

PACK RATS' CHEESE BITS



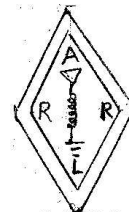
MT. AIRY V.H.F. RADIO CLUB, INC., PHILA., PA.
(50.2, 145.2, 221.4, 432.3 & 1296.3 Mc.)

CLUB CALL: W3CCX

AFFILIATED CLUB: AMERICAN RADIO RELAY LEAGUE

MEMBER CLUB: DELAWARE VALLEY COUNCIL OF AMATEUR RADIO CLUBS

MEETING NOTICES: LAST PAGE



VOLUME X

SEPTEMBER 1967

Number 6



OUR PRES SEZ

Well, gang, another month has rolled around and it seems I just got finished writing the first column as Pres of the group. At this writing just a few days after the annual picnic (see the report elsewhere in this issue) it seems also that the summer is just about over. It's not really, but for those projects in the outdoors which require a bit of planning and gathering of materials sand labor, it is! Now is the time to fix that rotor or to hang that eight elements for six, not November or December.

Don't want to duplicate any of the reports on the picnic, but a few words might be in order: I was very pleased to see the excellent help and assistance which the fellows gave at the picnic, and many thanks to the group which aided in the games, for they were guests and not club members. Also, I think the club has a real gem in the person of Mike, K3QOS, who comes through every year to run the games and contests for kids of all ages. Please keep up the good work, Mike, those kids really love you.

Some of the gang may have noticed the slight foul-up which occurred during the start of the prize drawing. I announced we would draw three female teenagers first, and at the very first number

, up steps a by. Very confidently, I told Doc that someone must have made an error in that chap's name, probably couldn't read the writing or something and so Doc pulled another number. Oh yeh, he sez, how about this one -- Bob! And the next George! Some group of girls!! Also, during the process, it was necessary several times to move some of the small fry back in order to have more breathing room, and twice I tried to move the kid out of the pavilion that was drawing the tickets. Oh well -- the weather wasn't so good either, and the only bright spot was that we had a fine crowd and most folks seemed to enjoy themselves in spite of the weather.

Please note that the paper has a slightly different format, and that K3JJZ, El, is now serving as head of the editorial board, and is looking for articles from the members. Don't be bashful, fellas, cook something up. Give it a whirl. You don't have to be perfect. If you desire, the board will be pleased to give an assist and clean up everything you write. Write a letter to the editor and criticize something, give an opinion, tell us what you have worked on, or write a ten page article on that new rig. All contributions from members have priority.

One last word, the September QSO party is a good place and time to sharpen up your skill and try out the new lash-up for the big blow in January. Why not give it a whirl?

73 for now and see you at the meeting.

W3LHF, Dave

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ALL INFORMATION SHOULD BE SENT TO:

Elliott T. Weisman, K3JUZ
8533 ALGON AVENUE
PHILADELPHIA, PENNSYLVANIA 19152
215- PI 2-3525

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PHILADELPHIA, PA 19141
215- DA 4-7524

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215 - ME5-1078

AWARDS CHAIRMAN:

W2EIF, JOSEPH KILGORE
#5 SUNNYBROOK COURT
STRATFORD, N.J.

DIRECTOR'S MEETINGS ARE HELD ON THE SECOND WEDNESDAY OF EACH MONTH AT DESIGNATED LOCATIONS

CODE PRACTICE:

7:30 to 7:30 PM. MONDAY THROUGH FRIDAY, 50.2 MC. BY W3CL, HARRY STEIN

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.

OFFICERS -- 1967-1968:

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* * * * *

PHILADELPHIA COUNTY ARPSC:

E.C.: W3PST, WOODY HALDEMAN
1732 LONEY STREET
PHILADELPHIA, PA. 19111
215 - RA.5-1106

MEETINGS: FOURTH WEDNESDAY OF EACH MONTH AT 8:00 P.M

NR 127, August 3, 1967

The ARRL QSO Bureau aids delivery of QSL cards from other parts of the world to amateurs in Canada, the United States, its possessions, and Puerto Rico. Amateurs expecting QSL cards from DX stations should be sure to have stamped, self-addressed envelopes, approximately four and a quarter by nine and a half inches, on file with the appropriate call area QSL Bureau. See pages 86 and 154 of June QST for bureau address and further information AR

