



CROSSTALK

FEBRUARY 1964

VOL. VI NO.2

GCARC SCORES 24,544 IN VHF CONTEST

W2LVW LEADS INDIVIDUAL SCORES WITH MORE THAN NINE-THOUSAND POINTS

Thus far 13 members have turned in their scores for the ARRL VHF Sweepstakes that took place on January 4th and 5th. W2LVW seems to have captured first place among club members for individual scoring with 256 contacts in 8 ARRL sections for a total claimed score of 9216 points. WA2WWF is second in line with 200 contacts in 5 ARRL sections for a total claimed score of 6000 points! The total club score of 24,544 points represents an increase of more than 2,000 points over last years score. A complete tabulation of individual member scores, as of press time, appears on page 11 of this issue. Any members that participated in the VHF SS and as of yet have not turned in their scores are urged to do so!

BIRTHDAY PARTY KICKS OFF 6TH YEAR

The annual club birthday party, kicking off the 6th year of GCARC activities, was held at the Owens-Illinois Clubhouse on January 11th. The affair was attended by more than 65 members and their guests. A good time was had by all attending! W2YNR extends his thanks, to all who helped to make the celebration a success.

CROSSTALK.....

is the official publication of the Gloucester County Amateur Radio Club, Inc. Dead-line for submission of material for publication is the 20th of the month. Any material contained in this publication may be reproduced by any non-profit amateur radio organization.

EDITOR Jack Layton K2JKA

PUBLISHER Clif Brown WA2KGD

MEETING NOTICE

THE REGULAR MONTHLY MEETING OF THE GLOUCESTER COUNTY AMATEUR RADIO CLUB WILL BE HELD ON FEBRUARY 5th 1964 AT THE OWENS-ILLINOIS CLUB HOUSE IN GLASSBORO NEW JERSEY. THE MEETING WILL START PROMPTLY AT EIGHT PM.

FORMULA OF THE MONTH

"The probability of ham radio equipment breaking down or absolutely refusing to work, increases as the square of the requirement or desire of the operator to use it." ve3on Dec. CST

de K2JKA

New York City promises to be a bee-hive of activity this summer. The dual attractions of the "World's Fair" and the "ARRL National Convention" seem to indicate that New York will be a meeting place for many hundreds of thousands of people from both this country and abroad. No doubt many of these visitors will be hams. By August, the Reciprocal Licensing Bill should be law. (see January CROSSTALK) This will afford a rare opportunity to foreign ham visitors to operate in this country, thus demonstrating our warm hospitality to all peoples of the world.

It would seem only natural that GCARC should take part in this activity. It certainly is not too early for members interested in attending the affair to get together and start planning a "WEEKEND TO REMEMBER!" One suggestion that has been mentioned is the possibility of GCARC forming a motorcade up the N.J. Turnpike to the convention....mobiling all the way! With the site of the convention so close, it seems as though we'll miss out on a golden opportunity for a weekend outing if we pass this up. Take it from one who has attended an ARRL National Convention, you'll have the time of your life!

DON'T FORGET TO PAY YOUR 1964 DUES!

FULL MEMBERS \$4.00 ASSOCIATE MEMBERS \$2.00

1964 ARRL NATIONAL CONVENTION

The 1964 ARRL National Convention will be held in New York City, August 21, 22 and 23, 1964, to celebrate 50 years of progress in Amateur Radio. The site of the gala activities will be the spectacular New York Hilton Hotel.

At the conventions' grand banquet on Saturday evening, August 22nd, guests of honor will be ARRL president Herbert Hoover, Jr. W6ZH and Senator Barry Goldwater K7UGA. Tickets for the convention are available from HARC Convention, P.O. Box 58, Central Islip, Long Island, New York.

Watch future issues of CROSSTALK for more information.

CROSSTALK CIRCULATION

It might be interesting to note that in January there were eighty-seven copies of CROSSTALK printed. Mail circulation was seventy-three.

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

NEVADA CERTIFICATE AVAILABLE

The Nevada State Centennial Amateur Radio Committee is offering a handsome certificate for five confirmed contacts with Nevada hams during the 1964 centenary year. Send QSL's to the Nevada Centennial Radio Amateur Radio Award, P.O. Box 5234, Reno, Nev.

IT'S THAT TIME OF THE YEAR AGAIN.....

.....DUES TIME.....

.....ARE YOUR'S PAID YET?

HAM RADIO.....PAQ STYLE

Several weeks ago Dick PAQGMY/K2GMY dropped in at the ham-shack of K2JKA. Some of you may know Dick, he resided in Almonesson for several years and then moved to Woodbury, he is now working for IT&T in Europe. One of the many interesting tales that he told was the procedure for obtaining a ham license in Holland. First, you must be recommended by another ham, the next step is that you are interviewed by an employee of the PTT. (Dutch equivalent of the FCC), In the application that you file you must describe the equipment that you intend to use. All ham stations are inspected by the PTT every six months.

