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UR X-TALK STAFF

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 DX Diary: Jack White, WA2MEM
 YL Page (Les Belles): Rose Ellen Bills, WA2FGS
 Ghost Writer: (Call lost in QRN)
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CLUB MEETING FEB. 2nd AT CLUBROOM - 8:00 P.M.

Note: To all subscribers and readers of X-TALK. Editor, WA2NPD's address is NOT 10 South Marion Avenue. It is 12 South Marion Ave., Wenonah, N. J. 08090. Please correct this house number. The Post Office will love you. Tnx.

PRESIDENT'S SMOKE SIGNALS

We had a fine turn out for the January club meeting. I counted 36 in attendance with many new faces in the crowd. In fact, so many were there that the coffee was running short. Maybe we'll have to start brewing two pots per meeting. I'll make the second pot when attendance reaches 40 or more!

Noticed that 10 meter net activity has fallen off considerably in the last month. Let's get going and bring this net up to where it should be (can't let the 6 meter net make us look bad). Maybe we should set a check-in goal like the 6 meter gang.

The Club Banquet plans seem stymied at the present, due to lack of a committee chairman. Don't be bashful about serving on the committee either; you'll get plenty of help. This is an opportunity to get involved and show your ability.

Ron, WA2EOB, is our 1972 Field Day Chairman. (The line forms to the right for band chairmen). We also have a line on a FB Field Day site. So start thinking about those 9 Db antennas and getting your tents ready. This will be a chance to show some real ingenuity in setting up the FD operation.

Our club is moving right along with conducting the present code class, a new theory class, and the formation of a novice net. Not bad at all! Let's keep up the good work!

73's

de WB2JZX

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February Club Meeting

Program chairman John, WB2PVH, informs us that the program for February will be a talk by our own favorite Les Belle Rose Ellen, WA2FGS, on ARNS (Amateur Radio News Service). Rose Ellen is especially qualified to speak on ARNS as she is Secretary of this national organization and is a first-rate speaker under any circumstances. Also, X-TALK is a proud member of ARNS. In addition, don't forget to pick up your Dx and Novice Round-up Contest log sheets at the meeting. Wb2GKH also assures us that there will be plenty of hot coffee and donuts for all (as usual John does his outstanding thing here). Also, this year's (1972) Callbooks will be available for your use and perusal. Can you think of a reason for not attending the Feb. 2nd meeting? I can't. CU there!!

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Advance Note

Big "White Elephant" Sale - at the March Meeting! (Get your goodies ready now!).

Congratulations to No. TWO!!

Number 2 is Jim Klupar, W?2OER, who recently passed his General exam and qualified (right behind WA2MEM) for the 50% rebate from the club. At this rate, the club will go broke--but who could think of a more beneficial way to oblivion? Nice going, Jim (how about it Karl?, can't let the OM get too far ahead, can we?).

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Apologies

To Van for continually referring to him as W3JM. Van's new call is K3JM, not W3JM. Hope he will forgive us.

Friendship Net:

Next meeting is February 20 at (note time change) 1:00 P.M. EST. Frequency is 7265 $\frac{1}{2}$. Let's have a good turn out this time.

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QST DE W1AW
HR OFFICIAL BULLETIN NO 352 FROM ARRL HEADQUARTERS CK 82
NEWINGTON CONN DECEMBER (, 1971
TO ALL RADIO AMATEURS BT

For the first time in almost five years a third party agreement has been signed. Trinidad and Tobago, 9Y4, and the United States have agreed to permit the handling of messages or other communications on behalf of third parties, effective December 18. Messages must not be important enough to be sent by commercial channels and neither operator may have any pecuniary interest in the traffic. This updates the list appearing on page 90 of November QST. AR

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AREC News

By this time, the Annual SET Drill will be history (January 29-30). Will presume SEC Jim, W2LVW, or EC Harry, WA2SEA (or both) will provide a full critique at the February meeting.

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Contest News

Don't forget the big DX contest coming up in February and March! W2FBF sez he doesn't plan to relinquish the big W2SUA trophy without a fight. I can promise you that W2FBF will have strong competition this year, but with Ken's new purple people eater cranked up to full blast--he has to be the man to beat. Dates are:

Phone	February	5 & 6
CW	February	19 & 20
Phone	March	4 & 5
CW	March	18 & 19

Contest News (Cont.)

