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Greetings to the fellow members of the GCARC for the interest shown in the last issue of CROSSTALK and also to those who attended our last monthly meeting, for it was at this meeting that fellow member Bill Culpepper, WB2NNB, gave a very interesting talk on antennas and showed slides of the various stages in the construction of his self-supporting 80-ft pole, explaining the various difficulties encountered during construction and erection. I know that a lot of the members obtained a wealth of knowledge concerning this kind of work or hobby. The club's thanks go to Bill for a job well done.

We were very pleased to have the following visitors attend our meeting....WA2PGJ Paul Thompson,
WB2PGE Chuck Capasso.
Harry Maxfield,
you are always welcome.

, WA2VXT
Come again fellows

The following members have joined our club, WA2DNL Jim Mauro,
WN2EHD Steve Bryant,
and K2SOL George Stewart,
(George was a former charter member of GCARC who dropped out and has watched the progress we have been making and decided to rejoin our club.) From time to time we want to get more of the old members back into the fold along with a lot of new members. So anyone whom you think would make a good prospect latch onto him, and bring him out as a visitor to one of our meetings and let him see for himself.

NOTE.....I would like to ask the club members to save any foreign postage stamps they might receive and either bring them to the club meetings or send them to me through the mail. These stamps could then be divided among any of the club members who might also be stamp collectors.

WB2SCK Bob,

OFFICIAL BULLETIN NR. 162

Attention VHFers. The first edition of the ARRL directory of stations active on 220 Mc. and higher is now available. The comprehensive information includes station, location and bands as well as operator interests in meteor scatter, moonbounce and Oscar work. Further details on antenna information also appear. United States and Canadian amateurs may obtain a copy without charge by sending a self-addressed envelope, with 12 cents U.S. postage, to ARRL 225 Main Street, Newington, Connecticut 06111.

THE BIG PARADE...Labor Day began with a parade on the first Monday in September, 1882. Men marched to proclaim that labor is an honorable calling, deserving recognition and respect. In a larger sense, the day can be a reminder that we all are called to labor- for the spread of friendship and good will; for higher standards of honesty and decency; for peace in our own families, between neighbors, in

our Nation and throughout the world. THIS IS ONE HIT PARADE THAT WE SHOULD ALL UNDERSTAND AND JOIN.

It's getting so that a message delivered in its original condition is a rarity. Again, phone and C.W. operators are equally to blame, and again there is no specific remedy except to do better. The trouble is not always on the air. We can't read our own or somebody else's writing, or we have too many "sames" in the message and get them mixed up.

OFFICIAL BULLETIN NR. 164

Attention Canadian Amateurs. ARRL, the Radio Society of Ontario and Radio Amateur du Quebec, Inc. met with the Canadian department of Transport officials last week to protest the increase in Canadian license fees from two dollars fifty cents to ten dollars a year, with an additional fee of six dollars for amendments such as change of address. The amendment in fees, approved by the cabinet, will require further cabinet approval for any possible change. Briefs are being sent by the above groups and should also be sent by local Canadian clubs to the administrator of Transport, Ottawa, with a copy to the local member of Parliament. ARRL Director VE3CJ would also appreciate copies.

Note...these are the things that show you how lucky we are here in U.S.

PROGRAM.....

Phil Catona, W2JVA, our RETTY member of the club will put on a talk and demonstration of RETTY at our June meeting. It will be necessary to help Phil transport his heavy equipment up the three flights of stairs to our club room, so let's be on hand and help with this chore. Phil (Mr. Retty) is one of the most well-versed hams on Retty in this section and it is always a pleasure to hear him and see the demonstration of this technique. You hams that have never seen this demonstration are in for a big treat, so anyone that you think might enjoy this entertainment - bring him along. Learn at first hand what the other side of Amateur Radio is like.

OFFICIAL BULLETIN NR. 165

FCC has amended the Amateur rules effective July one providing additional privileges in 1800-2000 kHz. The new arrangements results from the work of a special study group in Washington during the past year headed by the Coast Guard and with participation by ARRL representatives. This FCC action grants substantial increases in available frequency segments as well as power in most areas of the U.S. June Qst will have full details. Please note the effective date is not until July 1, 1968.

CD BULLETIN POLES e.g.....