Another requirement is that you must have a telephone on the premises! In PAQ land there are two classes of licenses; the class B licensee is permitted a power input of only 50 watts while the holder of a class A license is permitted a maximum power of 120 watts. For mobile operation you must pass an additional test and have a special endorsement on your license. Dick has promised to write a full length article on his ham adventures while signing a DX call. Watch for it in a future issue of CROSSTALK.

1964 NOVICE ROUND-UP

ARRL advises that February 1st through February 16th is Novice Round-Up Time 1964! All licensees....novice....tech...and general are invited to participate. See page 43 of January QST for complete details.

BANNED COUNTRIES....att'n dxers

U.S. Amateurs may not work amateurs in Cambodia (XU), Viet-Nam (3W8), Indonesia (PK & JZ), and Thailand (HS) as of January 1st.

IT'S YOUR BOARD-OF-DIRECTORS

by the CROSSTALK staff

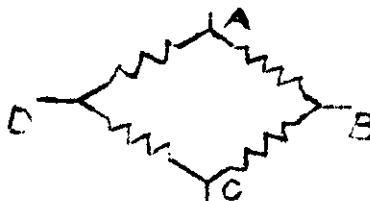
It would be interesting to find out just how many members follow the minutes of the board-of-directors meetings that are published in CROSSTALK. There are several very obvious reasons for having a board of this type, one example being for discussion of an issue that would take weeks for the general membership to hash out if everyone was to be heard. A small group, such as the directors, are in a much better position to resolve this type of problem....however, you must remember that you the individual members, are the ones that this board represents! The only possible way that the board's decisions can reflect the will of the general membership is if club members make their desires known to their directors. The proceedings of every board meeting should be of prime importance to each and every club member. The board exists for the good of the club, and the club is YOU.

(cont'd below)

*
* OFFICIAL BULLETIN NUMBER 930 FROM ARRL HEADQUARTERS NEWINGTON, CONN. JAN. 2 *
* TO ALL RADIO AMATEURS BT *
*
* ON DECEMBER 31 THE COURT OF APPEALS FOR THE SEVENTH CIRCUIT IN CHICAGO *
* ORDERED A SIXTY DAY POSTPONEMENT OF THE EFFECTIVE DATE FOR FCC LICENSE *
* APPLICATION FILING FEES. THIS IS A TEMPORARY POSTPONEMENT TO PERMIT *
* TIME FOR A FULL HEARING IN COURT ON THE SUBJECT OF FEES. THUS NO FEES *
* NEED BE PAID UNTIL MARCH ONE OR FURTHER NOTICE. AR *
*

In this months issue of CROSSTALK you will see that the vote of every board member has been recorded in the minutes....for one reason only....so that you will know just how well your elected representatives are representing you. Quite frequently club policy is set at these meetings, if you are in disagreement with it then it's up to you to voice your opinion to your elected directors! REMEMBER GCARC is your club, and the only way for it to remain that way is for you to take an active part in it!

put on your thinking cap,
here's this months
BRAIN TWISTER



All resistors 100 ohms.
100 VDC applied between A & C.
What voltage will exist between B & D ?
ANSWER ON PAGE 7.

DO YOU want to buy or sell something?
IF SO why not list it in CROSSTALK ?
IT'S FREE!!!!

OVERHEARD by a passer-by while one of our G C A R C members was mowing the lawn, as the boss (XYL) looked on. "Ham Radio exists as a hobby, only because it qualifies as a service!"

tnx to ARRL CD bulletin

WHO SAYS THAT ? ? ?

Some individuals can be identified by a particular phrase that they use, can you guess who uses

"an NC-300 with matching speaker"

ANSWER ON PAGE 7.

1964 CLUB DUES ARE DUE NOW !
ARE YOUR'S PAID ?

INCENTIVE LICENSING.....

.....it's PRO'S and CON'S

The purpose of these two articles are to present to you, the members of GCARC, the pro's and con's of the incentive licensing program now proposed to the FCC by the ARRL. The adoption of these proposals would among other things affect the operation of all General Class licensees on most voice sub-bands below 28 megacycles. There are many pro's and con's as well as much misunderstanding among amateurs as to exactly who, why, what and when they might be affected. It is the hope of the CROSS TALK staff that these two articles reflect an honest opinion from both sides of the fence on probably the most controversial issue to ever confront amateur radio operators in this country.

PRO'S.....

by Jack Layton K2JKA

Prior to 1952 there were two basic classes of amateur radio operator licenses, the Class B or General Class and the Class A or Advanced Class. The Class B license was almost identical to the present day General Class License as far as the technical requirements. Holders of the Class B license were not permitted voice operation on the 75 or 20 meter bands. The technical requirements for a Class A license were stiffer, the reward being all amateur operating privileges. A change of the rules in 1952 brought into being the Novice and Technician license and did away with the class A license, thus the holder of the General Class license was permitted all amateur operating privileges! The Extra Class license was instituted which called for a higher technical ability but no extra privileges were afforded to the holders of these tickets. Thus in 1952 the Commission abolished the two class system and instituted a three class system, as far as operating privileges are concerned....novice....technician...general! One of the immediate effects of this move was to swell the ham population of the U.S. to it's present quarter million level. The reason being obvious....it was easier to obtain an amateur license!

