

PACK RATS' CHEESE BITS



MT. AIRY V.H.F. RADIO CLUB, INC., PHILA., PA.
(50.2, 145.2, 221.4, 432.3 & 1296.3 Mc.)
CLUB CALL: W3CCX



AFFILIATED CLUB: AMERICAN RADIO RELAY LEAGUE

EDITOR: HELEN BRICK, XYL, W3SA0
MEMBER: AMATEUR RADIO NEWS SERVICE

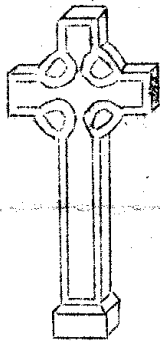
MEMBER CLUB: DELAWARE VALLEY COUNCIL of AMATEUR RADIO CLUBS

MEETING NOTICES: LAST PAGE

VOLUME X

MARCH 1967

NUMBER 1



HOLY WEEK
MARCH 19 - 25

EASTER
MARCH 26

Happy Easter

THE MESSAGE OF EASTER

By The Rev. Edward B. Jones, Ph. D.

The scene is the trash heap outside of the city. Job, once a prosperous and respected citizen, sits in the midst of the rubbish, nursing his many sores. His would-be friends try to comfort him with rational explanations of the troubles which have befallen him. Although Job refuses to be comforted by his "friends" and although he does not understand why all of these calamities have come to him, in the midst of his misery he can still cry out, "I know that my Redeemer lives!" (Job 19:20)

This is the message of Easter. In the midst of his woes, confusion, and tragedies, man is still able to see a God who lives and who reigns above all. In Jesus Christ he sees One who is even greater than death; One who is life itself.

The man without spiritual perception looks at the world and cynically states; "God is dead!" The man of faith looks at the same world, beyond an empty cross, and declares, "I know my Redeemer lives!"

OUR PREZ SEZ

The 1967 January VHF Contest has come and gone and the scores are in at ARRL Headquarters. The official results will be printed probably in the June QST. I don't think anyone doubts that the Mt. Airy VHF Club is again the winner. The club amassed a very high score, much more than enough to win. The Club has demonstrated again, something a lot of clubs would like to achieve, namely solidarity and unity of purpose to accomplish a common goal. It is indeed gratifying to observe some of our "grass roots" members going all out to reach some quota that they have set for themselves which is "a bit better than last year." The club depends on those people who make the lower scores to really build up the total. It can be pointed out that the top ten men of our club could have won the contest but we could never achieve that big score without everybody doing a big job.

Congratulations are in order to all of you and to Alan, K3DUW, for his excellent job as VHF Contest Chairman.

73,
W2EIF, Jc

ARRL BULLETIN

NR 100, February 16, 1967

The ARRL Intruder Watch has completed another full year of operations with more intruders having been removed from the amateur bands as a result. However, much additional work and constant vigilance are necessary. The Intruder Watch welcomes additional volunteers with two or three years amateur experience and good receiving equipment who can spend at least two hours a week logging the calls of non-amateur stations in the amateur bands. RTTY operators, especially those with access to sophisticated gear, are still urgently needed. Volunteers please write Intruder Watch, ARRL, Newington, CT 06111.

AR

I, on behalf of the women (4) who attended the February meeting, would like to express our sincere thanks to the club and especially W3OZP, Bill Miller, for the wonderful evening of beautiful slides of his trip to Europe. I know that all enjoyed them as Bill was deluged with questions following the showing. Tnx, Mother Rat.

"PACK RATS' CHEESE BITS" IS A PUBLICATION OF THE MT. AIRY V.H.F. RADIO CLUB, INC., PHILADELPHIA, PA., AND IS PUBLISHED MONTHLY.

\$.10 a copy \$1.00 a year

WE OPERATE ON AN EXCHANGE BASIS WITH OTHER PUBLICATIONS, AND ANYTHING THAT IS PRINTED IN "CHEESE BITS" MAY BE REPRINTED, UNLESS SO STATED, AS LONG AS PROPER CREDIT IS GIVEN.

DEADLINE FOR ARTICLES is the 20th of the month.

ALL INFORMATION SHOULD BE SENT TO THE EDITOR: HELEN BRICK, XYL, W3SAQ
821 W. Lindley Avenue,
Phila., PA 19141
215- OA. 4-7524

TRUSTEE OF CLUB CALL: W3CCX
W3SAQ, FRANCIS BRICK

PRINTER & SUBSCRIPTION MANAGER:
K3GAS, DOC CUTLER
7815 New Second Street,
Phila., PA 19117
215- ME. 5-1078

AWARDS CHAIRMAN:
W2EIF, JOSEPH KILGORE
#5 Sunnybrook Court,
Stratford, NJ 08084

DIRECTORS' MEETINGS are held on the second Wednesday of each month at designated locations at 8:00 P.M.

MONDAY NIGHT NETS:
145.2 - 7:30 P.M.
50.2 - 8:30 P.M.
221.4 - 9:30 P.M.
432.3 - 10:00 P.M.

CODE PRACTICE:
7:00 P.M. to 7:30 P.M.,
MONDAY thru FRIDAY, 50.2 Mc.
by W3CL, HARRY STEIN

OFFICERS: 1966 - 1967
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(EX-OFFICIO)

PHILA. COUNTY ARPSC
EC: W3PST, WOODY HALDEMAN
1732 Loney Street,
Phila., PA 19111
215- RA. 5-1106

GENERAL MEETINGS: FOURTH WEDNESDAY of each month at 8:00 P.M.

