

PACK RATS' CHEESE BITS



MT. AIRY V.H.F. RADIO CLUB, INC., PHILA., PA.
(50.2, 144.2, 221.4, 432.2 & 1296.4 MC.)

CLUB CALL: W3CCX

AFFILIATED MEMBER: AMERICAN RADIO RELAY LEAGUE

EDITOR: HELEN BRICK, XYL, W3SAD

MEMBER OF: AMATEUR RADIO EDITORS' ASSOCIATION

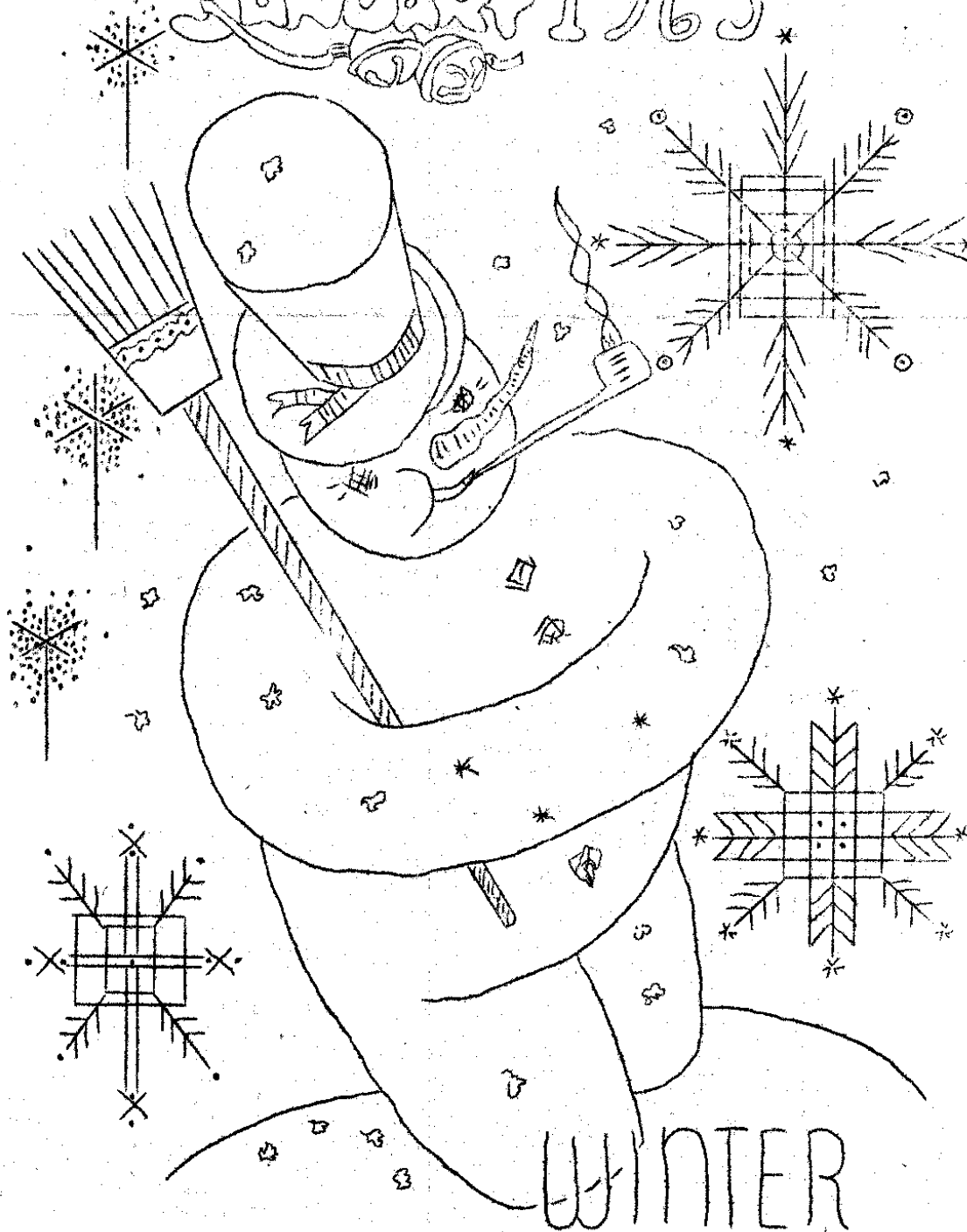
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Meeting notice:
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JANUARY 1963



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(EX-OFFICIO)

MEETINGS: DIRECTORS' the second Wednesday of each month at 8:00 P.M.

GENERAL, the third Wednesday of each month at 8:00 P.M.

MEETING PLACE: WEST OAK LANE JEWISH COMMUNITY CENTER, SEDGWICK & THOURON STS., MT. AIRY, PHILA., PA.

COUNCIL REPRESENTATIVES:

W3AYG, JOHN HARRIS
K3LBT, ALFRED OBENLAND

VHF, PAM: W3SAO, FRANCIS BRICK

MONDAY NIGHT NETS:

144.2 - 8:00 P.M.
50.2 - 9:00 P.M.
221.4 - 10:00 P.M.

NET CONTROLS:

144.2- W3SAO, Frankie
Alt., W3FSC, Ossie
50.2- W3CL, Harry
221.4- W3KKN, Ernie
NITWIT- W3SAO, Frankie
50.2 approx. 10:15 Monday



*Editor's
Corner*

Now is the time for all good hams to come to the aid of telecommunications and back the ARRL in their attempt to have a commemorative stamp issued in 1964 honoring US HAMS on the occasion

of the 50th ANNIVERSARY of the formation of the ARRL, a non-profit organization of, by and for the Hams.

Read the next two articles with interest regarding same.

From time to time, we feel certain, articles will be appearing in QST regarding how YOU TOO can help in getting the commemorative stamp issued.

AMATEUR RADIO NEWS
THE AMERICAN RADIO RELAY LEAGUE, INC.
WEST HARTFORD, 7, CONN.

The American Radio Relay League, the national society of amateur radio operators, has filed a petition with the Postmaster General for a commemorative postage to be issued in 1964 on the League's 50th anniversary. The stamp would honor United States radio amateurs for their fifty-plus years of electronic pioneering and service to their country.

During that period, radio amateurs, or "hams", have contributed in many ways to the technical development of radio communications; have supplied a large part of the trained technicians and engineers to the electronics and communications industries; have provided much-needed communications in times of disasters such as floods, fires and hurricanes and have been the source of much-needed trained personnel in war time.

Their latest and most spectacular achievements have been in the space communications field, where they have succeeded in placing the first two non-governmental satellites into orbit for research and self-training purposes.

The League's petition pointed out that no U.S. stamp has ever been issued commemorating the radiotelecommunication field and that a stamp honoring the achievements of amateurs would honor the entire electronics field.

November 12, 1962

Hon. J. Edward Day
The Postmaster General
Post Office Department
Washington, 25, Pa.

Dear Mr. Day:

On behalf of the Board of Directors of the American Radio Relay League, I petition for the issuance in 1964 of a postage stamp commemorating the public service of the nation's 250,000 Federally-licensed amateur radio operators.