For the first time ever, the Club is sponsoring the Novice Roundup (primarily for the many Novices in our club). This contest runs for a whole week (February 5 to 13) and a top prize will be awarded to the high scorer in our club. Certificates will be awarded to all those logging in 15 or more contacts. Note: Generals et al are welcome to participate, but only Novices are eligible for prizes. Logs and other information will be available at the February club meeting.

Welcome to WB2GEK

The club welcomes its newest member, Fred Cowgill, WB2GEK, into the fold. Fred, who holds a General ticket, originally lived in Paulsboro but, apparently to escape local TV I, recently built a new QTH over near Mullica Hill. Glad to have you with us, Fred, and hope to hear you on 28.8 Friday nites.

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AWARDS

Della, W2AFZ, announces awards were recently presented to the following:

SS Certificates: W2FBF, WA2NPD
30 Member Endorsement: WB2JZX

Who's next?

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TV I and Technical Advisory Committee Tidbits

1. Paul, WB2WAK, recently resigned as chairman due to pressures of his job keeping him on-the-road. However, a very capable replacement, Bill, WB2FJE, has taken-over the reigns; so we have lost nothing in talent here. Many thanks to Paul for a job well done.
2. A REMINDER TO ALL MEMBERS! This committee is available to help ALL club members with any problem (antennas, rigs, receivers, etc.) Free of all pecuniary gain! (except possibly for parts or equipment items, etc.). So, before sending that rig back to the factory, check with WB2FJE First! We don't guarantee success in every case--but we try!
3. A highly successful tower and antenna raising was held 3 weeks ago at the QTH of Jack, WB2WKV. His new tribander quad (50' up) looks impressive indeed and compliments the nearby antenna farm. On hand to tug and pull (and sample Louise's FB coffee and donuts) were W2SUA, WA2EOB, WN2OLS, and WA2NPD.
4. W2PLD's antenna was fixed (tnx to WB2FJE).

New Novice Net Formed!!

A club novice net was formed with Tom, WN2AXI, as Net Manager. This net will operate on 15 M CW and further details will be forthcoming. Advisors to the net are WA2LWC, W2FBF, and WB2FJE (Traffic Consultant). Will expect lots of check-ins, gang!!

Theory Class Off to Great Start!

To compliment our code class, our theory class started off with a BANG on Thursday, January 20, with 15 students in attendance. It's not too late to climb aboard. Remember, each Thursday at 7:00 P.M.-- Pitman High School.

4-SALE

Lafayette 6 M HA 750. Limited supply in stock. Price reduced from \$120.00 to \$70.00. Order direct from factory only.

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1972 COMMITTEE CHAIRMEN

(As announced by President John, WB2JZX)

Publicity	John Poulson, WA2PVH
Field Day	Ron Blakeslee, WA2EOB
Program	John Poulson, WA2PVH
TV I & Technical Advisory	Bill Frambes, WB2FJE
AREC	Harry McCormick, WA2SEA
RACES	Paul Thomson, WA2PGJ
Code Class	Henry Feltman, WB2MSH, Rick, WN2OLS & Howard Carter, WA2OVQ
Membership	Howard Carter, WA2OVQ
Cross Talk	Doug Gehring, WA2NPD
Theory Class	Doug Gehring, WA2NPD
VHF	Tom Louis, WA2MFS
Contest	Ken Newman, W2FBF
Budget	Jack Bowen, WB2WKV
Awards	Della Parker, W2AFZ
Novice Net	Tom Watts, WN2AXI
Picnic	John Kull, WB2GKH & Howard Carter, WA2OVQ
Historian	Rick Carter, WN2OLS
House	John Kull, WB2GKH
Banquet	

Let's pitch-in and help out each and every Chairman when the call for assistance is heard!

Enclosed are my 1972 dues, all \$ _____ of it Paul!!

Glad to send it in early.