The Red Cross dedicated a new disaster truck on Tuesday, February 14 which was donated by the Pharmaceutical firm of Smith, Klein and French with the members of the Disaster Survey Teams in attendance.

The Medical Disaster Drill will be held on Wednesday, May 3 at 1:00 P.M.

This is the best time for the hospital staffs and doctors participating.

Anyone, who is able to get off from work, desiring to participate should get in touch with W3PST, Woody at RA. 5-1106!

Advance information on the annual SET will be published in an early issue of QST. All members should take the time to read it and get ready for our drill.

W3ZRQ, Allen Breiner, the SCM for E. Pa. has expressed his wishes not to be nominated for the upcoming nominations. W3ELI, George Van Dyke, Jr. has been suggested for the position.

You may have noticed that our General meeting days have been changed to the FOURTH WEDNESDAY. This was necessary because so many members were unable to make them on the first Wednesday. With this change, we hope to see more members at the meetings.

Planning meetings will be held, when deemed necessary, in any month having five Wednesday's on that date.

***** NEWS ITEM *****

Submitted by W3BVR, Ted Leaf

FCC TO CURB UNLICENSED TRANSMITTERS

(NEW YORK TIMES NEWS SERVICE)

The Federal Communications Commission has taken a first step toward outlawing millions of walkie-talkie radios, which in recent years have become popular with children and grown-ups.

The regulatory agency confirmed in Washington Thursday, that it planned to propose new rules under which the existing 27-megacycle band would be closed to small unlicensed transmitting and receiving units. These units can carry two-way conversations over a maximum distance of 1 mile. The channels would be reserved for licensed citizens band equipment.

Those who have thrilled to saying "over and out" on the airways as part of a hobby would be granted one year's grace after the adoption of new standards.

Following the deadline, the transistorized walkie-talkies would have to be discarded or modified to meet license requirements. Most of the inexpensive units would not lend themselves to conversion.

The FCC proposals call for opening a band for unlicensed walkie-talkies between 49.9 and 50 megacycles. To use this band would require the purchase of new equipment.

MONITORING DIFFICULT

Enforcement of the ban on unlicensed 27-megacycle use, however, could be difficult because of the problem of monitoring millions of sets and because their range is so limited.

(next page)

The commission prepared its proposed changes following complaints that the unlicensed walkie-talkies were causing "a chaotic interference condition" for licensed users of the 27-megacycle citizens band, including two-way radio circuits used by small businesses, boat owners, doctors and others.

(EDITOR'S NOTE: I hope you have taken note of the proposed frequencies, which I have underlined, 49.9 to 50 Mcs. Number 1.- 50 to 50.1 Mcs is the CW portion of the 6 meter band. Right there you will either have to share or lose 50 Mcs. Number 2.-All 6 meter hams had better be prepared for a rash of TVI complaints from unlicensed transmitters. You fellows can take it from there.)

JANUARY V.H.F. S.S. RESULTS

95 members participating for a total score of 772,818 points.

FIRST TEN HIGH SCORES

W3MFY, Press	-	48,322
K3IPM, Stan	-	43,750
WA3CAG, Dave	-	33,660
W3LHF, Dave	-	27,520
W2EIF, Jo	-	25,200
K3IUV, Bert	-	23,240
W2AXU, Jack	-	20,480
W3CL, Harry	-	19,632
W3MXW, Joe	-	18,786
K3DUW, Al	-	17,262

10,000 POINTS AND OVER

W3HFY, Hal	-	16,320
K3AUH, Al	-	15,408
K3JJZ, El	-	14,858
W3CXU, Johnny	-	14,196
WA3EPS, Mort	-	14,184
WA3BIV, Carl	-	12,924
W3CCX, (K3ZPN, Lloyd)	-	12,636
W3SAO, Frankie	-	12,600
K3GAS, Doc	-	12,060
K3ZVD, Jim	-	12,024
W3HKZ, Ed	-	11,676
WA3CQD, Jay	-	11,254
K3UJD, Mario	-	11,196
K3EOD, Al	-	11,160
W3CJU, Don	-	10,836
W3HAB, Monroe	-	10,836
K3KVS, Jerry	-	10,412

HIGH SCORING NEW MEMBER: WA3CQD, JAY

TIE SCORE: W3HAB, MONROE & W3CJU, DON

HAM RADIO

By W3ELI, George Van Dyke, Jr.

PART 1

A hobby? Yes, but that is not its primary purpose. To enjoy our hobby we must qualify as a public service, the same as all other services using the public domain (the radio spectrum). Fortunately, we can qualify as a class and are not required to qualify as individuals.

How do "Hams" qualify as a public service?

Many ways:

- 1) We can be the link between a disaster area and the outside world until normal facilities are restored;
- 2) We can handle messages for our Armed Forces to and from their families;
- 3) We can relay emergency requests for aid (eye bank, blood, special medicines) to remote points of the world;
- 4) We can be the source of technical advancements;
- 5) We can be a source of qualified operators and technicians in time of national emergency.

Very few can qualify on all counts, but then again it isn't required. All of us should qualify on at least one!

Let's discuss the five items above.

1) Fortunately for the world and unfortunately for us, there are fewer natural disasters these days and when they do occur, only the few Hams on the scene can do much. The rest of us who relay their messages are lost in the confusion. So we cannot rest on our past performance forever. However, when such an emergency does occur we must be ready. I'll touch on this later.

