



# PACK RATS' CHEESE BITS



MT. AIRY V.H.F. RADIO CLUB, INC., PHILA., PA.

(50.2; 145.2; 221.4; 432.2 & 1296.4 MC)

CLUB CALL: W3CCX

AFFILIATED MEMBER: AMERICAN RADIO RELAY LEAGUE

EDITOR: HELEN BRICK, XYL, W3SAO

(MEETING NOTICES: LAST PAGE)



VOLUME VII

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NUMBER 6

## OUR PREZ SEZ



August is almost over, at this writing, and thoughts unconsciously turn to cooler weather and what looms in the future. The BIG feature occurs in January. W3LHF is the Chairman for this BIG event and will have more to say later. At this time, it behooves all members to survey their equipment and especially their ANTENNAS. Take care of your outdoor work NOW! Don't believe that you can get antenna help at the last minute for a job that could have been done at this time. Incidentally, if you need help, ASK FOR IT, don't have someone ask for you! Help is available for all types of troubles, ASK FOR IT.

The last meeting helped a widow dispose of her late husband's gear. She will be amply repaid for what was sold at auction, and the club deserves commendation for handling the transaction.

W2EIF, Jo Kilgore, Program Chairman, is working out a fine schedule of meetings that will be of great interest to all. We are looking forward to having our area ARRL Director, W3YA, Gil Crossley, down to one of our meetings and possibly someone from ARRL Headquarters. ALL your friends are invited to attend our open meetings.

One of my pet gripes is hearing members on the air on net night, holding a QSO, and not calling into the net. One of the reasons we have a net is to disseminate information. One of the reasons you should call into a net, is to receive this information and show an interest in club activities. Lack of interest together with lack of activity can be a cause for SUSPENSION!

TOGETHERNESS MAKES FOR GREATNESS!

AS THE RECORDS SHOW

LET'S GET TOGETHER!

73,

K3CAS, Doc

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YOU CAN'T WIN THE GAME WITHOUT THE REST OF THE TEAM!



(1)



"CHEESE BITS" IS PUBLISHED MONTHLY BY THE MT. AIRY V.H.F. RADIO CLUB, INC., PHILA., PA.

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DEADLINE FOR ARTICLES: 15th of the month.

ALL INFORMATION SHOULD BE SENT TO THE EDITOR: HELEN BRICK, XYL, W3SAO 829 W. Fishers Avenue, Phila., Pa. 19141 215- DA. 4-7524

TRUSTEE OF CLUB CALL, W3CCX FRANCIS BRICK, W3SAO 829 W. Fishers Avenue, Phila., Pa. 19141 215- DA. 4-7524

DIRECTORS meetings are held the second Wednesday of each month at designated locations.

AWARDS CHAIRMAN: W2EIF, JOSEPH KILGORE 5 Sunnybrook Court, Stratford, N.J. 08084

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

OFFICERS: 1964 - 1965 PRESIDENT: K3GAS, DOC CUTLER VICE-PRES: W2EIF, JO KILGORE COR. SEC.: W3SAO, FRANCIS BRICK REC. SEC.: W3HAB, MONROE POWELL TREASURER: W3MVF, DAVE BLOCH

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SEPTEMBER BIRTHDAYS

Happy Birthday to the following Rats; K3IGX, Dick; W3QAS, Lyn, Sr.; K3AUH, Alan; W2AXU, Jack; W3BRU, Frank; W3CES, Ed; W2EIF, Jo; W3HKZ, Ed;

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HINT: From "X-Mitter", Bucks County Amateur Radio Club.

"If you want to extend the life of those pilot lights in your rig, insert a 3.3 ohm 1 watt resistor, Carbon composition will do, in series with the bulb. We've been doing this at work and in the past three years, we have changed but one pilot light."