To: Paul, WB2WAK

73's

(Call)

DX DJARY

The following is a lead-off article, first in a series on the subject "Ionospheric Radio Propagation". The series, as planned, will cover these major topics in subsequent issues of CROSSTALK, provided that club members indicate a desire to see its continuance. The subject will be treated at greater depth than is currently available in The Radio Amateurs Handbook and other similar publications of its kind. Source material for the series draws upon data compiled from special geophysical efforts known as the International Geophysical Year and the International Year of the Quiet Sun and to the advent of the Space Age. Such topics as electron-layer production, the geo-magnetic field, magneto-ionic theory and oblique propagation will be expanded with respect to earlier treatment and findings. Members interested in purely practical aspects of ionospheric radio communications will be able to use these articles in conjunction with other publications which, at the end of each article, will be noted. It is believed that the series will be of great interest to our club members from a number of aspects; i.e., those members upgrading their licenses, particularly affording a deeper understanding of the background relating to FCC exam questions on the subject, and generally to afford all members with something more than superficial knowledge of an area and phenomena without which radio communication, as we know it, would not exist.

The major article topics, some of which will require several CROSSTALK issues to adequately treat are:

- I The Earth's Atmosphere, Geomagnetism, and the Sun
- II Theory of Wave Propagation
- III Synoptic Studies of the Ionosphere
- IV Oblique Propagation
- V Signal Strength
- VI Ionospheric Disturbances
- VII Ionospheric Propagation Predictions
- VIII Scatter Propagation on Very High Frequencies
- IX Propagation of Low and Very Low Frequency Waves

While the articles will be devoted mostly to the propagation of high-frequency radio waves, several will be included to offer the reader a better perspective of the relationship of the high frequency band to the lower frequency (LF and VLF) bands and upper (VHF) frequency band.

DX Diary (Cont.)

I The Earth's Atmosphere, Geomagnetism, and the Sun

1.1 Nomenclature

Throughout these articles, the terminology used to describe the various regions of the upper atmosphere will be that based upon the temperature distribution of the neutral atmosphere. This distribution is shown in figure 1.1, and the following terminology is widely used.

The mesosphere, which lies in the height range of 50 to 85 km, is a region of decreasing temperature with height.

The thermosphere, above 85 km, is a region in which the temperature increases with height.

These "regions" are not well defined and the transition regions are called "pauses."

In addition to the terminology based on temperature, others have been devised on alternative physical quantities and processes. Two of these are illustrated in figure 1.1. For example, one terminology is based on the fact that turbulence predominates below about 100 km, whereas diffusive separation sets in above about 110 km. Above about 500 km is a region called the exosphere.

The term ionosphere was first applied by Sir Robert Watson-Watt to that part of the atmosphere in which free ions exist in sufficient quantities to affect the propagation of radio waves. The ionosphere can, therefore, be considered as lying between about 40 to 50 km and several earth radii. This definition is essentially that adopted by the Institute of Radio Engineers.

It is convenient to define a region as a section of the atmosphere within in which there can exist ion distributions called layers. A division of the ionosphere into regions is given in table 1.1 together with the layers which may exist within these regions. The electron distribution within a region may not contain a peak of electron density.

Table 1.1. Ionospheric regions and layers

Height range (km)	Region	Layers
50-90	D	D
90-(120-140)	E	E1, E2, E3
Above (120-140)	F	F1, F1 $\frac{1}{2}$, F2