NR 128, August 10, 1967

In early 1966, FCC proposed a Part 17 rules amendment tightening controls on tower heights which, if applied to radio amateurs, would place a difficult burden on the applicant. We are pleased to announce at this time, however, responsive to filings by the American Radio Relay League and others (note May 1966 QST, pg. 19) that the objectionable section of the proposal has been dropped. Further details will appear in October QST AR

* * * * *

PACK RATS TRIP TO ARRL HDQ on Sept. 16. A bus will leave N.E. Airport for ARRL Hdq., Newington, Connecticut. Be on it if you don't want to miss the fun. We have our choice of a 41 or 49 passenger, air-conditioned bus. When available space is gone, that's it. Price \$12.50 per person which includes dinner in Connecticut and the bus ride. First come - first served. Deposits are now being accepted by W3CL and WA3BIV. The bus will leave the airport at 7:00 a.m., arrive in Newington about noon. We will leave Newington at 8:00 p.m. Nuff said. Get up the loot if you're going.

For reservations, contact either:

W3CL, Harry Stein
2087 Parkdale Avenue
Glenside, Pennsylvania 19038
215 - TU 5-5052

or

WA3BIV, Carl Barrish
7949 Thouron Avenue
Philadelphia, Pennsylvania 19150
215 - LI 9-6486

or
LI 9-8765

* * * * *

CLUB MEMBERS, From Siran, APR. 19667

A lot of members are like wheel-barrows not good unless pushed.
Some are like canoes they need to be pushed.
Some are like kittens more contented when petted.
A few like footballs which way will they bounce next?
A few like balloons full of wind and ready to blow up.
Some are like trailers they have to be pulled.
Some are like lights they keep going on and off.
Many, thank God are like the North Star there when you need them, dependable and loyal, and a guide to all.

PACK RATS 12th ANNUAL PICNIC AND FAMILY DAY

By Mother Rat

"It's such a pretty world today,
look at the Sunshine."

The sun was shining somewhere, but not in Flourtown, Pennsylvania on Sunday, August 13. It wasn't raining either, just 'spritzing' every so often, but that didn't dampen the spirits of the 370 brave souls present, including the contingent from Connecticut.

Two brave souls joining with us were our host and hostess, Bill and Fran Bultman for the June QSO party, and to make the trip worthwhile, they both won door prizes.

Among the brave souls present were the following ARRL Representatives: W3YA, Gil Crossley, Second Vice President and Director, Atlantic Division; W3ELI, George Van Dyke, Jr., SCM, E. Pa.; W3PST, Woody Haldeman, E.C. Philadelphia County, ARPSC and Radio Officer RACES.

We are most grateful to the following contributors for their generosity in helping to make a cool, damp, drizzly day a happy one:

A. G. Radio Parts Co., Elkins Park, PA.	Almo Radio Co., Philadelphia, Pa.
Barry Electronics New York, New York	Doc Cutler, K3GAS
Fine's Grocery Philadelphia, PA.	Gimbels Club Women's Center Philadelphia, PA.
"Ham" Buerger's" Jenkintown, Pa.	Hanscom Philadelphia, Pa.
Heath Company Benton Harbor, Michigan	Herman's S os Philadelphia, Pa.
Ernie Kenas W3KKN	Walt Randerson K3KUB
Master Mobile Mounts Los Angeles, Calif.	National radio Company Melrose, Mass.
Phila. Savings Fund Society Philadelphia, Pa.	Radio Corporation of America Harrison, N. J.
Radio Electric Service Co, of Penna. Philadelphia, Pa.	Radio Publications, Inc. Wilton, Conn.
Tasty Baking Co. Philadelphia, Pa.	Tepabco Gallatin, Tenn.
Trevoze Electronics Trevoze, Pa.	United Transformer Co. New York, N. Y.
Whippany Laboratories, Inc. Westwood, N. J.	F. W. Woolworth Co, Philadelphia, Pa.