The different classes of amateur licenses provide stepping stones for the normal progression of learning and self improvement....from novice through General. By adoption of the proposed
(cont'd on page 6, col. 1)

CON'S....

by Howard Hirst K2QGH

We all realize that QRM on the lower frequencies has reached the unbearable stage, and is getting worse. There is some question as to what the real reason is behind the ARRL proposal? Is this an effort by those higher up in Amateur Radio "Big Op's", to clear the band of some of the stations operating phone, and cutting in on their pleasure? Under the guise of incentive licensing, more know how, etc. much QRM will be eliminated!

To this end ARRL has been "talking up" and proceeding toward the Advanced Class proposal, using the argument that stricter licensing will aid in preserving existing ham bands, when the time for the world conference on frequency allotment rolls around, possibly next year. I might mention that the "Rank and File" members of ARRL have been given no choice to vote on this proposal; the paying members have been ignored! Question: Does the ARRL think that commercial interests, representatives from other countries, looking for more operating frequencies, give two hoots whether our hams have to pass a tougher examination? I think not! I wonder what the foreign listener thinks when he tunes across the American ham bands and hears all the "Gobble-de-dook" that goes on; particularly if he is looking wistfully for more frequencies for his business, or his country. (they are crying for more spectrum space) What does he think when hearing the RST 579 SNJ 0135, QSL EK, etc, etc. during our contests, or

(cont'd page 6, col. 2)

rule making we will have added one more stepping stone at the top. What will the ultimate effect be? Certainly no one can say that it will cure all of the ills now prevalent in the ham bands, however it certainly can't make things any worse than they are now. In my estimation anything that will stop the progression of a problem, or help to alleviate the situation in any way, to any degree, is without a doubt a step in the right direction.

If you were to take the time to sit down and read the rules and regulations governing the amateur service, you would sooner or later have to face up to the fact that your amateur license was issued to you with the provision that your amateur radio station would be operated in the Public Interest, Convenience Or Necessity. Amateur radio, at the present time is not complying to the fullest possible extent with PICON! In order to keep the frequencies and privileges that we now enjoy, it seems imperative that the U.S. ham population must make a definite effort to bring their operations more in line with the public interest. The suggested plan of self improvement through incentive licensing certainly is in the Public Interest!

No doubt some of us would be temporarily barred from certain low frequency voice bands, however with effort on our part we could fulfill the necessary requirements that would put us back in business. The ARRL and the FCC would in effect be asking us to learn a little more about the technical aspects of radio. How can you or I argue with someone who is asking us to learn? Mr. Webster's definition of the word learn is to acquire knowledge or skill, to become informed. What well thinking individual can question the intent of one who is asking him to be informed?

There are days when you and I go to work even though we would much rather stay at home....why? Because we know that the end result of work will benefit us and/or our family. The increased requirements may be a hard ship to some, but the end result will be of benefit to the family of amateur radio in the U.S.

QSO parties. Would this sound like an AMATEUR RADIO SERVICE in action? Take a look at the contest or events calendar in any ham magazine; they are loaded with special contests etc. A great many ARRL sponsored. Would not a reduction in the number of contests contribute to improved conditions on the band? Would this not set a better example of American use of the Amateur spectrum?

Another thought—Does the ARRL think that a more rigid exam will suddenly endow the Advanced holder with consideration, courtesy, or plain sense? Listen across the bands, you may hear some big op calling CQ, no space cadets, boy wonders, etc. then ask yourself, does this sound like an AMATEUR RADIO SERVICE? Is this the kind of ham ARRL wishes to see perpetuated on the phone bands, simply because he might have a bit more ability or "savvy" in Electronics? Remember, we are all not endowed with the ability, or the capacity to learn, to the same extent as others may be; we are just what the term implies AMATEURS.

FINALLY— Would not the lowering of the "Legal Power Limit" be advisable, toward bettering the QRM problem? A good antenna will still get you around the world with a lot less than a KW!

This could go on and on—however I must close; but really have you ever thought about the things that I have mentioned. I have thought that the club should voice it's opinion on this matter for sometime; to the ARRL or FCC or both. What is your thinking on this subject? Do you as members wish anything be done toward expressing a collective opinion?

I have not mentioned the Technician here, but I am sure that upon reading the above, or the proposals in any of the ham magazines one will not have any trouble realizing what this proposal, if enacted will do to him, it will literally bury him on 50 mc. and above. This I do not approve of, and I am strongly against. I feel that the Technician is just as good as any General or Extra Class, the difference being his inability to master the code. Let's face it, some persons just can't do certain things, where they can excell in others.

a G C A R C member's concept of.....