2) Open to all, but usually is limited to low frequency bands and a small percentage of Hams. These Hams, however, are ready for an emergency.

3) Only a few Hams on regular schedule who can spend a lot of time standing by can participate on these nets.

4) We all should participate here, especially the Pack Rats.

5) Many of us have in the past, and will in the future, answer the call and serve well.

(next page)

At this point you might ask, "So what? Who's complaining about what? Why all of a sudden this incentive licensing and changing our call and privileges?"

To answer this we must do two things. First, get out the chart on frequency assignments from the broadcast band up. Note the harmonic relation of the ham bands and also carefully note that each band is in the middle of a government or military assignment. This is no coincidence but deliberate planning. In any emergency the military can move in with no major change in equipment and antenna, and technicians from amateur technicians from amateur ranks will have no trouble using equipment designed for adjacent frequencies.

Now, let's go back a little bit in time. Remember the frequency assignments and also remember our need to qualify as a public service (our necessity). In getting our frequency assignments, our strongest supporter was, and still is, the military services. Their primary reason was the preceding #5. But as time passed, since the last frequency assignment meeting, it has become noticeable to the Army that the "ham" of old, the guy that could smell trouble and fix it, was no longer available. The new "Ham" was fast becoming an appliance operator and not a good one at that. To substantiate this, let me reproduce a copy of the letter General Cook, Chief, Signal Corps, wrote after he retired.

Federal Communications Commission
Pa. Ave. Bet. 12th & 13th, NW
Washington 25, D.C.

Gentlemen:

This petition is in support of RM-499, which petition has been filed by the American Radio Relay League, Inc. I would like to express my views on the subject.

By way of background, I obtained my first radio amateur license in 1926. Except for interruptions caused by my military service, I have been an active radio amateur since that date. At present, I am active under the duly assigned call W4FZ. During the period of time, from 1931 to 1963, I have progressed through every commissioned officer grade in the regular United States Army from 2nd Lieutenant to Major General. At the time I voluntarily retired on 1 July 1963, I was the Chief Signal Officer of the

~~My qualification to address myself in support of RM-499~~ stems, therefore, from an association of many years with other amateurs like myself, and from thirty-two plus years as a professional military communicator who was constantly seeking out potential practical communicators and electronic technicians. The purpose, of course, was to apply such talents to the advantage of the United States. During my military career I took an active role in the old Army Amateur Radio System and in the present Military Affiliated Radio System. I am currently an active member of the latter organization (A4FZ).

While I cannot now speak officially for the Department of Defense, or the United States Army, I do have some observations to make which may prove helpful to the Commissions. During the early years of my military career (the 1930's) whenever an individual who possessed a radio amateur license came to my attention I did my utmost to have the individual assigned to communications work. His license spoke well of his technical understanding and intense interest.

During the latter part of my career (the last decade or so) such has not been my feeling. The license has generally meant "Here is another hobbyist - maybe he has it and maybe he doesn't." The license had lost its stature; it appears to be anybody's just for the asking.

I feel that many have joined the amateur fraternity only as a means of entertainment and amusement and with no desire or aspirations to really understand communications as an art or a science - and I consider both terms applicable. It appears to me that some device or method is necessary to categorize the licensed radio amateur with either that of "hobbyist" or that of student of communications in each of all of its facets. Certainly more of the latter and fewer of the former are needed if progress is to continue apace with the world around us.

With respect to political implications in the international frequency arena certainly experience has shown that quality is paramount rather than sheer numbers. Some recognition of this quality must be found.

I feel that the ARRL Incentive License Proposal when adopted will serve as an incentive and a spur to the ARRL and the amateur fraternity. Other actions to strengthen the amateur radio service even more can follow logically. But this first step is most important. We must show sincerity of purpose, and a recognition that radio amateur license privileges include to a meaningful extent an ability to provide a useful service.

I urge the Federal Communications Commission to render a favorable decision on the American Radio Relay League petition RM-499, as one means of furthering the Commission's responsibility to the American public.

Sincerely,

Earle F. Cook, W4FZ

Now, with our strong supporter beginning to lose interest and so indicating to FCC, it became apparent to many that something fast had to be done. Everyone got on the band wagon including ARRL to suggest plans to improve the status of the "Ham". Along with this apparent technical deterioration the TVI problem was gaining ground and "Hams" were gaining in notoriety, rather than popularity. We lost our eleven meter band and a new service began to threaten more of our assignments.

So we have as a result the FCC incentive license proposal, to improve the "Ham" technically by self improvement to gain additional operating privileges. It's kind of obvious to set this up some of us will lose a bit. But we can all get it back, it's not Permanent!! Along with this we have the big ARRL push on Amateur Radio Public Service Corps (ARPS) to improve the public image of "Ham" continually, not just in times of disaster.

ARPS is a combination of the old AREC (Amateur Radio Emergency Corps) and the NTS - National Traffic System.

The AREC is primarily organized for emergencies, and as such, gets little exercise. Drills are soon distasteful and it is difficult to hold interest.

The NTS is primarily CW and low frequency, although phone circuits are fast paralleling the NTS. The NTS is kept alive and ready for emergencies by handling third party traffic.

ARPS gets AREC members trained to originate and handle traffic and NTS members alerted to handle large volumes of local traffic.