- 1- Reduce the number of CD parties per year, Yes 123, No 349
- 2- Apply versatility ratings to appointments, Yes 185, No 188
- 3- Revising appointment structure, Yes 171, No 211
- 4- Eliminating multipliers from Field Day & Nov. SS on FD, Yes 106, No 416, On the SS we had, Yes 177, No 371
- 5- More credit for 100% Emergency power, Yes 416, No 62
- 6- Proposal for more credit for FD msg. handling, Yes 306, No 181
- 7- Limit FD set-up time, Yes 344, No 143
- 8- Proposal to have an unannounced FD, Yes 238, No 239
- 9- A geographical multiplier for FD, Yes 253, No 147
- 10- An unannounced SET, Yes 224, No 91
- 11- Move NTS to "daylight saving time", Yes 223, No 137
- 12- To substitute an overall points for BPL, Yes 162, No 102

Incidentally, complete FD rules have been sent to all affiliated clubs and will be published in May Qst. Extra copies are available here at CD for anyone wanting them.

What's the GCARC standing on these matters?????

Fundamentals of Transmission Lines.....

Transmission lines are used to convey energy from a source to load. They can be of many types depending upon the application and frequency involved. The length of the line can be a fraction of a wavelength as in the case of a 60-cycle power distribution line where a wavelength is approximately 3,100 miles, or it can be many wavelengths as in the case of a radar transmission line operating at 30,000 Mc. where a wavelength is only 0.39 in. At the lower frequencies, open-wire lines are employed and conventional concepts of current flowing through conductors and potential difference between conductors may be used without restriction. At high frequencies, open-wire lines are replaced by coaxial lines, and at very high frequencies (1000 Mc. and up) waveguides, consisting of hollow metal tubing are used.

Transmission lines contain "distributed constants", i.e., resistance, capacitance, inductance, and conductance spread uniformly along the line. An analysis of transmission line behavior can be made, however based on the assumption that the constants of the line are divided into small sections of lumped elements, in which case the accuracy of the assumption and the validity of the results increase as the number of such sections increases for any given length of line.

THE AMATEUR RADIO ACHIEVEMENT AWARDS DIRECTORY MAY BE PURCHASED FOR \$4.00. The address is Box 7326 Euclid Station, St. Petersburg, Florida 33734. This is the most up-to-date directory for awards in existence; it has an up-to-date text on how to acquire Amateur Awards listed by Call Area's in the United States and Canada. On

page 4 of this paper read what their Charter entails and then make yourself acquainted with this extra hobby that so many of the Hams go for. After all this is a form of achievement and should be an extra inducement for you fellows who like to compete in contests. The monthly publication that is associated with the Amateur Radio News is the "Signal Report" and will from time to time carry a list of a few picked awards for each issue. This has been going on in this publication for the last three years.

A Letter

Area, which stands for Amateur Radio Editors Association, was founded August 7, 1961. Its purposes are to encourage those who want to (and can) write about the hobby of Amateur Radio. To give recognition to the Editor of the local amateur Radio club paper as an important member of the club's staff. To aid those who would write an Amateur Radio column for their local paper and to encourage radio amateurs, through their writing about Amateur Radio, to better public relations between the Amateur and the general public. Radio clubs are urged to pay the dues for their editors and enroll him, or her, in AREA. This association is NONPROFIT. It is International, it will not publish a magazine. The AREA secretary issues monthly reports of AREA activities. AREA is not a radio club, it is an association of persons in the amateur radio news media. It's members are issued PRESS CARDS. The cost is \$7.50 for the first year----\$5.00 per year thereafter. Note...this happens to be excerpts from a letter that was passed on to me and of which I pass on to you for what it is worth....Ed.

Say...how would you members like to have your very own club room? You can you know if you really want it bad enough. This thought is motivated by the report to me that several of our members are unable to climb the nasty three flights of stairs to our present club room due to their physical condition, a condition certainly not of their choosing. And there isn't anything more they would desire to do than to attend the meetings. To me, it seems ashame when we have members with the desire but are unable to use it. Let's give this idea some thought??????????

CHARTER

AMATEUR RADIO ACHIEVEMENT CLUB

The Amateur Radio Club of Florida, an organization started several years ago, for the purpose of the propagation of Amateur Radio appointed a committee Feb. 1st, 1967 to investigate the possibility of starting an achievement club and publish a directory.