\*\*\*\*\* K3HWZ, Grandpa Bill, Chairman of the Ladies Nite Committee, reports that the affair will be in the Buck Hotel, in Feasterville, in 1965. \*\*\*\*\* (2) \*\*\*\*\*

ARRL OFFICIAL BULLETIN NR 966, AUG. 20, 1964

The annual Simulated Emergency Test will be held October 3 and 4. All ARPSC amateurs, both in AREC and NTS, are urged to participate in local exercises and nationwide traffic handling activities involving traffic for the Red Cross, civil defense and other agencies. Much ARRL administrative traffic will also be flowing through regular channels. ARRL precedence designations will be in use. Your local Emergency Coordinator will soon receive full details and additional information will appear in October QST. If you want to be a part of this nationwide demonstration of amateur radio public service facilities, contact your Emergency Coordinator now and sign up in AREC so you can be worked into the plans.

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EDITOR'S CORNER

Perhaps this is where those DX QSL's come from when you are not at home to be on the air.

WHO DO THEY THINK THEY ARE

By W3UAX, Bill Copestakes, Co-Editor Bucks County "X-Mitter".

We were conversing with a Cber the other day discussing the new FCC regs and his feelings were one of anger. "Who do the FCC think they are. How can one group of people make up their minds to put 3 million people off the air. I'll tell you one thing, they're not going to do it. The equipment manufacturers won't stand for it. We won't stand for it. It will just mean using false call signs, we do it anyway to work skip."

Listening to him speak, I couldn't help thinking that the song sounds very familiar. A few months back you could hear the same on any amateur band. Everyone seems to be turning to the equipment manufacturers for salvation. Well the new regs are to go into effect in Nov., let's watch.

We further checked with a couple equipment dealers of CB gear. Their reaction was one of enthusiasm. They seem to think that a new field is coming up. Now they will be able to interest the business man in CB equipment. Before, the band was so busy that it was impossible for a business man to use it.

(Ed) Note: Address your comments to; N3LAX, Bill Copestakes, Bucks County Amateur Radio Club Box 311, Bristol, Pa. 19007 )

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K3KTY, John Tate, was appointed Chairman of the House Committee. This committee not only functions as the refreshment committee, but will oversee our outdoor functions and make sure that all litter is contained.

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### LONG TAILS AT THE CONVENTION

On Friday morning, five Rats, specifically W3CL, W2AXU, W3MFY, W3LHF, with K3HWZ at the controls, departed the Bucks County area for a visit to the 50th Anniversary Meeting of the ARRL in connection with the 13th Convention, which was held at the New York Hilton Hotel, 53rd Street & 6th Avenue.

Our trip to the fair city was without incident and we arrived at the New York Hilton about 11 AM. After putting the car in the garage, we were now ready to assault the ranks of amateur radio, which we proceeded to do with properly filling out our cards which incorporated the affairs for the three days; i.e. Friday, Saturday and Sunday (August 21, 22, & 23, 1964) as well as an interesting stub with a mysterious number in the corner which some said might entitle us to win a prize. It didn't.

We immediately commenced to see folks young and old, thick and thin, crippled and healthy - some whom we had met on other occasions and it was indeed a pleasant surprise to have an eyeball with so many of the oldtimers, new ones and just regulars.

As the day went on, it became obvious that in order to pacify the inner man it would be necessary for us to take in food. After a consultation, we decided to go down to Shine's Restaurant on 7th Avenue between 33rd St. and 34th St. where a delicious steak dinner was enjoyed by all. Leaving there with more on the stomach than was adequately required, we decided to walk back to our previously announced locale for sleeping and that we proceeded to do.

The exhibits presented by the various manufacturers offered an interesting interlude and a chance to meet other hams from time to time as we went from one symposium to another. In connection with this, it is worthy to note that, while there was a good representation of course from the U.S. and Canada, there were also a good many visiting dignitaries and hams of note from many foreign countries.

Perhaps the highlight of the visit so far as the Pack Rats are concerned was a talk about the ARRL given by John Huntoon. This was interspersed with color slides and John mentioned the fact that the first visitors at the new administration Building were a busload of Pack Rats from the Philadelphia area. There was a slide depicting the bus with all of us Rats standing out in front. There was no question but what we had due publicity with this.

