

GCARC - 1970 (VIP PAGE)

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Other Contributors All Welcome!

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OCT. MEETING IS OCT. 7 - 8:00 PM AT CLUBROOM

PRESIDENT'S SMOKE SIGNALS

Hearty congratulations are in order to our hardworking Crosstalk Editor, Doug, WA2NPD. He has gone and passed his Extra Class license. Great job, Doug; but do stop by the non-extra freqs and see us often, will you? Congratulations also to Jeff, WA2LWC, on getting his General. Jeff has already joined the 28.6 mc. AREC net. Nice to have you, OM.

Speaking of the 28.6 group brings up another subject. Della, W2AFZ, our custodian of the Club award, tells me none have been issued so far this year! The AREC net is an excellent place to find Club members to work for this award. Members must work 15 other members to get the very handsome certificate. There are endorsements also for 30 and for 50 members worked. Why not try for one of these? It would certainly beautify the shack wall. The AREC nets meet each Friday evening on 50.9 mc. at 8 PM and 28.6 mc. at 9:30 PM local times. SSB or AM ok.

As many of you know, Doug, WA2NPD, has made up and installed, at the Club, a special badge board for Silent Keys. The Directors have decided to limit the display to members in good standing at the time of their passing. So far we have Mal Masson, W2MMD; Paul Walton, W2YNR; and Harry Perry, WA2IAZ. Some other names were mentioned, but on many the "good standing" requirement is not met. If you know of anyone else, let me know the date of passing, and we will check this requirement.

Thanks to Howard, WN2OVQ, for taking over as keeper of the Club property. If property is needed, contact Howard and he will tell you how to obtain it. He is also our newest Trustee, replacing Doug, WA2NPD.

We will be having a Code Class this year, again thanks to Howard, WN2OVQ, and Rick, WN2OLS (two of last year's graduates), and to Henry, WB2MSH. Class will be starting early in November, so let's all scout around for prospective hams to fill it up. Details on dates, time, and place will follow.

73

W2FBF

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MEMBERSHIP

The remainder of the year has been earmarked for special efforts in the area of getting new members into the Club. Several organized efforts have been planned to help accomplish this such as the Code Class.

Paul, WB2WAK, is working on plans for a display and station setup at College Town Shopping Center to generate some interest in radio and pick up a few students for the Code Class. Bill, WA2VEE, is investigating the possibility of a similar setup at the Hobby Shop (Bob's Hobbies & Crafts) in Pitman. We are also planning to mail

MEMBERSHIP (CONT.)

Code Class notices to the various schools in the area for their bulletin boards. If anyone has a connection with the Boy Scouts, let me know how many of the notices you can use to publicize the Code Class among that group. If you have a CB club connection or any other group which might be interested in the Code Class, let me know how many of these notices you can put up on their bulletin boards or get announced at their meetings. How about putting one up on the bulletin board in your local supermarket?

Along with the Code Class efforts, each member should make a special effort to bring in at least one new member. If you can get them to the meeting, they will undoubtedly sign-up when they see the interesting programs, varied activities, and the great group of people who make up GCARC. We may even be able to come up with an award for the member who sponsors the most new members for the remainder of the year.

73's & Good Hunting

W2FBF

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OFFICIAL BULLETIN NR 285 FROM ARRL HEADQUARTERS
NEWINGTON CONN AUG 13 1970 TO ALL RADIO AMATEURS BT

The ARRL Intruder Watch is now into its sixth year of operation, with an impressive record of reports leading to intruders being removed from the amateur bands. Additional work and constant vigilance are necessary. Volunteers, with two or three years amateur experience and good receiving equipment, who can spend two hours a week logging the calls of non amateur stations in the amateur bands would be welcomed. Volunteers please write the Intruder Watch, ARRL, 225 Main Street, Newington, Connecticut 06111AR

(Ed. Note) Looks like a good service project for some energetic, capable GCARC member--any takers?

