena, what's that?" Jim explained that it was LEAD SULFIDE and it was hard to get a good piece, but maybe he could find one to start my young brother. I appeared about then and we went out for the evening.

When we came home and stood in the shadows on the front porch

cozily saying a few confidential words, our front door opened suddenly and my father, holding something with a pair of tongs heaved it mightily with a few choice words to accompany it and it hurtled past us in the darkness. Startled we watched it fly by and clatter way down the walk to the sidewalk. Jim said "that looked like a tin can", and he went to investigate. Indeed it was, and it was red hot and it smelled like sulfur. Jim said HMMMMMMMMM, hot lead and sulfur fumes, I guess I'd better not come in tonight." And it surely was a wise decision. My father had tried to make Galena by melting lead and sulfur and it took some time to air out the house and cool off the head of the family. It was a touchy subject for a while, but love conquers all, so Jim didn't get tossed out like the hot, malodorous tin-can.

My next memory of amateur radio was visiting Jim out at Camp Roosevelt at Perry-on-the-Lake. He was swimming instructor and radio operator for the camp every summer for several years. I loved those long trips on the suburban trolley car to Painesville, Ohio meeting Jim who was waiting for me in the camp lake. The camp director and his wife had a guest room for me in their mansion house, which was an old Post Inn, and consisted of a large, camp council room with fireplace and trophies etc. Upstairs on the third floor was a ham shack. When we first climbed the stairs to the attic, it was dark and had a musty smell. I thought of bats and held Jim's hand. He would walk across the shack and open a board, drop window, which was practically the entire side of the radio shack and lifted right up from the floor and hooked onto the rafters. We would sit there, looking out over the fields, woods and lake and just drink in the beauty as Jim got the day's weather report for the camp. It was wonderful to me but radio really wasn't the reason. Jim built all of his gear and got Cleveland through the air, but to me it just meant the HE was wonderful.

Then came his success in being heard by Paul Godley in Scotland-- 500 miles inland in the U.S.A. and then across the Atlantic Ocean-- on the very first DX ARRL transatlantic test. This feat was with Jim's own homebrew gear also and this was a great achievement in anyone's book. Jim is W8BU.

For the first seven months of our marriage in 1922-23, we lived in an apartment with an in a door bed which turned the living room into a bedroom at night. There was a kitchenette and dinette at one end, but the dinette became the radio shack, so a gateleg table in the living room made that serve in another capacity also--living room, bedroom and dining room. But the radio shack was essential.

In those days the landlords didn't object to amateur radio in their apartment houses. We were on the third floor, and to get an antenna on the roof meant climbing an iron ladder up the apartment building wall which started up a long reach from the railing of the back outdoor iron steps, already three floors up with an open well to the ground below. "It still makes me dizzy to think of it". Climbing up was precarious, but transporting wire and tools made a hazardous project out of just reaching the roof. I managed it once or twice and I can assure you I got more of a thrill out of that than I ever experienced from any roller coaster.

For the first few years, Jim worked all day, went to Law School and studied all night, but even with this busy schedule he found time to build radio sets and sell them to swell the exchequer. For a while after the superhetrodyne sets came on the market, he was also in demand to come over and tune the set, for people who hadn't the least idea what it was all about, but who had enough to buy the best.

Through all the years of my husband's activity in radio, it never occurred to me it was a field for my endeavors until 1962, fifty years after my OM had started. At this time he joined a ham radio club, whose wives accompanied them to monthly meetings. The first meeting that I attended, two of the wives who were also hams, joined the business session. The others, called the non-conformists, were relegated to the kitchen, where chattering like magpies, they cut out decorations and pasted trimmings on tray doilies for a nursing home (which wasn't exactly my dish) followed by laying out a smorgasbord for the crowd.

At this affair, schematics, code information and bulletins were spread out on a table for the hams to take home for study if they wished. A neighbor ham who had come along in our car picked up material for a son he hoped to inspire. On the way home my OM and his neighbor stopped at several QTH's with antennas looking for a ham friend who had moved to a small town which we passed through. As I sat cooling my heels while they appreciated each shack I looked about for something to pass the time. My neighbor's literature answered the purpose and as I glanced over it, I thought "I used to know the code about 50 years ago when I was a Girl Scout, I wonder how much I remember?" I guess I still knew "I love you Jim" but some of the other letters needed refreshing.

(to be concluded in a future issue of Crosstalk)

73's

Rose Ellen

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WHAT'S UP, DOAK???