Amateur radio was born around the turn of the century. In one sense, all the pioneer wireless experimenters were amateurs; Marconi himself was proud of the name "amateur". But it is impossible to set an exact date for the beginning of amateur radio. It is our thought that the fiftieth anniversary of organized amateur radio -- ie, the foundation of the American Radio

Relay League as the national non-profit membership association of amateurs -- occurring in 1964, would be the suitable occasion for the issuance of a stamp. I should make it clear, however, that our request is for commemoration of the amateur radio service, not for our specific organization.

Let me briefly outline some of the public service aspects of amateur radio.

Amateur radio is a scientific avocation, defined in international law (in which respect it is unique among hobbies) as a public service of "self-training, intercommunication and technical investigations carried on by duly authorized persons interested in radio technique solely with a personal aim and without pecuniary interest." From a humble beginning at the turn of the century, amateur radio in the United States has grown and progressed until today there are 250,000 citizens licensed as amateurs by the Federal Communications Commission "in the public interest, convenience or necessity."

Amateur radio has, indeed, a magnificent record of public service. Perhaps foremost is the amateur's work, on a volunteer basis as always, and using equipment acquired at his own expense, in providing emergency communications. In practically every major disaster for the past four decades, where commercial wire and radio circuits have been disabled, the short-wave networks of amateurs have stepped into the breach to provide vitally-needed communications for rescue and rehabilitation purposes. These instances range from the rescue of a snow-bound train in the Colorado mountains in 1922; to the New England floods of 1936 where, despite property losses in seven figures, the almost negligible loss of life was attributed to the outstanding emergency communications; to hurricane Donna, which again found hundred of volunteer amateurs on the job to provide disaster communications links from home-constructed self-powered personal radio stations, at home or in motor vehicles.

Such a record does not derive from chance, but is the result of devoted personal attention to acquiring, in advance, necessary operating skills to ensure a capable performance under fire. A special organization, the Amateur Radio Emergency Corps with some 35,000 volunteers, trains regularly foreefficiency through simulated emergency tests. An annual Field Day activity sees upwards of 13,000 amateurs transporting som 3,000 individual self-powered radio transmitters and receivers into isolated spots throughout the nation and, by operating in relays, conducting a continuous 24 hour grueling test of personnel and equipment under simulated emergency conditions. In general recognition of amateur performance in emergency and civil-defense communica-

tions activities, the Governors of California, Illinois, Indiana, Maryland Michigan, Ohio, Oklahoma and Texas have at one time or another declared an Amateur Radio Week in those states. Amateur contributions have been recognized by the legislatures of 47 states through authorization for the use of FCC-assigned station call letters on the marker plates of amateurs-owned motor vehicles.

In the technical field, amateur radio operators pioneered and developed the short-waves, at a time when this portion of the radio spectrum was considered worthless by industry and government. The first trans-Atlantic short-wave communication, in 1923, was by amateurs. Our present knowledge of the behavior of the "VHF" and "UHF" portions of the radio spectrum, now occupied in part by the television broadcast industry, is derived to a large extent from early amateur investigations. The improvements in radio technique contributed by amateurs are legion. The late Franklin D. Roosevelt once said, "The fact is that the future of radio depends to a large extent on the amateurs, for it is their initiative, enthusiasm and ingenuity that overcomes radio barriers and leads to new frontiers, putting new problems up to the science"

Each amateur station can be considered a "field observation post" in technical investigation work, and amateurs on a number of occasions have cooperated in government and industry research -- always with no material reward, but solely for personal satisfaction in the knowledge of making contributions to the public interest. An early instance was a series of "fading tests" in cooperation with the Bureau of Standards in 1922. More recently, as an official program part of the International Geophysical Year, amateurs probed the vagaries of VHF radio propagation. Several years ago the U.S. Air Force made extensive use of volunteer worldwide amateur networks in an urgent appraisal of a newer mode of communication known as "single-sideband" for its needed instantaneous global-communications system, and made its decision to proceed largely on the basis of the amateur experimental program. Precious months and millions of research dollars were thus saved.

A current technical program of the amateur body, already successful, is in the field of space communications. Skilled volunteer amateurs designed and constructed radio beacon satellites meeting the highest professional requirements, and arranged their launch through the cooperation of the U.S. Air Force as auxiliary equipment on regularly-scheduled space vehicles. The initial package, in December 1961, was the world's first non-government satellite, was launched at no cost to the taxpayer, and was tracked by thousands of amateurs around the globe, providing information for scientific analysis.

A second satellite was operational in June, 1962, with similar results. A Third "active" relay satellite is now under construction. The project is entirely a non-profit, non-military, non-political venture into space communications. -- brought about through the restless, inquiring minds of amateurs in their desire for knowledge and drive for self-education. It is known as "OSCAR" -- Orbital Satellite Carrying Amateur Radio. Annexed to this proposal, as information, is a series of comments by various communications authorities concerning the project.

Amateur radio is a prime source of engineering, operating and executive personnel for this country's electronics industry; scores of today's leaders in the field chose electronics as a career because of an early interest and self-training through amateur radio.

We should also mention the sociological importance of amateur radio to the nation. This scientific avocation teaches method, industry, self-reliance, consideration of others, and encourages an inquiring mind. It has been said that the leadership of the United States in the electronics field derives to a considerable extent from what may be termed "the amateur spirit in research." It is estimated that more than one million individuals, directly or indirectly, have passed through the amateur radio ranks in the last 50 years. Since our national culture is only as good as the individuals who comprise it, obviously amateur radio is making many contributions to its improvement.

It is for these reasons we believe it would be appropriate for the Government of the United States to recognize the voluntary contributions to the national interest by our 250,000 amateur radio operators through the issuance of a commemorative stamp. We understand that no U.S. commemorative has ever been issued in the field of telecommunications. We submit that the communications accomplishments of our nation over the years have been vital to its development and growth, that the institution of amateur radio pioneered in those accomplishments, and continues to contribute to the national interest entirely on a voluntary basis, and that the issuance of a postage stamp honoring the amateur radio operators of our nation is in effect a recognition of the entire telecommunications field. We urge your favorable consideration of our request.

Sincerely yours,
JOHN HUNTOON
General Manager.

TIME FOR A MILLION !!

ATTENTION ALL MEMBERS !!

(AND FRIENDS)

As the front cover indicates, WINTER is upon us, the time for snow, sleet and icy street.

Sometimes, along with old man snow, the winds do blow, causing drifts and meeting shifts.

We urge you to read the following and make special note of it.

Should any meeting be cancelled due to inclement weather, announcements will be made on NET FREQUENCIES from 6:30 to 7:30 P.M. If possible, it will also be announced on radio and television.

SO.....LISTEN FOR THE ANNOUNCEMENTS and don't be the only one at the meeting.!!

MAMA PULLED A BOO-BOO! I'm a bad girl. In the list of Pack Rat Award stations I omitted one of my sons. Please add him to the list.

K3UCK, DON, ALLENTOWN, PA.

