

August, 1971

GCARC

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AUG. CLUB MEETING - AUG. 4th - AT THE CLUBROOM

During my term in office, I have stressed the idea of having an intercom network between club members. A couple of nights ago, a few of the local 6 meter gang met on the Club Frequency (50.9 Mhz.) and had quite a round table.

With coming of the end of the summer months and more of the club members being home at nights, I would like to see more activity on the club frequency so we could bring the club members together more often than once or twice a month. In doing so, we could get to know each other better and have an enjoyable time doing it.

During the Field Day activities, good old Murphy sure did his better than average job. This year's totals were: 1 antenna center insulator; 1 Utica 650 burned, and a couple of other items that I am not happy to report. It seems that for the first time in the club's use of the Christian Day School facilities we had some reports of damage to the school property. I am not blaming anyone, but I think that we could have been a little more careful with the school's property and possibly saved the club the embarrassment of trying to explain how it happened and that it will not happen again (we hope!).

Glad to see so many members out at the club's picnic. It seems that all the members had a good time shooting the breeze with other members. Anyone interested in starting to get a place and time set-up for another club dinner? If so, let me know. I really think that we should have more club activities like these.

Well, I hope to see you at the August meeting in the Club House on Wednesday the 4th at 8:00 p.m. or 20:00 pm., whichever you prefer. I understand the program will be a great one this month.

73 Bill/WB2FJE

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CLUB MEETING AUGUST 4TH AT THE CLUBROOM: 8:00 PM SHARP!

C'mon out to the annual August club meeting where program chairman, WB2JZX, has arranged one of his famous "eyeball QSO's." This is a real opportunity to beat-the-heat in our air conditioned meeting hall (we open the windows and the inside air is "conditioned" by some outside air) and munch-on some refreshments prepared by our own WB2GKH. Expect to see all there unless you are out of the state on vacation, etc.

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CLUB PICNIC ENJOYED BY MANY

About 40 club members, XYLS, and harmonics spent a very delightful day by the shores of Lake Garrison on Sat., July 24. The WX was outstanding, the picnic lunches were great, and the swimming, boating, etc., was excellent. The ring leaders of this affair (WB2GKH, WA2OVQ, hosts WB2PVI and W2LVW) handled all arrangements A-1 OK. Consensus of

CLUB PICNIC (Cont.)

opinion agreed the highlight of the day was observing W2CKX do his famous jackknife off the high board closely followed by W2CDZ and WA2WOD racing each other in the paddle boats. It was great to see W2LVW looking like his old self again and seeing Jim up and about. Jim was even thinking in terms of heading back to work someday-- perhaps around Thanksgiving time (Hi).

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LATE FLASH!!

Add George Stuart, K2SOL, on to your most recent membership list printed in last month's X-TALK. Due to an oversight (indeterminate bookkeeping entry error), George's name was inadvertently left off the master copy. The club does not take kindly to the thought of having any of our Extra Class members missing from the roster, and we welcome K2SOL back on with open wings!

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4-SALE

Heath CW transceiver, HW-16, less speaker, A-1 condition. A steal for \$75. See WA2OVQ,

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AUGUST DOLDRUMS

Because of vacations, extra duties at the ol sawmill (Du Pont), and the fact that we were a bit late with the July X-TALK, this month's issue will be somewhat abbreviated. But don't be alarmed; our regular features, DX-Diary, Scuttlebutt, Bulletins, etc., will appear as usual next month.

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CONTEST CALENDAR

August 21-22 New Jersey QSO Party

This contest has been poorly attended by our club and hams in Gloucester County in general, there being only one or two entries from Gloucester for the past five or more years. As a result, those of us who did enter had a real ball as we were sought after like rare DX. One WA4 said to me on Sunday of the last one that he had been looking for me all Saturday and was getting worried that he would not work Gloucester that year as I was the only entry the year before. Pileups abounded once WB2FJE and I arrived on the bands. Since I will not participate this year because of vacation, how about some help for Bill in taking care of all the requests for Gloucester County QSO's? Even some DX stations are looking for us in this one.

CONTEST CALENDAR (Cont.)