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OFFICIAL BULLETIN NR 286 FROM ARRL HEADQUARTERS
NEWINGTON CONN AUG 20 1970 TO ALL RADIO AMATEURS BT

The new edition of the ARRL Net Directory is now ready for distribution, earlier than in recent years. This useful operating aid tabulates net listings by frequency, net name and state. An addressed legal size envelope with twelve cents postage will bring your net directory to you by return mail. When requesting, please mention the call and frequency of the station transmitting this bulletin AR

(Ed. Note) Might be a worthy addition to GCARC Bulletin Board.

HAM HERO

Distress signals from the high mountains of Utah reached a ham radio operator in North Carolina who relayed them to the proper authorities and was responsible for the rescue of a Salt Lake City couple and their two children.

Mr. and Mrs. Phillip Gordon and the children were stranded on a mountain road Saturday when their pickup camper got stuck in mud. Since distress signals were unable to reach nearby cities because of the mountains, Gordon aimed them eastward.

The family was rescued Monday and somewhere the unidentified ham radio operator is a hero.

(Ed. Note) Quoted from 9-8-70 Evening (Phila.) Bulletin; this is certainly the kind of ham publicity we like to see!

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DECEMBER 7 CLUB MEETING

Okay Men (and XYL's)!! The summer vacation excuses for not making Club meetings are obsolete! We expect to see a large turnout this month. Program Chairman, Bill Frambes, WB2FJE, informs that this month's program will be slides of the Club activities for this year. Therefore, a good turnout is mandatory and in order!!

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SCHEITLEBUTT (Back After Short Delay)

We were all pleasantly surprised to see excellent mug shots of our own Rose Ellen, WA2FGS, and Bill, W2CDZ, in this month's QST attending the mid-west YL convention. Boy!!, it isn't every day that our members can "make" QST!! FB Rose and Bill, two really A-1 hams and a great OM-XYL team! Obviously, a real credit to GCARC. Rose Ellen is becoming a real photogenic gal as pictures of she (and her BYYL pals) were headlined by QST several issues back. Gee--how about the rest of us? Maybe WA2PVH could drop QST a GCARC FD picture--how about the one of W2FBF with the cigar hiding his face? Better yet, a certain pic of WB2JZX from the Courier Post??

The 10 meter net recently had the pleasure of chatting with Rose Ellen's cousin, Jim, WA3LNL, a real young chap from across the river. Sure glad to meet u Jim and hope to hear u on often.

Rolling along with GCARC---as another achievement is chalked-up by our astute VP, WB2FJE. Bill is to be commended on his appointment as Net Manager of the N. J. Post Office Net. Real FB Bill!!

The Club was saddened to learn of the departure of Bob Spain, WB3RVE for W4 land (Tenn.) where he will set-up a new permanent QTH. Bob was a faithful Club member for many years, served as Club VHF Chairman, 6 M FD Band Chairman, Door Prize Chairman, and contributed

SCUTTLEBUTT (CONT.)

many fine technical articles to X-Talk. We shall miss him--but hope to hear him on 75 M soon for an occasional ragchew. 73's Bob.

Recently learned of the appointment of our Prexy, W2FBB, as an OO! With the way my rig drifts on 10 M, I'm not so sure commending Ken on this assignment is best! Now we know why he's sometimes late checking in on Friday nite AREC sked--he's no doubt searching up and down the band for splatter and harmonics from GCARC rigs! Right Paul?

Most of you have never met (in person) our XYL gal from W4 land (Florida). Bertha (Big Mike), WA4BMC, has broken just about every award and operating achievement record possible (her latest is the Worked All Counties Award--a tremendous undertaking) and can often be found on 20 meters SSB. Did you know she sends personal Birthday and Wedding Anniversary greetings (via mail) to each of her QSL hams? I have received several from her and each card helps to brighten-up and enhance these Anniversary days. She is to be greatly commended for this thoughtful gesture. (Don't know of anyone else anywhere who does this?).