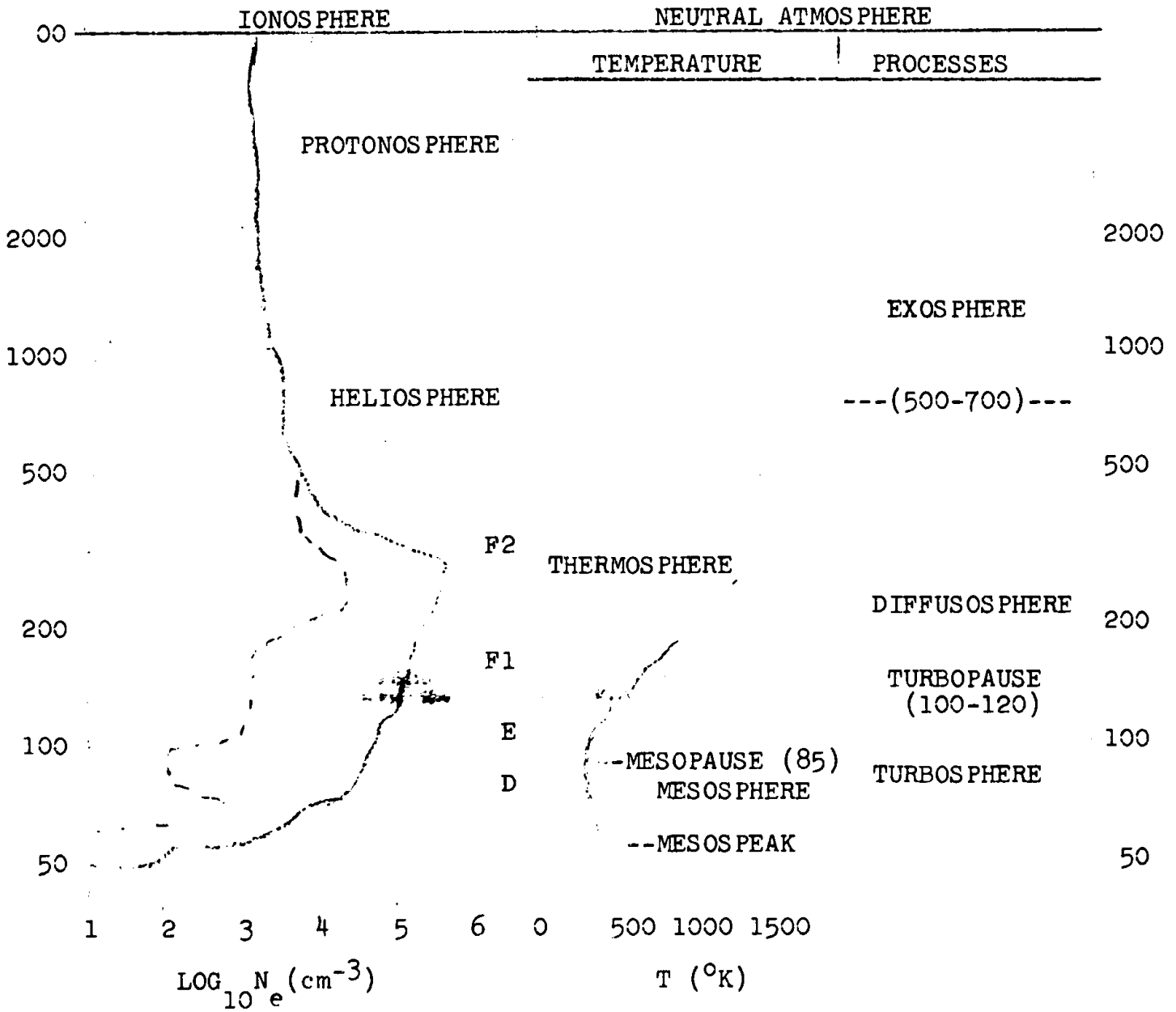


Figure 1.1 Atmospheric nomenclature

The temperature or scale height structure gives rise to the terminology indicated "temperature" in figure 1.1. Although the terminology is self explanatory, the causes of the observed temperature structure deserve comment. The mesosphere is heated by the absorption by ozone of solar ultraviolet light with wavelengths between 2550 A and 1650 A. The thermosphere is heated by the dissociation and ionization of the atmospheric gases by solar ultraviolet light with wavelengths less than 1750 A. Up to about 100 km, heat is lost mainly by infrared radiation. Above 100 km, on the other hand, heat is lost mainly by conduction downward towards the mesopause.

Below about 100 km, the specific heat of the atmosphere is so large that even though the rate of heat input almost vanishes at night, the temperature varies very little. Above 100 km the temperature

DX Diary (Cont.)

is increasingly variable, both diurnally and with solar activity. For example, at 300 km the temperature decreases by about one third from day to night, and probably by about half from sunspot maximum to sunspot minimum. The temperature may also increase by a factor of two during large ionospheric storms. These variations of the structure of the thermosphere are complex and poorly understood, but they are now the object of intensive research.

