



CROSSTALK

JANUARY 1964

VOL-VI NO. 1

W2YNR ELECTED

Paul Walton W2YNR was elected president for the 1964 term at the regular December meeting. Also elected to office at the December 4th meeting were Jack Layton K2JKA as Vice Pres., Pete Blew WA2KWM as recording secty., Harry Perry WA2IAZ to serve another term as treasurer and Della Parker W2AFZ to the office of Corres. Sec. Clif Brown WA2KGD and Howard Hirst K2QGH were elected to terms on the board of directors, our two new trustees for 1964 are Wally Martin W2PLD and Mal Mason W2MMD. 1964 looks like a very promising year as outlined by W2Ynr at the close of the December meeting.

CLUB PROJECT SUCCESS

Twenty-two SIX PACK transmitter and converter kits were sold to GCARC members at the November and December meetings. The price of the kits, originally set at \$9.00 was lowered to \$7.00. From all indications it shouldn't be long before the mighty ten watters are taking to the air-waves from Gloucester County. Those who helped with the SIX PACK project were K2PQD, W2LWW, WA2VMR, WA2KGD, WA2KWM and Vince Gambale, How about someone undertaking a similar project for two-meters? WHO EVER HEARD OF A TWO-PACK?

CROSSTALK

is the official publication of the Gloucester County Amateur Radio Club, Inc. Any material contained in this publication may be reproduced for publication by any non-profit amateur radio organization.

EDITOR Jack Layton K2JKA

PUBLISHER Clif Brown WA2KGD

REMINDER.....

By the time that you read this issue of CROSSTALK the FCC will be charging fees for any applications submitted. The fees must be paid at the time that the application is made. See full details elsewhere in this issue.

HAMSHACK INSPECTION.....

The appointed committee to inspect the hamshacks of all GCARC members by now have started their rounds. The bulk of the inspections will be done after you have read this. The committee has printed forms on which they will grade each Ham Station on several different aspects of operation, safety, etc.

DON'T FORGET THE ANNUAL GCARC

BIRTHDAY PARTY COMING UP IN JAN.

GLOUCESTER COUNTY AREC FREQUENCIES...ON TEN 28.9 MC...ON SIX 50.9 MC.

de K2JKA

It seems to me that certain individuals were put at an unfair disadvantage in our election last month due to the fact that printed ballots were distributed. The idea is a good one in principal, but in practice it has its fallacies. Any politician will tell you that a write in candidate has little or no chance against a man that has his name printed on the ballot. If we want printed ballots then we should close nominations in November and print all of the nominees names on the ballots, otherwise we should distribute ballots that will not discriminate against any one of our members. Any one who meets the qualifications, as outlined in our constitution, should be given an equal chance to be elected to office.

CODE AND THEORY CLASSES....

GCARC conducts code and theory classes every Thursday evening at the Pitman High School at 7:15 PM. This is a 20 week course that will end in April. You can still get in on part of it. See Harry Perry WA2IAZ for details.

GCARC OFFICERS FOR 1964

President Paul Walton W2YNR
 Vice Pres. Jack Layton K2JKA
 Treasurer Harry Perry WA2IAZ
 Rec. Sec. Pete Blew WA2KWM
 Corrs, Sec. Della Parker W2AFZ

1964 BOARD OF DIRECTORS

James Peck	W2LVW	Clif Brown	WA2KGD
Chas. Sketchley	K2PQD	Tad Deuber	W2CKX
	Frank Van Turner		W2KE

EDITORS COMMENTS.....

Gentlemen this is your Newspaper and I intend to print exactly what I receive from you. If there is nothing to print, you will get a postcard announcing the meeting instead of the usual 8 or 9 page CROSSTALK. There are certainly enough members in this club to support the newspaper. If you don't see fit to contribute to the success of this venture, then I will have no choice but to distribute abbreviated copies. The deadline for publication is the 20th of the month. I think that a couple of regular monthly columns would be in order...let's get busy with the pens. Do you want to continue having the profile of a ham appear in the paper? If so let's cough up some profiles.