I'm sorry, Don.

TIME FOR A MILLION !!

NEW PRODUCTS OF INTEREST TO HAMS

By, W3NSI, Lynford Rowland, Jr.

I. Amperex Tube types 6HA5/EC900 & 7GJ7/ECF801

New frame grid tubes, designed to be used in the new UHF & VHF TV sets. When used as a package, the two tubes have a gain in excess of 200. The 6HA5 is a triode RF amp. which has a transconductance of 20,000, and provides 2.5 DB more gain and .8-1 DB less noise than presently used types.

The Triode 7GJ7 is used as an Oscillator-Mixer. Mixer gain being about 5000 with 1.6 volts asc injection. Oscillator is said to operate reliably at low line voltage.

2- General Electric Tube types 8156 & 8106

Designed for mobile use in the VHF range thru 175 Mc, these tubes have 13.5 V heaters. The 8156 is a compactron type with 15 W plate dissipation rating. At 175 Mc, the Max. ratings are 600 V, 100 Ma - Plate 250 V 2.5 W dis. - Screen and Grid current of 5 Ma. It is single ended, and has a transconductance of 7600.

A multiplier-driver tube, type 8105 is rated at 6 Watts dissipation with a plate voltage of 330, cathode current of 40 Ma. Transconductance is 9000 on this 9 pin unit.

3. RCA Nuvistor 6DV4 (also 20V4)

A gold plated triode designed to be used in UHF TV Conv. Sec. units. Both the pins and shell are gold plated, to insure good contact. Uses UHF Nuvistor socket - has 7 pins - 2 plate & 2 grid pins for lower lead inductance. The 6DV4 uses a Dark Heater rated at 6.3 V at 135 Ma. Due to the different socket used this nuvistor is not interchangeable with the 6CW4 or 6DS4.

Note-- I have been asked, by several members, where a ham may pick up one of the cheap scopes (Millen). This item was not mentioned in this column. --Checking back in "Cheese Bits" I find that Dave Gindin in "Sarcastic Corner" made note of a Millen "modüle oscilloscope which could be bought with or without the tube" "price range \$12-15".

I do not recall having seen such a unit on the Surplus market, made by Millen. However that does not mean that they may not be available from that source, as I am sure to have missed something in the last 17 years of bargain hunting. Millen does make several small scope modules, the cheapest unit being \$21.00 w/o tube. Tube for this unit 1CP31 may be obtained from England for 10-11 dollars. the US equal to the 1CP31 costs \$20. So stop running around with 12-15 dollars in your fist, looking for these scopes, the price range would have to be 31-41 dollars.

73,
Lyn, W3NSI

For quite some time, rumors have been circulated that Hams throughout the world have heard signals from satellites put into orbit by Russia, containing humans as early as 1959. Many national publications have done their best to say that these reports are false.

Not to take sides we present the following article from The Sunday Bulletin, Philadelphia, December 9, 1962.

MUCH EVIDENCE OF COSMONAUT DEATHS FOUND.

Trackers in West Often Have Heard Voices, Then Silence
By OTON AMBROZ

New York, Dec. 8 -(NANA)
--Western space authorities are in possession of evidence that several Soviet cosmonauts have been killed.

Data compiled from civilian space authorities in Free World nations where tracking stations are operated indicates that there is a considerable basis of truth for the reports that have circulated in the West for some time.

Although the Soviet Union has never disclosed any fatalities among cosmonauts, the evidence shows: 5-

In February, 1959, cosmonaut Terentiy Shibirin, an air force officer, was launched into space at Kapustan Yar near the Black Sea. His radio signals were recorded for 28 minutes. Nothing was heard of him again.

'Accidental Death'

On Oct. 11, 1960, Col. Piotr Ivanovitch Dolgov was placed into orbit. Broadcasts of his mission were monitored for 30 minutes, then contact was broken. His name, prominent as holder of several records in parachute jumping, was never mentioned again in the Soviet press until more than two years later, on Nov. 23, 1962, Red Star, organ of the Defense Ministry, announced his "accidental death while fulfilling his duties." It gave no details.

On Nov. 28, 1960, signals from an unidentified cosmonaut, sending frantic message: "World -- SOS --SOS," were monitored briefly, then faded.

On Feb. 2, 1961, another unidentified cosmonaut was placed into orbit. Western tracking stations registered his breathing and heartbeat for half an hour, then there was silence.

On April 7, 1961, Vassilyevitch Zovodovsky was launched a few days before his successful compatriot Yuri Gagarin. His contact with the ground was lost seconds after blast-off.

Male and Female

On May 17, 1961, two unidentified cosmonauts, a male and a female, were launched together in one capsule from Baikonur, near the Aral Sea. Tracking stations in Canada, Hawaii, West Germany, England, France, Sweden and Italy recorded this conversation:

"While we are studying the program... the situation becomes critical for us ...Something went wrong...We are changing our course...I am talking with the director, do you understand?... If we do not get out, the world will never learn about it anyway...What? What? Here! Here there is something! There is something!"

These were the last words heard.

THE 6 METER UNMODULATED CARRIER IN N.J.

On Thursday, Dec. 6, while in QSO on 6 we were apprized of an unmodulated carrier around 50.195 which had been on for over 24 hours. We took a beam reading on it and located it SE of our QTH; W3OR and others SW of us reported it due E of them and W2EIF reported it a little NW of Stratford, N.J. The hams SW of us checked it out mobile and found that it was on the Jersey side of the Delaware.

Having a member living in the approximate direction of W2EIF's findings, we asked him to call him on the landline. The two of them pin-pointed it somewhere between Gibbstown and Winona, N.J.

We learned from W3OR that it was reported to the FCC at 8:30 that morning.

Well, you can imagine the thoughts; an unmodulated carrier on over 24 hours, no sounds of anything, not even one little footstep. Did he just turn the rig on and then have a heart attack before he could give his call? Did his XYL not know how to turn it off, or in her excitement forget to do so? Did he just have a room, and was lying on the floor, no one knowing about it? These things can happen. You often read of people being dead two or three days before someone misses them. So, being a typical nosy female, I called the FCC the next day to see whether or not they had located it. To my surprise I learned that it had been on for four days. They were still looking for it.

I explained how the group had pinpointed it between Gibbstown and Winona, hoping that that would help them to locate it.

I called them again on Monday to find out if it had been located. They did locate it between Gibbstown and Winona, but before they could actually find it, it went off the air. So they never did find out to whom it belonged. The only explanation to be arrived at is; the fellow must be a traveling salesman, and in packing accidentally turned it on, then left for a four day trip. Upon his return, he noticed it turned on and turned it off.

One request that I was asked to pass along from the FCC is: PLEASE DO NOT WAIT THREE DAYS TO REPORT AN UNMODULATED CARRIER.

BUCKS COUNTY AMATEUR RADIO CLUB AWARD

The BCARC certificate requires 10 QSL cards, 5 beyond 100 miles and 15 for members.

Be sure your QSL's are accurate.
Address: Box 311, Bristol, Penna.