In the next issue of CROSSTALK, we will continue with the atmosphere's chemical composition, ion production, ion disappearance, formation of the Chapman layer and electron density distribution.

John, WA2MEM

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INTERVIEW WITH A HAM

by Harry McCormick, WA2SEA

This month I thought I'd like to get started on interviewing some of the newer club members. Most of the fellows that have been in the club for a few years are pretty familiar with the older club members, so I'm going to try to get some info on the younger fellows.

I had a very interesting chat with Steve Asay, WN2AXJ, or 37 Wildwood Avenue, Pitman, N. J.

Steve was born June 18, 1956, when his family lived in Greenfield Village. About eight years ago, the Asays moved to their present home in Pitman.

Steve is a sophomore at Pitman High School. After he finishes High School, he would like to join the Navy and study electronics.

Steve got his Novice license in March of 1971, after having attended the club sponsored code classes.

At present Steve works 80 meter C.W. only, because that is the only antenna he has up. He plans to put up a 40 meter antenna in the near future so he can get on 40 & 15. His equipment consists of a HW-16 for receiving and a Globe Chief transmitter. He is usually on the air about three nights a week around 7 or 8 P.M.

Steve is a member of the A.R.R.L. and has just signed up as a limited member of the A.R.E.C.

Photography is another of Steve's hobbies, with 35 m.m. slides being his prime interest.

LES BELLES

Have the holidays left their toll on your furniture? Don't despair. Some recommendations are offered for getting rid of a few blemishes:

WHITE SPOTS caused by moisture, heat or alcohol can be removed by sprinkling the spots with cigar ashes (editor will gladly supply some of these), fine pumice powder, or even salt. Rub gently with a cloth moistened in mineral oil.

SCRATCHES on wood with a natural color can be covered by rubbing diagonally with a broken nutmeat.

PAPER on finished surface can be removed by pouring on enough warm mineral oil or paraffin oil to saturate the paper. Leave it until the paper begins to loosen. Then dip 3-0 steel wool into the oil and rub lightly. Repeat if necessary.

CANDLE WAX on finished wood can be taken off by first crumbling off as much of the wax as possible by finger then scraping gently with the dull edge of a table knife. Dip a cloth in warm water, wring it out, and use it to apply a mixture of three parts boiled linseed oil and one part gum turpentine. Rub gently and wipe off with a warm damp cloth.

Use hot soapy water to remove candle wax on metal.

PITCH dripped from a Christmas tree can be removed by using a safe dry cleaner.

After you have your house back in order from the winter holidays, you can spend your spare time working on your wardrobe. Fur trim is very much in style and there are a few tips in working with fur that make it less difficult if certain precautions are observed:

DIRECTION OF HAIRS--The hairs of the fur items should all run in the same direction. For example, if making a fur collar for a coat or suit, the hairs should run from the neckline down. Only the pelt of the fur should be cut. Never use shears as they will also cut the hairs and this makes it almost impossible to conceal seams. Use a RAZOR BLADE or very sharp knife and work from the wrong (pelt) side, letting the blade go only through the pelt. Use a pattern--first trim the pattern along the seam line. Lay it on the pelt side of the fur, making sure the hairs run in the desired direction, and secure it to the pelt with small bits of Scotch Tape. Mark the pattern outlines on the pelt with pencil or tailor's chalk. Then cut through pelt only along marked outlines. If at all possible, use a furrier's three-sided needle. When piecing fur, place the pieces together with the cut edges just meeting. Push all hairs down from the edges to be joined. Using waxed heavy cotton or linen thread, join the two pieces with a very fine overhanding stitch, taking up only the edge of the pelt. Any fur will wear better if backed with lightweight cotton fabric, and old furs should always have this done. The fabric should be attached to the pelt with fine stitches around the edges and the fabric then covered with cotton padding, which in turn is caught to the fabric.