HOW DO YOU LIKE THE NEW LOOK OF THIS MONTHS CROSSTALK???????

FOR SALE.....

Heath * modified to include sideband DX-100 operation. New spare 6146's included.....\$125
 SX-96 * selectable sidband, full coverage thru ten meters.....\$135
 Elmac 50 watts input...VFO or Xtal, A-54-H 10,20,40 and 75 meters..\$40
 Gonset 12 volts, covers ten thru super six 80 meters, plus short wave conv. bdcst & CB..... \$15
 Dynamotor12 V in 620 V out \$7.50
 Control box.....\$5.00
 Push to talk mic..hi impedance.....\$5.00
 Mobile antenna mount.....\$5.00
 All above accessories in one lot...\$20.00

VAN TURNER W2KE

MEETING NOTICE

THE REGULAR MONTHLY MEETING OF THE
GLOUCESTER COUNTY AMATEUR RADIO CLUB
WILL BE HELD ON JANUARY 8, 1964 AT
THE OWENS-ILLINOIS CLUB HOUSE. THE
MEETING WILL START PROMPTLY AT 8 PM.

The program for the evening will be a talk by Mr. Charles Schultz W2DOK, who is a relay engineer with the Atlantic City Electric Company. Mr. Schultz will speak on the various phases of relaying, carrier, etc. in the transmission of electric power.

MAIL EXAM PROCEDURES CHANGED....

The FCC again has tightened the rules for examinations to be administered by mail. Under the new rules candidates will obtain a form 610 from an FCC office and then locate an examiner who is at least 21 years of age and holds a general or higher class license, or commercial radio-telegraph license. The examiner will then administer the code test. Within ten days the examiner will forward the application along with the applicants check or money order, the examiners certification of the code test and the examiners qualifications to conduct the test to the Commissions office in Gettysburg, Penna. The written test papers will then be forwarded to the examiner.

CORRECTION.....

We goofed! ! Our appologies to Howard Hirst K2QGH who should be listed as a Director on page 3 ! !

SENATE APPROVES GOLDWATER BILL..

The U.S. Senate has approved and sent to the House of Representatives the bill which would grant foreign ham visitors reciprocal operating privileges while in the U.S. The bill, sponsored by Sen. Barry Goldwater, K7UGA, will now go to the house committee on commerce. Amateurs are urged to write Rep. Oren Harris, who is chairman of the committee, asking for early action on S-920.

GLASSBORO STATE COLLEGE GETS RADIO STATION

In addition to the Ham station on the campus of Glassboro State College they now have their own FM broadcast station. The ten watt educational FM station should be on the air by the time that you read this. WGLS-FM operates on 89.7 mc. Both the studio and transmitter are located in the Administration Bldg. of the College. Several active GCARC members volunteered their technical skills to bring about WGLS. Normal operating hours will be from 5PM until midnight. I am sure that you would be more than welcome to drop in and take a look at the station on the 2nd floor of the Administration Bldg.

WLAW CODE PRACTICE EXPANDED

Starting immediately the ARRL announces that code practice transmissions from WLAW will be expanded. This will be a daily transmission on all WLAW listed frequencies from 7:30 to 8:00 PM EST. See page 97 of December QST for full details.

The South Philadelphia Amateur Radio Klub will hold a swap and shop plus auction on January 5th at Childs School from 1 to 6 PM. For more information contact Ray Gianchetti, WA2CUB.

* * * * *

DX.....

by Glenn Morgan WA2QHQ

A DX award is being made available to the members of GCARC! This award should be a stepping stone between the WAC and the DXCC awards. It is not meant to be an easy award to get, nor is it designed to be difficult. It should encourage our members to work DX, thus broadening their ham interests as well as to develop new operating techniques.

* GCARC DX Certificate Rules *

1. The applicant shall have a minimum of 50 countries confirmed
2. The applicant shall have WAC
3. QSL's will not be accepted for signal reports less than
 - A. CW RST 338
 - B. AM RS 33
 - C. SB RS 31
4. The DXCC rules items 2 to 12 inclusive shall also apply to the GCARC DX award. (DXCC rules may be obtained from the ARRL or from the Handbook)

In the future I hope that more of our members will become interested in DX ing. Also, I would like to see a DX contest for our members as well as a bi-monthly report of the highest scoring stations for total DX work and confirmed.