H A M R A D I O

.....by Wally Martin W2PLD

My experience in ham radio goes back to 1918 while I was attending Junior High School. Naturally I grew up in the old school when almost all equipment was made by the individual. Very little gear could be purchased unless it was Navy surplus equipment. To me this was truly ham radio, even if it was called wireless in those days. Although some of this gear was a far cry from a professional rig, it did work, and work well. Bear in mind that a lot of ideas used today were obtained from the sweat of cutting and trying of the old days. The purpose of this article is four fold....naturally I am a great believer in homebrewing...it gives the individual an opportunity to learn how to use tools properly, secondly, it stimulates the imagination and inventiveness of the ham, thirdly, he becomes better acquainted with circuitry, has a better knowledge of equipment and knows where to look for the problems, fourthly, it carries on the true purpose of ham radio, that is, you are supposed to be an amateur and not a professional. My opinion of the fellow coming along today is that he is interested in radio as a hobby, but he put at a disadvantage because it has been made possible for him to buy gear and not thoroughly understand the "guts" of his equipment. The obtaining of a license is made too easy! Anyone with a good memory and a little bit of reading can get his license, even if he doesn't know the proper way to solder. If more emphasis was put upon the developing of know-how, the better equipped the man would be as a ham. Far be it from me to try to keep prospective hams from becoming licensed, but I would like to see the new ham a better informed better qualified individual who has just a little better know-how.

Let's look on the other side of the ledger and see what can be done for those already holding tickets. More encouragement could be given to the homebrew contest. New ideas should come forward to stimulate the participation in these projects, and I think one of

the best ways to accomplish this is to run classes specifically dealing with the construction of electronic equipment. A lot of people learn faster if they are shown rather than allowed to fumble for themselves. Then too, there are those who hold back, fearing that they would be laughed at for the mistakes that they are making. This of course is not true, One has to learn to crawl before walking. We have been running a homebrew contest for two years now and I must say that the participation leaves a lot to be desired. What is wrong? Why can't we get more persons interested? I think if we could run a construction class along the same lines as our code classes much could be accomplished in the encouragement of the do it yourself. The knowledge and experience gained this way would certainly make the ham a better qualified person and give him the satisfaction derived from the building of a piece of gear that actually works well.

ANSWER TO BRAIN TWISTER

0 Volts

If all resistors were precisely the same value no voltage would exist between B & D. If one or more of the resistors were of a slightly different value, the bridge circuit would then be unbalanced and voltage would exist between B & D.

ANSWER TO WHO SAYS THAT.....

G11.....WA2ZJY

DX.....DX.....and more DX
.....Glenn Morgan WA2QHQ

I would like to urge all of you to enter the DX competition for the club. Also, I would like to have you note that if we have three or more logs turned in for phone or CW, the highest scoring club member for each mode will receive an award. The foreign stations are looking for us, and there will be plenty of them in there with S9 plus signals. Remember if you work a country during the contest, you will not need a QSL to claim credit for DXCC!

I have a limited supply of log sheets for the contest as well as a few operating aids #7. (official countries list) These will be available at the next meeting. If you have any questions about the contest feel free to call me

DX floating around 20 meter CW these days

call	freq	time GMT
TU2AU	14.050	2100
606BW	14.030	2127
9X5TJ	14.010	2120
GN3GP	14.020	2117
5W4ET	14.120 ssb	2013
W2LW	14.060	1643

WA2QHQ and WA2TOW have sent away for their WBE awards. QHQ has also applied for DUF 2 and S6S certificates.

don't forget to.....
 SAY YOU SAW IT IN CROSSTALK
even if you didn't

This coupon entitles the bearer to a free seat on the plate caps of the 866 rectifier tubes located in the transmitter at Radio Station W2LW ! Tax included.

TO WHOM IT MAY CONCERN

All vertical lines published in CROSSTALK (even those that are supposed to be vertical but are not) are produced by a special process known as the "Brown-U-Graph" process which was developed especially for CROSSTALK by the King George David Laboratories, only after years of intensive research, under the personal supervision of C. Clifton Brown. This process utilizes a broken piece of glass as a back plate, a rusty nail for a stylus and a piece of a dead tree for a straight edge. Any criticisms pertaining to these lines should therefore be directed to Mr. Brown who's address appears on page two of every issue!

ED

THIS

SPACE

WAS

RESERVED

FOR

YOUR

CONTRIBUTION

TO

THIS

MONTHS

CROSSTALK

.....we didn't get it

.....how kum ?