We wish to thank the Representatives of the following organizations for adding to the festivities:

South Jersey Radio Association	Penn Wireless Radio Club
Phil-Mont Mobile Radio Club	North Penn Amateur Radio Club
Philadelphia County ARPSC	Delaware Valley Chapter of QCWA
Mobile Sixers	Central Jersey VHF
Central High School Radio Club	Germantown High School 807 Club
Germantown Radio Club	Penn-Jersey YL Club
Delaware Valley Radio Club	National Award Hunters Club
Windjammers	Lehigh Valley Amateur Radio Club
Villanova University Radio Club	West Jersey Radio Club
Penn State Amateur Radio Club	Penn-Jersey VHF
Ottumwa Radio Club	William Penn R.C,
Drexel Electronics Society	Edison Radio Club, New Jersey
Union County Amateur Radio Club, N.J.	Tri-County Radio, New Jersey
Young Ladies Radio League	

After the crowd dispersed, and the "clean-up" squad took over, we came upon a child's red sweater with the name "Gervase: sewn inside. It's a hand-knit sweater. If anyone knows to whom it belongs, please have them contact Frankie or me, at 215-DA 4-7524.

After 12 years of chairmanship, Frankie and I are retiring and want to take this opportunity to wish all success to the new Chairman and his committee. We also wish to express our sincere thanks to all who so willingly helped us through the years to make the affair pleasant for all in attendance.

73 and 88,

Frankie and Mother Rat

It is with regret that we announce the passing of SIRAN (South India's Radio Amateur's Newsreel) edited by VU2GZ, C. V. Sulu, Bangalore Amateur Radio Club, Bangalore, India. It died a horrible death from lack of contributions, as have a number of other publications. One in particular is BANDSPREAD from Cedar Rapids Radio Club, Cedar Rapids, Iowa, edited very capably by W0IRQ, Bob Moyer.

Moral: SUPPORT YOUR EDITOR AND PAPER.

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AUTO BLAST CAUSED BY TWO WAY RADIO

From "The Bison", Mishawaka, Indiana
Submitted by: "Mother Rat"

"South Bend Indiana: A gasoline fumes explosion that injured James Marchelewicz, who is chief photographer for WNDU-TV, apparently caused by the car's two-ray radio transmitter.

"James that he had noticed the gasoline smell for several weeks. He said he had just activated the car's radio when the blast from the trunk blew a rear panel from under the rear window and a flash fire inside the auto caused an estimated \$1,000 damage. The car was owned by WDTI-TV station. Marchelewicz was treated at St. Joseph's Hospital for minor neck and facial burns".

WARNING: Check for leaks in gas tank or fuel lines as soon as you smell fumes.
Don't wait for it to blow up in your face. You may not be as fortunate.

SWITCH TO SAFETY.

* * * * *

F.C.C. REPORTS

From A.R.N.S Bulletin, 6/67

DO IT YOURSELF

A call from one of the more remote sections of District 3, Philadelphia, prompted the Engineer-in-Charge to provide a quick "do it yourself" training course over the telephone, since inspecting engineers had no trips scheduled to that part of the district.

The caller said there was severe intermittent interference to AM table, portable and car radios in the area. He was told to carry a portable AM radio and walk near anything he thought capable of emitting an electrical signal; if the interference grew louder as he got closer, he was getting close to the source.

So effective were the Engineer's instructions that the complainant found the interference four doors from his home, in front of a neighbor's tropical fish oven, which had a defective thermostat.

* * * * *

K.U.I

By W3HKZ, Ed Kushner

Antenna size vs. Gain

Some manufacturers rate antenna gain to a fixed reference dipole. Most now rate their antennas with a mathematical reference known as an isotropic source. Regardless of basic rating, a single stack antenna has an established gain and it will produce a starting-point signal level. From that starting point, the user can expect to net an additional 2.5 to 3 db gain each time the size of the total array is doubled.

Antenna Height vs. Gain

In locations where the receiving site is on relatively flat terrain, it is possible to achieve increased signal pickup by raising the antenna. Tests made by the National Bureau of Standards indicate that the height/gain relationship varies greatly from area to area, dependent to some extent upon ground conductivity in the region. N.B.S. suggests that if you begin with an antenna height of 30' and increase the height to 60' you should realize a 3 db gain. Although it may be substantially more, as much as 5 db in some cases; doubling the height again will raise the signal level by another 3 db, and so on. However, as the antenna height is raised beyond 200', the amounts of increase tend to fall off and is offset to some extent by the increased transmission line loss so that eventually you reach a point where transmission line loss exceeds antenna gain, and the resulting signal delivered to the receiver actually goes down as the antenna goes up.