RAMBLINGS OF A GHOST WRITER

You know, not being a writer, I just sit down in front of my typewriter with nothing in mind to write about and hoping that something will manifest itself in the form of an idea that will be of interest to you all. One thing is that you don't know who I am; so, therefore, I can be bolder than I would otherwise. If I am able to contribute something to CROSSTALK that may be of interest to you, I will tickle the keys on this old typewriter, many times hitting wrong letters and using terrible English, until the old ribbon wars out or breaks.

I may be wrong, but I feel that you get tired of reading about only Electronical jazz all the time. As variety is the spice of life, so they say, let's have Variety!

I am very pleased to read the various contributions being written for CROSSTALK. They are interesting and informative. This makes for a good paper.

My hat goes off to Della Parker, who has certainly been one heck of a fb XYL, Club Member, Cluf Officer, and has a terrific fist with the old key. Della, if only you could sing? For years of service to our Radio Club, it was more than fitting that you received the honor awarded to you a while back, and it should certainly be an inspiration to the many new members coming into the club. It is a true saying that 8 women are able to control the wealth of our nation, but I didn't know that you held that honor or distinction at RCA. This couldn't happen to a nicer person.

You know, an idea just came to me. I wonder what a ham would dream about, if on a hot summer day under a nice tree, he was able to relax and look up into a nice clear blue sky? What do you think he would dream about? Would it be about building up some new gear? Would it be about putting up that new beam he wanted for so long? Would it be about visiting that far off Hamfest he had read about? Would it be the way he visualized what his ham friend looked like that he had talked to for so long? There are many things that could be entering his mind; what do you think? Let's make this a little game for the fun of it. Write your ideas to Doug. I am quite sure that he will put them in CROSSTALK. Maybe he will come up with a nice little prize for the most interesting article. Don't worry about making it fancy. Just a simple little article with some humor in it. If this works, I will try to answer some of your articles in CROSSTALK.

What member in the club holds the distinction of having held the most different Call Letters during his life of hamming? These not only have to be U.S. calls, but also maybe calls held in a foreign country? You maybe surprised when you hear the answer. I don't know who it is, so if you are in the running or think that you have a chance, drop a note to Doug so that the other members may know the answer. Maybe a good thing to publish a list of the calls submitted.

Are there any club members who can honestly say that they never watch television because all of the time they are hamming and have no interest in the one-eyed monster? I am not sure we have members that are that devoted. Then too, I could be wrong.

By now, from what you have read, you can easily see that I write without any definite plan. It may be a crude style and unorthodox, but I hope that you do read my articles and enjoy them.

This Angelhair is getting all tangled up in the Stardust and the Static coming from it sounds like the condenser plates rubbing in Bill Frambes' rig, so till the next issue.....

73's es CUL.....Ghost Writer

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A MESSAGE FROM THE EMERGENCY COORDINATOR

by Harry McCormick, WA2SEA

For the newcomer to Amateur Radio, a few points of interest:

The Gloucester County Amateur Radio Club is an A.R.R.L. affiliated club, which in plain language means we are a small part of the American Radio Relay League.

Another part of the A.R.R.L. is the Amateur Radio Public Service Corps, or A.R.P.S.C. The A.R.P.S.C. consists of the Amateur Radio Emergency Corps or A.R.E.C., the National Traffic System, or N.T.S., and the Radio Amateur Civil Emergency Service, or R.A.C.E.S.

We are primarily interested in the A.R.E.C. at this writing. In the Southern New Jersey section of the Atlantic Division of A.R.R.L., we have a Section Emergency Coordinator, or S.E.C., that is Jim Peck, W2LVW, a member of our club. Jim is in charge of all A.R.E.C. groups in Southern New Jersey.

In Gloucester County, the Emergency Coordinator for the A.R.E.C. is Harry McCormick, WA2SEA. (also the club Recording Secretary).

The Gloucester County A.R.E.C. consists primarily of two nets, one meets every Friday night at 9:30 P.M. local time on 28.8 MHz. The other is at 8:00 P.M. local time on 50.9 MHz on Sunday evenings.

The 10 meter net is run by Bill Frambes, WB2FJE, an assistant E.C.

The 6 meter net is run by Howard Carter, WA2OVQ, also an assistant E.C.

The drills are usually limited to one hour. After the drill, we usually have an old-fashioned rag chew on net frequencies.