After much correspondence and investigation there were over 400 requests from the entire United States and abroad that we please go ahead with plans to start the Club. This in its entirety would be a simple procedure with some ability that the committee had in that direction but there remained a few obstacle courses before such steps could be taken, namely, legality, financing, endless correspondence, printing plus the promotion that it takes whereby the plan can exist and stay in business and still be beneficial to Amateur Radio. There were many committee meetings to work out each of the details.

The details of legality and financing were promptly worked out. The correspondence promotion will be going on indefinitely. All legal details are in order. The financing is private by individuals involved with no set repayment terms which will no doubt be over a period of years if ever.

The purpose and charter is briefly that:-

1. It will be called The Amateur Radio Achievement Club.
2. Purpose will be The Propagation of Amateur Radio Through Achievement Awards.
3. Amateur Radio is a dignified Avocation and nothing will ever be done by this club that would have a tendency to lessen that dignity.
4. Public Relations and promotion of Certificate Sponsors our sole aim to the end to dignify this segment of Amateur Radio.
5. Publish a directory called Amateur Radio Achievement Awards Directory, Such Directory to be revised Annually.
6. To have monthly news pages in SIGNAL REPORT in reference to Awards.
7. To cooperate with all Amateur Radio Groups in the world without in any way being involved in Amateur Radio politics.
8. If profit should occur to pump it back into Amateur Radio in one manner or another as the parent company, Amateur Radio Club of Florida is now doing.
9. Promote public relations of Amateur through honorable certificate hunting.
10. Recognize achievement as such with honor and distinction to those who by reason of such accomplishment have reached such that their awards are a dignity to Amateur Radio.

AMATEUR RADIO CLUB OF FLORIDA,
Achievement Award Committee,

_____, Secty
Jack Adams, W4NOK

CONAR, Dept. EC8C, 3939 Wisconsin Avenue, Washington, D.C. 20016 is the address where a new concept of electronic gear may be purchased for \$44.95 in kit form (\$5.00 down - \$5.00 monthly). The name of this article is AUDIO-COLOR, a unit that lets you see your music. --Quote, "Easy to build, easy to install". All transistor audio-color adds a visual dimension to musical enjoyment. A brilliantly moving panorama of color casts dancing images on a sort frosted screen, reflecting rising and falling volume with each beat of the music. Here's a truly unique and exciting new musical experience. "Here is something really new and should give the average ham quite a kick in building. It's different. Are you interested"????

NEW---NEW

Radar Detector. Miniature microwave receiver clips to sun visor to alert driver of approach to a controlled radar speed zone well in advance of critical speed zone clocked area. Operates on 2 penlight batteries, has a two-mile range and is completely transistorized. Device pick up radar signal from a police vehicle and emits a steady beep to warn drivers to slow down to posted speed before he reaches the zone where his speed is clocked. Legal in 48 states. Price \$44.95, and may be purchased from SOLAR ELECTRONICS.....

LOOKING AHEAD

The various services' needs for chunks of the crowded electromagnetic spectrum are putting heat on the sprawling TV band. Mobile radio desperately requires breathing space, and it's users have their eyes on the lower UHF TV band, particularly channels 14 to 35. Most proposals envision the use of this space on a shared basis with TV broadcasters. The latest voice to be heard is that of the Secretary of Transportation, Alan Boyd. Noting that many of the UHF TV channels are still vacant, he has proposed that unused frequencies be leased to the land-mobile services until the assigned TV station is ready to go on the air. Many more mobile systems could be accommodated. One TV channel can support 240 radio channels.

A PLEA.....

I am still looking for articles of interest for this paper "CROSSTALK". I need badly, more members to contribute articles for my staff. There are a lot of subjects not being used simply because the various members, who offered to supply me with this information, have failed to fulfill their pledge. When I was approached to edit this paper, I was offered all kinds of help from club members, some of whom have as yet to submit their first item. I am grateful to Doug Keating, who supplies me with a page each month, and also to Doug Prohock for his printing of the paper, and to the others who help in the mailing of this paper each month. However in all fairness, if you really think that I am going to carry the ball alone, you are not to be taken. If the matter is important to you, please let me know if you are willing to help me in your past. I

cannot think of everything to write about, and that is where you come in, e.g., Traffic, Membership, Dx, Technical, Stories, Incidents, Public Relations - are just a few of the subjects that should be covered. This is not a threat, but simply a reminder that an individual can't just go around making promises and not fulfilling them. HELP ME.....