DID YOU KNOW THAT

47 individuals attended the Jan meeting

TOPOGRAPHIC MAPS

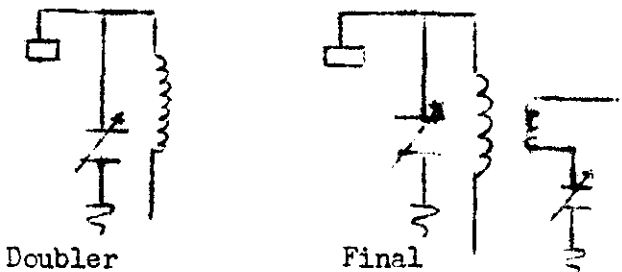
Detailed Topographic maps of the county are available from the United States Department of the Interior. These quadrangle maps, 7.5 by 7.5 minutes, show buildings, roads, and natural terrain features. Two maps are needed for full coverage of the county. The northern end being on the Woodbury quadrangle and the southern end of the county is shown on the Pitman quadrangle. The scale of these maps is 1:24,000 or one inch equals about 2000 feet. The price .30 each from the Geological Survey, Distribution Section, Washington 25, DC.

OFFICIAL BULLETIN STATION

You can now keep abreast of the latest developments on the progress of the incentive licensing program, changes in FCC regulations, additions to the ARRL DX list, etc. by catching official ARRL bulletins from WA2WWF. Bob's schedule of operations include the RTTY net on Monday evenings at 7PM on 51.7mc. on Thursday evenings at 8PM on 50.5 mc. and on the AREC net on Friday evenings at 8 on 50.9 mc.

FEEDBACK.....

The schematic diagram of the "SIX-PACK" transmitter shows the APC capacitors connected across the tank coils. To avoid B+ on the adjustment screws these should be connected from the plate to ground in both the doubler and final.



Corrected Schematic

KILOCYCLE CHATTER . . .

WA2QHQ is now the proud owner of an HT-32. It seems as though after enlarging the chimney, Santa Claus was able to get it into the ham shack.

WA2WWF officially took over the duties of the TVI committee on Jan. 1st.... on the 6th he was in the process of handling the first complaint of the new year....the offender....none other than K2PQD!

WA2KWM is up to something? Exactly what is still unknown. All he seems to talk about these days is 3000 volt transformers and 4CX1000-A tubes.

K2PQD has initiated a long term project for cigar smog reduction by installing a vent fan in the ham-shack.

WA2IAZ has his SIX-PACK transmitter dumping out RF from Sweedsboro

K2QGH just bought the six meter beam advertised in last months CROSSTALK! It looks like more QRM for the 50 mc. band!

The word is out that WA2TSZ should be on two before long.

K2JKA was recently paid a visit by PA0GMY...who is also K2GMY from Woodbury. Dick is now in Germany and is awaiting his DL call and plans to be active on 40 and 20 meters.

It seems as though there is one night in the year that WA2KGD's XYL won't let him in the shack....that's New Years Eve. Wonder why?

W2RND has switched his DX operations from 80 CW to 40 CW.

WA2QHQ recently worked KC4 (Antartica)

W2MMD can be heard regularly on the New Jersey Phone Net.

WA2SEA helped WB2JRU to install a new six meter beam.

INTEREST, HARD WORK, AND DX ON FORTY

.....anonymous

It was too late for 20, and too early for 40, so the old timer and the young squirt sat glumly in the shack listening to the static crashes from A.C.E.'s power lines. Suddenly the young squirt came up with a conversation opener. "You know" he said, "there's a gang in the club that seems to be in the thick of everything, there's Sam, Joe, and 'you-know-who', and it's always the same ones. Seems like they've got a clique." The old timer thought a bit, tamped his pipe, and cleared his throat. "Well you're right in a way, but I can remember when each of them joined the club. Take Sam for example, he's always been in the thick of things; first worked in refreshments, then house committee. I remember when he put in 24 hours on field day to keep 20 meters on. I guess all your clique are just hard workers."

"Well", said the young squirt, "you work hard too". The old timer grinned a bit. "Yes" he chuckled, "and I like to think I'm one of the gang too." "You see" he continued, "every person you mentioned in the gang has one thing in common- a strong interest in the club's welfare, and a reputation for hard work." He puffed slowly on his pipe, then did a little figuring. "Counting three men to a committee" he exclaimed, "there are 63 jobs in the club, one for almost every member, but most of them are carried by the gang."

The young squirt thought for a moment, "Doesn't seem fair" he said. "No" said the old timer, "Doesn't, does it?" He settled into his working position, "Listen think I hear a VP8 in there".....and sure enough it was!

HAM RADIO.....this month

- Feb. 1-16 ARRL Novice Roundup
- Feb. 5 GCARC Meeting
- Feb. 8-9 ARRL DX Contest (phone)
- Feb. 14 Frequency Meas. Test W1AW
- Feb. 15 CP Qualifying Run W1AW
- Feb. 19 GCARC Board Meeting
- Feb. 22-23 ARRL DX Contest (cw)

PAY UP.....or else

You can be dropped from the membership rolls if you are more than 3 months dues in the rears!

GLOUCESTER COUNTY A R E C

-on ten meters 28.9 mc. Tue. 8PM
- .
-on six meters 50.9 mc. Fri. 8PM

KILOCYCLE CHATTER.....