The following is a hidden word puzzle. A total of 38 ham and electronics related words are hidden horizontally, vertically, diagonally, written either forwards or backwards. See how many you can find. Due to lack of space the answers will appear in next month's issue.

A N T E N N A S Y N C U B K Q U A D F
 T M A G N E T R O N A E R E T I M I L
 T H P H A S E G K X T J Z Q U D S S R
 E O P L V H R O E A H O A K B O N C E
 N Y A G I I T Y Z C O U P L I N G R I
 U E Z E D F R E E H D L D Y Y N S I F
 A N T S I U I Q N Y E E H S E E I M I
 T T A W C W O E E X V T A T C D S I L
 I E S E O J D A R I V I R R N V O N P
 O M P E N R E R A U B X M O A O O A M
 N I H P C K K T Y P A E O N D I N T A
 W T A I H O I O S Q A X N J E Y F O E
 L T R E S O N A N C E U I S P P N R R
 Q E U I N L K D F I F O C Y M H N E P
 D R U B A C K W A V E L I M I S C A F
 O S C I L L A T O R E A C T A N C E I
 M O D U L A T I O N Y O M Y F J E M E

ON MAY 26th & ETC.

On Sunday, May 26th, we (GCARC & GCAREC) were called upon by Goodwill Industries of Southern New Jersey, to provide communications for the final day of their first major fund raising project.

A plan conceived in advance of that date, called for us to be able to provide point to point communications, along the North Shore of Cooper River Parkway. Also to establish a demonstration station, to acquaint the public with Amateur Radio.

As it turned out, we didn't accomplish much more than getting away from home, family & etc. for a nice days outing. But at the same time it pointed out many things that are of interest and raised quite a few questions that will eventually be answered as time goes on. Before we go into the questions and answers, or lack of answers, let's take a look at the situation we had on May 26th.

Through the efforts of many club members and AREC net members, we came up with mobile units capable of operating either 6 meters AM or 2 meters FM mobile, or 2 meters FM walkie talkie, also some mobile stations able to work 6 & 2 mobile at the same time and some stations equipped with both 2 meter mobile and 2 meter walkie talkie. Our club president, WA2MEM, turned out to act as liaison between our group and Goodwill officials. WB2GKH, W2TDS and WA2SEA turned out with 6 meter mobile capabilities, WB2GK and WB2DBS with both 6 and 2 meter mobile. WB2BZY had 2 meter mobile. K2JRU and WB2FJE had both 2 meter mobile and walkie talkie, Then along came WA2OLS with a complete demonstration station, covering everything from 80 to 2 meters, and two operators in the person of WA2OMY and WB2OSQ, also an extra 2 meter walkie talkie. For a back-up we had WA3CPD and W2PZX standing on frequency at their home station.

As it turned out the need for point to point communications were nil. Also the demonstration station was set up at a poor location in relation to other Goodwill activities, (at Goodwill direction), so that few people visiting Cooper River Park on May 26th had occasion to visit our demonstration station. WB2MSH, WA2LDT, WA2WOD, club member Frank Sommer, and several hams that saw us stopped to visit our setup and pass the time of day. So as Jack White said, "We all had a good days outing and lots of good fellowship, period."

But this event raises several questions in my mind and I'm sure in the minds of the people involved in this operation, among them:

1. Has 2 meters come of age as a means of point to point communications?
2. Should the club or AREC get more deeply involved in 2 meter FM?
3. Should we have a more closely knit organization with perhaps a coordinator for intra-club two meter activity?
4. Has 6 meters taken a back seat to 2 meters for this type of operation?
5. Is it time for the club to get involved in a 2 meter repeater setup?

and many more questions that I'm sure others have asked themselves.

Although not everyone has a liking for 2 meter FM it surely can not be ignored for much longer. It really has a vast potential for both emergency work and also for just plain hamming. Its time someone took the bull by the horns and came up with some answers, and I for one, strongly recommend that the club and its Board of Directors take some

Crosstalk, July, 1974

8.

action on this matter.

And while we are on the subject of 2 meter FM, whatever happened to RACES? They were the first people in our area involved with this mode.

If you think you have the answer to some of these questions, let's hear from you, make your position known. We have many means other than Amateur Radio of communications. What about the pages of Crosstalk? Or get the word to a member of YOUR Board of Directors or voice your opinions at the next club meeting.

I think I've said enough, perhaps too much.

Note: For more information on 2 meter FM I'd suggest that you read "Repeaters are Public Service Machines", Page 49, QST, June 1974