

CROSSTALK IS PUBLISHED MONTHLY BY THE GLOUCESTER COUNTY AMATEUR RADIO CLUB.,ARRL AFFILIATED.

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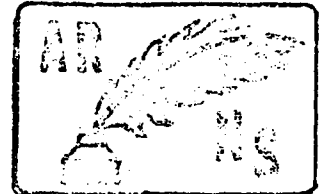
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JOHN WHITE WA2MEM



CLUB NETS

2 METER FM 78/18 SUNDAY 8:00 PM
6 METER AM 50.9 SUNDAY 9:00 PM
10 METER SSB RAG CHEW 28.8 FRIDAY 9:30 PM
15 METER SLOW CW NET. 21.175 FRIDAY 7:30 PM



Amateur Radio News Service

NOTE: EDITOR'S CHANGE OF ADDRESS....
RAY MARTIN WB2LNR,

GLOUCESTER COUNTY AMATEUR RADIO CLUB, BUFFET DINNER.

HOLLY INN, PITMAN, NEW JERSEY.

SATURDAY, SEPTEMBER 30, 1978.

THIS IS WHAT WE HAVE BEEN WAITING FOR -

AN INTERESTING EVENING IS IN STORE FOR ALL. - -

FINE TIME FOR YL, XYL & OM'S ALIKE -

LIMITED TICKET SALE -- ADVANCED TICKET SALES INDICATE

EARLY TICKET PURCHASE NECESSARY -- ORDER TICKETS FROM:

HERB SCHULER

JACK KESSEL

WAYNE WOOD

OR ANY G.C.A.R.C. OFFICER!! ORDER NOW !!!!

DON'T MISS A GREAT EVENING.

Handwritten scribble and 'W2MMD' written vertically.

Handwritten 'LOOK' with an arrow pointing left.

Handwritten 'QRZ' with a vertical line below it.

Small handwritten circle at the bottom right.

Good news gang we've just gotten 24 chairs (free) for the club room so maybe we won't have anyone standing next meeting nite. Thanks to Bill WA2VEE we will be getting some stencils made (property of G.C.A.R.C.) to be painted on the chairs. Thanks for the good turnout (88) Isn't bad for 107 members total. Also I would like to thank Sonny WB2DXB for the new gavel. Hope to see you at the next meeting May 3, 1978.

73's Ray WB2BZY...

Ye Editor; The following is a complete reprint of an article that was only entered partially last month. The reason for the reprint is because the complete article will show the exact feelings of this club and its stand for the motion that was voted upon. Ray Martin.

The following is a report of a motion made by Wayne B. Wood, W2SUA, at the monthly meeting of the Gloucester County Amateur Radio Club on March 1, 1978. The motion passed by unanimous vote. Gloucester County Amateur Radio Club represents 100 members of all ages and licenses. Their activities embrace all phases of amateur radio and are not singularly directed to any one phase of the hobby.

THE MOTION BY MR. WOOD

A letter shall be written to Mr. Harry J. Dannals, President, American Radio Relay League, Mr. Harry S. McConaghy, Director, ARRL Atlantic Division, and the Federal Communications Commission opposing the ARRL petition to the FCC requesting 14.175 - 14.200 MHz. be made an exclusive Extra Class phone band. The following reasons justify my position:

1. The 14.000 - 14.350 MHz., band has been the choice DX band available for our use both phone and cw. Traditionally this band satisfies the DX and long-haul appetites when other bands are inoperable during periods of the 11 year sun spot cycle. To expand the phone segment by 25 khz will cause a large part of the available DX to move down to the new exclusive Extra Class phone sub-band. This can only result in a direct loss to present Advanced Class operators seeking DX opportunities on this frequency. Witness the 3775-3800 khz phone band -- those without extra class credentials are left standing outside the door looking in. The ARRL, in support of the new Extra Class phone band states "It will be a powerful incentive for upgrading." I don't think so, it may be for a few but if Generals can't see DX possibilities for the Advanced Class, why bother to upgrade???

2. Early in 1975 the FCC under Docket 20282 proposed that the 80 meter & 15 meter Extra Class phone bands be shared with Advanced Class License holders.

The ARRL in its ensuing membership survey asked this question. 56,000 licensed members replied. 50 % agreed with the FCC proposal while 22 % had no opinion. No survey question was asked regarding the 20 meter Extra Class phone band desires.