NOW---What's all this got to do with us? Well, I've said before, as Pack Rats we should excel in technology, VHF, UHF and UP. But, we should also try to be part of the emergency corps. We should at least do the following:

- (a) Keep our CW capability up to minimum requirements if for only emergency use.
- (b) We should try to keep up at least with the state of the art,
- (c) Learn how to originate a message. How to send it. How to receive a message, and How to deliver it.

With this introduction I'd like to close and next month go into detail on how to handle traffic (all types). Then possibly a third note on the operation of the traffic system.

73,

George, W3ELI
SEC E. Pa.

PACK RATS LADIES' NIGHT

DATE: SATURDAY, APRIL 15, 1967

PLACE: BUCK HOTEL, FEASTERVILLE, PA.

PRICE: \$7.50 per head.

TIME: 6:30 P.M.

MEAL: ROAST BEEF DINNER

DANCING TO THE MUSIC OF HARVEY STONE and HIS FIVE

GIFTS FOR THE LADIES

FOR RESERVATIONS CONTACT: K3KTY, JOHN TATE
520 Larkspur Street,
Phila., PA 19116
215- OR.3-8840

GENTLEMEN'S AGREEMENT

(With apologies to Laura Z. Hobson) By WA3CQD, Jay C. Jacobson

There are times when this author thinks that Hams have only one type of anecdote in the repertories: The TVI Tale. However, every once in a while one hears a TVI story that is quite serious, and again one that is extremely funny. I have heard such a story; I think it bears repetition.

A few months ago I was operating six meters, when the telephone rang. My son came downstairs to tell me that it was for me, upon which I excused myself from the "round table" in which I was involved and answered the land line. On the other end of the twisted pair was an irate citizen about two and a half blocks away, who claimed that my transmissions were getting into the left half of his stereo equipment. To prove his point, he repeated the gist of several of my recent QSO's.

"It is a simple matter," I told him, "to cut several inches off your connecting cable on the left amplifier, then resolder the plug. Also make sure everything is grounded." He responded quite violently to my suggestion. "The only ~~*****~~ cable I'm going to cut," he shouted into the telephone, "is the one from your antenna!" Smiling to myself, I replaced the handset in the cradle.

At this point it was time to begin the two meter net, of which I was acting NCS. In the excitement of this, and checking into the other nets, I quite forgot my neighbor's threat. After the nets I spoke with a few friends, and it was close onto 2:00 A.M. when I closed the station and got ready to leave the shack. Just then I heard a car pull into the driveway, but didn't see the glare of headlights. I reached into my locked cabinet and pulled out a Smith and Wesson .38 Police Special, then went to the driveway door. There I observed a man getting out of his car and furtively glancing around. When he was satisfied that he wasn't seen, he reached back into the car and pulled out the biggest pair of bolt cutters I ever saw, walked over to my antenna cable (which hangs down the back of the house), and put the cutters in position. At this point, I threw open the door, turned on the light, pointed the revolver at him and told him to drop the bolt cutters. He dropped the bolt cutters. I told him to put his hands in his pockets. He put his hands in his pockets. I told him to go into my radio shack. He went into my radio shack.

When we were both seated in the shack, I picked up the telephone and began to dial. "What are you doing?" he asked. I replied, "I am calling the police, of course!!" He said, "Wait a minute! Can't we talk this over like gentlemen?" "Since when," I asked him, "have you become a gentleman?" Without a moment's hesitation, he answered, "Since you are sitting there with a pistol in one hand and a telephone in the other!"

The story has a happy ending. The answer struck me so funny that I put down the telephone and laughed so hard that I almost cried. Then we sat and talked like gentlemen, just as he had requested. We finished talking at 5:30 A.M., and the next day I went to his house and shortened his amplifier cable.

Today we are friends, and -- oh, yes! He is enrolled in the Franklin Institute Ham School, and will soon join us on the air!

CABLE GUIDE

From MARS Technical Bulletin, by A1BXT via Florida Skip

RG NO.	IMP. (OHMS)	RG NO.	IMP. (OHMS)	RG NO.	IMP. (OHMS)
5/U	52.5	21/U	53	59/U	73
5A/U	50	21A/U	53	59B/U	75
5B/U	50	22/U	95	60/U	50
6/U	76	22B/U	95	61/U	500
6A/U	75	23/U	125	62/U	93
8/U	52	25/U	48	62B/U	93
8A/U	52	26/U	48	63/U	125
9/U	51	27/U	48	63B/U	125
9A/U	51	28/U	48	64/U	48
9B/U	50	33/U	51	65/U	950
11/U	75	34/U	71	71/U	93
11A/U	75	34B/U	75	71B/U	93
13/U	74	35/U	71	77/U	48
14/U	52	36/U	69	78/U	48
14A/U	52	41/U	67.5	87A/U	50
16/U	52	54A/U	58	88/U	48
17/U	52	55/U	53.5	101/U	75
17A/U	52	57/U	95	102/U	140
19/U	52	58/U	53.5	108/U	76
19A/U	52	58A/U	50	108A/U	78
		58C/U	50	114/U	185

RG NO.	IMP. (OHMS)	RG NO.	IMP. (OHMS)
114A/U	185	178B/U	50
117/U	50	180B/U	95
119/U	50	188A/U	50
122/U	50	195A/U	95
126/U	50	196A/U	50
140/U	73	213/U	50
141/U	50	214/U	50
142/U	60	217/U	50
143/U	50	218/U	50
144/U	72	223/U	50
174/U	50		

WHO IS CHARLEY, CHARLEY, X-RAY?