Award Chairman: K3HNP, Dave Heller
14 Darkleaf Lane, Levittown, Pa.
Contact the chairman for aid in expediting QSL's earned.

AWARD STATIONS

- K3ATI, JIM SMITH, 6, 2, 220
- K3BKO, BOB COFFIN, 2 & 6
- K3BKP, IRENE COFFIN, 2 & 6
- W3BZ, BARRY BARKER, 2 & 6
- W3CWN, JOHN BECK 80, 2 - AM, CW, SSB
- K3COE, BILL RUPP, 6
- K3OVB, BILL BEAL, 20 SSB 2
- K3COD, RAY GRANT, 80, 40, 2 SSB, AM, CW
- K3EEP, "MURPH" TREMBELAS, 40, 10 AM, CW, SB.
- K3EGP, RALPH BLAKEMORE, 2 & 6
- K3EGQ, JOHN WARNER, 75, 10 AM & 6
- K3EOG, GENE FEGELY, 6 & 2
(Is he my long lost cousin, Ed.)
- W3EQM, BERNIE HARTZ, 80, 40 CW, 2, 10, 20
- W3FMT, CHARLIE ELLNER, 2
- W3FNU, HOWARD MORGAN, 6, 2
- W3FVA, ALLAN CRUMP, 80, 15, 10 AM, CW
- W3GC, JOHN WILLIAMSON,
- W3GSO, ENGLEBERT SMITH, 10, 80 AM, SB, 2, 6

- K3GSV, HEDDY GRANT, 75, 10, 2, 6, 40AM
- K3HGA, RON RUSK, 2, 6, 220
- K3HHS, BILL PRENSKY, 15 SB, CW, 6, 2, 220
20 SB, CW 10AM, SB
- K3HNP, DAVE HELLER, 40CW, 6, 80, 15SSJRA
- W3JFI, HAROLD CARR, 20 SSB
- K3IDK, FENTON GLAZIER, 6, 2
- W3IKH, CHARLIE GREEN, 75, 10, 6, 2 AM
- W3IKI, CLAIRE GREEN, 75, 10, 6, 2 AM
- K3IZU, BUCKS COUNTY A.R.C.
- K3KNY, DAVID GREEN, 6, 2
- K3KPD, LEST VEIT, 6
- W3KPY, ED SLOSKEY, 2
- K3LFZ, ESTHER RAY, 10 AM
- W3MAT, HOWARD HARDING, 80, 2 SB, AM
- K3MEH, CHARLIE BIRK, 6, 2, 40 CW
- W3MOM, BILL CHUBB, 80, 10 AM, CW
- W3MJR, STAN PAAR, 6, 2 40 CW
- W3MPX, JOE MONAHAN, 40, 2 AM, CW, SSB
- K3MWV, RICHARD PIERCE, 6, 2
- KN3OQD, PAUL PIETRK
- K3PUA, JOHN VITERITTO, 6
- K3REH, ED BOYLE, 6
- KN3SVS, BOB THORNTON, 2
- W3UAX, BILL COPESTAKES, 6, 40 CW
- KN3UBZ, RALPH HAMILTON, 2
- KN3ULA, DON RICHMON, 40 CW
- K3VBX, CHUCK TROTT, 6
- W3YPT, LIONEL MULLER, 6

Underlined bands are those used most frequently. Subject to change!

Copies of this list will be supplied by the chairman, for return postage.

SICK BAY REPORT

(We ask you to please drop a card of cheer to the following.)

WA2WCR, Charles Goodfellow, Room 215, Bridgeton Memorial Hospital, Bridgeton, New Jersey.

A report on Charlie from W3ASD, Karl, his brother-in-law: Charlie has had three operations (intestinal) and is going to have three more. He has already received many cards from the Pack Rats and others, and they have made him feel quite chipper. Both Karl and Vorn, Charlie's XYL, pass along their sincere thanks to all who have sent him cards so far.

K2UWV, William Stackhouse, 13105 W. Main Street, Alden, New York.

Bill is a former Pack Rat and is in the hospital, not doing to well, with heart trouble. Which hospital, we do not know, but we do know that "Chicken" will see that he gets your cards. (I think her handle is Bertha, but she always signs herself "Chicken.") If you attended the Pack Rats Picnic, you probably met Bill and "Chicken".

We say, Charlie and Bill, get better soon and return to the airwaves. You are missed.

TIME FOR A MILLION !!

WHAT HAPPENS

Number one on the hit parade is that W3OR, Alan and his XYL, Mas, are both back in their QTH in Glen Mills. Welcome home, and let's have no more trips to the hospital. Al has a penchant for working mobiles from his QTH, and as of December '6, he has worked 1526. At one time he worked 32 in 24 hours, including 10 or 12 states. There is a challenge in working mobiles, to see how long and how far you can keep in contact with them.

As reported earlier, Al, promised to take number 1000 to the Mobile Sixers' banquet. Well, #1000 was K3NDY and he gave Al a model 1962 Chevy with a Halo and miniature rig, plus a cat on the back-deck. It even included a loading capacitor.

One night, when he was in QSO with K1DHY, Roger, Roger had to standby long enough to answer the landline. At the same time, Al, also received a landline call. Both parties calling Roger and Al were hams.

Now that the Pack Rats are issuing a certificate for working 30 members, Al's ambition is to earn it the hard way. 30 mobile contacts. So, Sons, if you are mobile, look for W3OR.

Speaking of the Pack Rats' Certificate, the question has arisen regarding both mobile and fixed.

Here is my interpretation of the rules. They definitely state 30 Pack Rats. Now if you work a Pack Rat fixed, and again work him mobile, you are not working TWO Pack Rats, only ONE! Therefore you can count either the fixed or the mobile, but NOT BOTH!

Hey Ralph, K3CIV, how are you doing? Of course you may have been on when we weren't and that is why we haven't heard you. Hope all is OK. And how's that new grandson doing?

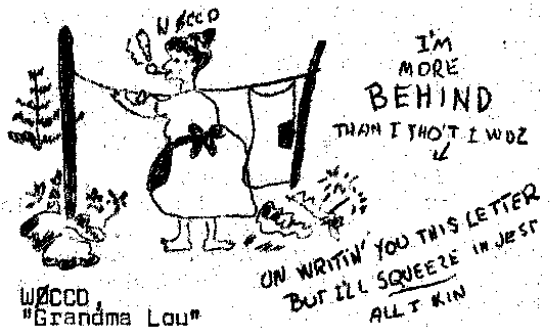
Had the pleasure of working our good "old" friend, W3JEW, John, in Wilmington the other night. He is going to college and doesn't get on very often. He is on 220 and often hears our net. He and W3CGV, Gary, have the honor of being the first to work 220 mobile in Delaware.

"Old Money Bags", W3MVF, Dave, was on 220 Monday, Dec. 10, and he sounds A-OK. Hey Dave, what's this I hear about you being a Den Mother for the Brownies?

Well, as the old saying goes, "Your kids will make a liar out of every-time.", it happened to me. Last month I reported that W3CPT, Ken, was in Scotland, and his XYL, Sophie was home

alone. What happened? After I had it all mimeographed and ready for the mail, I find out that Ken is home. Where's my 22?