Early Saturday evening, there was an enjoyable cocktail party which was followed at 8 o'clock by the banquet. It is well to note that all tickets for this affair were spoken for by Friday morning, which meant that only those who had sent in their order early were privileged to attend this dinner. The rostrum, of course, was resplendent with many dignitaries, among them being the ARRL President, Herbert Hoover, Jr. and the Republican aspirant, Barry Goldwater. Military and Naval forces were well represented, as well as many others of note, including Clarence Tuska, who was instrumental, with Hiram Percy Maxim in starting the ARRL fifty years ago. The food was excellent and well served. Our own table was located about midway on the side balcony giving us an excellent view of all those in attendance. Our table was graced with the presence of Willard Wilson, W3DA, Abe Cutler, WA2QMB, and his charming wife. Mrs. Cutler was the only one at our table who was the recipient of a prize at the banquet. There was one small sign indicating Bronx Radio Group, but it didn't compare with our own Pack Rats' sign resplendent with the Rat, as well as the fluorescent paint.

After dinner, many of those in attendance, including all of the Rats, were duly initiated into the Royal Order of the Wouff Hong. The secret and mysterious doings of this group were passed on to the neophytes, together with the grip and password. Thus ended Saturday evening and well into early Sunday morning.

Even though most of the hams retired late, there was a goodly representation on board for the beginning of activities on Sunday when further discussion and demonstrations were in order. Among those of definite interest were the Moon Bounce talks given by Sam Harris and Dr. Hans R. Lauber, HB9RG, Zurich, Switzerland. Sam demonstrated with tape recordings the response to his Moon Bounce signals and Hans discussed his part of the program, after which Dr. Gordon Pettengill, W1QUN, discussed the thousand foot dish at the Arecibo Ionospheric Observatory in Puerto Rico. Very loud and clear amateur signals were transmitted via Moon Bounce under KP4BPZ - all of which proved very interesting and instructive.

The drawing for prizes was held at approximately 3 o'clock and many happy hams went home with some of the goodies.

Following the prize drawing, we checked out of the hotel and started for home. Because Dave, W3LHF, and Pres, W3MFY, had never been on Staten Island or ridden the famous ferry, we decided to go home that way and show them the sights of this bit of suburbia. They were rather surprised to see so much open country, woods and fields, still within the city limits of New York. Our

(Cont'd page 4)

drive to the Outer Bridge Crossing was most enjoyable. We proceeded on to Trenton, where Jack, W2AXU, was dropped off at his QTH. The balance of the group, feeling need of nourishment, not having eaten since breakfast, stopped at Barretts on the Delaware and proceeded to enjoy an excellent smorgasbord dinner, after which we resumed our journey and by 8 o'clock everyone was home, tired, but happy.

By K3HWZ, Grandpop Bill

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#### FIFTY YEARS A HAM

Congratulations are in order for K3HWZ, Grandpop Bill, who celebrated fifty years as a ham in August. August 1914 - August 1964. Ex calls: 8AED, ZL2JX and VK2DX.

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#### TWO METER ACTIVITY

By W3LHF, Dave Zimmerman

The old band is jumping these days, Lads... No super DX that I have heard of but almost a nightly opening into the Northeast and into Virginia. Lots of new and different calls to be worked from almost every area...except...W3 around Phila. Don't know what the reason is but all I hear from this area lately is W3IBH, Chas, selling the picnic, and W3QLQ, Walt, weakly from the side of the beam. Gettin' so that the boys in N. Jersey consider a W3 rare DX! Let's look around gang, for here is what's been on.

First for the regulars, W2NSD/1 from his mountain in New Hampshire and 346 elements will give anyone a contact and QSL card even if they are running a Gonset with Halo. Note that the 346 is not an error. From the south, many of you may have heard K1IED/4, Larry, in Hampton, Va. during the net recently. Larry runs a big rig with lots of antenna and is quite willing to QSL to anyone needing Va. From upstate N.Y., K2ISA, Paul in Albany, 230 miles airline, is available for a nice contact.

Before I forget, a new signal on two meters is an old friend, W3IA, Tom, who is looking for old and new friends.

Summer brings out the mountain-toppers. A few of the old-timers like K1CLL and others have not shown as yet but they will. The best so far that I have worked is Bruce, K2RTH, from Franklin Sq., L.I. operating under the call of W82NXN/1 from Mt. Equinox, Vt. Bruce reports that other trips are under way next month into N.H. and Maine. Keep an ear open during the weekends on 221.4 and I will pass on any hot info there.