By K3JJZ, Elliott Weisman

As many of you know, at the crying towel session, I related a story involving my No. 1 son who insisted that there really was someone whose name was Charley, Charley, X-Ray. Well, it seems that he had a second thought about it and asked me again if there really was someone by that name. I proceeded to explain to him that Charley, Charley, X-Ray were the call letters of a man who died and that this man, when he was alive, was a pack Rat.

"But, Daddy, he's not dead because I just heard him on the contest!"

Now, there are very few times when yours truly gets stuck for words, but this was one of them. After I regained my composure I explained that since this man died the Pack Rats decided that because they liked him so much they would ask the FCC to let them use his call letters as the club call. So, Charley, Charley, X-Ray are really the call letters of the Pack Rats.

"But you can't, Daddy, because your John, John, Zebra and your a Pack Rat."

So I explained that when I operate for the Pack Rats I'm allowed to be Charley, Charley, X-Ray, but when I operate for myself I'm John, John, Zebra. He said, "Oh," but I'm afraid I didn't convince him.

"The club call W3CCX, a memorial call to a former member, Matt Gelardi."

You've all heard that statement on the nets, but I'll bet that less than half of you do not know who Matt Gelardi was. I don't, and I've been in the club for six years.

So, How about some old timer informing me, and the others, about Matt Gelardi!

OK, Son, just as you have answered your son, so Mother Rat will answer you.

W3CCX, Matt Gelardi joined the Pack Rats in June of 1956 and passed away on February 4, 1958. During his short stay with us, he was instrumental in starting, and running, project 417A Converters, in which the fellows got together once a week and built the converters.

Matt was a very quiet, soft spoken man who was always ready to assist with any technical problem or answer any technical question. For years he had cancer of the brain, which only he and his family knew. Matt was also a big man elsewhere as the following write-up will show.

From "PACK RATS' CHEESE BITS" Volume I, No. 1.

"MATTHEW GELARDI, SCIENTIST, DIES"

From the "Johnsville Reflector"

Electronics Scientist, Matthew Gelardi, an employee of the Control and Guidance Division, AEEL, died unexpectedly Tuesday, February 4th. He was 53 years old.

A native of Boston, Massachusetts, Mr. Gelardi first came to the Philadelphia area in September 1942, while on active Navy Duty. After a year at the Naval Aircraft Factory and 2½ years at NAMC, he was transferred to the Naval Aircraft Modification Unit, Johnsville as leading Chief (Radar/Radio) in July 1944.

He remained in this capacity until his discharge in early 1947. He liked the area so well that he returned shortly after his discharge in a civilian capacity, accepting a temporary appointment as a Laboratory Mechanic on Jan. 20, 1947.

Some six months later Mr. Gelardi was given a probationary appointment as an Electronics Engineer in the Electronics Section, Pilotless Aircraft Division.

(next page)

Matt Gelardi (cont'd)

On February 4, 1948 he shifted from the Pitiless Aircraft Development Lab. to AEEL, where he has been since, with the exception of the period from October 5, 1950 to March 30, 1952, when he was recalled to active duty.

Before being called to active duty in May, 1941, Mr. Gelardi was employed for 7½ years as a Radio and Sound Engineer, and 8½ years prior to that as a test engineer, all in the Boston area.

He was a member of the Institute of Radio Engineers and the American Radio Relay League. Mr. Gelardi is survived by his wife, Carmen, of 2606 Horsham Road, Hatboro, Pennsylvania."

We of Mt. Airy V.H.F. Radio Club, will miss pleasant, quiet spoken, Matt, and extend our sincere sympathy to his family.

1980

By, WA3BIV, Carl Barish

"TRPL2EIG from WA3BIV, Real good, Tom, glad to see that the family is O.K. This weather the last few days on Earth has not been too smashing. Rather, I should say, it has been smashing, smashing antennas, etc. The hurricanes in Florida are really causing trouble. I guess you would rather have our weather than the moonquakes you have up there. What type of antenna are you using, Tom? TRPL2EIG from WA3BIV on Earth."

I think I will relieve myself while I am waiting for his answer. This new experiment with time diversity transmission is for the birds. If I am going to wait 20 minutes for his answer I might as well call him on the spaceline, the good old untwisted pair. It seems to reason that this experiment has gone past the experimental stage and is going to become a reality.

"WA3BIV from TRPL2EIG, Good timing sequence, Carl, your delay was exactly twenty minutes. Yes, I would much rather have your weather than these miserable Moon conditions. My antenna is one of the new Electrocraft antennas. I think you know how they work. I can't wait for the new Electrocraft radiators to hit the ham market. I wonder if you know how they work, Carl? WA3BIV from TRPL2EIG."

"TRPL2EIG from WA3BIV, Well, Tom, the radiator is more or less a black box type of thing. The secret is the impedance. If you were to measure the impedance of the thing you would come up with zero. And as you know, a zero impedance will radiate with infinite gain. Of course, it contains an attenuation circuit to prevent the infinite gain from blowing out your receiver and the listener's receiver while you are transmitting. Tom, I will have to run now, it has been my pleasure and I hope to talk to you again. I will listen for your final. TRPL2EIG from WA3BIV on Earth."