With a total Ham population in Gloucester County of approximately 300, we have about 60 club members and about 30 of these are registered A.R.E.C. operators. This is by no means a good percentage of participation in an emergency organization.

Amateur Radio exists because it qualifies as a public service. If we as individual operators do not provide a service, we may eventually find ourselves without any frequencies to operate. (Not so on the C.B. band, they are beating us in providing services in all direction.)

So it is up to you as individuals to provide a service to the public; one means of doing this is to become an active A.R.E.C. member. After all, one hour a week isn't much time to donate for all of the privileges received with your ham license.

If you feel that you cannot actively participate in one of our nets, due to any reason, at least register with the E.C. for service in the event of an actual emergency, when your services would be invaluable.

(Ed. Note: FB Harry)

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New X-TALK Policy for Subscribers

The Club Board of Director's announces that all hams wishing to receive X-TALK will be charged \$2.00/year. Of course, this does not apply to GCARC members or those who exchange club papers with X-TALK. This is to cover expense of mailing and printing. Tnx.

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SCUTTLEBUTT

1. Understand that WB2FJE recently received a swl card from his neighbor, reporting that his 6 meter AM signal was received 5/9* on an RCA CTC 16 color receiver. No QSL was requested!
2. There are reports that a Vigilantee Committee is forming in the Grandview area section of Pitman with the purpose of tracking down three amateur stations in the area in order to demonstrate the proper use of RG-8 clippers. (RG-17 in one case).
3. Those of you who think that W2SUA will be stuck on 20 meters in this year's DX contest, BEWARE! Word has it that he has, known only to a few, erected a 40/80 meter antenna (not visible from the road) in anticipation of poor conditions on 15 and 10 meters.
4. I hear that W2FBF is busy constructing a heat sink for his plate choke in his new linear.
5. Word has it that only the Ghost Writer's Ghost attends the monthly meetings.
6. In a recent operational test with WB2JZX, WA2NPD successfully demonstrated a significant breakthrough in eliminating TV I. A 40 Db decrease in front end overload and harmonic radiation was achieved by his, soon to be patented, "Plate Supply Inhibit System." (Schematic in next issue). (Note: WA2NPD did not write this entry.)
7. Joining W2LVW and WB2PVI in the Life-of-Leisure Dept. is Fred Bergman, WB2BPX. After years of fruitful labor awaits a blissful rest (or until the XYL wakes up). Should have lots of time for ragchewing now, fellas.

SCUTTLEBUTT (Cont.)

9. "Boob of Year Award" - A hands-down winner this year men!! (wasn't even close). A new house is soon to go-up on the vacant lot next to the WA2VEE QTH. The new owner requested that Bill move his telephone pole and beam off his property (the pole was $\frac{1}{2}$ inch inside the line). Now here's a real challenge for the Technical Advisory Committee, what say, Bill?
10. Hear that Tad, W2CKX, is coming along FB and will soon be back to his near-normal routine. Tad would like to hear from you guys via landline until he gets the "sawbones" OK to fire-up the rig again.

73's de WB2JZX and WA2NPD

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TEN GOALS OF EVERY AMATEUR

by WB2JZX

1. To have your XYL marvel at your operating skill everytime she enters your shack to serve your meals during the DX contest.
2. To get a landline from an irrate neighbor concerning TVI while you're taking a nap.
3. To hear the JA's complain about receiver overload when you are running barefoot.
4. To have a receiver with such selectivity that you can't hear W2SUA 80 kc down the band.
5. To have your antenna located in such a manner that the birds can't hit your roof.
6. To have a receiver that can automatically track WA2NPD on 10 meters and still work the rest of the net.
7. To have an antenna so high that the neighbors can't see it; so they blame the CB'er down the street for TVI.
8. To have a vox circuit that doesn't trip when you spill beer all over your completed contest logs while resetting your station clock that was 23 minutes slow.
9. To have your XYL complain when the ice box in your shack is running low on 807s.
10. To have your xyl take a second part-time job so you can buy a "ALPHA-70" to go with the "Signal One" she gave you for Christmas.

(Ed. Note: Can't see what Bob Hope has over our WB2JZX).