Understand John, WB2GKH, is getting ready to erect his new tower. Did you ever get yours up yet Jim? Was expecting to hear from WA2DNL.

Add Fred Bergman, WB2BFX, 881-4784, to your membership list. Fred (an old member--former Board Member) wants us to thank his XYL for finally giving him \$5. (yuk yuk)

Whattayasay we all get behind WA2VEE and WB2WAK when they ask for assistance with the station displays they are rigging-up? This idea was tried once before (thanks to W2KE) with outstanding success. We can do it again with your help.

Also, let's get behind W2KE (CD net) and WA2WOD and WB2FJE (AREC nets) as they get underway this fall. New ops are always needed and are welcomed.

73's for now

de WA2NPD

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LES BELLES - By Rose Ellen-WA2FGS

Now is the time to get your rig in shape for the days when YLs will take over the bands. Circle your calendars for:

31ST YLRL ANNIVERSARY PARTY - CW - Oct. 21, 22, 1970 - Phone-Nov. 4,5, 1970

More Certificate information follows: (Cont. next page)

LES BELLES (CONT.)

WORKED ALL CONTINENTS - YL (WAC-YL)

1. The Young Ladies Radio League issues a Worked All Continent - YL Certificate to any licensed amateur in the world.
2. Two-way communication must be established on the amateur radio bands with the six continents: North America, South America, Europe, Africa, Asia and Oceania.
3. Contacts with all six continents must be made with duly-licensed women operators.
4. Contacts with all six continents must be made from the same location. Within a given community, one location may be defined as from places no two of which are more than 25 miles apart.
5. Six QSL cards or other written confirmations, showing proof of contacts should be submitted to the Custodian. A list of contacts must accompany the cards and sufficient postage (or IRCs) must be sent to finance their return by First Class mail. The YLRL will not be responsible for any loss or damage to same.
6. Decisions of the WAC-YL Custodian regarding interpretation of these rules as here stated, or later amended, shall be final. Custodian is:

Miriam Blackburn - W3UUG, Box 2, Ingomar, Penna. 15127.

YL CENTURY CLUB Certificate (YLCC)

1. Two-way communication must be established on authorized amateur bands with stations, mobile or fixed, operated by 100 different licensed women amateurs. Any and all amateur bands may be used.
2. Contacts must be made from the same locations. Within a given community, one location may be defined as from places no two or which are more than 25 miles apart.
3. Contacts may be made over any period of years, provided only that all contacts are from the same location.
4. Contacts with YLs anywhere in the world are recognized, provided only that all contacts are from the same location.
5. 100 QSL cards, or other written communications, from the stations worked confirming the necessary two-way contacts, accompanied by a list of claimed contacts, including the full name of the operator, alphabetically arranged (last name first), the call letters, and the date of each contact, must be submitted by applicant directly to Custodian with sufficient return First Class postage.

Custodian: Onie Woodward, W1ZEN,

MAKING AND KEEPING A "SKED"

One of the most important courtesies of amateur radio is making a prearranged contact, or "sked", and keeping the "sked" with your fellow amateur.

As most of us already know, a "sked" is made when amateurs wish to contact each other at a certain time and frequency and mode. Many advantages from making a sked are realized as it gives you a definite time and place to look for the one person you wish to contact. You can adjust your daily routine to make sure you are free at the time of your "sked".

For one reason or another at the other end of the contact, your friend may not be able to make it and should this happen to you there is no doubt in your mind how much time you have spent just tuning up the rig and making an attempt to be on frequency.

A "sked" should be kept without any delay and if for some reason you are unable to be on frequency it is your responsibility to immediately use the land line to find someone else to keep the "sked" for you so the other party is not left hanging on frequency just waiting for you. With all the traffic nets, and those ready to aid in most any emergency, it should not be much of a problem to get someone to fill in during your absence.

