

SCHEDULE.....

CROSSTALK STAFF

Editor:	Wally Martin, W2PLD
Scuttlebutt:	Doug Gehring, WA2NPD
Technical:	Woody Frantz, K2AQV
Program:	Will Bachman
Traffic:	Bill Frambes, WB2FJE
Members:	Della Parker, W2AFZ
Correspondence:	Della Parker, W2AFZ

All material should be in my hands during the first week of the month preceding publication for Crosstalk. Emergency deadline is the third Friday preceding the publication.

Meetings are held the first Wednesday of the month in the Pitman Borough Hall, 3rd floor; North Broadway, Pitman, N. J.

The program for March will be an excellent one pertaining to the weather. Everyone talks about it, but no one ever does anything about it is an accepted quote. But this program shows you that someone does do something about it. Come on out to the meeting and see just how it is done.

For anyone who is interested and has use for them, a company by the name WARREN-KNIGHT, 136 N. 12th St., Phila., Pa., puts out plates of JR. ELECTRONIC SYMBOLS. I have one of them DU-ALL #402 and they are very useful. They have many other types of plates that are used by draftsmen, also.

By way of the grapevine, I hear that more and more people are starting to take notice of the GLOUCESTER COUNTY AMATEUR RADIO CLUB. Interest is being stimulated; new members are being admitted; projects are starting to be completed; old members are starting to show up at the meetings. Now we know that you want to be a part of an organization that is accomplishing so much, don't you? You as a member have something that we need to keep this ball rolling. You belong to a radio club because you are interested in radio and electronics, and that is the way it should be. So when you are asked to participate, it isn't to put work on you but because you have that something we can use. Don't be bashful, and we can't stress that strong enough; ask questions if you want to know something, because I am pretty sure that we have enough members with the knowledge to give you the proper answers or help you with your problem. There isn't a ham no matter how smart he is, who at sometime or another doesn't have to seek assistance from books or other sources. As you read this paper, you will plainly see that even the newest member or the person with the most recent issued license are all respected as an equal bon-a-fide part of GCARC. We can present the cake to you, but YOU still have to eat it in order to get the taste.

NOW YOU KNOW

We thought as a novel idea, we would start this edition of "CROSSTALK" with something a little bit different, different in the fact that some of our younger members never experienced what we are talking about, but some of you older members remember them -- Pictures of famous persons formerly were placed in packages of cigarettes as a bonus. The most costly card is that of former Pittsburg Pirate shortstop Honus Wagner, who ordered his withdrawn because he disapproved of smoking. Wagner's cigarette card has been sold for \$250.00, according to the Guinness Book of Research.

Ed. note -- If only I knew that this would happen, because as a young boy I had several of his cards in my collection????

I DON'T KNOW HOW TO SAY THIS-----BUT----

you members who were not at our last meeting, missed a very interesting and terrific program on "The Maser" -- a very intricate subject made quite understandable and simply illustrated by an engineer from the Bell Telephone Lab. Insofar that as a large percentage of our members are not familiar with the "Maser", we thought that your curiosity would have been aroused and that more members would have attended than did. You ask any member who attended and saw this program about his reaction.

These programs are not just put on in order to fill up time, but with the idea that you, as an individual, will have the opportunity to get some knowledge that would otherwise be unavailable....and it's FREE. Our program chairman is honestly trying to come up with timely subjects for your interest. Won't you come out to our next meeting? We would be so glad to see you. Show Bill Bachman that you appreciate his efforts, as it is really a job to try and come up with interesting programs from time to time.

Note.....

Our Treasurer, Jim Peck, reports that his books have been audited and everything was in FB fettle. Of course, Jim wasn't worried anyway as he does a good job on the club's books.

For Sale

Like new and had very little wear...HQ-IIOA with clock for \$145.00 -- See Preston Weil, WA2TSZ,

FLASH.....

The following members have passed their General Exams and congratulations are in order --

WN2BVW -- Bill Farr,
WN2BVV -- Darrell Neron,

How about that! Two hams with consecutive calls pass their General at the same time. This may be a first. FB, Fellows keep up the good work, and try for your Extra.