- Times - (Two Periods) 1900 GMT Sat. to 0600 GMT Sun. and
 1200 GMT Sun. to 2300 GMT Sun.
- Sponsor - Englewood ARA
- Rules - The same station may be worked once on each
 band and mode. (i.e., 40 phone, 40 cw,
 20 phone, etc.)
- Exchange - Send QSO number, RST, and County.
 Recv. QSO number, RST and ARRL Section.
 (ARRL Sections are listed on page 6 of every
 QST.)
- Scoring - W/Ve QSO's are 1 point each. DX 3 points.
 Multiply QSO points by the number of ARRL
 Sections worked. (74 max.)
- Frequencies - 1810, 3555, 3740, 3930, 7060, 7275, 14075,
 14280, 21100, 21375, 28800, 50 to 50.5, and
 144 to 146 MC.
- Awards - Englewood ARA will issue a certificate to
 the top scorer in each county. Gloucester
 County ARC will issue a certificate to each
 club member who makes 40 or more QSO's.
- Logs - Forms will be available at the August meeting
 and will be collected at the Sept. meeting.

The reason that the N. J. QSO Party is so well attended by out of state stations is that there are so many N. J. stations on the air. Let's get Gloucester County, and our club, into the act.

How about it?

73,
W2FBF

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FOR SALE:

1--SB401; HQ-180A; Hunter Bandit Linear Amplifier for information call Darron Neron

FOR SALE:

2-meter FM Mobile Transceiver--12 Volt
2-meter FM Base Transceiver For information call Tad Deuber

"LES BELLES" By Rose Ellen - WA2FGS

It is time to "beat the heat" and think of cookouts, hamfests, and picnics. Whatever the season - we always have to keep eating meals in mind.

We take for granted the seasonings as specified in any given recipe such as "curry powder", "ginger", "cinnamon", but when it comes to "sesame" do we just see the word and immediately turn on the one-eyed monster--"SESAME STREET" time!

SESAME is a symbol of Good Luck. Three or four centuries ago, many herbalists believed in what was then called "The Doctrine of Signatures". The substances of this doctrine was that each plant could somehow offer man a hint as to its proper use. A dandelion, for example, being golden, could cure jaundice. And Solomon's Seal, with its seal-like markings, must surely, it was supposed, close wounds and heal broken bones. Every plant, in short, possessed an appearance, an environment, and habits that served as their labels.

Since sesame seeds pop from the hull as soon as ripe, scattering in all directions, this seemed to be a plant which could not only free itself from all barriers, but could serve to open any lock, and discover any secret place. When Queen Scheherazade--telling the story of Sinbad the Sailor--needed a password to open the robbers' treasurer trove, she chose, "Open, Sesame!"

Sesame is among the world's oldest spice and oil-seed crops. In fact, it is so old that folklore relates that the gods of the ancient Assyrians refreshed themselves with sesame wine before they began the arduous task of creating the world. A drawing in an Egyptian tomb, dating back 4,000 years, depicts a baker adding sesame seeds to a dough. As revealed in the Old Testament, sesame was well known in those times and was an important food source in the days of Cleopatra. (We now know that it is fabulously high in protein). Greek soldiers, too, carried a supply of sesame seeds for emergency rations. (May be a good thing to use next Field Day, too.)

Since toasted sesame seeds have a delicate, almondlike flavor, they can be used, more or less in unmeasured amounts, in any dish in which chopped nutmeats would be included. Untoasted when purchased, they can be used without preliminary heating if scattered on top of dishes about to be baked, as crumb-topped casseroles, or on any surface that will brown during the course of cooking.

But, if sesame seeds are to be stirred into batters and doughs or sprinkled on salad greens or butter (cooked) noodles, they must first be toasted. To toast, scatter sesame seeds thinly in a baking dish and bake 20 to 22 minutes in a moderate oven (350oF.) or until they are pale brown and of full flavor.

Whenever you plan your next meal - cookout - picnic - it might be well to examine the type of seasoning or spice you plan to use and think of the added flavor to your choice recipe.

(Ed. Note: I went right to the kitchen after reading this; FB WA2FGS!)