When the requirements for the DX award are fulfilled by any of our club members, they should present the QSL's to me, Glenn Morgan, WA2QHQ for approval. The certificate will then be presented to the applicant at one of our regular club meetings.

Info for the DX column should be sent to:
Glenn Morgan

DID YOU KNOW? ? ? ? ? ? ? ? ?

That only 42% of the GCARC members attend meetings?

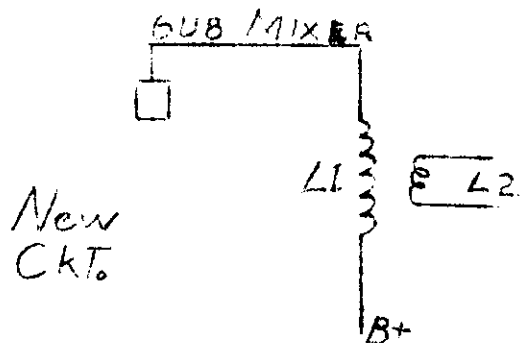
1963 FIELD DAY RESULTS.....

WA2NGI/2 came out 21st among 135 participants in the four transmitter class in the 1963 Field Day activities. Can we drop the 2 and make it 1st next JUNE ? ?

"SIX PACK" Modifications...

By this time I suppose that most of the 2six-pack2 converters are in use in the hamshacks around the county. Due to the nature of this project cost was kept to a minimum, this meant that the number of parts used were kept to a minimum. We all know that we never get something for nothing. While both the transmitter and converter are usable pieces of equipment as supplied, it's a hams nature to want to improve any piece of equipment be it made by Collins or homebrew! From time to time we will be mentioning some of the worthwhile modifications in CROSSTALK.

Probably one of the most simple modifications that can be made to the converter and more than likely one of the most effective is to replace the RFC in the output of the mixer with a slug tuned coil to resonate at the IF frequency. A National XR-91 coil form is a suitable form for this coil. Your IF frequency will determine the number of turns that you will need on the XR-91 form. The coil should be link coupled to the receiver. With the aid of a grid dip meter the coil's resonate frequency can be determined. See schematic for details.



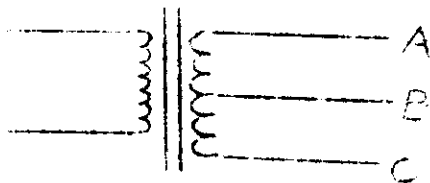
L-1 to resonate at IF frequency
L-2 3 turn link on B plus end of L-1

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ARRL HONORS GCARC MEMBERS.....

On December 17, 1963 the ARRL honored the following club members for outstanding services rendered in RACES work in connection with the New Jersey coastal storm emergency. (Mar 7-62) This story was related on page 92, Aug. 1962 QST and April 1962 CROSSTALK. Honored were Roy Peterson K2GHZ, Jack Sterner W2GOK, Mal Mason W2MND, Van Turner W2KE, and Woody Frantz K2AQL. Some of the certificates will be shown at the January club meeting for those who wish to see them.

BRAIN TWISTER



Impedance between points:

- A & B -----4 ohms
- B & C -----4 ohms
- A & C -----? ohms

See page 7 for answer.

DUES ?????????? ARE YOURS PAID???????

Have you paid your club dues for 1964? If you get three months in the rear you can be dropped from our membership rolls! Why not make it a point to pay up at the January meeting. \$4 for full members and \$2 for associate members.

DID YOU KNOW?

That GCARC membership decreased by six during 1963?

SAY YOU SAW IT IN CROSSTALK (even if you didn't)

RELATED SEASONS GREETINGS

From the staff of CROSSTALK to all of you, we trust that you had a very Merry Christmas and wish all of you very best wishes for 1964.