The following fellows were visitors at our last meeting:

K2MJE -- Mario De Bellis,
WB2EUV - Ken Newman,
Chas. Hatch,

Welcome aboard, fellows, we were pleased to have you at our meeting and do come again.

The door prize for February was won by WB2SCK - Robert Baker,

ADS.....

Your editor would appreciate it if members would try to solicit ads for our paper to help defray the expense of publication. The more ads the better paper we can put out. The prices we have come up with are as follows:

A full page for six months or six issues.....	\$40.00
A half page " " " " " " "	\$20.00
A quarter page " " " " " " "	\$10.00

Show the paper to your prospective customer and tell him that he will receive a copy each month that his ad appears. The thought is that local advertisements from the surrounding communities would be better suited for our purpose than large commercial firms such as Radio Electric, Almo, etc. We feel that local merchants will avail themselves of this service if we can put out a good paper... So fellows, do your best, and lots of luck.

FLASH.....

Our corresponding secretary, Della Parker, W2AXZ, was on a vacation visiting her daughter in the Canal Zone. Her original plan called for a visit to Mexico City on her return trip, but, fate dealt Della another bad hand. It seems as she was preparing to board her plane in the airport at Balboa, C.Z., shee fell and broke her arm. Fortunately she made contact with a K5 YL who was a member of the intercontinental net who contacted her husband informing him of her misfortune and change in plans. Contact was also made with Tad Deuber, who met Della at the Miami

Airport during a brief stay over on her way home. At home now, Della is having trouble with her knees, that were injured during her fall. Della, all of the club members were sorry to learn of your misfortune, spoiling an otherwise delightful vacation. GET WELL QUICK. We always hate having to report illness or injury to our members, but as we want to keep in contact with each other, this is news.

We were pleased to see Doug Gehring WA2NPD out to our meeting, and know that he is improving from his recent hospital trip.

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What is an ABAC for CALCULATING ENSI/? If you can't find out look in the next issue for the answer.....

Is anyone interested in Facsimile work? There are a lot of these signals being broadcasted every day, and gives the ham a wonderful opportunity to experiment and use this source to work with. A lot of work needs to be done with this media, and here is your chance to have fun while learning something worthwhile at the same time.

HOT POTATO

Bill Shaw, WB2PV1, had a nice experience recently when he contacted the "WEST WIND" an ice-breaker, who happened to be at Little America, South Pole, KC4USA, and furnished a QSO between Mr. & Mrs. Warren, of Sewell, N. J. and their son who was aboard ship. Bill called the Warren's at 3:00 A.M. who immediately got dressed and came up to Bill's shack for an hour QSO. Needless to say, they were overwhelmed at hearing their son's voice. Just another service furnished by those hams who want to break up a TV show with TVI. We can't be all wrong.

NEWS

Be on the lookout for an exciting article soon to appear in the local papers and our own paper.....

Your editor, Wally, W2PLD, attended the 25th wedding anniversary of a famous six meter ham, Capt. Jack, K3OWY of Drexel Hill, Pa. on Saturday, February 3rd that was held at the Riverside Yacht Club, near Essington, Pa. on the Delaware. Who should we see there and sat at their table but Harry McCormack, WA2SEA and his xyl, Rita and Ray, WA2CUB along with his xyl.

There were 200 guests present most of them being hams and their xyl's. Food was terrific and lots of it. The orchestra was hot and let out with a lot of GO-GO music and Polkas. Sure had a lot of fun meeting hams that I had worked but never met, and also met several that I knew and hadn't seen for a long time. Our thanks go out to K3OWY and his xyl Marge, who I believe is K3FNX, for a most delightful evening, and we wish them continued martial bliss for it couldn't happen to a nicer couple.