73,

Rose Ellen

RAMBLINGS OF A GHOST WRITER

How many of you fellows know how to convert your local time to GMT? This is a must in ham radio, and something that each and every ham should know. All QSL's should be kept in GMT instead of your local time. If you don't know how to do it, here's a simple chart you can make for your shack. Start with 7:00 (EST) and let it equal 0000 GMT, then 8:00 pm would be 0100 GMT, then 9:00 Pm would be 0200 GMT, and so forth until you come back to 6:00 Pm which happens to be 2300 GMT. If you will make up one of these charts and keep it in front of you, you will soon become acquainted with GMT.

Another good thing is to make a list of the various operating frequencies allotted to the classification of your license because, as you know, the frequencies recently were changed by the FCC. Use these charts and keep out of trouble by staying within the band. ALSO, KEEP A CHECK ON THE RENEWAL DATE OF YOUR LICENSE, AND OBTAIN THE NEW COST SHEET OF THE VARIOUS CHARGES FOR LICENSE ISSUANCE.

Did you know that third party messages handled by the ham operators are in effect with the following countries: BOLIVIA, BRAZIL, CANADA, CHILE, COLUMBIA, COSTA RICA, DOMINICAN REPUBLIC, ECUADOR, EL SALVADOR, HAI, HONDURAS, ISREAL, LIBERIA, MEXICO, NICARAGUA, PANAMA, PARAGUAY, PERU, URUGUARY, VENEZUELA. Beware that you don't get hooked with a country that does not recognize this service.

Another fact that goes hand in hand with ham radio is radio controlled units, such as, model airplanes, model boats, and model racing cars. Here again, the principle of transmitters and receivers are employed. They are a lot of fun and I know that we, as an up and coming club, have room for members who show interest in these projects thus broadening the scope of the club. Some of the older members will recall the wonderful exhibition of model airplane flying put on a few years back during the club picnics. Needless to say it did get us a lot of publicity--even bringing hams over from Philly and surrounding districts to witness the flying. I personally feel that the more avenues for electric work we employ in the club the more diversified will be our pull in getting new members into the club.

I can see more and more interest and activity in our club; more members are taking active part; more work is accomplished, and word is getting around that GCARC is really moving. All this is the result of hard work of several club members with full cooperation of the membership as a whole. Good work fellows, keep it up and we will all get behind you.

My attention was directed to the various club members calls that were heard on the different bands during the recent DX contest. It was most interesting noting the number participating and indicates the interest our members are putting forth in a project that theretofore was sadly neglected. Quite a few rare DX calls were heard, and I see many of our members were able to snare some of them. The other day I happened to be talking to a ham in Iowa, who had his station on the air for five years, and had never worked a DX station. Not that he hadn't tried, for he had the necessary power and antenna. But for some reason he couldn't work DX. This must be very discouraging. He asked me what the trouble was for which I had no answer.

Well my old friends QRM, QRN, QSB, and static are breaking up my train of thoughts so I had better give it up for a while

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

TOWERS

The wrecking of many high radio towers by hurricanes and other severe windstorms indicates the need for stronger design. The American Standards Association, after extensive study, has prepared recommended wind loadings considerably higher and on a more accurate basis than those previously used by radio-tower manufacturers. (A58.1, Design Loads in Building Codes and Structures.) They take into account the geographical location of the tower, increase of wind pressure with height, difference in loading on round and flat members, and increase of pressure acting on members on more than one face of the tower simultaneously.

DESIGN LOADS FOR RADIO TOWERS Wind Pressure, PSF

<u>Tower height</u> <u>Above ground, ft.</u>	<u>Except hurricane areas</u> <u>125 miles or more inland</u>	<u>Hurricane area-125 mi.</u> <u>wide coastal strip</u>
Less than 30	15	25
30 to 49	20	30
50 to 99	25	40
100 to 499	30	45
500 to 1000	35	55

EXAMPLE: 600 ft. tower located in Illinois. Wind load varies from 15 psf at base to 35 psf at top.

55 ft. tower in New Jersey has loads of 25 psf at base varying to 40 psf at top.