By W3LHF, David Zimmerman

In keeping with the new look in the Club paper, here is the first rejuvenation of one of the old features that we had a few years back. Don't know how many read it for I never did get too much comment, and nobody squawked very much when I quit writing due to the pressure of many other things.

Since writing the last column, I have moved up to a bit more power (500 watts) and a bit more antenna (32 el quad) and on occasion, I have been accused of blasting a hole in the band. A point to be noted here though, is that I work very little that I haven't worked before, and in most cases, I cannot hear one more station than the other fellows in the area who have more modest antennas such as six or eight element yagi. Don't feel that you must have a big pile of iron to have fun on two. It's not true - a gooney box with a halo will work 75% of the stations I talk to, and add an eight element to it and you will work 95% of the stuff I do. Give two a whirl and I'm sure you will be pleased with the many fine contacts available.

Haven't caught any good band openings lately on the band, but two weeks ago on the first three days of August, I worked Mass., N.H., and Maine on CW on each night; Thursday was an off night and on Friday, I worked Maine on AM. Stations to look for in Mass. are W1DLM, W1JDF, W1KSI and W1AZK. In New Hampshire, look for W1MTVV W1BXM and W1DUB. Maine is represented most consistently these days by W1YTW in Kittery, W1DSO in Cape Elizabeth and K1UGQ just south of Portland.

Had a nice chat the other night with W3RUE in Pittsburgh on CW and he looks around for contacts most nights. Check your receiving gear on W8KAY in Akron, Ohio, who still maintains skeds nightly at 2200 standard time, frequency 144.303. Not many skeds around that have been running as long as this one! Someday I'm going to work Art, W8KAY, for I've been calling him for about four years off and on and hearing him for about six years!!!

This column will be a lot more informative if I could get a few reports from the gang. I just don't have enough time or enough luck to hear everything that's going. Pass the word on net time on two and to anyone interested, I can give a modulation check with the scope on my receiver.

73 for now and cu on 2

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From "Notes from the West": by Larry, WA2SDF/6

"Harmonics" - S.J.R.A. - July 1967

W3MFY and crew ... After reading the VHF SS results, I was proud to note we maintained second place. I was sad to find not one remark, pro or con, about club competition. It seems the editors of QST are not concerned about bolstering enthusiasm for club activity. I would like to take a little Harmonics space right here and say that the Pack Rats did a terrific job. Their total club effort demonstrated the spirit of competition which is necessary to make Amateur Radio grow. You may not be a contest operator, but appreciate the fact that without competition we would not progress. We would not be excited about going to the moon, or winning the Olympics, or building smaller, more sophisticated electronic devices if we did not have another country or company trying to do the same thing. Thank you, Pack Rats for promoting our hobby.

Thank you, Larry, for the bouquet, the Pack rats.

* * * * *

Getting on 6 Meter SSB the Easy Way

By K3GAS, Doc Cutler

After being on double sideband with a HB rig for a long while, it was decided to go SSB at a reasonable cost. Sideband appears to be the future mode of amateur communication because of its ability to penetrate better than an AM rig of the same power. It also provides a narrower signal space so more transmissions can be carried out than if the same space were occupied by AM.

It was decided that to keep the cost down, an exciter would be bought and a mixer unit built. Accordingly, I purchased a Heathkit HW 32A, which is a 14 mc. transceiver with 200 watts P.E.P. This was a good basic start because the 14 mc can be mixed with readily available 36 mc. crystals to produce 50 mc. The unit was built and functioned perfectly (after finding that the tuning condenser was grounded and changing two long bolts for shorter ones).