Now another twenty minute wait. What happens is, the transmitter delays the AM signal for twenty minutes and during this time another signal passes on the frequency. The only time this is not done is with emergency traffic. If you are on an emergency frequency, you better be passing emergency traffic or else it's your license. One other thing, that is enforced is that a ten transmission must be exactly ten minutes--no more, no less--else the timing gets all messed up and so does the frequency. Therefore, we all must monitor WWV, or the like, to always be on time with the I.O. The transmitter will automatically shut off after ten minutes. My receiver will mute for twenty minutes following my transmission, so I do not have to listen to the other conversation unless I want to. Well, after Tom's final, I guess I will study for my TV endorsement so if the rumor is true that eventually AM, SSB, and CW are outlawed for that type TV, I will be able to operate.

DID YOU KNOW

That K3ABK, Sam, got so angry with the hospital that he signed himself out and went to his own doctor and had his "hush puppies" taken care of?

That WA3CQD, Jay, was at home for 10 days in traction with a bad back? He is now back at work.

That W3TPM, Bud, lost his father recently? Our sincere sympathy to Bud and his family.

That Frankie and Mother Bat are once more dog sitting? This time it is for the School Crossing Guard, who slipped on the ice, February 10, and broke her ankle in three places.

That the Directors' Meeting scheduled for the QTH of K3WEU, Paul was cancelled due to the snow storm and was held before the General Meeting?

That this is the end of this page?

SOLAR FLARES AND QUASARS ARE LIKENED

By Karl Abraham, of The Bulletin Staff

(Editor's Note: Both of the following articles are from The Evening Bulletin of Friday, January 27, 1967)

New York, Jan. 27--The quasars that so puzzle astronomers these days may be the first stage of formation of many of the galaxies seen in our universe, a scientist suggested here yesterday.

The term "quasar"--for quastellar radio source--is used to describe often peculiar-looking stars that have associated with them large jets or clouds of gas that give off enormous amounts of radio noise. The first were discovered about seven years ago.

Since then, many theories have been advanced to explain their apparently great distance from us, their vigorous radio emissions, and the means by which they come to expend such enormous amounts of energy in both visible light and radio noise.

BIG-SCALE FLARE

At a meeting of astrophysicists here yesterday, Dr. P.A. Sturrock, of Stanford University, proposed the explanation that what happens in the quasars is a very much larger-scale version of what often happens in the atmosphere of our sun: The production of a solar flare.

His ideas also were based, in part, on attempts in the laboratory by various experimenters to duplicate the heat-producing methods of the sun by controlled nuclear fusion, which, as a run-away explosion, forms the basis of the hydrogen bomb.

It has long been believed that much of the gas in the sun is held there by magnetic fields originating in the sun and enveloping it.

MAGNETIC CONTROL

In laboratory experiments, scientists use strong magnetic fields, often called magnetic bottles, to contain their table-top suns, where temperatures are so high they would melt any apparatus they touched.

These kinds of fusion experiments tend to last only fractions of a second because the hot gas becomes unstable and the magnetic field is distorted, breaks open and lets the gas leak out.

It has been suggested that a similar thing happens on the sun. Sometimes small loops of the magnetic field emerge from the surface, like coils of a sea serpent breaking out above the surface of the water.

EXTEND TOO FAR

Sometimes the magnetic loops extend themselves too far, and the top segment of such a confining magnetic field breaks away from the sun altogether, carrying with it the particles of matter it contained at the time it broke loose. This is a solar flare.

These swarms of solar gases then fly through the solar system, and produce, when they envelope the earth on their way outward, some of the fierce magnetic storms and radio interference, produced when there are many sunspots and flares observable on the sun.

Drawing from this as an analogy, Dr. Sturrock suggested that perhaps a quasar is the core of a forming galaxy, which may erupt with a flare-like emission of hot gasses.

This is what photographs of quasars show.

QUESTION ON LAWS

If the quasars are as far off as many scientists believe, then it has taken most of the age of the universe for their light to reach us, and they are being seen as they existed very early in the evolution of the universe.

While it remains to be proven that the laws of physics, as they now are understood today, will allow the formation of observable galaxies in this fashion, the theory is an attractive one. There are many similarities between solar flares and galactic explosions, said Dr. Sturrock.

The meeting on problems in cosmology and astrophysics was sponsored by Yeshiva University and the Goddard Institute of the National Aeronautics and Space Administration, both in New York, the Southwest Center for Advanced Studies and the University of Texas.

ASK ANDY -----DO NORTHERN LIGHTS AFFECT THE WEATHER?

Our sun is a monstrous atomic powerplant of nuclear energy. From time to time, the blazing furnace erupts in seething storms that shoot out streams (next page)

NORTHERN LIGHTS (cont'd)

of charged particles with enough force to crash into the air high above the earth.

Our bulky planet is a giant magnet with two magnetic poles—one near the north pole and one near the south pole. Like all magnetic poles, they react to electric currents. They pull down the electrically charged particles streaming from the stormy sun. And they force them to strike the atmosphere high above the polar regions of the globe.

The energetic particles smash and bash into air molecules and create dancing displays of pastel tinted Northern and Southern Lights.

The auroras may glimmer and shimmer as high as 600 miles, but they usually wear themselves out in the ionosphere layer of the atmosphere. This ionosphere reaches up from 50 to 300 miles and it acts as a sounding board to bounce and angle radio signals back to the earth.