- W2KE is sporting a new NCX-3!
- Hats off to WA2QHQ for making DXCC.
- Con'grats to W2TLO on his obtaining an Extra Class License.
- W2MMD has been appointed an Official Phone Station (OPS) bt the SNJ SCM.

SCARA NEWS, advises that the Southern Counties Amateur Radio Assn. participated in the festivities at Absecon Light House on New Years Eve. SCARA's mobile unit, K2BR, was on hand. This activity is part of the New Jersey Tercentenary Celebration.

Make sure brain is operating, before placing mouth in gear!

AN INTERVIEW WITH WA2KRY

....by Harry McCormick WA2SEA

Ron Trostel, WA2KRY, was born in New York City on August 19, 1945, and spent several years of his boyhood overseas, while his father, Rev. Hiram W Trostel, was a Chaplain with the Armed Forces. At present the Trostels live at 44 Hunter Street in Woodbury.

Ron is a graduate of Woodbury High School, class of 1963, and at present is an Electrical Engineering Student at Drexel Institute of Technology in Phila.

Ron started his ham career as a Novice in February of 1960. At present he holds an Amateur Extra Class License, as well as a First Class Radio Telephone and a Second Class Telegraph Ticket.

With the intensive study needed for his engineering education Ron finds little time to appear on the ham bands. Occasionally you will find him on 40 meters with his Knight T-50 and a home-brew amplifier running 150 watts. For a receiver Ron uses a BC-455. He is also active in RACES.

Ron has 44 states confirmed for WAS and 25 countries for EXCC.

ED'S note: WA2SEA has volunteered to write the interview column every month. This will serve to replace the "Profile of a Ham" that has been a regular in past issues of CROSSTALK.

TABULATION OF HAMS IN THE U.S.

class	num.	pct.
Novice	16,795	6.3%
Technician	58,656	22.0%
Conditional	40,259	15.2%
General	95,250	35.8%
Advanced	40,296	15.1%
Extra	3,164	1.2%
Club	2,976	-----
Military	1,776	-----
2nd Station	2,873	-----

INDIVIDUAL SCORES IN THE VHF CONTEST
Jan. 4th and 5th

W2LVW	9216
WA2WWF	6000
WA2EPB	937
K2PGD	1300
WA2CHQ	600
WA2TOW	1378
W2YNR	468
WB2GUN	2808
WA2KWM	476
WA2SFY	416
WA2WKB	1176
W2PLD	598
WA2SEA	168

The above scores are claimed scores reported as of press time!

W E L C O M E

G.C.A.R.C. extends a warm welcome to the following new members:

Jack E. Bowen	WN2GLH	Pitman
Albert Miller	WB2KEZ	Blackwood
Joseph Moffa	WB2GUN	Blackwood
Ronald Yanky	WA2WTA	Blackwood

We hope that you will take advantage of as well as an active part in the many GCArc activities that occur throughout the year.

WA2HQ advises that the ARRL DX contest is coming up in February and March. As chairman of the GCArc DX committee he urges all members that are able to participate in the contest to do so and report their scores to him!

APFOLOGIES to any member that we may have missed mailing CROSSTALK to last month. We hope that the mailing list is now correct. If you move, PLEASE advise the Editor so that we can change the list!

HOW WELL ARE YOU UP ON YOUR THEORY ?

1. How much will antenna current increase under 100% modulation (sine wave) in an AM transmitting system ?
2. What is the power output if the antenna impedance is 15 ohms and the antenna current is 4.0 amperes ?
3. If the antenna current doubles how much has the power output been increased ?
4. What two factors must be equal for a tuned circuit to be resonant ?
5. If a 50 mc. transmitter uses an 8 mc. crystal, and the crystal moves 2 kc. what will the resultant shift in frequency on six meters be ?

see last page for answers

HINTS AND KINKS !....

If your bug is slipping and your better half won't let you screw it to the table ask at your local supply for a piece of PLASTIK TAK. Holds like bubble gum, but comes off when you want to move the bug. Beats nails for sticking up wall paper too! If you got a hand key, get a can of sardines and a big fist full of lead sinkers. Feed the sardines to the dog and clean out the can. Then sit it on the XYL's good gas stove and start melting the lead sinkers in it. When it's full, set it on a flat heat-proof surface to cool. Wrap it up pretty in electrical tape (comes in colors now) and screw in the key.

operating tip from NCN Bulletin

DX VISITS GCARC

KZ5TG dropped in to say hello at the January GCARC meeting. Tom spoke briefly on some of the interesting facets of hamming in the Canal Zone!

don't forget to
"SAY YOU SAW IT IN CROSSTALK"
even if you didn't!

OSCAR II

The group of California hams that made possible the OSCAR satellite that was put in to orbit some time ago are now working on a new PROJECT OSCAR. This new satellite, when put into orbit will have the capability of receiving 144 mc. signals on one frequency and then re-transmitting them on a higher frequency. This of course will function similar to the famed TELSTAR and RELAY satellites! Official word of the OSCAR II launch will be carried by ARRL Official Bulletins!