Who says WA2SFY has a corner on TVI? W6OJW (Dec. QST) points out that a Russian news release complains about hams in the Ukraine breaking into official government radio and TV broadcasts with "wild, indecent" jazz and twist records, making it hard for honest Soviet citizens to catch the government show!

START OFF '64 THE RIGHT WAY BY ATTENDING THE GCARC MEETING ON JANUARY 8th. LET'S GET THAT 42% ATTENDANCE UP TO AT LEAST 75% FOR '64 !

AREC.....

Both six and ten meter AREC nets in the county are rolling full steam ahead.

On six 50.9 mc. Fri. at 8 PM
On ten 28.9 mc. Tue. at 8 PM

FILING FEE RULES.....

Part 12 of the FCC rules and regulations has been amended to require application fees and setting up specific procedures for filing of such fees. The effective date is Jan. 1, 1964.

(cont'd page 7, col. 1)

FILING FEE RULES (Cont. from Page 6)

Here is a reprint in part of the new rules.

(a) Each formal application for which a fee is prescribed in 12.86 must be accompanied by a remittance in the full amount of the fee. In no case will an application for which a fee is prescribed be accepted for filing or processed prior to payment of the full amount specified. Applications for which no remittance is received, or for which an insufficient amount is received may be returned to the applicant.

(b) Fee payments accompanying applications submitted to the commission should be in the form of a check or money order payable to the Federal Communications Commission. The Commission will not be responsible for cash sent through the mails. All fees collected will be paid into the U.S. Treasury as miscellaneous receipts in accordance with the provisions of Title V of the Independent Offices Act of 1952.

12.86 Schedule of Fees

(a) Except as provided in para. b of this section, applications filed on or after January 1, 1964, under this part must be accompanied by the fees prescribed below:

Applications for initial license, including new class of license, and applications for renewal of license.....\$4

Applications for modification of license without renewal.....\$2

Applications for a combination of modification and renewal.....\$4

Applications for a specific call sign pursuant to 12.81.....\$20

(b) Fees are not required for the following types of Amateur Applications:

(cont'd) page 8, column 2)

FOR SALE.....

TECRAFT- TR 20/144 two meter xmtr plate mod. 20 watts input, 6360 final good condition \$30

AMECO- PI-144 two meter nuvistor pre-amp, 20 db gain, like new \$10

INT CRYSTAL- FCV-2 model 144 two meter converter, with tubes and xtal \$10

10 ELEMENT two meter beam, free with any item above

INT CRYSTAL- FCV-2 model 50, six meter converter, same as above, like new \$10

TELEX 3 element six meter beam (6M-309) 10 db gain, exc. cond. \$12

Iete Blew WAZKWM

* * * * *

HEATH HX-30 6 meter SSB exciter factory aligned, any, reasonable offer

ELLIS W3IXL Mt. Airy

* * * * *

EICO signal generator, excellent working condition \$20

WANTED: AM FM tuner
Hi-Fi Amp, Mono OK

Bernie Cohen K20JX

ANSWER TO BRAIN TWISTER.....

16 ohms

Since impedance is the square of the turns ratio, and the turns ratio is the square root of impedance, the number of turns between A & B can be taken to be the square root of 4 which is 2, the same is true between B & C, 2 turns. Adding the turns between A & B and B & C we get 4, and 4 squared is 16, or 16 ohms.

* * * * *

COMING IN FEBRUARY CROSSTALK....

Incentive Licensing ... pro's and con's

It's Your Board of Director's

SAY YOU SAW IT IN CROSSTALK.....
(even if you didn't)

FILING FEE RULES (Cont. from page 7)

Applications for Novice License.

Applications for a license for a station
for recreation under military auspices.

applications filed in the Radio Amateur
Civil Emergency Service.



MINUTES OF THE DECEMBER 1963 BOARD OF DIRECTORS MEETING

The December meeting of the G.C.A.R.C. Board of Directors was held at 8:00 P.M. at the home of Paul Walton. Present were Directors Clif Brown, Howard Hirst, Jim Peck, Van Turner, Charlie Sketchley, Paul Walton, Jack Layton and Pete Blew. Minutes of the previous Directors meeting were read and approved. No treasurer's report and no report of correspondence other than Walton receiving copy of H. Hoover's talk in Washington.