Charged particles from the stormy sun cut into the straight paths of radio waves and upset the signals. Radio blackouts and Northern Lights often arrive together because both are caused by charged particles streaming from the stormy sun. These streams of energy rarely dip below a level that is high, high above the weathery layer of air.

The billowy air is the troposphere, at the very bottom of the atmosphere. The turbulent weather conditions end at the top of the troposphere, which is from 5 to 11 miles above the surface of the globe.

Solar particles create their havoc at much higher levels. The upst radio waves and in the high, thin air they bash into molecules and create the wondrous auror lights. But the auroras rarely, if ever, reach down to the low level level of the weathery troposphere. A few of the charged particles that cause the auroras may or may not come right down—but not enough of them to create a visible show, or cause major changes in our weather.

(Editor's Note: Now I know how WA3BIV, Carl, makes those fantastic space contacts.)

TO BE OR NOT TO BE A HERTZ

From Collector & Emitter via Florida Skip, W4IYT, Ed.

Hertz City, Florida, January 25, ---A three year old boy inadvertantly peddled his trihertz in the path of an oncoming motorhertz. The hertzist lost control trying to avoid the lad. Both the hertzist and the motorhertz did several hertzoids before coming to a stop. The motor hertzist was identified as Mr. A.C. Cycle, 60 of nearby Currenttown, Florida. In the accident report, it was stated that Cycle said, "It only hertz when I laugh."

QCWA CERTIFICATES ISSUED BY CLIF EVANS, K6BX

From QCWA Newsletter via Signal Report, W4NOK, Ed. & Auto Call, K0NL, Ed.

For sometime QCWA certificates have been issued by Clif Evans, K6BX, as part of his activities as editor and publisher of Directory of Certificates and awards, the Board of Directors, feeling that activities relating to QCWA certificates should be directly controlled by our association, passed the following resolution:

"The Board of Directors of QCWA, Inc., hereby notifies the Editor and Publisher of Directory of Certificates and Awards, Sonita, California, that as of 1 January 1967, any and all written, verbal, or implied joint participation of this association in either sanctioning or participating in your issuing of certificates to amateurs who work a specified number of QCWA members is hereby terminated.

"You are directed to refrain from stating or implying any joint sponsorship and from the use of the QCWA insignia in regard to advertising literature on the award or the use of the insignia on the certificates."

From Many sources:

SPECIAL CANADIAN PREFIXES

We note that Canadian amateurs will be permitted to use new prefixes in connection with Canada's Centennial Year, in lieu of the normal VE or VO. The use is not mandatory, and permission to use the new prefixes ends Dec. 31, 1967.

The prefix 3C, replaces VE and 3B, VO; thus VE3AA would be 3C3AA, VO1A would be 3B1A. No special authority or modification of license is necessary.

SWAP & SHOPPE

Conducted by; W3ZRR, Raymond Whitehead
4534 N. Smedley Street,
Phila., PA 19140
215- DA. 4-5910

FOR SALE: Polycomm 6C with Halo.
Matching transformer and
bumpier mount. Purchased
Dec. 1966 \$175.00

FOR SALE: From the Estate of the
Late W3UMI, Willie Jones
2 Meter H B Xmtr. 120 W in-
put, 5894 Final, pair 807
modul. Needs some work.

CONTACT, K3PXT, Carmen Diodati
93 N. Hilltop Drive,
Churchville, PA 18996
215- EL. 7-6299

6 & 2 Meter H B Xmtr, 250
W input, 4x150 Final.
Needs some work. Not
working on 2 meters. VFO
doesn't work.

FOR SALE: Clegg Zeus \$399.00
Clegg Interceptor B \$350.00
Package deal--- \$700.00

NC-300 Receiver, Mint
condition

ARC-5 VFO, 7-9.1 Mc. with
power supply.

CONTACT: K4MLY, John H. Hill
Merry Oaks,
Ashland, VA 23005
1-703-798-6727

Low freq. H B Xmtr. 500 W
input, 4E27A/5 - 125B final,
pair 811-A modul. Needs
some work.

FOR SALE: AT THE MARCH MEETING OF
THE PACK RATS.

4 El. Halo Antenna with 12'
mast.

(The list is much too long,
so I will list some of the
bargains.)

6 Meter whip antenna

From the estate of W3GLI,
George Reid.

10 Meter whip antenna

6 Meter mobile Xmtr with
converter for B.C., push
to talk mike, 5763 final,
12 V.

Elco Signal Tracer
Cost \$19.95 Sell \$10.00

6' gray steel rack in new
condition.

Simpson Meter & Case
Cost \$61.00 Sell \$20.00

19 x 14 black steel cabinet

Heath RF Generator
Cost \$19.95 Sell \$10.00

Hickok Model 195-B scope

Harvey Wells Transmitter
with power supply \$30.00

Rainbow signal generator
Model 150

Minneapolis-Honeywell W612
Mobile 12 volt power supply
Cost \$54.00 Sell \$15.00

Many miscellaneous parts

Alum. chassis-power trans-
formers-mini boxes-oil can
capacitors-variable capaci-
tors-resistors-chokes-knobs-
coax plugs-etc., etc. Too
numerous to mention all of
the parts.