K3ARN, Chas, from Frederick, Md. puts in a good signal almost every night. I was surprised to find that Frederick is almost on the W. Va. line. Wonder what happened to the old gang from Martinsburg?

Anyone interested in checking out his antenna and converter set-up should look for W8KAY on cw nightly at 11:00 local time on 144.3 mc. His Sked with K2IEJ has been running for a couple of years now. Signals average S5 here but some nights are up to S7.

Since the paper was not printed in July, many of you did not get the word on the field day. It has now been confirmed that reports of W3SAO going horse-mobile with a Tower and a Halo lashed to the tail (horse's, that is) are false. Frankie's horsepower was much too low for anything like that.

Guess that's the word for now, so cu on 2.

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#### UHF REPORT

By K3IUU, Bert Soltoff

UHF activity (220 mc and up) during the past month appears to be at a very low ebb, as observed at this writer's QTH. The usual group of club members, normally found at 221.4 mc. has dwindled down, and frequently no signals were heard all evening. The only reason I can think of is that some people are away on vacation. How about the remaining gang putting in a little operating time?

The CQ single band contest on the weekend of the 22nd and 23rd was also a disappointment. I operated sporadically on 220 on both days and only managed one contact out of the local area. This was with W2SEU, Fred, in Long Island, N.Y. Fred reports that there is an active group of 220 ers in his area. They operate nightly; however they are down at the low end of the band, clustered about 220.050. They would appreciate contacts down in this area, and request that our members direct their beams Northeast between 9:30 and 10:00 P.M. How about giving it a try?

On 432, I must admit that I have been rather lax myself due to the pressure of other activities. The few evenings I have been able to listen, the number of

(cont'd page 5)

stations on was disappointing. Speaking of 432, if you are interested in obtaining one of the Link mobile transceivers, let me know. We need ten people to get a price break, and we already have five. The transmitting portion of this unit is readily converted to 432 use, and can run 50 to 70 watts in. The receiving portion contains a crystal controlled receiver, which can be used to monitor the local police frequency, or a spot frequency in the ham band. With a little ingenuity you should be able to modify the receiver and make it tunable.

We're still looking for information on UHF construction projects that the members are working on. How about passing on your ideas to the rest of the members?

We are still open for suggestions as to technical topics that you would like to see discussed in this column. Please drop me a card with your ideas. See you next month.

Address: K3IUV, Bert Soltoff  
8502 Benton Avenue,  
Phila., Pa. 19152

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### NEW PRODUCTS OF INTEREST TO HAMS

By W3NSI, Lyn Rowland, Jr.

#### 1. Soldering Iron

General Electric has introduced a new pistol-grip soldering iron available with either 40 or 60 watt heater assemblies and 20 interchangeable copper or ironclad screw-on tips.

The contoured lightweight lexan handle is said to keep the fingers from cramping.

More info. - G E Sec 758-13, Schenectady, N.Y.

#### 2. Pocket Clip-on Tool

Exclusive Products Co. has a lightweight 7-in-1 pocket tool which is ideal for shop or lab work. It contains 3/8", 1/4" & 5/16" hex sockets, reversible Phillips screwdriver, spirit level, standard screwdriver, and high voltage tester for which the screwdriver end acts as a prod.

No address or price on this one, but should be available at some local stores as this is in print.

#### 3. Transistor TV Sets

General Electric has unveiled an all-channel transistorized battery-operated TV set using a 9" picture tube. Suggested retail price should be about \$160. May be operated from either 110vac or re-chargeable 12 VDC power pack. Should be available in September or October of 1964. May be of interest to hams as a compact monitor TV or for CCTV use.

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### K.U.I.

By W3HKZ, Ed Kushner

Some technical features of the moon shot-

Two 60 watt transmitters and a method of handling high power levels in a vacuum environment were features in design of the G camera TV payload.

The camera system was arranged in two completely independent systems, each group composed of cameras, video combiner, control programmer, camera sequencer power supply and 15 kc filter assembly.