FEEDBACK

A feedback system is one in which some function of the output of some part of the system is fed back as a secondary input to the system so as to effect it's own value. In a feedback system it is possible to employ either positive or negative feedback. A positive feedback system is one in which the phases or polarities of the primary input and the signal fed back are such that they add in the system input mixer, and increase the effective gain between the primary input and the output. A negative feedback system is one in which the phases or polarities of the primary input, and the signal fed back are such that the net system input is less than without feedback, which consequently results in a reduction of the effective gain between the primary input and the output. The introduction of feedback modifies the characteristics of a system in addition to changing it's gain. In general, negative feedback is employed to improve the behavior of a system. For example with negative feedback it is possible to increase the band width of an amplifier, improve it's linearity and consequently decrease the intermodulation and distortion, reduce the output inpedance, reduce the output noise which has been introduced within the amplifier, and obtain improved gain stabilization for current value change. The use of positive feedback is usually limited to either oscillators or a special type of feedback amplifier in which there is a positive feedback system completely enclosed within a negative feedback system so as to provide an improvement in linearity.

I received a vy fb letter from WA4BMC, whose QTH is Lakeworth, Fla., and happens to be on our mailing list for "CROSSTALK". Bertha, in my opinion, is one of the top if not the top XYL ham operators today. She sent me a list of her awards to date all 250 of them. The list looks like a "Who's Who" in the printing department. My congratulations to a very energetic and enthusiastic XYL ham, whose achievements have certainly set a goal for others to shoot at.

Through her fb letter, many ideas have come forward for our "CROSSTALK". She recommends that our club have a discussion about traffic. Some material from Bertha's letter quote "--I think that this "Incentive Licensing" is for the birds,

specially for us females. I'm studying for it****half-heartedly let me assure you -- To me it's an Incentive to stay off the air. I especially think the FCC/ARRL has made a horrible error in 6 meters; to take 50.0 to 50.250 away from the tech and general licensees is just stupid."

How is this for WA4BMC's shack and layout? 18' x 28' shack...2 meter FM mobile in two cars, Zeus & Interceptor/the 62S-I, 2er & 6er. Antenna for VHF 32 elements for 2 meter, 10 elements wide spaced for 6 meters; 2 meter beam up 70', 6 meter beam 30' atop house, 3 way E-Z-Way tower with a TA 33-SR. Inverted V beam for 75/80, 2 element for 40, dipole for 40.

FM rig is a transceiver LINK type 2490, Navy receiver (type CAY-46076)--2 positions for lower frequencies, Collins S Line (75 S 3 & 32 S 3) with the Henry 2K and HO-IO scope, Globe Chief Deluxe. The second position has HRO-500, a 32S-3 and coming Henry 2K-3 and SB-620 "scanalyzer", SB-630 (4-in-I station console) with this position is the 62S-I, FSC-250-TK-100, two model 15 and model 14TD/TR. In Bertha's car a KWM-2 with a Hustler for 75/40/20 meters, a 4 track stereo (840) tape recorder, an electrophysics keyer & key, an Esterline-Angus graph attached to an anemometer 70' up in the tower, with a wind gauge & indicator in the shack. The WX station is complete with a barometer, hydro-meter, rain gauge.....a 2 meter ground plane....., some receivers for VHF airports/airplane--police--and business radios.....

With this gear Bertha has 2275 countries confirmed....
Ed. note.

What more could a ham ask for? Again my congratulations for a most complete station and an exciting report. I would like very much to receive more letters like this in order that we may give a little bit of incentive to the ham just coming up in the ranks, and also to bolster up some of the old timers. Today too many of us are contented to put something on the air, regardless of what the signal sounds like. Then also some of us have the necessary equipment but lack the patience to properly adjust and tune our rigs up. Don't be one of these hams...DO IT RIGHT....