Monday night, Dec. 10, after making the report to the 220 net, Frankie went back on 6 for the Nitwit Net. We didn't hear any Rats, but K2QDZ, Joe, in Audabon, N.J. was calling CQ. I told him to give him an answer and see how many Pack Rats were listening. Well, that did it. Poor Joe. He really got it. He started out by saying he never heard of the Pack Rats. I'm sure he knows the Pack Rats now. He even hooked-up with a couple of non-rats and K3VPP, John came up with the suggestion that we cut the bridges between Phila. and South Jersey and let them float out to the sea. Joe thought that was a good idea too, then he wouldn't have to talk to us.



W3CCD, "Grandma Lou" (That is her letterhead, not mine) *****

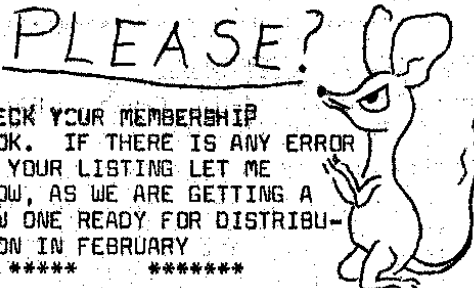
"GRANDMA LOU" and her "OLD GOATS NET"

Despite all of the silly titles given to different nets, the "Old Goats Net" like our "Nitwit Net" does get down to serious business. They are used for passing traffic besides acting silly. The "Old Goats Net" is on 6 on Saturday evenings, from Omaha, Neb.

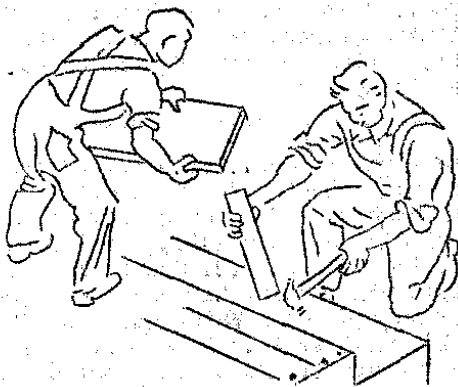
She says, "Now print this in your cheesy paper--I call these 6 meter wonder boys Old Goats so their wives won't guess that I'm saying "Daling"."

"Tell all my wonderful friends in Pa. and New Jersey and every place else you pick-up around there I said -- A very Merry Christmas and a Happy, Healthy, Prosperous New Year. God Bless you all-

Much love, Louise."



A REMINDER FROM THE TREASURER! YOUR DUES ARE DUE JANUARY 1, SO PLEASE PAY THEM WHEN YOU RECEIVE YOUR BILL.



ARRL BUILDING FUND

You know that little man who is climbing the tower in QST? He seems to be having trouble getting up the tower, so we have decided to give him a boost by sending \$500.00 before the end of the year.

Just because we have sent some money in, that does not mean that Grandpop is not still selling bricks. As we stated last month, the main building is complete and we are now working on the model of the shack for WIAW.

Mama pulled a 800-800 last month, the price for the bus trip, including meals is about \$10.00 and not the \$4.00 as stated. I'm sorry. Anyone wishing to join us on the trip to headquarters to present the model of the building is more than welcome to do so. Just contact the chairman, Grandpop Bill. (address below)

It has been quite awhile since we have explained about the "Bricks", so now is a good time to do it all over again.

Anyone may purchase a brick for \$1.00 or more, it is not necessary to be a "Pack Rat". It is through the generosity of our friends which has enabled us to complete the main building and start the model of the shack. Each person purchasing a brick will have his/her call on the brick. If you would like to have your call on display in the lobby of the new headquarters building, send your money to the Chairman, Grandpop Bill. Make check or money order payable to Mt. Airy V.H.F. Radio Club, Inc., and mail to: K3HWZ, William McCutcheon 124 Orchard Lane, Feasterville, Penna.

TEN ELECTRO COMMANDMENTS

Reprint Courtesy of the Navships Electronics Information Bulletin.

Contributed by K3HWZ "Grandpop Bill"

1. Beware the lightning that lurketh in an undischarged condenser lest it cause thee to bounce upon thy buttocks in a most unseamanlike manner.
2. Cause thou the switch that supplieth large quantities of juice be opened and thusly tagged that thy days

may be long in this earthly vale of tears.

3. Prove to thyself that all circuits that radiateth and upon which thou worketh are grounded and thusly tagged lest they lift thee to radio-frequency potential and causeth thee to make like a radiation too.
4. Tarry not amongst those fools that engage in intentional shocks for they are surely non-believers and are not long for this world.
5. Take care thou useth the proper method when thou taketh the measure of a high voltage circuit so that thou dost not incinerate both thee and the testmeter for verily though thou hast no account number and can be easily written off, the testmeter doth have one and as a consequence bringeth much woe unto the supervisor.
6. Take care thou tampereth not with interlocks and safety devices, for this incurreth the wrath of thy supervisor and bringeth the fury of management about thy head and shoulders.
7. Work thou not on energized equipment for if thou so doest thy buddies will surely be buying beers for thy widow and consoling her in certain other ways not generally acceptable to thee.
8. Verily, verily, I say unto thee, never service equipment alone, for electrical cooking is sometimes a slothful process and thou might sizzle in thine own fat upon a hot circuit for hours on end before thy maker sees fit to end thy misery and drag thee into his fold.
9. Trifle thou not with radioactive tubes and substances lest thou commence to glow in the dark like a lightning bug and thy wife be frustrated nightly and have no further use for thee except for thy wages.
10. Commit thou to emeory all the words of the prophets which are written down in various safety precautions, and which giveth out with the straight dope and consoleth thee when thou hast suffered a ream job by thy supervisor.

"SWAP AND SHOPPE"

Conducted by; W3ZRR, Ray Whitehead, 4534 N. Smedley Street, Phila., 40, Penna. 215- DA. 4-5910

FOR SALE: GONSET G 50 \$250.00

CONTACT: K3HWZ, Bill McCutcheon 124 Orchard Lane, Feasterville, Penna. 215- EL. 7-4972

FOR SALE: HE 45, modified to HE 45A, VFO and squelch, power cord for 110 V, push to talk mike

and plate modulation. Can be dipped or tuned from front end. Lighted "S" meter. \$80.00 for quick sale.

CONTACT: K3LOM, Harry Brant
315 Walker Road,
Ambler, Penna
215- MI. 6-0370

FOR SWAP: High Frequency gear for Low Frequency gear.
RME Converter 1,2,&6, Xmtr. 2 meter; HB, 5894 in final 6 meter Xmtr HB; 829-B in final.

CONTACT: W3FOZ, Charles Koelsch
2600 Horsham Road,
Hatboro, Penna.
215- OS. 5-6260

THE ALL NUMBER TELEPHONE NUMBERS

We all know that the Bell Telephone Company is switching from exchanges to all numbers. Many jokes have been made regarding so many numbers and the confusion it will cause.

