

PACK RATS'

CHEESE BITS



PACK RATS

CLUB CALL: W3CCX

MT. AIRY VHF RADIO CLUB, INC.

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

AFFILIATED CLUB: AMERICAN RADIO RELAY LEAGUE

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

VOLUME IV

SEPTEMBER 1970

NUMBER 9

OUR PREZ SEZ

Well another great Pack Rat picnic has come and gone. This time the weatherman really held off. It is now 19:30 and it still hasn't rained. Will wonders never cease.

A special thanks to W3ZD, Dave Zimmerman, W3CL, Harry Stein, and their committee for a truly outstanding job. Thanks to K3GAS, Doc Cutler, who assembled the kiddie bags and took charge of registration; K3MXM, Lee Cohen, and K3HSS, Charley Lustick, who arranged for the soda; WB2SZK, Randy Bynum, who got the ice; W3SAO, Frank'se Brick and K3IGX, Dick Boyle, who took care of installing the signs en route; K3DLS, Carl Croce, WA3HIT, Paul Rilling, WA3NFV, Dan Mitten, and K3DMA, Jack Taylor, who handled the talk in frequencies; and last but not least, a special thanks to Arnold Cohen, harmonic of K3MXM, Lee Cohen, and Mark Zimmerman, harmonic of W3ZD, Dave Zimmerman, for serving as game helpers and judges. The peanut scramble was brought to you courtesy of W3KKN, Ernie Kenas.

There are many others too numerous to mention such as those who served on the registration crew, and those who stayed around as clean-up crew.

Elsewhere in this issue are listed those who contributed prizes for the drawing. These are the people who have supported our picnic. Please support them. Save this list for future reference. When you need something, make sure your patronage helps those who helped the Pack Rats.

73,
K3JJZ, E1

DEADLINE FOR ARTICLES IS THE GENERAL MEMBERSHIP MEETING.

EDITOR:

K3JJZ, ELLIOTT WEISMAN
8533 ALGON AVENUE
PHILADELPHIA, PA. 19152
215 - PI 2-3525

TRUSTEE OF CLUB CALL: W3CCX

W3SAO, FRANCIS BRICK
821 W. LINDLEY AVENUE
PHILADELPHIA, PA. 19141
215 - DA 4-7524

PUBLISHER AND SUBSCRIPTION MANAGER:

K3GAS, DOC CUTLER
7815 NEW SECOND STREET
PHILADELPHIA, PA. 19117
215 - ME 5-1078

PRINTER:

WA2K01, LLOYD SCHOENIG
207 WOODLAWN AVENUE
COLLINGS LAKE, N. J. 08094

AWARDS CHAIRMAN:

W2EIF, JOSEPH KILGORE
#5 SUNNYBROOK COURT
STRATFORD, N. J. 08084

DIRECTORS' MEETINGS ARE HELD ON THE SECOND WEDNESDAY OF EACH MONTH AT DESIGNATED LOCATIONS.

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 - 1970-1971:

PRESIDENT: K3JJZ, ELLIOTT WEISMAN
VICE-PRES.: W3CJU, DONALD HAMPTON
TREASURER: K3GAS, DOC CUTLER
CORRES.SEC.: W3SAO, FRANCIS BRICK
REC. SEC.: WA3BIV, CARL BARISH

DIRECTORS:

K3KTY, JOHN TATE
K3MXM, LEE COHEN
WA3LNH, CHARLES BENAVIDES
K3UJD, MARIO FONTANA
K3BPP, WALTER BOHLMAN
K3CIV, RALPH HERSH
(Ex-Officio)

PACK RATS' CHEESE BITS is a publication of the Mt. Airy V.H.F. Radio Club, Inc., Philadelphia, Pa., and is published monthly.

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We operate on an exchange basis with other publications and anything that is printed in CHEESE BITS may be reprinted, unless so stated, as long as the proper credit is given.

Join the Packrat Society



UNLITTER AMERICA!

Join the movement against outdoor spoilers. Good Packrats pick up a stray beer can ... or piece of paper ... no matter who left it there.

Submitted by
K3HKZ, Ed Kushner

Teacher: "Now children, I want you to be so quiet that you can hear a pin drop."

After a silence that seemed like an eternity a small boy in the corner shouted, "OK, let'er drop."

The Ham Monitor

THE AVALON STORY

Shortly after the June 1970 V.H.F. Contest, Allen Katz, K2UYH, of the East Coast V.H.F. Society, suggested to Bert Soltoff, K3IUV, of the Mt. Airy V.H.F. Club, that the two clubs combine efforts for a 1296 expedition. The idea was that the East Coast group would be responsible for one end of the link and the Pack Rats would man and assemble the other. A meeting was held with many interested personnel of both clubs present. At the meeting it was decided that the first trial run would be made from Avalon, New Jersey to Fire Island, New York Long Island. The two points are approximately 175 airline miles apart.