COMPASSION

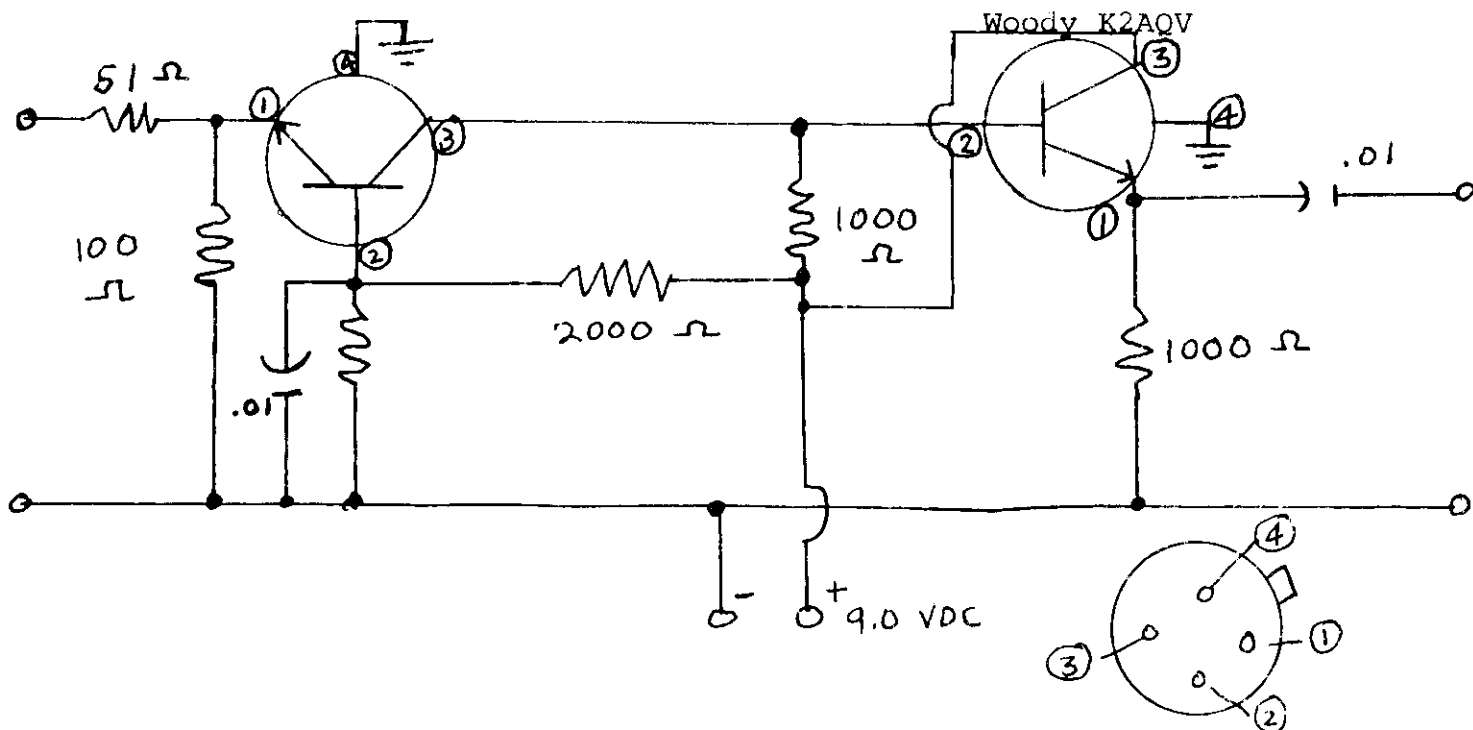
"No man is an island," wrote John Donne. Yet many people feel themselves isolated, cut off from communication with others. Sometime our spontaneous gestures of friendliness in times of sorrow or trouble become the isthmus that can connect them with the mainland again, give them the feeling of belonging that is so essential to happiness. Ample reward for compassion is hearing later, "I can never forget how kind you were."

DO IT YOURSELF

The transistor amplifier shown below was just the gadget I needed to boost the output of my RF signal generator from .1 volt to over 1 volt maximum output. With this amplifier added to my signal generator, I no longer need the grid dip oscillator to drive my antenna impedance bridge. They have the nasty habit of shifting frequency when their load is changed while making measurements with the bridge that is driving.

This circuit uses two cheap 57 cent transistors, 1/2 watt resistors, disc ceramin capacitors, and the battery cost 45 cents at the PEP BOYS AUTO STORES.

This amplifier will provide a voltage gain of at least 10 times (20db) out to about 100 mc.



Nice work Woody for your contribution, and we sure can use a lot more of this type. If you members who have the know-how only realize how much you are helping your fellow members, you will keep them coming.