4 Japanese Miniature
Speakers (new) @ \$.75

Large quantity of both trans-
mitting and receiving tubes
some 4x150, 4x250, socket
& chimney to match

Drake 300 HP Highpass fil-
ter Cost \$3.97 Sell \$2.00

For further information and
prices;

Knight Grid Dipper
Cost \$22.95 Sell \$12.00

CONTACT: Mr. Al Jones
542 Fairway Terrace,
Phila., PA 19128
215 - IV. 3-1941

D104 push to talk Stand
Cost \$17.61 Sell \$5.00

OR

K3EOD, Al Boblitt
8389 Langdon Street,
Phila., PA 19152
215- PI. 2-3312

2 Redington Counters
Cost @ \$22.00 Sell @ \$5.00

FOR SALE: New HW 29A Heath sixer
\$35.00

WIRE: to be sold on bid
Coax, miscellaneous
2 conductor shielded
3 conductor shielded
6 conductor shielded
microphone shielded
hook-up wire

CONTACT, K3IFH, Ed Guscin
7121 Glenloch Street,
Phila., PA 19135
215- DE. 8-1231

2 UTC A-11 Input & Matching
Xfms Cost @ \$12.00 Sell
@ \$1.00

All proceeds of the sale will be
turned over to Elsie, the widow of
George.

There is sure to be something that you
will need or want among the other
items. Come prepared to buy!

NR 98 February 2, 1967

Attention VHFers. Another moonbounce success has been reported. On January 27, from 0600 to 0700 GMT, W6DNG worked F7DO on 144 Mc. Although no new record, the average beam setups used are of particular interest. W6DNG used a 32 element colinear while F8DO (there seems to be an error somewhere in the call. Ed.) used 8 yagis. Further details will appear in March QST.

AR

COMING EVENTS

MARCH MEETING: K3IUV, Bert Soltoff speaker. Topic ?

APRIL 15; Pack Rats Ladies' Night, Buck Hotel, Feasterville, Pa. Reservations must be in no later than APRIL 10th. Please make all checks and money orders payable to MT. AIRY V.H.F. RADIO CLUB. See notice on page 6.

JUNE 10 & 11: ARRL VHF QSO Party. K3ZPN, Lloyd Schoenig is the chairman. Please help when called upon by Lloyd.

HAMQUEST '67

Approximately 75%, all grade members, are also members of the ARRL and are receiving QST, which contains write-ups in full of the Bulletins issued; how-to on different projects; proposals to FCC; changes in policy, etc. These members are also beneficiaries of lawyer representation in tower problems; TVI and anyother reason for a court suit involving the ham.

All of the members of the ARRL do not agree 100% with everything it does or says. BUT neither do you agree 100% with the members of your own family. No one has come up with a better organization than the ARRL. Many have tried, but none have succeeded.

Non-members also receive the benefits of lawyer representation, these hams are known as COAT TAIL HANGERS or FREE LOADERS. IS THIS FAIR?????

The Pack Rats are an affiliated club, let's get together and make it 100% and be an Honor Roll Club,

MEETING DATES

DIRECTORS' GENERAL
MARCH 8 MARCH 15
GENERAL MEETINGS are held, when possible, the third Wednesday of each month at the West Oak Lane Jewish Community Center, Sedgwick & Thouron Streets, Mt. Airy, Phila., PA at 8:00 P.M. SHARP

MEETINGS NOTICES

MARCH 8 DIRECTORS' MEETING will be held at the OTH of K3WEU, Paul Behrmann, 5101 Wynnefield Avenue, at 8:00 P.M. PLEASE be courteous enough to call 215- TR-1007 if you cannot make it.
MARCH 15 GENERAL MEETING will be held at the West Oak Lane Jewish Community Center. 8:00 P.M. Speaker: K3IUV, Bert Soltoff Sale of articles from the Estate of W3GLI, George Reid.
MARCH 22 PHILA. COUNTY ARPSC meeting will be held at the Fox Chase School, Ridgeway and Rhawn Streets at 8:00 P.M.

MEMBER STATUS CHANGE

W3CLQ, WALT KOVACS (R)
WB2CDP, LOU GOETZ (R)

BE SURE TO MONITOR NET FREQUENCIES FROM 6:30 to 7:30 P.M. ON THE NITE OF THE MEETING FOR A CANCELLATION IN CASE OF INCLEMENT WEATHER.

By the time you read this, W3ELI, George Van Dyke, Jr. may be in the hospital with a bad back. We hope not, but if so we wish him a speedy recovery.

NOW IS THE TIME TO GET TOGETHER THE PETITIONS TO THE ARRL FOR W3ELI AS SCM, E. PA. SO HIS NAME WILL BE ON THE BALLOT IN THE COMING ELECTION. AS YET, THE ARRL IS NOT REQUESTING PETITIONS, BUT THEY WILL SOON, AND IT IS BEST TO BE READY.

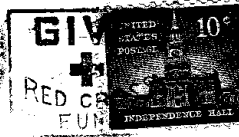
We are not trying to beat W3ZRQ's, Allen Breiner, time. He has requested that he not be put up again.

HAMQUEST '67; JOIN THE ARRL NOW AND HAVE YOUR MAN IN WASHINGTON!

LADIES NITE: APRIL 15, 6:30 P.M.

BACK RATS CHEESE BITS
821 W. Lindley Ave.
Phila. Pa. 19141

ALPHABET
MAR 6
11 PM
67



W3KKN, Ernest Kenas
2823 Old Welsh Rd.
Willow Grove, Pa. 19090

MEETING NOTICE



[Faint, mostly illegible text, likely the body of the meeting notice.]

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