Two similar transmitting channels and RF combining sections were used for communications. Each channel consisted of an L-band FM transmitter, 60 watt power amplifier, telemetry processor and transmitting power supply. A 4 ring hybrid in the RF section was used to mix the output of the 2 transmitting channels before the combined output was fed out. The pick up tubes were vidicons developed for slow scan operation which permits the camera to make one TV picture every 5 seconds as opposed to home TV receivers which display 60 pictures per second.

The vidicons are magnetically focused and deflected types which employ a specially developed, highly sensitive photoconductor. The vidicon also permits the camera to retain the image on the tube face for a relatively long period of time while information is scanned by an electron beam for transmission to the ground.

The material of the photoconductor also can be rapidly erased to clear the tube's face for the next exposure. The vidicons feature special optical calibration marks on the faceplate. These markings, which are known as a reticle, are said to be similar to the cross-hairs on the telescopic sight of a rifle. Calibration lines permit scientists to make identification and detailed measurements of subjects in the TV picture.

SUBJECT: SPECIAL REGISTRATION PLATES

By K3MMZ, Grandpop Bill

There has been some question in the minds of amateurs, as well as many others, regarding the interpretation by the Motor Vehicle Department of the recent change in the law having specifically to do with Section 702 of the Motor Vehicle Code wherein special series of registration plates may be applied for and the cost will be the same and in addition to the original application fee filed for normal plate. In other words, special plate for passenger car will be \$10.00 in addition to the original \$10.00 filed for the normal plate, and in the case of a station wagon, \$12.00 additional. Please bear in mind that this does not apply in any way to amateur radio plates, which are made up of a combination of letters separated by a number, which is not permitted under Section 702 for the Special Plate Registration as noted therein.

With regard to Section 501, which calls for Special Registration Plate for amateur radio operators, there has been no change in the vehicle code. Passenger cars are \$10.00, station wagons are \$12.00 and the special plate will be assessed at a figure of \$3.00 per year, not a total of \$15.00 at one time as is the case of the special plates covered under Section 702. No contemplated change is scheduled for Section 501 for radio operators so that our procedure is the same as in the past.

Application must be filed prior to the end of the year and special application papers are required for this. They may be secured by writing to the Bureau of Motor Vehicles, Harrisburg, Pa. 17122.

Proceeding information was supplied by L. T. Bernard, Director of Bureau of Motor Vehicles, Commonwealth of Pennsylvania.

(The Editor would like to add two notes to the preceding:

1. When filing your application, or renewing registration, you are required to send two checks/money orders, 1 for \$3.00 and 1 for \$10.00.
2. Application papers may be secured from W3SAD, Frankie. We acquired 100 from the Bureau of Motor Vehicles when the law was first passed.)

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PACK RATS' CERTIFICATE

W2EIF, Jo Kilgore, Awards Chairman, has duplicated membership lists. These will be available at the next meeting. You can now send out a Pack Rat list to those QSO'ers requesting same.

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ARRL BULLETIN NR 967

All VHF minded amateurs are cordially invited to participate in the ARRL September VHF QSO Party, September 12 and 13. Novice and multiple operators entries as well as section leaders can be eligible for awards. Contest rules appear on page 64 of September QST.

Convenient reporting forms continue to be available on request from the ARRL Communications Department, 225 Main Street, Newington, Connecticut 06111

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A FOLLOW-UP ON THE HATBORO DOCTOR IN THE AFRICAN CONGO

(See the April 1964 issue of "Cheese Bits" on page following the pictures of Amateur Radio Club of India)

On Monday evening, August 24, W2HX, "Beebe" Wentzel, in Trenton, N.J. picked-up a message on 15 meters from Doctor Harry R. Wilcke, 3rd, in the Congo, to relay to his parents in Hatboro, Pa., stating that they were OK in the Congo conflict.

Beebe contacted W3CL, Harry Stein, in Glenside, Pa. on 220 mc. In one half hour the message traveled from the Congo to Trenton, and then to Glenside. Harry tried most of the evening to get the Dr.'s parents on the landline with no luck. He finally contacted them the next morning.

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PACK RATS PAST DIRECTORS

W3CL, Harry Stein; W3SAD, Francis Brick; W3FSD, Oscar Jacoby; W3KKN, Ernest Kenas; W2AXU, Jack Power; W3#KZ, Ed Kushner; W3OZF, Bill Miller; W3IXL, Ellis Hersh, W3JSD, John Houser, W3CKP, Warren Parker; K3IUV, Bert Soltoff; K3GQJ, Jack Greenage, W3AJF, Horace Deacon and K3CIV, Ralph Hersh.