After culling through many publications, the mixer unit decided on was that printed in QST, August 1965, by William Deane, W6RET. Construction proceeded smoothly and

the unit finally finished. The problem now concerned itself with how to reduce the output of the HW 32A to a maximum 15 watt level. Many weeks were spent and much advice was sought before the solution suddenly dawned. The final tubes of the exciter had 800 volts on the plates. I wondered what would happen if I used the available 250 volts that supplied the other B plus portions. It was worth a try. The 800 volts was lifted and a jumper brought in the 250 volts. With much trepidation, the exciter was turned on and the transmitter tuned up per directions. Instead of adjusting the final tubes grid bias to 3 on the meter, it was adjusted to 2.5. This did the trick. The two units were hooked together with coax and the mixer unit adjusted and we were in business on 6 meter S.S.B. with VFO control. The converter was built and because the mixer oscillator will also be the converter oscillator, we expect a perfect transceive operation. The final tube in the mixer unit is a 2E26, with more bias voltage, a 6146 can be used. This is what I will be doing. Listen in every Sunday morning at 11 with your beam pointing to Brooklyn and at a frequency of 50.115 you will hear WA2CVF, net control, and about 45 other stations. You may even hear mine.

* * * * *

VELOCITY DIVERSITY

By WA3BIV, Carl Barrish

"Let's see", I thought, "who is on tonight". I'll listen on 75. Pick 3.597 seems like a good frequency. Now to turn the scanner on. Pretty busy tonight. I wonder if I could modify this receiver for motorized tuning. This new Electro-radiator sure beats the old Electrocraft radiators. With the Electrocraft you get QRMed because you hear everyone on the frequency, but with this jewel you can hear only in the desired direction and distance. The principle is not simple though.

"As you know, velocity is q function of speed and direction. The Electroradiator utilizes this in both receiving and transmitting an RF signal. The Electroradiator is similar to the Electrocraft in the respect that it used the zero impedance line but the configuration of this line causes an infinite degree of directivity. This is so sharp that it will not receive the complete waveform of a signal. By increasing the impedance of the line minutely the bandwidth is expanded to a point where the signal is completely received. This also reduces the need for extra selective receivers. In increasing the impedance the antenna no longer receives all signals on the frequency in the direction in which it is pointed, but just signals within the capture area determined by the amount of impedance in the line. This does not completely eliminate the need for a selective receiver but makes the need for one less important for everyday amateur operations. Of course in a contest the selective receiver is a must. The disadvantage of the Electroradiator is in the speed factor. In the past, with the Electrocraft, the speed of the signal was infinitely fast. The time for a signal to reach earth from Alpha Centauri was the same as from Earth Moon. With the Electroradiator, as you increase the impedance you also increase the time of travel of a signal. Unfortunately this is a higher geometrical progression than that of distance or beamwidth. For instance, as you add 10⁻³⁰ ohms of impedance to the Electroradiator, the beamwidth would be sufficient for a SSB signal, the distance sufficient for a QSO with a person on a world about 40 or so billion light years away, but the time for the signal to reach earth would be approximately 11 minutes. That means the one QSO would take all night! This is the subject of the December meeting of the Pack Rats. It seems that someone has come up with the modification that will decrease this time. Since the January contest is nearing, we want everyone to have this information in time to utilize it for the contest. After that we will be happy to donate the information to the other interested amateurs."

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FOUNDERS WEEK

From Amateur Radio News

The week of September 3-9, 1967, has been designated by the Board of Directors (of the ARRL) as Founder's Week -- marking the Anniversary of the birth of Hiram Percy Maxim, first ARRL President and one of the founders of our organization more than half a century ago.

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RADIO FREE EUROPE IN REVERSE

ILLICIT RADIO JAZZGROWS IN RUSSIA (FROM THE Philadelphia Inquirer, August 10, 1967) Illegal radio stations have sprung up in South Russia and are interfering with regular radio communications. The newspaper, The Baku Worker, said Wednesday the stations with names like "The Black Cat", "The Flying Skeleton" and "The Parasite" were run by amateur radio broadcasters with unregistered equipment.

SWAP SHOP

Conducted by:
W3ZRR, Ray Whitehead
4534 N. Smedley St.
Philadelphia, PA 19140
215-DA. 4-5910

FOR SALE:

Gonset Communicator II (2 Meter)
Hallicrafters S-38
Superior Tube Tester, Model 85
Philco 5" High Gain Osc. Model 58202
Hammurlund Hq-129-X and SPKR
Heath RF Sig Generator
Heath VTVM
Astatic Mike, Model 151
Multi-meter BTM
Eimac Portable Meter, Model A54H
AMT Relay System
HB Field STGTH Meter
2 Meter Mobile Whip
Small AMP
Hallicrafter, Model S-53
Contact: Mrs. Wilson
4701 Overland Road
Cornwells Heights, Pa.
SK 7-4695