Several months later the Board of Directors took its present position. Continue the 80 meter Extra Class phone band (contrary to FCC proposal), permit shared use of the fifteen meter Extra Class phone band with Advanced Class licenses (in agreement with FCC) and petition the FCC for a new exclusive Extra Class phone band on twenty meters.

It is obvious the ARRL did not follow membership opinion. Why survey membership when survey results are disregarded? This is a breach of traditional relationship between officers and members.

3. Mr. Richard Baldwin, General Manager of ARRL, has asked DX'ers to hold off with requests for DXCC status for new South African countries as recognition of these countries might be offensive in the WARC conferences. Mr. Baldwin has the forethought to see this as a potential problem. What assurance do we have that our moving into a new phone sub-band won't work against us in those same conferences? The 25 khz will be taken from what is considered to be traditional foreign phone bands.

Nothing should be done that in any way will jeopardize our position at WARC.

4. It should be quite obvious to all that the ARRL sponsored training program is producing a tremendous increase in activity on our frequencies. The ARRL estimates there will be 500,000 licenses by WARC conference time in September 1979. By the latest count we now have 355,000 hams while only 16,000 of these are Extra Class license holders. How can we afford segregated frequencies for a minority group representing only 4½% of our ham population? At the present rate of licensing the 4½% figure will represent an even smaller percentage in years to come.

We don't need more segregated frequencies for small groups; we need maximum use of all available frequencies, we can't afford otherwise.

(The following statement, if adopted by membership vote, will read:)

The Gloucester County Amateur Radio Club requests the ARRL to petition the FCC for shared use of the new 14'175-14'200 khz phone sub-band by both Extra Class and Advanced Class licensees if our WARC representatives feel it will cause no problems during the WARC proceedings,

OR

If our position at the WARC conferences will be in doubt, withdraw the petition (Docket 20282) to the FCC and wait until the WARC proceedings are completed.

END OF MOTION

MAY PROGRAM

BIG WHITE ELEPHANT SALE!!!! Has the XYL been bugging you to get rid of some of that "junk" around the shack or workshop? Here's your chance to score big points. Bring all your goodies to the May club meeting and try to unload them.

For those unfamiliar with the white elephant sale the object is to bring some items that you want to get rid of and they will be auctioned off with the money going to the club treasury. We will also be auctioning items on a consignment basis with the club taking a 10% commission. To sell something on this basis just attach a 3 X 5 card with the following information to the item: Your name and call, your minimum price (include 10% for the club), and a brief description of the item.

Ray Martin, WB2LNR has agreed to be our auctioneer so it should be a very interesting event that you won't want to miss. See you there!!!

Silent Key.

The Gloucester County Amateur Radio Club lost a member this weekend. Dick Peacock, K2MLS, After a sudden illness and a bout in the hospital. Speaking as one who knew Dick, I might add that he was one of the nicest people around. I'm sure his friends and this club will miss this man. If you ever had a problem and he was around, well,, you didn't have a problem anymore; cause Dick would sure find a way to solve the affair.

Services for Dick will be at: Frank H. Jones Funeral Home, 124 State Street, Glassboro, New Jersey. April 28, 1978. 7 to 9 PM. The Funeral will proceed at 10 AM Saturday, from the same location.

YE ED., Last weekend I had the chance to attend the first Buffet Dinner held by the Salem County A.R.C., The affair was held at the Cenerton Gold Club. And believe me a good time was had by all. So at this time I would like to thank everyone who helped to make the evening a good success. Ginny & Myself will be looking foward to the next one.

That about does it for this month gang. Those of you who will be going to Dayton, Well, what can I say except -- SEE YOU THERE !!! As usual, G.C.A.R.C., WILL BE THERE WITH A GOOD SHOWING. 73's until next month. WB2LNR RAY.

CONTEST CORNER

DX Competition. Club scoring records have fallen in all categories again in this contest, as with every other contest this season. New individual records were established in Phone and CW, with four stations breaking the old CW record, and three breaking the old phone record. The club total was four times the previous high, and the 20 logs received were twice as many as ever before.

The "Green Team" emerged as the top team by about 80K in a very dedicated, hard won effort. Congratulations to the "Greens", and to their Captain and chief organizer, WB2OSQ, Mark Wilson. An excellent performance indeed!

The club DX trophy goes to N2CQ, Ken Newman, for the highest score on a single mode, in the club. He won for his effort on CW this year. Claimed scores appear below. Many thanks to all who contributed toward another new club record!!!