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DID YOU KNOW

That K3GAS, Doc, visited K2US at the World's Fair and noted that the Pack Rats are well known there?

That K3IPM Stan, and W3CCX/3 were number one in Eastern Pa. in June QSO Party?

K.U.I.

By W3HKZ, Ed Kushner

There will be two radio shows about the ARRL on WFLN (900 kc-AM and 95.7 mc-FM) from 9:30 AM to 10:00 AM on Saturday, Sept. 12 and Saturday, Sept. 26th. It will be a panel discussion of the American Radio Relay League, and the impact of Engineering Applications on the development of Amateur Radio. Panel members will be; Harry Rappaport, James D'Arcy and Max Kraft.

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HAM STATION BUSY AT N.Y. WORLD'S FAIR - From Electronic News of 8-24-64

About \$6500 worth of ham radio equipment is being used 12 hours daily by K2US, three position amateur radio station in the Coke Pavilion at the N.Y. World's Fair.

The equipment, which includes linear amplifiers, transmitters and receivers has attracted 5000 licensed ham operators to the station since the Fair's opening day.

The ARRL sponsors the station. All transmission is SSB but the station can operate CW and AM. An SX 117 receiver, operating in the 14 mc band with a spurious response of -50 db forms part of one station. The transmitter, HT-44 with a minimum audio bandwidth for intelligibility of 500 to 2500 cps is used.

The transmitter drives a 1 Kw linear amplifier. The second station which costs \$2400 is used for the 40 to 80 meter band. The third station which costs \$2200 operates in the VHF bands. The third station's 328 transmitter drives an HA2 transverter, converting a 10 meter output of the exciter to either 2 or 6 meters. The reason for the station is to provide a scientific hobby as well as a public service.

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WHAT'S HAPPENING ON 6

By K3ACR, Richard Pattison

This month ran a little slower as far as DX openings, but the summer offers more than band openings, such as Hamfests.

Not having attended ours (on vacation) I can only say that from all reports it was well attended and a good time was had by all.

I did attend the Delaware Hamfest and thought very highly of their site and activities. A real fine job done by the Delaware Amateurs.

Another activity the summer season affords is antenna work and I for one have done things along this line and would highly recommend for others to not put it off to much longer.

The summer also encourages a lot of mobile and portable operation. Many good contacts can be had by many taking advantage of the portable station.

Myself, I'm proud of a contact I had while in Maine, when I worked K3LDM and K3DXC. K3GQJ was to join us from N.H., but had rig troubles.

W3MXW, Joe, once again has a fine mobile signal and I understand W3OR, Alan, is trying for 2000 mobile contacts by October. So, GO MOBILE!

I do hope to hear some more Pack Rates on for the fall season as ground-wave conditions improve. We do have a certificate that many are looking for, so get on 6 meters and give out some contacts.

Good hunting.

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JANUARY 1965 VHF CONTEST

By W3LHF, Dave Zimmerman, Chairman

Four months from now the club will once again be involved in the annual sweepstakes contest. This may seem like a long time to come, but time, as well as the warm weather, has a way of fleeting. Who among us has not put up an antenna in a snow storm? Fun? Maybe to the owner, but as far as getting a crew of assistants to agree, that's a different story. Cold weather is for toasting the toes by the fire and not for outdoor work, except for those antenna jobs which are in the emergency category, let's see if we can keep it that way! How about every member taking a projected look at his needs for January right now. Repairs such as broken bolts, insulators, guywires and feedlines, maybe a new 11 element for six, 15/15 for two? Need help? Now is the time for all these things, and many fellows in the club will be pleased to assist. Let's take a look gang, the next snow storm is closer than you think!

The Chairman of the contest Committee for this year is looking for assistants. If you did not indicate on the questionnaire put out by Doc, last year, your willingness to serve, or you did not return it and wish to help, please let us know. Appointments for area captains and coordinators will be made soon.

## EARLY BIRDS

From Florida Skip, W4IYT, Andy Clark, Editor.