Take heart, boys and gals, your number and your friend's number will be no harder to remember than it was before.

If your exchange is TU. 4 now it will be 884- and the rest of your number.

Little Mama got curious upon learning that two members living in Lafayette Hill had two different numbers and so she called information. 825 and TA. 5 are the same. The numbers match the letters. As an example; K3GAY's phone number was 215- HE. 3-2507. It is now 215- 433-2507. Now look at your dial and see what number comes under "H" and what number comes under "E", and you'll get 43, thus; HE. 3 becomes 433. Try it with your own number.

TIME FOR A MILLION !!

COMING EVENTS

JANUARY 5 & 6, 1963 ARRL VHF SWEEP-STAKES.

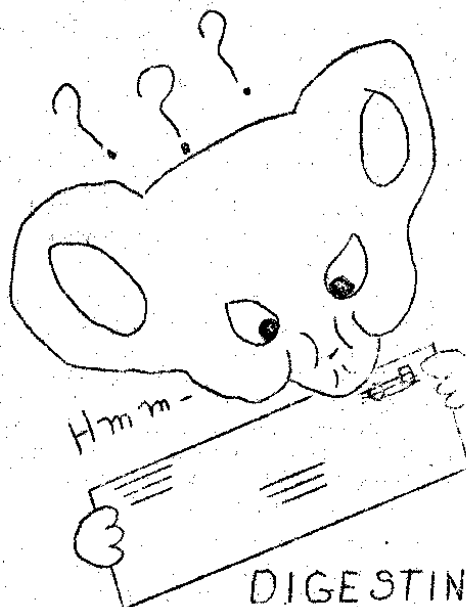
- 9. DIRECTORS' MEETING
QTH of W3AJF, HORACE
- 10. COUNCIL MEETING
ELECTION OF OFFICERS
- 16. GENERAL MEETING
"CRYING TOWEL"

FEBRUARY 23 EAST COAST VHF SOCIETY BANQUET & HAMFEST

MARCH 30 READING RADIO CLUB BANQUET & HAMFEST

TIME FOR A MILLION !!

JANUARY 1, 1963 DUES ARE DUE -9-



DIGESTING THE MAIL

OFFICIAL BULLETIN NR 875 FROM ARRL HDQ
NOVEMBER 28, 1962

TO ALL RADIO AMATEURS BT

Effective January 2, 1963, the Federal Communications Commission has granted ARRL request for full kilowatt input on the 420-450 megacycle band subject to certain area restrictions generally as outlined in June QST where the 50 watt limit still applies. January QST will carry full details. The Commission also has issued a notice of proposed rule making in Docket 14853 to ease mobile logging requirements in response to ARRL petition as published page 77 November 1961 QST. Comment date is December 31, AR

ARRL DES: Pass along this information to other VHF'ers. Plan in '63 to harness 4X250-and-larger tubes for 432 Mc. results. FOR MORE 432-Tech-INFO SEE JAN QST...If presently we have word of new A-12 program doings (see p. 22 June QST) we'll send as above, special advance-word-to-DES.

73. - FEH

From the OFFICE OF THE SECTION COMMUNICATIONS MANAGER, EASTERN PENNA.

Fellow Amateurs:

A few months ago I made a survey of a number of active amateurs and club secretaries in reference to their activities such as Club Banquets, Hamfests and Picnics. Each year we hold quite a number of these activities and in many cases, unknown to each group, they happen to fall on the same date.

With your assistance, I shall be glad to print a bulletin listing these various club activities, atimes and dates for the year 1963. A copy will be sent to all clubs on my mailing list and any amateur operator within the confines of the continental United States requesting one.

The intention of this bulletin is to pass your activity dates well in advance so they won't conflict with other club dates. If we should receive more than one on the same date it will be brought to their attention and, if possible, a date change made in accordance with both groups so as not to conflict with either group's plans or hampering the attendance of either affair.

If your activity be for members only, I suggest it also be entered so as not to fall on some other club group's date, for which some of your membership might possess the desire to attend. You may well see the tendency of this listing in getting a better attendance to all your club sponsored affairs.

In order that this bulletin be placed in circulation, I would request having your announcements no later than Jan. 25, 1963. Copies will then be sent along with my annual report sometime in February.

I would appreciate if club bulletins would enter this announcement in their circulation which may cover some spots I may not have in my file. Please list Banquets and Picnics separately. Thank you.

73,
W3ZRQ, Allen Breiner
212 Race Street,
Tamaqua, Penna.

EAST COAST V.H.F. SOCIETY, INC.

BANQUET AND HAMFEST

5th ANNUAL DINNER AND HAMFEST

WHERE? SWISS CHALET, PASSAIC STREET,
ROCHELLE PARK, N.J.

WHEN? FEBRUARY 23, 1963, 7:30 P.M.

HOW MUCH? \$6.00 PER PERSON

RESERVATIONS ARE LIMITED TO 400

CLUBS, NETS, ETC. DESIRING TO BE SEATED TOGETHER, MUST HAVE THEIR RESERVATIONS IN BY JANUARY 15, 1963.

awards, prizes, dancing, contest, speaker of note, fun galore.

Make your reservations with;

K2ZHS, JACK TOMPKINS
135 Herbert Terrace,
Saddle Brook, N.J.
201- SW. 7-8034

A NOTE FROM OUR LITTLE REBEL, K4MLY

Still active locally in the Central Virginia Six Meter Net and am having 60 members here at the house Saturday evening for our annual Christmas party and meeting, as well as election of officers for 1963. Sorry about that peculiar skip condition that keeps us out of the Philadelphia area. In my 3½ years down here, since giving up my WA2CVS call, I've never been able to work a Philadelphia station.

However, I do have the National Capitol VHF Society DX Certificate, and number ONE at that. Obtained that one about two years ago about the same time as one from the Kansas City VHF Club certificate, but due to so much activity with Civil Air Patrol radio, am only able to get on six about a half-dozen times a month. We do have over 150 six meter stations in the Richmond, Norfolk, Newport News area but two meter activity is limited to about three stations in the Richmond area plus operation on 148.14 locally for CAP. Since I can't seem to get up on six meters, any of the fellows that know me and want to hear my awful voice, can hear me on CAP frequency of 4585 kc as Blueflite 4, alternate Virginia control. We're on a good deal on that frequency.

Still no news on when Bernice (K4RDI) and I will be back up there as no transfer is in the offing at the moment. We love it down here and will really hate to go back North, but we know that someday it will happen. Our QTH is about 10 miles SW of Richmond and we have a real antenna farm out here in the country, what with antennas for working 4585 kc; 4467.5 kc; 50 mc and 145 mc plus a CB rig for the new CAP frequency of 26.620 mcs/ Also still using the G76 mobile. Best wishes for a very Merry Christmas and a Happy New Year to you and to all of the Pack Rats.

Best 73,
John

A LETTER FROM OUR MOST STUDIOUS VP

Just a few lines to let you know I'm still alive, but just barely! I got your fine issue of "Cheese Bits" and I must say that I feel this is one of your best efforts, Helen, if not the best. I got a lot of enjoyable reading from it and I'm sure that many others did too. Many thanks.