A personal experience of more than one time has been most upsetting to many of us -- rearranging our time to meet a "sked" -- getting the rig tuned up and ready, then find a negative reply to your call. It is even more upsetting to find out later that the other party "forgot" about your "sked". A "sked" important enough to make should also be important enough to keep.

Many regulars keeping "sked" may have a beforehand agreement that if not heard in a certain time they are to QSY to another frequency or look for them the following day, the following week or any given prearranged time. This way both parties know exactly what to expect.

Quite often when an offense has been made of not keeping your "sked" it may be difficult to get another "sked" with this same person.

One time several months ago, I had a "sked" which meant repairing antennas from a storm quickly to be on frequency. The hot July heat did not stop the work of getting ready and also anxiously awaiting the time to arrive. What a big disappointment to call the party over and over with a negative answer. Later when I had asked "what happened", I was told "I forgot". No future "sked" was proposed, as you could well believe.

In the Amateur's Code by Paul M. Segal, we learn that the amateur is loyal, progressive, friendly and balanced.

The slogan "to have a sked, keep a sked" applies to hamming as well as any other type of verbal agreement with people.

HIGH SWR, GOOD OR BAD

Sure it's bad, we all know that! But just how bad? And how high is high? If, for example, our SWR bridge measures 3 what does this really mean in terms of reflected energy (power) coming back down the transmission line into our rig? After all, it's this reflected power indicated by a high SWR that is of concern; not simply some ratio between impedances, or voltage, and current maximum and minimum values along the line (the SWR value). Although our amplifier meter won't tell us, we nevertheless have to load (drive) the final more heavily in order to overcome the energy barrier created by this reflected power. This means a greater amount of current flow through the tube is necessary to produce the desired operating input power as indicated by the final meter values. This greater current flow may very well exceed the safe limits specified by the manufacturer thus reducing the usual lifetime of the tube.

The best way to measure the extent of the high SWR problem is to calculate the value of a term called the reflection coefficient (K) given as:

$$K = \frac{SWR - 1}{SWR + 1}$$

For example, if our SWR is 3, then $K = 3 - 1 / 3 + 1 = 0.5$. The K value, like the SWR, is in units of either current or voltage. Now, remember that power (P) = volts (E) x amps (I). Because K is both voltage and current, we can calculate the reflected power in watts simply by substituting the value of K for E and I in the power equation. Thus, in our example:

$$P = 0.5 \times 0.5 = 0.25$$

0.25 (or 25%) is then the amount of reflected power. Therefore, if your rig is loaded up to 100 watts input, you have really increased the power to 125 watts in order to overcome the 25 watts (25%) reflected power. To calculate the true plate current, it is a simple matter to determine I from the power equation but using P = 125 watts, i.e., $I = 125 / \text{operating voltage}$. The tube specs can then be checked to see if the maximum value for plate current is being exceeded. Chances are, an SWR of 3 may place a tube near or over its safe limit (if loaded to its usual operating values) in addition to the ham operating with a 25% loss in output power.

de WA2NPD

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FOR SALE

SWAN 350, AC SUPPLY, MIKE - \$300 - Steve Carr, K3ZGO,

48' Tower (aluminum) PT Preamp (AMECO) Contact Bill Frambes

40' Crank-up tower (tilt over) with CDR rotator with cables.....\$100.
Heath Phone Patch.....\$16. Heath CB Base & Mobile complete.....\$75.
Call Mrs. Walton

S.J.R.A. Project X 6 Meter Trans & Converter...\$5 (Steve Parkz at 227-3856)
Bosch & Loomb optical barrel - any offer. Note: Builders of QST articles:
power supplies, components, Bud cabinets, trans., chokes, GE Pyranol cap.
(2 mf. 5000 VDC.), 10C pcs. of hard alum. 12"x12"x1/16". Call Steve