The earliest known reference to the use of an aerial device, or antenna, for wireless communications is in file at the Library of Congress in Washington, D.C. From photo reproduction of the original we read, "Sent Signals by Aerial Telegraph between two stations by elevating a kite on each mountain, the string of which was a small copper wire, attached to a galvanometer, each ground end lying in water. The signals perfect during the cloudy part of the day. Elevation about fifteen feet." signed by Dr. Mahlon Loomis, Berea, Chic.

This demonstration took place in the Cohocton and Beorse Deer Mountains of Virginia in 1865. The distance was approximately 14 miles. The following year a new record of two miles was set between two ships at sea. In 1869, "The Loomis Aerial Telegraph Bill" requesting an appropriation of \$50,000 was introduced in congress to further develop this new idea for communication purposes. Quoting from the original manuscript, "...causing electrical vibrations, or waves, to pass around the world, as upon the surface of some quiet lake, one wave circlet follows another from the point of disturbance to the remotest shores, so that from any other mountain top upon the globe, another conductor which shall pierce this plane and receive the impressed vibration may be connected to an indicator, which will mark the length and duration of such vibration, and indicate by any agreed system of notation, convertible into human language, the messages of the operator at the point of the first disturbance."

It is very hard to believe that this was written over 90 years ago! Yet, on July 30th, 1872, Patent No. 129,971 was issued to Dr. Loomis for this "Improvement in Telegraphy" which in reality is the FIRST PATENT issued for WIRELESS TELEGRAPHY, fully two years before Marconi was born!

The Old Timer

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## OPERATING AIDS

From ARRL

### ON GOOD PHONE OPERATING

1. Listen much...with care. Avoid distractions in your operating room. Tune the band well after each call.
2. Time your calls: monitor your own frequency. Call only when a station is free.
3. Make short calls, with breaks to listen. Speak clearly, at a steady, modest rate. Three short calls are better than one long one.
4. Use push-to-talk technique...speak near the mike. Watch the modulation indicator. Keep local background noise at a minimum.

5. Make notes. Avoid missing points for comment. Jot down topics to avoid repeats.
6. Talk in connected thoughts and phrases. Notes will help avoid mixing up subjects. Push-to-talk technique will keep other amateurs from calling you a monologist.
7. Speak naturally. QSO's need not be cut and dried. Make them interesting. Avoid exhibitionism. Use proper operating form to promote efficiency in communication and add respect and prestige for your station.

## SIGNAL REPORTING

Signal reporting is a courtesy, not an FCC requirement. It is such a common courtesy that every amateur has a space for it in his log and on his QSL card. It is information most sought in practically any QSO.

Be honest! If there is something wrong with the signal of the other fellow, tell him so, because he wants to know, just as you want to know if there is something wrong with yours. Make your reports worthwhile, honest and informative.

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## SWAP & SHOPPE

FOR SALE: LM-freq. meter with power supply. Excellent condition. \$35.00 or will trade for what have you.  
NC-270 Excellent Condition \$160.00  
6 meter trans., mod., power supply, ant. relay, built-in VFO, 60 w. Trade only for used general coverage receiver such as SX-40 etc.

CONTACT: W2GQK, Jack Sterner  
322 Perrine Avenue,  
New Brunswick (PT), N.J.  
201-846-2290

Or W2EIF. Jo, for further information.

FOR SALE: 1 Panadopter (Navy type)  
1 500 watt mod. xformer, multimatch (Thordardson)  
1 Gonset Mobile converter  
6 - 12 volts  
1 R.M.E. V.H.F. 152A converter. 10-6-2 meters  
2 blower motors 110 v AC  
4 400A tubes  
4 CX250 B tubes

CONTACT: W2KFC, Lee Miles  
609-HA. 8-1497

WANTED: Old United States Coins of all types. Will trade tubes, electronic parts of all kinds and several converters for your coins. What do you need?