FOR SALE

Novice Transmitter
ELDICO TR-75
60 watts input
80-40-20 meters
Crystal controlled

Ron Yanky WA2WTA

don't forget to
PAY YOUR DUES
at the February meeting!

RE INCENTIVE LICENSING

"Could say a lot about my trip around the world but rather than bore you... was shocked after visiting countries where radio parts cost high, where amateur radio is closely regulated or non-existent, and even if you get a license you frequencies are greatly limited, to tune in on the states and hear all the belly-aching and complaining about the proposed incentive licensing, a matter that came up after I left. TOOMANY OF US TAKE FOR GRANTED WHAT IS DENIED OUR BRETHREN ELSEWHERE. The USA is one of the few places radio is not a government monopoly. We have third party traffic, mobile operation and all. We overlook that amateur radio is a privilege (not a right) and from that we even ignore that having it carries responsibilities."

Les Harlow W4CVO

PARTY GREMLINS.....

It seems as though our ice man, WA2 (we won't mention the call ED) split his pants while filling the cooler at the party! He had to run home and change.

Tad Deuber won a purse at the party to hold his false teeth!

Joe Prus was heard yelling "turn off da bubble machine" after his XYL won some bubble bath!

The Sketchleys seem to be the best slow dancers in the club!

GCARC code and theory classes continue each Thursday evening at 7:15, Pitman High School. These classes will run through April.

HAVE YOU PAID YOUR '64 CLUB DUES?

OVERBROOK SCHOOL FOR THE BLIND GETS NEW HAM STATION, K3ZJU

"Operation Ham Shack" has now been completed with tremendous success. This fund raising drive, managed by Jane Johnson, K3RIH and Jack Kine, K3UYJ, was heartily supported by many hams in this area. In the short time that they had, (it had to be done before Christmas) they raised a total of \$530 cash, \$100 of this amount to be given as a prize to the holder of the lucky ticket which was drawn on December 15, 1963 at the Headquarters Bldg. of the Secane Amateur Club, Secane Penna. The winner was K3LSI, Steve Peitzman,

"Operation Ham Shack" was a fund raising drive by only two local hams to establish an amateur radio station in the newly formed Radio Club of the Overbrook School for the Blind of Phila. School funds could not provide money for equipment. With the help of many hams in the area, \$430 was given to these kids as a Christmas present. Hank Spears, K3RYD of Havertown, is an instructor at the school and originator of the radio club for the kids. Hank's XYL is blind and is the mother of a six-month old baby who is an up and coming ham, of course. The Heath Kit Company of Benton Harbor, Mich. did generously donate a completed and tested "SHAWNEE" six meter transmitter, with microphone and fittings. This outstanding gesture by one of the leading ham equipment companies is heartily appreciated and we are asking all radio clubs who have monthly publications to reprint this entire report of "Operation Ham Shack" for the Overbrook School for the Blind.

The above a reprint from the Secane Amateur Radio Club News, January 1964

W4RKH, W4BOZ and K4YVQ were called on to fill a communications gap Eglin AFB after lightning damaged normal communications. On the job 5 hours the hams kept the count down going, by relaying, for the launching of an EXOS research rocket!

FOR SALE.....

Sixer HW-29-A
Includes xtals and mic.
Excellent condition.....
Chester McGear WB2EDH

* * * * *

WILL SELL OR SWAP....

The following Measurements Corp.
equipment...in good condx.....

Tube Checker
Capacitor Analyzer
5 inch scope
Sweep Generator
Pulse Generator

A1 Miller WB2KEZ

notes on available.....

AWARDS

.....by Dave Roberts
.....WA2TOW

In each issue of CROSSTALK I am going to try to have an article dealing with AWARDS for both DX and USA.

One of the easiest DX awards to obtain is the WAC, almost anyone who has worked any amount of DX has heard of it. A lesser known award is the S6S. Basicly it is the same as the WAC, but is sponsored by the Central Radio Club, Praha 1, Czechoslovakia. It requires that you submit confirmation of QSO's with all six continents on either all CW or all Phone. Stick-ers are available for one band operation, 80 thru 10 meters. Send QSL's with return fee to above address.

FEBRUARY 5TH IS GCARC MEETING NIGHT
.....WILL WE SEE YOU THERE?.....

1964 ARRL INTERNATIONAL DX COMPETITION

Phone Section.....

Starts	Ends
Feb. 8 0001 GMT....	Feb. 9 2400 GMT
Mar.14 0001 GMT....	Mar.15 2400 GMT

CW Section.....

Starts	Ends
Feb. 22 0001 GMT....	Feb. 23 2400 GMT
Mar. 28 0001 GMT....	Mar. 29 2400 GMT

****see page 57 of January QST for complete details and sample log sheets****

DID YOU KNOW ?

that the first Trans-Atlantic two way communication took place in November 1923 on 100 meters ? It was between LMO and f8AB!