Many of you hams have had interesting incidents happen during your hamming that you like to look back upon at a later date and relate. Well I had one happen when I lived in Jefferson, N.J. It started out with a shack that I had built in my back yard, and was connected to the main home with an intercom (and a good one at that). Well this a.m. I was talking to a friend of mine who lived in Hamburg, Iowa, who had never met the XYL, and, as I was anxious to have her meet Him and his XYL, called her over the intercom to come and talk with them. Of course the rig was on the air all the time, and her voice came back over the intercom stating that she was in the process of taking a bath and could not come down at that time but would be out as soon as she had dressed. I had repeated her message to my friend in Iowa, who informed me that he had heard Mary, (my XYL) taking her bath. Well needless to say it was quite amusing, but was more so when three weeks later I received a letter from a short wave listener from HARROW, ENGLAND, who reported how he enjoyed hearing Mary take her bath. You know things must be pretty bad when a person can't take a bath unless it is heard half way around the world.

Ed Note...this is the type of material that makes for interesting humor. You certainly must have had equally humorous incidents.

Don't forget to check your receiving and transmitting tubes in your rigs. One uses them for years on end without thinking of checking the merits of the tubes. This is very important especially as far as oscillator and driver tubes are concerned. The most important things to look out for are, 1-drive to the following tube, 2-sufficient and proper bias, 3-proper emission from the tubes in question, 4-proper plate & screen voltages. If one has the proper drive and bias on a tube, the said tube may have the voltages increased in order to get greater output. I remember when the 807 tube first came out years ago, hams experienced a lot of trouble with them being used as doublers and drivers. They claimed the tubes would take off, become soft, and soon lost their efficiency. I used this tube with excellent results and never had one minute of trouble with them having used some of the tubes for two or three years. The secret was that I used the tube the way it was designed to be used. I took the recommended plate voltage, screen voltage, and bias voltages and plotted a chart, keeping in mind the proportional relationship of screen to plate to grid drive. I was soon running this tube at double the ratings, getting enough drive from this "doubler" to drive a pair of 35T's to 250 watts input on 20 meter

phone with 100% plate modulation. They said that it couldn't be done, but I did this in 1940 and not only for one year but several. So if you want the best out of your receivers or transmitters or speech amplifiers, check those tubes regularly and don't be surprised if you come up with one that is shorted internally, leaking, or way down in emission.

QSL

Are you ashamed of your QSL? The club has installed a nice new board in the club room especially for the mounting of members' QSL's. This was put up with the idea that all of our members would see that their card was up on the board. A sort of a visual membership directory for visitors, etc. So far I believe that we have the grand total of 15 or 18 QSL's. Now this board must hold at least 100 cards so you can see the amount of board that needs filling up. I don't see where it is asking too much for your cooperation in this matter. If you are unable to put it on the board yourself, send it in with a friend, who will mount it for you, but regardless of how you do it, GET YOUR QSL ON THAT BOARD.

One of the hardest things to do in life is to try and please everyone all the time. There are fellow club members who are willing to try, how about you?

For the benefit of some of our newer club members I would like to review a few facts about the "Interview" column.

The first of the general line of interview was a short article in each of the early issues of Crosstalk, entitled "Profiles of a Ham". The Profile series consisted of ten different bits of information and appeared in Crosstalk in 1963.

Early in 1964 I decided to expand the Profiles series a bit and try to get just a little more information on some of our club members into each issue of Crosstalk.

In 1964 and 1965, fifteen different articles appeared in Crosstalk under the heading of "An Interview With _____".

With the revival of Crosstalk into a regular monthly occurrence and knowing the difficulty the editor has of compiling the necessary articles into a paper like ours, I once again will endeavor to get the Interview column going again. And I hope you will find it enjoyable, informative and interesting.

Harry McCormick, WA 2SEA

Williamstown used to be known as "Hamtown", not because of Amateur Radio, but as the story goes; years ago, before my time, there was a glass factory located at Williamstown and towards the end of the era of hand-blown glass the factory ran into financial difficulties and couldn't meet the payroll regularly. So the glassblowers would go to the company store and get their pay partially in Hams, hence the name "Hamtown".

WA2SEA

AN INTERVIEW WITH WB2BVW

by Harry McCormick, WA2SEA

Our interview this issue was the result of a very interesting QSO on six meters with Bill Farr, WB2BVW of Williamstown, N.J.