Electroscope.....an instrument for detecting very small charges of electricity, and indicating whether they are positive or negative, as by the divergence of strips of gold leaf.

Electron Microscope.....an instrument for focusing rays of electrons, rather than light rays, to form an enlarged image of the object; it is much more powerful than any optical microscope.

GCARC SCUTTLEBUTT

The saddest tale to be heard in a long time -- or, since the last time, concerns W2AFZ and her bon voyage back home again from Panama. Her busted arm, from all indications, is coming along nicely and she should be doing cartwheels again soon. Guess you'll have to send with the other fist for awhile Della.

Also heard that two old club members, K2SOL and K2PQD both passed their Amateur Extra's last month. Hope they will plan to visit our club meetings more often and give us the benefit of their newly gained knowledge.

Had a nice QSO with K2RIK, Doc, in Mantua recently on 10 M AM. He put in a 5 x 100_{over} sig here into Wenonah. Hi.

Good to see WB2YLL and WB2WAK out to our last club meeting after a lengthy absence respectively. Both had health problems at home and hope no more misfortune will knock at your doors fellas.

Had trouble finding the QSL card board that WB2PVI was charged with erecting in our club room last meeting. Would suggest that Bill puts up a bigger board this month. Hi. Don't forget to donate one of your QSL cards to the big board this month men. Certainly you can stand the cost of parting with one of your cards to help brighten-up the meeting room.

Where has WB2RVE been recently? It's OK Bob, we've checked with the State Police and they aren't planning to arrest you for the 6 meter beam incident, so , expect to see you at the meeting this month ---if for no other reason than to handle the drawing.

WB2SCK made, what was it Bob, about 115 contacts during the recent DX contest? Should be some kind of a record for some of us to shoot at. Nice going Bob.

Really great to see K3WIL out to our last meeting. He looks just as ugly as before. If you haven't seen his new QSL card, and small calling card, you have missed a real treat. Milt has perhaps the finest artistic talent in our club -- which tends to neutralize his corniest jokes.

Many congratulations to WB2FJE on becoming the proud Papa of a new harmonic. All are doing well except Bill, who has gone QRT temporarily for the diaper bucket. He missed the last club meeting because of the conflicting events. The GCARC Board will determine whether his excuse was excusable.

Still Pet Peeve Dept: would you like to include more names in above blurb, but many of you refuse to come out to the meetings and let us know how you are, and what you're doing. You know who you are! So let's see some of you long-lost souls out to the meeting this month. We promise not to put you to work (I have my fingers crossed on this one Jack!).

de WA2NPD

Ham Courtesy.....

Listed below is a copy of a letter I received from our corresponding secretary, Della, and I will let it speak for itself; Quote....I have recently returned from a most enjoyable trip to the Canal Zone.

One of the highlights of the trip was an invitation from KZ5VR to be her guest at an outing sponsored by the Canal Zone Amateur Radio Association of Coco Solo.

The outing was a guided trip to the Miraflores Locks, and a partial transit of the Panama Canal through Galliard Cut to Gatun Lake on the U.S. Las Cruces. Besides KZ5VR, Virginia and KZ5RV, Ralph Harvey, I met their club president KZ5SS, Bruce Sanders and KZ5SN, Dorothy, his XYL, and many other KZ5 hams.

The next morning I started for the San Blas Islands, but never made it, as I broke my arm enroute. Saturday evening KZ5VR was able to phone patch me through to New Jersey via W3JZR to notify my family of change in travel plans.

Monday morning KZ5VR again helped me by phone patching me through to WA2WGA. Frank alerted the O.M. to meet me that evening at the airport. He also told W2CKX, who is vacationing and has a portable rig on the air in Hallendale, Fla., of my brief stopover in Miami on my way home. So, when I cleared Customs at Miami Airport, there were Tad and Nancy waiting to have a cup of coffee with me before my plane left for Phila.

KZ5MB was another contributor of his time even before I left the States. The point I want to stress is that my emergency change in plans was effected so willingly and efficiently by my fellow ham operators, that it reaffirms by belief that one of the basic laws of ham radio is to help others.

Della W2AFZ.