I have been doing almost nothing in ham radio since leaving Johnsville, except to read a bit and to attend a few meetings of the local radio club here at RPI. The club call is W2SZ and the activity is spread over all the bands. I have found there is a core of VHF men however; some with quite a bit of experience in spite of only a few years in the game. I have done my bit to push our cause by speaking at one of the meetings on you guessed it—VHF converters. I have outlined the activities and objectives of the Pack Rats, and invited one and all to our picnic. A lot of the fellows are from the NJ-LI area and some will be top VHF men soon. There is a lot of building going on in spite of the heavy study schedule.

The club director is Fred Norvick, a professor in the radiation field at RPI. He and many of the club members were impressed with our paper and expressed amazement that one person could put it together. After trying to type one letter, Helen, I am too!

I have been unable to spend much time at the club station which is located on the hill behind the housing project where I'm living. I have listened on two and six several occasions but hear no Pa. activity to speak of. The location is not too good though, for in spite of my first impression of being up in the mountains, the elevation is exactly that of my home station, 450 feet. Also the equipment is not in the best of shape and I have made a few suggestions for improvement. I'm a member of the club so that I'm allowed to suggest but so far have not been put to work.

I guess you get the general impression that I've been very busy Helen, and that's so. The Xmas vacation is about here and I expect to get into the area for a few days over the big week but will probably have time to see only a few of the boys. Also school starts again full blast on Jan. 2 at 8 A.M. so there is no chance for me to contribute to the efforts for the contest, and I'm very sorry about that. I was hoping to hit 400 this year myself, but will have to pass.

My best wishes to all for the Holiday season; good luck in the contest. Get Frankie well primed.

73,
W3LHF, Dave.

A NOTE FROM "CHICKEN", XYL OF K2UWV,

BILL STACKHOUSE

Dear Frankie and Helen:

Just a note to let you know Bill is in Mercy Hospital, Abbott Road, Buffalo, N.Y. Had an operation Sunday the 9th at 10:30 P.M. Had a very rough time but is slowly improving and on the road to recovery now, I hope. Will probably be here another week at least.

Merry Xmas to one and all. Give our best to all the Pack Rats!!

73's & 88's to all.

Chicken

(Note: Bill is probably at home now, so send your cards to his QTH. His address is in last month's issue.)

OFFICIAL BULLETIN NR 877 FROM ARRL HQ
DECEMBER 13 1962.

TO ALL RADIO AMATEURS BT

Many requests for schedules of stations sending on the air code practice continue to be received at ARRL. All amateurs transmitting plain language practice material are requested to file information with the ARRL Communications Department indicating frequency, days of the week, speed range and times so this can be passed along. In setting up schedules care is suggested to avoid conflict with net frequencies and times. To indicate your schedule ask for form CD 62 which will be sent free on request. AR

OFFICIAL BULLETIN NR 878 FROM ARRL HQ
DECEMBER 20, 1962

TO ALL RADIO AMATEURS: BT

All amateurs in the ARRL Field Organization are urged to take part in the annual Novice Roundup to be held Feb. 2 through Feb. 17. The winning Novice in each section will be awarded a certificate of achievement. Send a post card or radiogram to ARRL for free contest log forms and a map of the United States. Page 41 of January QST has all details on how to participate in the 1963 Novice Roundup. AR

SNITCHED FROM THE NEWSPAPERS

From the Evening Bulletin, Dec. 24.

LEGION GIVES 'HAM' SET TO VETERANS

HOSPITAL

An amateur radio receiving and sending station has been donated to the Veterans Administration Hospital, 39th St. and Woodland Ave., by the Philadelphia County Council of the American Legion.

The unit was dedicated to the memory of Albert E. Hermann, past commander of the council and former rehabilitation chairman of the hospital.

Designated by the call letter K3RJC, the "ham" station will join a network of over 60 amateur VA stations in the nation. It will operate as a local Civil Defense outlet.

From the Philadelphia Inquirer, Dec. 28.

BENHAM NAMED FELLOW

Thomas A. Benham, president of the Philadelphia Association for the Blind and a member of the physics department at Haverford College for 20 years, has been named a fellow of the Institute of Radio Engineers.

(Note: Everyone here knows that Tom Benham is W3DD, and has an official satellite tracking station on the campus of Haverford College.)

GREETINGS FROM PARIS

Received a lovely card from the Brown family in Paris, France. Nearly all know "Brownie" W2PAU. Will pass along his address for any who wish to contact him.

E.M. Brown, The MITRE Team,
c/o U.S. Embassy, APD 230,
New York, New York.

Note to exchange papers passing along information on sending QSL cards to Sheri Cook; Her address is; 408 Mallard Lane, Feasterville, Pa. On behalf of Sheri we would like to say "Thank You for your interest."

TIME FOR A MILLION!

A NOTE FROM THE TRAVELING W3DJV, FRED
VINITA, OKLA.

"Hi Nit Wits NCS for the Pack Rats.
Say hello to the gang on Monday Nite
Net and pass along the Season's Greet-
ings.

Fred & Helen

A READER'S DIGEST REPRINT
The Reader's Digest, Pleasantville, N.Y.

"CALLING CQ"--
KEY TO AIRWAVE
ADVENTURE

For amateur radio operators the world
around, the ether is crammed with ex-
citement, companionship and the chance
to serve in an emergency.

Condensed from Popular Mechanics
Edwin L. Chinnock
(Popular Mechanics Nov. '60, 200 E.
Ontario St., Chicago 11, Ill.)

Edwin L. Chinnock is a staff member
at the Holmdel Radio Research Labora-
tories of Bell Telephone Co., which
last summer cooperated in bouncing a
radio message by President Eisenhower
off Echo I satellite. He is also a
ham of 30 years' experience.

In a farmhouse in the hinterland of
the new Congo Republic, one evening
last July, a Belgian sat down before
his home-made amateur radio set and
began tapping the telegrapher's key:
"This is OQ4XX. OQ4XX, calling any-
one. We need help. Five women, and
eight children, four men cut off for
days. Two women raped and need medi-
cal attention." He gave his location
and signed off.

His message was heard in Leopoldville.
Within hours, Belgian paratroopers
arrived at the isolated farmhouse, and
two days later the women and children
were safe at home in Belgium.

Amateur radio operators are frequently
the first to swing into action in an
emergency. Last January a call for
help was picked up by 17-year-old
Walt Murray of Long Beach, Calif. A
girl in a remote section of Cuba had
been stricken with an acute case of
hydrocephalus, "water on the brain".
Needed quickly was a special valve
used in draining excess fluid from the
brain.

Walt immediately relayed the message
to West Hartford, Conn. From there
it went to a Boston firm which dis-
patched the necessary equipment.
Thus, today at least one Cuban has
nothing but gratitude for the "yan-
quis."