Bill is a native of Williamstown and was born on May 15 1952. Quite a coincidence because I also was born and raised in Hamtown. Don't know how many of you fellows remember Williamstown being called Hamtown, but that was its nickname many years ago; but that's another story. Also one of my children was born on May 15th

Bill is a sophomore at Williamstown High School, where he is pursuing the academic course.

In July, 1967, Bill got his Novice ticket, followed in March of '68 by the General Class ticket. And on May 6, 1968, Bill was issued his Third Class Radiophone license.

You may find Bill almost any place on the ham bands between 80 and 6 meters, AM or CW. He usually operates daily after school and until about 10 PM but of course on the weekends his operating hours are somewhat expanded. One of Bill's favorite bands is 80 meters, but since he got the 6-meter rig in May he has been spending a lot of time on 6 meters.

Bill is active in the Williamstown High School Radio Club as well as our club. He is also active in RACES and is a member of the ARRL. (W.H.S.R.C. is WB2ZZI). In our club Bill has taken on the job of mailing crosstalk each month.

In the shack Bill has a DX-60a, SX-110, and SR-46. For antennas he uses dipoles on 80 and 40m., a home brew rotatable dipole on 20, 15, and 10m. and a 5-element beam on 6 meters.

Bill is a member of the Rag Chewers Club. He is awaiting word of the results of his operations in the Novice Round Up for the Southern New Jersey section, and VHF QSO party for Novices, (Hope you take first place Bill).

Bill has 42 states confirmed and has worked 30 countries with 10 confirmed.

In addition to Amateur Radio Bill is interested in stamp collecting and model airplanes.

SCUTTLEBUTT

Bon Voyage to W2AFZ; Della went to Bermuda for a week of restful bliss. Guess by now she is home again and hope all went well this time around.

Received some kind words from W2GQK up North Jersey way concerning X-Talk. Hope Jack can pay us a visit some meeting night this summer. It's only a short hop up from Avalon to Pitman Jack. Maybe you can bum a ride up some night with Woody, K2AQL, from Sommers Point (his new QTH).

Our new treasurer informs me that some of you birds have not yet coughed up your contribution for GCARC's 1968 coffers. And some of you are, to be sure, "pillers" of the Club!! Guess the higher interest rates inflicted upon us by our benevolent Uncle Sam have really hurt some of you guys. Unfortunately, this is your last issue of X-Talk if we don't hear from you by The June club meeting night. By-Laws, you know. Seems this heartless organization expects its members to pay their dues and has only given them 6 months to come through!

Anyone know of or have a 15-meter beam for sale, hire, steal, etc.?? One of our newest members, Jim Mauro, WA2DNL, (unlisted land line) is looking for one in the worst way. See him at the June meeting and help him out. The poor guy is getting tired of working into Europe all the time and would like to work Asia, Australia, etc. (to think--all I get is Dover, Delaware, for my DX award).

Personally would like to see that long-legged sharp-shooter from Cape May turnpike in Sewell out to next meeting. It ain't the fact that his company is needed at the meeting so much as the post-meeting gathering at Will's Steak House. His friends in 807 sorely miss his setups.

Very FB to see WA2SEA's column in action again! Keep going strong Harry. Incidentally, Harry talked to your buddy Andy, WA3HUB, on 6 last night. He's the golf pro over at Cobb's Creek. Real FB guy.

(11)

Heard that W2YNR is taking charge of getting out a new issue of the Club Directory. Fine show Paul, hope to see it in print soon.

Our prexy Jack, WB2WKV, should be back in town by now after a long visit in ZS land (on business). Sure is good to have you back again Jack. Especially since our stencil cutting has been me in the interim.

FIELD DAY!! FIELD DAY!! FIELD DAY!! Don't forget the weekend of June 22-23. Bill Frambes, WB2FJE is general chairman. The site is the old Nike Base just west of Pitman, N.J., near the golf course. Reserve that date now men! There will be positions for SSB, CW, AM, for all. No excuse about slow CW speed this time. Let's top last year's turn out of about 25 club members. Bill and crew will be signing up operators at this month's Club Meeting, so volunteer for the band of your choice early.

Just saw a nice article in the Woodbury Daily Times citing the FB phone patching work being done by GCARC's Frank King, WA2WGA, between the USS Intrepid and service men's families in this area. This is an excellent example of the real amateur at work and the kind of publicity we like to see. Real great job Frank.

73's

de WA2NPD