Call	Mode	OSQ	MULT	Score	Hours	New Club Record
N2CQ	CW	1270	260	990,600	59	
W2KI	CW	1063	232	739,848	49	
W2SUA	CW	1144	205	703,560	59	WB2OSQ Operator
N2CQ	Ph	796	222	530,136	50	New Club Record.
W2YC	CW	772	216	504,256	65	
WB2OSQ	PH	778	209	487,806	43	
W2KI	PH	779	207	483,759	40	
WB2BVV	CW	626	161	302,358	40	
WB2BVV	PH	493	159	235,161	29	
W2SUA	PH	524	144	226,368	51	W2SUA Operator
N2SI	PH	311	124	115,692	32	
W2VUZ	CW	312	85	79,560	22	
K2HPV	CW	195	86	50,310	40	QRP. No Beam.
K2JF	CW	166	89	44,322	40	No Beam.
WB2FJE	PH	146	88	38,544	9	
WA2OMY	PH	121	56	20,328	9	
WA2VKG	PH	107	48	15,408	-	
K2JF	PH	31	24	3,960	12	No Beam.
K2HPV	PH	18	13	702	4	No Beam. QRP.
WA2PFC	PH	9	6	162	-	No Beam. QRP.
Green Team			CW 1,680,366	Phone 1,144,131		Total 2,824,497
Red Team			CW 1,730,448	Phone 1,013,895		Total 2,744,343
Club Total			CW 3,410,814	Phone 2,158,026		Total 5,568,840

CQ Worldwide DX Contest. High claimed scores for this October event have just been published. W2SUA (N2CQ opr.) placed tenth nationally in the 20 meter CW segment of the contest, and second in the 2 call area. Not bad considering the Saturday night batchelor party for WA2OLS attended and enjoyed by all!

73, Ken

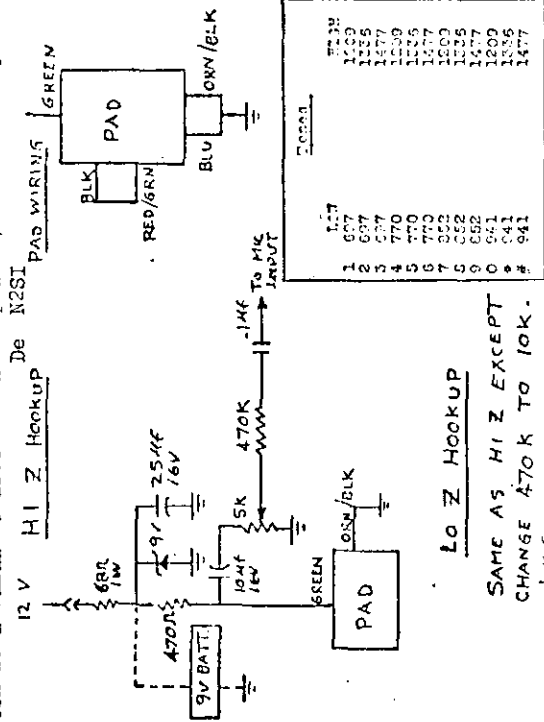
New Bulletin Service

WA2USI, Chick, has agreed to make announcements of upcoming events at the beginning of the Sunday evening net sessions. If you know of an upcoming hamfest, transmitter hunt, meeting, code class, or similar event, get the information to Chick prior to the net, and he will make the announcement as time permits.

TOUCH TONE PADS

Planning to build up a touch tone pad? Well here is some information that may prove helpful. There are a variety of methods for generating the tones for autopatch use, but the most common seems to be using a Western Electric (Ma Bell) pad and interfacing it with the radio. Here's where the majority of the problems crop up. The circuit that couples the pad to the audio circuits can cause a lot of trouble, (low mic gain, no tones, etc.) if not designed properly. Before you do anything, you should be sure that your transmitter has the proper deviation (5 KHz) and that your touch tone pad has the proper tones. A few on the air inquires can usually lead you to sources who can assist you in these checks. You need access to a deviation meter and a frequency counter plus the knowledge of the tones that are required. Once you have checked the foregoing, you are ready to construct your circuit for the pad. Power for the pad may be obtained either from the radio's twelve volt system or a nine volt battery. Although my own pad operates from the radio's system, I would go the nine volt battery route if I had to do it again. A battery has an extremely long life (at least a year) because it is only in the circuit when the pad is in operation and the circuit drain is minimal. There is also no chance of alternator whine getting into the mic input, plus the use of a battery also simplifies the circuit. Now you have to determine if your mic input is high or low (500 ohms) impedance. Once that is done, choose the appropriate schematic and construct the circuit. The gain pot can be a Radio Shack printed circuit trim pot, also all of the other parts are available at Radio Shack. Use of small electrolytic capacitors is desirable as they make for a compact package. Construction can be on a piece of Vector board. I used super glue to mount the board in my box. It works great and if you ever need to remove the board, just pry it up and it comes free. (Vector board to metal surface)...