CONTACT: W3LHF, Dave Zimmerman  
520 Centennial Road,  
Johnsville, Pa. 18974  
215- OS.5-4539

\*\*\*\*\*



SWAP & SHOPPE

Conducted by: W3ZRR, Ray Whitehead  
4534 N. Smedley Street,  
Phila., Pa. 19140  
215- DA. 4-5910

FOR SALE: 1 Clegg Interceptor B. New. \$35.00  
1 Gonset Communicator II  
6 meters. \$100.00

CONTACT: K3BPK, DAVID BINDIN  
6504 Roosevelt Boulevard,  
Phila., Pa. 19149  
215- JE. 3-1849

FOR SALE: 1 Globe VFO. Perfect Condi- \$65.00  
tion. 160 - 6  
1 Globe Converter, Excellent \$20.00  
1 HRD - 5TA Receiver, coils,  
speaker and power supply.  
Excellent. \$115.00  
1 4 1/2" Telescope \$75.00

CONTACT: K3WEI, GLENN  
7825 Stanton Avenue,  
Phila., Pa. 19150

WANTED: 40 - 50 watt High Fi amplifier

CONTACT: DR. MARTIN ENTINE  
215- LI. 8-0800

FOR SALE: 40 foot crank-up tower \$50.00

CONTACT: K3IPM, STANLEY SMITH  
43 Mimosa Lane,  
Levittown, Pa. 19052  
215- WI. 3-1435

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LATEST NEWS ON THE SEAMAN CASE

From August, 1964 QST.  
The Seaman case, wherein K2TOP and the Borough of Elizabeth, NJ. have been at odds, appears to be headed for a quiet settlement by agreement between all parties concerned. The pressure on Seaman, because of TVI involving Seaman's earlier 6-meter operations, has been eased by his current operations and interest in the lower amateur bands.

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STOLEN

Call Letter License Plate: W3ZRR be-  
longing to Raymond Whitehead. If  
spotted, call 215- MU. 6-9700 and ask  
for the 35th Police District.

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Southern Counties Amateur Radio Ass'n  
1st Annual Hamfest, Sunday, September  
20 (Rain date: Sept. 27) at Lake Len-  
ape Park, Mays Landing, New Jersey.  
Talk-in station; K2BR, frequencies;  
50.5 and 147 Mc.  
\$2.00 per person (Children under 12  
free, accompanied by an adult)

Swimming, Swap Shop, X-Meter Hunts, Etc.

For further information contact:  
Charles Bengal, Chairman  
SCARA HAMFEST,  
815 Seaside Avenue,  
Absecon, New Jersey

MEETING DATES

<u>WEDNESDAYS</u>	
1964	September 23
	October 21
	November 18
	December 16
1965	January 20
	February 17
	March 17
	April 21
	May 19
	June 16

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GENERAL meetings are held on the third  
Wednesday, when possible, at  
the West Oak Lane Jewish Com-  
munity Center, Sedgwick and  
Thouron Streets, Phila. at  
8:00 P.M.

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SEPTEMBER MEETINGS

SEPT. 9 DIRECTORS

The Directors meeting will be  
held at the QTH of K3GAS, Doc,  
on Wednesday, Sept. 9 at 8:00  
P.M. 7815 New Second Street.  
If unable to attend please  
call 215- ME. 5-1078

SEPT. 23 GENERAL

(Note change in date due to  
Yom Kippur)  
The General meeting will be  
held on Wednesday, Sept. 23  
at 8:00 P.M.

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NEW MEMBERS

K3BOY, MICHAEL BORTULIN, XYL, HELEN  
5435 Oakland Street,  
Phila., Pa. 19124  
215- JE. 3-9272

K3EQU, PAUL PFLEIGER, XYL, GRACE  
Frye Road, R.D. 1,  
Pennsburg, Pa. 18073  
215- 679-7633

W2LZA, LYMAN BETHKE, XYL, MARIE  
23 Englewood Boulevard,  
Trenton, N.J. 08610  
609-585-8986

NEW PHONE NUMBER

K3BPP, WALT  
215-348-8913

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COMING EVENT

SPEAKER FOR OCTOBER 21 MEETING WILL BE  
W3YA, GIL CROSSLEY, DIRECTOR OF THE  
ATLANTIC DIVISION

\*\*\*\*\*

"PACK RATS CHEESE BITS"  
829 W. FISHERS AVE.  
PHILA. 41, PA.



SALES ABROAD

JOBS



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