FOR SALE:

Harvey Wells TBS 50-D Transmitter
80-2 with power supply, \$35.00
2-Meter HB Transmitter with modulator
and power supply, 6246 modulated by
pair of 807's, \$45.00
Contact: Ray Whitehead, W3ZRR
4934 Smedley Street
Philadelphia, PA 19140
DA 3-5910

FOR SALE:

Heathkit SSB Transceiver HW-22, with
Power supply, mPTT mike, 100 KC calibr.,
and connecting cables, #75.00
NC 98 receiver with matching SPKR, \$55
Gonset 6 band converter, operates on
12 volts, no HV needed, \$20.00
Heathkit Mohican Transistorized Rcvr.,
OC1-A, \$70.00
All new or in excellent condition.
Contact: After 9/6/67
Lyn Rowland, Jr., W3NSI
1822 Dallas St.
Philadelphia, PA 19126
HA 4-0875

FOR SALE:

Homebrew 6 m XMTR., 20 watt input, 2E26
Finjal built in power supply and plate
Modulator (2 6V6's), built in antenna
Relay AND
Lafayette model HE 89 6&2 M VFO pur-
chased new in 1965, lists at \$29.95
Both \$40.00
6 Meter 8 element Hygain Yagi, 18' boom,
12.1 DB g, \$12.00
Contact: Bill Ballantine, K3FMQ
506 Simms St.
Philadelphia, PA 19116
OR 3-8375

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FOUND AT THE QTH OF W3MFY, Pres, after
The last Pack Rats meeting were the
Following:

- 1 - Zippo cigarette lighter
- 1 /2 pack of Raleigh cigarettes with
coupon intact.
- 1 - Pack Rat pin with WA2JNA engraved
on it
- 1 - White ball point pen (found in
the ice tub and it still writes)

MEMBERSHIP

Silent Key

Donald Gillmore, WA2QCQ
1433 Parkview Terrace
Hillside, N. J. 07205
On August 8, 1967

Resigned

Joseph Salamon, W3MXW
56 Fahnstock Road
Malvern, Penna.

New Member

Howard Nevitt, WA3FAA, XYL Ruth
440 Central Avenue
North Hills, Penna. 19038
TU 7-6957

Applied for Membership

Elwood Haldeman, W3PST
Sponsored by W3ELI and W3CL

Change of Address

Alan Rubin, K3AUH
171 W. Walnut Drive
Philadelphia, Penna. 19120

* * * * *

MEETINGS

September 13 the Directors Meeting will
be held at the QTH of W3HKZ, Ed Kushner
2212 Oakwyn Road, Lafayette Hills, Pa.

September 20, the next regular meeting
Will be held at the QTH of W3LHF, Dave
Zimmerman, 520 Centennial Road, Warminster,
Pa.

Program: Auction and good
Gear only, no white elephants.
Auction fee 10% of selling
Price. Bring chairs.

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DID YOU KNOW

That on September 24, the SJRA annual
Hamfest will be held at Molia Farms,
Malaga, New Jersey, Swap Shop, Trans-
mitter hunts and prizes. Rain date
October 1.

That the week of October 23 has been
tentatively set for Civil Defense Week.
It is expected that the Emergency Operating
Centers will be open, like an open house.
It is also expected that radio operators
will handle some traffic, so please standby
for further info. Send all inquiries and
comments to E. W. Haldeman, W3PST, Radio
Officer /EC, c/o Philadelphia Civil Defense
Council, Fox Chase School, Ridgeway and
Rhawn Sts., Philadelphia, Pa. 19111.

That the York County Hamfest will be
Sunday September 3, rain or shine at
Adams County Fair Grounds, Abbottstown
Pennsylvania (tale Route 30 from York,
Pennsylvania). Registration - \$2.00
XYL's and Harmonics free (9:00 a.m.).
Talk-ins - 52.525 mHz and 146.94 mHz FM
50.62 mHz and 145.62 mHz AM

That W3GEW Sid Weiner is in Temple Univ.
Hosp., Room 728. No phone calls or
visitors yet. Send cards.

That W3HIX, John Specialny was in and out of
the hospital.

PACK RATS CHEESE BITS
8533 ALGON AVE
PHILA. PA.
19152



MEETING NOTICE

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