When the pad is finished set the gain pot to mid position. Testing of the pad can be done using a scope on the deviation control and adjusting the gain pot until tones are at least the same amplitude as a whistle into the mic or by on the air checks. If you want to check it out just on the air, have someone with a properly adjusted pad stand by in case your access to the repeater is unable to make it drop out. Before proceeding, read the repeater's instructions for autopatch use and follow them. This is necessary as the repeater has to adhere to strict FCC rules governing autopatch use. Now access the machine and make a call. If any trouble is experienced, advance from the gain control in small steps until the patch works. Note: Just getting a dial tone lines and actual Bell lines requirements are different. Bell lines are more critical. The circuits shown are simple to construct and have worked in all cases that I know of. At least a dozen members of the Barnsboro machine are using this circuit in their autopatch. The autopatch is a valuable asset to the repeater, use it wisely.



LO Z HOOKUP
 SAME AS HI Z EXCEPT
 CHANGE 470K TO 10K.
 .1uF MAY OR MAY NOT
 BE REQUIRED

PROPAGATION FORECAST for MAY

Boy that was a beautiful flare we had from the 10th thru the 13th of April. Measurements showed that the ionosphere was hit with so much energy that the top level of the ionosphere dropped way down. To put it another way, the amount of energy-mass-exchange was so great at one time that the F layer dropped down into the D layer and absorption on all bands was almost complete. Only Surface wave, and Direct wave communications was possible. We are just lucky the flare was a "tongue" flare and not a horseshoe flare. The magnetic currents set up by a horseshoe flare are extremely heavy and can cause extensive confusion in the world of electromagnetic communications. 80 Meters: Increase static levels, but good short skip for the boys at home during the day and up to 2500 miles at deep night. 40 Meters: As the night becomes shorter, this band loses its DX goodness. During the hours of darkness and especially at sunrise and sunset will you pick up some nice DX but static will increase. Don't look for too much daylight activity. At night it looks favorably for North-South, to North-East to South-West. Conditions on the band this month especially from 2000-0300 will be you best bet. 20 Meters: This is the best overall band for consistent communications for long distance. About one half hour after sunrise to around midnight this band will give you good DX. Look for South Pacific and Indian Ocean stuff around the 16-17th of the month. This is a very good general operating band for the beginner in DX as well as the seasoned veteran. 15 Meters: We have a dichotomy of conditions here on this band. A rising sun-spot-spring let down during the month of May; yet, with the rising sun-spot activity and the increased height of the F layers consistent long distance communication is an enigma. All the didactics of propagation still do not fully explain what happens under these conditions. Let us take a guess--used extra bat-wings this month. Daylight hours should still give some very good results especially in the afternoon up to 1700, after 1700 these will be very questionable with rapid fall off of DX, and by 1900 even local should be difficult. From 0900 to 1700 is your best bet on this band. 10 Meters: Here you should find tropical areas coming in with fair consistency. 1000-1630 this band will be useable. At night ground wave will work. It will act like 6 meters at night this month. Some West coast stuff should be very workable on low power. A slight tilt of the F layer over the Northern Hemisphere will give some interesting results. Possible some sporadic-E openings to the Southwest around the 6, 19, & 27th. VHF 6 & 2: Well if you haven't told you. This is the Spring month for sporadic-E. This month you have meteors, T.E. and Aurora material to play with. 6 Meters: Should have some very fine short-skip openings they will be from 900-1500 miles. Now lookat these times for sporadic-E (Tony attention)... 1000-1400, 1600-2200. Also on days 6, 19, & 27 look for two hop. You should be able to work the West coast. Ray-Get your beam up. You need it this month--Look for some real good T.E. openings right up and down the 75W Long. line. You meteor chasers, the ETA AWARDS shower will cut the earth's atmosphere between the 4th & 6th. This will be a major shower and peak in the evening of the 5th. Even if you don't work it, go out and look at it. Find a nice dark place to take you gal. You got a good excuse this time. There will be some auroral activity, but not as heavy as April. H.F. GOOD DAYS: 3, 16, 25. H.F. FORGET IT DAYS: 6, 19, 27 & 31st; VHF GOOD DAYS: 6, 19-20, 27, 31st. Notice anything? One hedge I must make for May. The flare can come around again during this month. It is too soon for me to say for sure, but if it is still active, we will see it around May 13 thru 15th.