COMING IN CROSSTALK.....

.....next month

Ten Years Ago.....

.....The Half Baked Ham
.....Ham Radio, Hobby or Vocation

WEDNESDAY, FEBRUARY FIFTH, IS G C A R C MEETING NIGHT AT THE OWENS-ILLINOIS CLUB HOUSE IN GLASSBORO. DON'T FORGET TO PAY YOUR '64 DUES IF YOU HAVEN'T ALREADY PAID

MINUTES OF THE JANUARY 1964 BOARD OF DIRECTORS MEETING

The January 1964 meeting of the G.C.A.R.C board of directors was held at 8:00 PM on Wednesday January 22 at the home of Frank V. Turner. Present were Directors Walton, Layton, Blew, Ferry, Parker, Brown, Deuber, Hirst, Peck, Sketchley and Turner. The minutes of the previous directors meeting were read and approved with the following corrections: (1) On Incentive licensing two articles will be written for CROSSTALK one by Jack Layton for, and one by Howard Hirst against (2) the November '64 board meeting will be held at the home of Paul Walton.

Treasurer's Report: Balance on hand 1/22/64 \$344.53, no bills outstanding. Walton requested Ferry to prepare an estimated budget for 1964.

Walton requested Layton to publish a note of thanks in CROSSTALK to the ladies that helped with the birthday party.

Parker was requested to send a card to Cork Thompson.

Committee Reports:

Membership: Sketchley presented three applications for membership: George M. Badger III WA2LSI; Raymond Martin WB2LNR; Sidney Gantz WB2JRU. A motion was carried that the applications be approved.

Publicity: No report

House: No report

CROSSTALK: Layton noted that a large issue will be forthcoming in Feb. Extracts from past President Goldmans letter will be published in the March issue.

RACES: No report

Program: Peck reported that program for Feb. will tentatively be by Chas. Shultz W2DOK who was scheduled to appear in January.

Charles Sketchley will conduct a white elephant sale in March

License: Discussion resulted in Deuber continuing to administer license examinations if requested in connection with the club. Members are to refer applicants to him.

TVI: Brown reported that Bob Danley had resigned as chairman. Ed Stetser named as new chairman with Jack Bowen and Preston Weil on committee.

Hamshack: No report

Field Day: No report

Hamfest: Howard Hirst accepted chairmanship

Birthday party: No report

Picnic: Deuber named chairman. To be held July 11th at Lake Garrison.

This will be the event of the month for July which Deuber will be in charge also. Peck motioned was seconded and carried unan-
imously that regular July meeting be cancelled.

DX: Deuber to receive information from Glenn Morgan to be published in CROSSTALK

Event of the month: Jack Oberst W2TLO to be in charge of event for Mar which will be in connection with CROSSTALK

Awards: Certificate to be presented to Ray Gianchetti for working 15 member stations. Information on certificate endorsements will be published in March CROSSTALK.

AREC: No report

Old Business: None

New Business: Parker presented a bill for \$1.25 from the Gov't Printing office, which was approved for payment

Brown noted the directors voting in the minutes and it was agreed that this should continue.

Peck extended credit to Walton for success of Birthday Party. Board went on record to offer vote of thanks for job well done.

Walton to investigate cost of club seal for various uses.

Walton noted need for OBS on 10 meters and for an OO. Brown motioned that the Pres. appoint a committee to investigate the qualifications and recommend one or more prospective OO's/ Turner, Peck, and Layton (with qualifications) opposed; remainder for. Motion carried.

A motion was carried that the meeting be adjourned at 10:28 PM.

Respectfully submitted

David S. Blew WAZKWM
Recording Secty

A BIG THANK YOU FROM GCARC TO.....

All of the Ladies that helped in any way with the serving of food, decorating, etc. for the Birthday Party.

The following persons for contributing prizes for our party:

Nancy Deuber	Wally Martin
Mary Hirst	Roy Peterson
Anne Peterson	Max Richmond
Lillian Turner	Van Turner
Matilda Walton	

HIGH SCHOOL RADIO CLUB NEEDS EQUIPMENT

Al Miller WB2KEZ advises CROSSTALK that the Deptford Township High School Amateur Radio Club are looking for donations of any ham equipment to use in their newly set up ham shack. The fellows in the club would sincerely appreciate any equipment that will help to put them on-the-air! Contact Al Miller WB2KEZ at the High School or call in the evening CA-7-2365.

ANSWERS TO HOW WELL ARE YOU UP ON YOUR THEORY (page 12)

1. 22.5%
2. 240 watts
3. 4 times
4. inductive reactance=capactive react.
5. 12 kc.

FEBRUARY 5 TH IS GCARC MEETING NIGHT

.....BRING A FRIEND

.....PAY YOUR DUES

.....C U THERE

73 73 73 73 73 73 73 73 73 73 73 73 73 73 73 73 73 73 73 73