Unfinished Business:

Walton presented 3 applications for membership and Peck presented an additional application. They were: Albert Miller, WB2KEZ; Jack Bowen, WN2GLH; Ron Yankee, WA2WTA; Joe Moffa, WB2GUN. Turner motioned and was seconded to approve applications. Approved by vote.

Committee reports: Publicity - no report.

House - no report.

RACES - Turner reported budget approved by Freeholders.

License - no report.

TVI - no report.

Hamshack - no report.

"Crosstalk" - Peck submitted financial report covering the period of 6/63 to 12/63. Suggested Layton publish information on coming VHF Contest.

Program - no. report. Walton announced that January program would tentatively be a talk by Charles Schultz, W2DOK, Relay Engineer, A.C.E. Co.

Hamfest - no report.

Birthday Party - no report.

AREC - Peck reported activity down on 6m due to holidays.

10m nets called off on Christmas and New Years Eves.

DX - no report.

Code Class - Layton reported attendance down due to Holidays.

Club Project - Layton reported 22 units sold @ \$7.00. Cost of project: \$153.84.

Event - Sketchley reported February to be shack inspection by Layton. Noted difficulty in planning future events.

Hirst brought up incentive licensing and stated issue should be brought before membership. After discussion it was agreed that Hirst will write an article for Crosstalk.

New Business:

A new organizational chart was presented by Walton to Board for discussion. Chart showed each Director to be responsible to Board for Committee Chairmen acting under him. Outlined as follows: Peck - Program and Publicity; Brown - TVI and Code

Class; Turner - RACES and Hamshack; Deuber - License, House and DX; Hirst - Activities, Field Day, Hamfest, Birthday Party & Picnic; Sketchley - Membership and Special Events; Parker (Cor. Sec'y.) - Awards; and Layton (V.P.) - AREC and "Cross-talk".

Chart showed also an Advisory Committee to consist of a number of past Presidents to review Constitution, etc. This suggestion was defeated by vote as follows: For - Layton & Brown; Against - remainder present.

Turner motioned and was seconded that the President appoint a committee of 3 Directors & 4 members to review Constitution and advise if changes are necessary. Turner amended the motion and was seconded to 2 Directors and 3 members. Motion was carried by vote as follows: Against - Peck, Sketchley, & Layton; For - remainder present. Walton appointed Peck and Sketchley as the Directors, no members appointed at this time. Recommendations are to be submitted to Board by June 1, 1964.

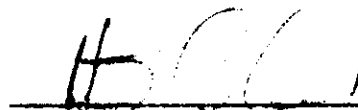
Blew to have masters typed of original Constitution and Layton to duplicate for distribution to membership. Copies to show original date and date copied, also to be marked to supercede any and all previous copies.

Walton suggested the formation of a Ladies Auxilliary. No motion was made.

Location of subsequent Board meetings decided as follows: Jan. - Turner, Feb. - Sketchley, Mar. - Brown, Apr. - Hirst, May - Parker, June - Blew, July - Deuber, August - Peck, Sept. - Layton, Oct. - Ferry.

The meeting was adjourned at 11:15 P.M.

Respectfully submitted,



D. S. Blew, W12KWM
Recording Secretary

17th ANNUAL VHF SWEEPSTAKES.....

The 17th ARRL VHF Sweepstakes is being held January 4th and 5th. The contest starts at 2PM local time, January 4th and ends at midnight January 5th. GCARC members are urged to participate. See page 28 of December QST for complete details. Contest log forms are available from Bob Danley WA2WWF, or Jim Peck W2LWV

FOR SALE OR SWAP FOR HAM GEAR.....

SCUBA DIVING GEAR will sell or swap for ham gear.

Wm. Frambes WB2FJE

DON'T FORGET THE JANUARY MEETING. WEDNESDAY JAN. 8th. 8 PM.

73.....73.....73.....73.....73.....73.....73.....73.....73.....73.....73.....73.....73.....73.....73.....