The design loads in this table approximate the ASA recommendations. The American Standards Association uses a different maximum wind velocity for each of many different zones, while this table includes one for the United States (and Canada) except for the hurricane coastal strip, a second and higher velocity for the 125 mile wide coastal strip, and a third still higher velocity for along the Gulf and for Puerto Rico. Either the ASA recommended wind loads or the loads shown in the table should be used in designing new towers.

Most failures of self-supporting or guyed towers with excessively high cantilever sections at the top are the result of intermittent gusts causing excessive swaying. If a tower is swaying slightly from a wind of moderate velocity and if recurring gusts strike the tower at the end of its swing, increased deflection and swaying occur. This creates stresses far in excess of those indicated by the design loads normally used and may be sufficient to cause failure. Excess loading from recurring gusts may be very infrequent.

It is not practical to use sufficiently high design loads or to strengthen existing self-supporting towers to resist safely recurring gusts of high velocity. Consequently, an occasional failure of self-supporting towers may occur in gusty windstorms even though the design is based on the wind loads in the above table. Tower with guys at multiple levels reduce to a minimum the possibility of failure from recurring gusts.

TOWERS (Cont.)

Annual inspections of towers are important. The inspection should determine that bolted connections are tight. Have all deflected or corroded structural members, corroded guys, or cracked or injured insulators repaired or replaced.

(Ed. Note: Somebody gave me this FB article many moons ago for publication, and, finally, here it is!! But, I forgot who gave me the article--who was it??)

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ONTARIO SCIENCE CENTER OPENS VE3OSC NOW ON THE AIR

September 27, 1969, was the opening day for about 20,000 invited guests at the Ontario Science Centre. This is not a fair or exposition, but a permanent building similar to our National Science Academy, or the like. After the official opening at 16 minutes and 16 seconds past 11:00 a.m. E.D.T., amateur radio station VE3OSC went on-the-air. Note the call letters are very appropriate, too. VE3DWG/M and VE3FBH were the first official contacts on 2-meter FM with VE3CSO operating VE3OSC. The station is running a Collins kilowatt on the low frequencies and the 2-meter rig is a 4-channel Motorola Dispatcher, with crystals for channel "A", and repeaters VE3RPT, VE3OSH, and VE3MOT. The antenna is a fifteen element circular polarized Telrex near the top of the 120-foot sky needle, and is fed with 3-inch Heliax.!

6-meter activity is centered around 52.525 MHz which is the international calling channel. So far, there is activity in Detroit, Windsor, Toronto, Buffalo, Rochester, Cornwall, and Montreal, with more people getting on all the time. During the summer months, there are quite a few good openings and W4's, W5's and WØ's are worked by Canadian stations. Plans are now being made for the installation of a repeater in the Toronto area with an input of 52.76 MHz and a 52.525 MHz output. These are the same channels being used by the Columbia, South Carolina repeater, which can be worked during band openings. Anyone interested in 6-meter FM rigs should check with Chuck Sonstenes, VE3KQ.

With increased QRM on channel "A", base stations are switching to channel "I" - 146.76 MHz -- for ragchewing. This channel is being kept clear of repeaters for this specific purpose.

About the 112 foot Telrex rotating tower - the whole tower is rotated by a chain drive from a large motor in the base, and carries with it full size beams for 2, 6, 10, 15, 20, and 40 meters. That's right--a full size three element forty meter beam! The mast and antenna system alone is estimated to be worth in the neighborhood of \$8,000. For high frequency bands the station consists of a Collins 5151 receiver, 3253 transmitter, and 3051 Linear amplifier for daily operation. Visiting amateurs may operate this equipment, with proper clearance and identification required by Canadian Government.

Monday, January 25, 1971, was another significant occasion for amateur radio in the Metro Totonto area. Over 250 amateurs and friends attended the opening meeting of the Ontario Science Centre Amateur Radio Club. The guest list included hams from XE1, W5 and VE7 as well as my fb friends VE3ASZ-Betty and OM VE3AST-Cliff. CROSSTALK is fortunate to have these Canadian friends share the above information with us. Thank you very much.

de WA2FGS