Good Luck
 [Signature]
 K2JED

SKUTTLEBUT:

April, 1978

How come John (JF) says that his wife lost? Over Ham Radio.

I heard about another interesting dual, High Power versus 30 watts, seems OKY is still trying to beat someone or some thing on 2 meter FM. Ask N2SI about it.

Why does everybody QRT when ZMD comes on the repeater? What is wrong Emmett?

I under that a certain person is still waiting for his Handhelds to come in from Vegas. Oh, well I hope the wait is worth it!

Seems that we still have some people who have not paid into the Barnsboro Repeater, who also use it all the time. The idea is to help deferr the cost and get a great usable repeater. Plesse remind those to help with the Repeater. Thank you.

(Seems that the Green team won the contest during the DX Contest. I wonder who has to buy the drinks at the local water hole some Friday night?

Boy! The new Repeater sure sounds great, but we all must remember to stand-by for breaking stations, it can get going pretty fast, so remember the other guy and slow down a little and let some join the fun also.

I wonder how the 6 meter Repeater is doing? Sounds like it is going to be quite different from the normal kind, keep going guys and let's hear it soon.

Della, Bill and Doug (NPD) had a good QSO on Della's new Triton 544 after the boys finally got off of 20 meters. We had a real pipeline to Douz on 15 meters, much better conditions on 15 than on 20 meters. We were both using only 200 watts and didn't miss a word. Not much QRM either!

I understand that certain gentleman is getting a new 50' self-supporting tower, new big tri-bander, new car and few other items, boy it must be nice to be retired, and have all that extra money just waiting to be spent! Ask GEK about the benefits of being retired.

Well Big Bertha now has a new home, someone else is trying to take over as High Power station in Pitman, but he still has a long way to go! Keep trying, Joe.

A certain other fellow has sold his handheld after he couldn't beat any of the other guys handhelds, well I hope the new owner has more luck than OMY.

LIS BELLES

By Rose Ellen - N2RE

Tired of using bread that seems to be nothing but air which is on the shelves in most food markets. Now with warm weather and no chance of any drafts in our kitchens, you might like to try your hand at home made rolls. Remember the old fashioned kitchens? Ever wonder why the ranges had an enclosure on the top? These were warming ovens which were mainly used to rise bread dough. The more modern kitchens do not have this facility -- one of the main things about rising bread is that there be no draft and also a very warm place. Since we don't have warming ovens - lets try our hand at this old time method of baking with today's kitchen. If you do try to let your dough rise in a draft IT WILL BE HARD AS A BRICK when you try to eat it.

NO-KNEAD ROLLS
Makes 1-1/2 DOZEN

1/2 cup boiling water
1-3/4 teaspoons salt
1/4 cup sugar
3 tablespoons shortening
1/2 cup evaporated milk
1 package dry grandular yeast
1/4 cup warm water
2 eggs, beaten
3-1/2 cups sifted flour

METHOD

1. Pour boiling water over salt, sugar and shortening in medium size mixing bowl.
2. Add evaporated milk.
3. Add yeast to warm water (not hot), and stir until yeast is dissolved. Add to first mixture.
4. Stir in beaten eggs.
5. Add about half the flour and beat until smooth.
6. Add remainder of flour and let dough rise IN A WARM PLACE
7. Cover bowl with a cloth and let dough rise in bulk, about 1 hour. WITHOUT DRAFTS until doubled in bulk, about 1 hour.
8. Beat dough again. Fill greased muffin pans a little more than half full.
9. Let dough rise in pans until doubled in bulk, about an hour.
10. Bake in moderate oven (375°F) until done, about 20 to 25 minutes.

Some variations that might be made from this basic seeet dough are cinnamon swirls and hot cross buns. Both very good for that Sunday or Holiday breakfast.

Some kind xyl may even try the above and bring out to Field Day, hi.

Have Fun Gang!
We are always listening!