Walt Murray and the Belgian belong to
an unorganized but imaginative band
of radio "hams." There are 300,000
of them scattered over the globe--
men, women and children. With the
touch of a key or a soft word spoken
into a microphone, they can reach
across vast distances, ignoring age-

old barriers of race and language.
Of such importance is amateur radio
that it is the only hobby provided
for by national regulations and inter-
national treaty.

Expert or rank novice, the ham has
little difficulty in making himself
understood. The International Q sig-
nals cover a multitude of questions
and answers; QTR in any language
means "What is the correct time?";
QTH "What is your address?"; QSG "Have
you a doctor nearby?"

Over the years, operators have devised
a kind of shorthand that is understood
by hams of every nationality. NPMW DM
CUL translates as "No more now, old
man; see you later." A young lady is
a YL; when she gets married she is an
XYL (ex-young lady). "73" is regards,
"88" love and kisses. HI signifies
laughter, a really good joke rates
HI HI. BCNU is, of course, "Be seeing
you."

The ham never knows with whom he will
talk next--a student in Moscow (It has
been only within the last five years
that the Soviet government has per-
mitted amateur radio communication
with the outside world; before that,
Soviet hams listened in to world-wide
traffic but talked only with fellow
hams in Iron Curtain countries.), a
bearded Sikh in India, the mayor of
Canterbury. Don Wherry, an Iowa boy,
was idly twirling the dial on his set
one night when he picked up an SOS
from a Norwegian whaling ship in icy
seas north of the Arctic Circle. He
relayed the sinking ship's position
to a ham in New Jersey, who notified
the U.S. Coast Guard. Within an
hour another whaler in the vicinity,
whose wireless operator had not heard
the original signal, was speeding to
the rescue. All hands were saved--
and a hero's medal went to Don Wherry.

Clamping on the headset, a ham some-
times becomes an earwitness to history.
A Chicago ham was talking to an Arch-
duke of Austria when the latter an-
nounced, "QRX (wait), I think I am
going to have a little trouble." He
broke off and did not resume the con-
versation. It was March 12, 1938, the
day Germany marched into Austria. But
hams rarely close down their rigs per-
manently. Today the Archduke is once
more on the air, this time as plain
Anton Habsburg of Am Mondsee, Austria.

Last March, just four hours after the
great earthquake struck the city of
Agadir in Morocco, Earl Harrison of
Paducah, Ky., was getting the on-the-
scene story. Bill Wright, a ham at a
U.S. Navy base near Agadir, had im-
mediately rushed his radio equipment
to the stricken city, realizing that
regular communications channels would
be broken. By moving the location of
his rig, Wright broke government regu-
lations, but he was reassured by a
message from Crown Prince of Morocco,
himself a ham. "If you lose your li-
cense," said the Prince, "you can use
mine." It was largely because of

Wright's reporting that help reached Agadir so quickly!

Anyone can become a ham radio operator. (For information write to the American Radio Relay League, West Hartford, Conn.) A basic "rig--receiver, transmitter and antenna--sells for as little as \$50 in a do-it-yourself kit all the way up to \$50,000. The average rig runs about \$150 in secondhand gear purchased from a mail-order house or a local radio shop. If you want to send by voice (about half the hams do) it will cost more--\$250 is average. No amateur rig may use more than one kilowatt, or 1000 watts, of power. (The average one uses about 200 watts to establish contact anywhere in the world.)

To get a license, every U.S. ham must pass Federal Communications Commission tests requiring a knowledge of the regulations and the ability to send and receive International Morse Code. The Novice Class license requires only a five-words-per-minute code test, the Extra Class license test is so difficult that some commercial radio operators have failed it.

Now, a new horizon has opened up for amateur radio operators--space! Last March two teen-age hams, Raphael Soffer and Perry Klein, using homemade equipment, scooped the experts by establishing two-way communication through radio signals bounced off a man-made satellite. With the launching of the U.S. Echo I satellite last August--sent into orbit for this very purpose--the technique is now almost routine. On July 17, a group of hams in San Carlos, Calif., talked to another group of hams in Medfield, Mass., by bouncing signals off the moon--the signals traveling 478,000 miles.

But the great adventure is still in person-to-person contact. It is this that keeps hams everywhere poking out into the far and little-known corners of the world. Day and night the signals rattle out: "Calling CQ," "Calling CQ," which is ham lingo for, "Does anybody, anywhere, feel like talking--about anything?"

HIGHLITES OF DIRECTORS MEETING, DECEMBER 12

A request was received from K3BRJ, Jack Chamberlin, to be placed on the retired list, due to his work. This request was granted. Make the change in your membership book.

W2EIF, Jo, announced that he had the new Callbook and was turning the old one over to Grandpop Bill to raffie off. But a request was made by Mother Rat that she be permitted to have it as she is requested to send out quite a bit of mail to non-members who's addresses she does not have. This request was granted. The rotation of the Callbook will now go from Jo to Mother Rat and then raffled-off.

A request was made by W2EIF, Jo, that

Mother Rat advise the Callbook people of change of address of the members, thereby getting to them quicker than the regular channels. This is being done.

HIGHLITES OF REGULAR MEETING DECEMBER 19

Happy Birthday to: K3BPP, Walt; K3EPB, Howard; K3EOD, Al; W3GEW, Sid; W3NSI, Lyn and W3CLQ, Walt;

We were surprised and happy to see K3BPP, Walt, home on Christmas Vacation from Fort Wayne, Indiana.

Also happy to welcome W3ASD, Karl. He is looking very well and feeling chipper as ever.

Pack Rat Pins were distributed to the following new members; WA2QCQ, Don; K3IGX, Dick; K3NMM, Len; K3LOM, Harry and K3OBY, Jim.

W2EIF, Jo, announced that so far 10 Pack Rat Certificates have been sent out or presented in person.

W3CL, Harry, Membership Chairman, presented the request of K3BRJ, Jack, for the retired list, which the members approved. He also presented the application for membership of W3GLI, George Reid which was voted in the affirmative. George also received his Pack Rat Pin.

K3GAS, Doc, and the membership gave a rising vote of thanks to K3RCV, Jack, for the "Check-off Sheets" he made for the VHF SS.

Our speakers of the evening, W2EIF, Jo; W3KKN, Ernie; W3SAO, Frankie; W3IBH, Charlie; K3IUV, Ben; W3CL, Harry and K3GAS spoke on "Operational Procedures for the VHF SS."

TIME FOR A MILLION !!

MEETING NOTICES

JANUARY 9 DIRECTORS MEETING

The Directors Meeting will held at the QTH of W3AJF, Horace Deacon, 3019 Midvale Avenue, Phila., on Wednesday, January 9 at 8:00 P.M. If for any reason you are unable to attend please call; 215-VI. 3-1808

JANUARY 16 REGULAR MEETING

The regular meeting of the club will be held on Wednesday, January 16 at 8:00 P.M. at the West Oak Lane Jewish Community Center, Sedgwick and Thouron Sts., Mt. Airy, Phila., Pa.

The speaker will be YOU, and topic, "Crying Towel"

W3GLI, GEORGE REID, XYL, ELSIE
20 Cypress Lane
Berwyn, Penna. - 215- NI. 4-0187