The expedition was first planned for Saturday, August 15, but was later changed to Sunday, August 16. The following is an account of the Pack Rat portion of the expedition.

The Avalon location was chosen because W2EIF, Jo Kilgore, of the Pack Rats has a summer cottage on the inland waterway with a relatively clear shot toward Long Island.

Preparations for the expedition were in the capable hands of K3UJD, "atsa spicy meat ball Mario" transmitter expert; K3BPP, "Walt" the V.H.F. antenna and dish expert; K3IUV, "Bert" the converter, receiver, transmitter and cw keying expert; WA3NFV, "Dan" meter reader, tower climber, dish rotator, garter collector, and strong arm man; W3CJU, "Don" (our illustrious Vice President) who supplied transportation, map reading, somewhat meager control of WA3NFV, and loud snores during the sleeping hours.

W2EIF took off for Avalon at noon on Saturday, August 15, with the usual tools, aluminum ladder, clothes, sheets, beer, food, etc., arrived at cottage about 1:30 p.m., opened up the house, windows, turned on water and found refrigerator not working. Called service man - machine fixed two hours and fifty bucks later. Meanwhile K3UJD, Mario, pulled in with his wife Floss. She immediately took over and prepared a nice supper. Floss spent time practicing her golf swing by cutting down weeds in the yard. About 9:30 p.m. (very dark), W3CJU, Don pulled up in his station wagon. K3BPP, Walt and WA3NFV, Dan were with him. On the roof were two ten foot lengths of tower and a six foot aluminum dish. Nothing would do but get everything going immediately. (The mosquitos had gone over to Wildwood where targets were more plentiful.) Believe it or not everything was up and ready by 12:30 a.m., much to the consternation of local residents.

Having completed the set-up so quickly, everybody except W2EIF went over to Wildwood to "whoop it up". The gang returned at 4 a.m. with Dan carrying a ladies red garter. He claimed he removed it himself, but there is evidence that he bought it. After much discussion everybody got to sleep and were periodically awakened by Floss who was having a nightmare (she was reliving her experiences in Wildwood).

Everybody was up at 8 a.m., sleep or no sleep. There was breakfast for all and then got the 1296 gear all ready to go. Bert, K3IUV, arrived at 9:30 with wife and kids who hurried off to fish and swim. Jack, W2GQK, who lives about 75 yards away, came over and we went over to his house to make initial contact via Jack's 2 meter gear. No success at first with much help from W3ZD, Dave, and K2EFB, Guy from their home rigs. Finally at about 10:30 we heard WA2WEB/2 calling W3CCX/2 and Jack (W2GQK) went back and established contact.

THE AVALON STORY (Continued)

It didn't take long to get hooked up on 1296.1. We did have some trouble due to QRM. K2JNG, 100 miles north on the Pallisades was clobbering WA2WEB/2 something fierce.

WA2WEB/2 was using a 4 foot dish, 12-15 feet above the beach and 100 watts output at 1296.1. The signal strength was unbelievable with the "S" meter pinned most of the time. Bert was keying and the key came apart and the ball bearings in it rolled through the porch cracks into the sand. The neighbors were wondering what Floss and Dan were doing under the porch pawing the sand!

W3CXX/3 was our call and we were using a 6 foot dish at 25 feet with about 100 watts out of the transmitter. WA2WEB/2 also had a 12 foot dish, which they tried later. They still pinned the "S" meter with the power reduced to 30 watts. They used CW, and later tried NBFM with fine results. The two meter links were as follows. W2GQK/2 10 watts output, corroded coaxial feed line and a Cushcraft beam at 45 feet. The east coast boys had a Clegg 22'er and a 9 element beam at 12-15 feet. 2 meter signals were good around 10 a.m. but deteriorated and at times they disappeared into the noise but adequate contact could be maintained. Finally a complete link was performed with WA2WEB/2 transmitting NBFM. It was relayed to W2GQK/2 via CB and retransmitted back to WA2WEB/2 via 2 meters. The tests were a complete success although there are some who believe that we were just lucky and hit a "duct" or other very favorable conditions. The crew at the other end (WA2WEB/2) were K2LRE, K2JWE, WB2IRX, WA2ZZF, K2OVS, and K2RIW.

Both clubs are to be congratulated for the cooperative effort that produced such gratifying results on the 1296 MHz band. If it serves no purpose other than to excite interest and promote new and renewed effort to get on 1296, it will be reward enough for those who participated in the expedition.

W2EIF, Jo

JANUARY CONTEST

As you all know the January contest is about to come upon us before we know it.

This is the time to ask one's self what can I do to improve my score from last year. A good way to do this is to think back to last year and try to remember what bugged you the most. Make a list of these things and find out what can be done about it. These things might be more power, more bands, more sections, power line noise, cross modulation, etc. The boys with top scores have solved many of these problems. If you can't solve your problem, get help. CHEESE BITS will try to help solve some of the more common problems.

Getting ready for the contest is the best reason I can think of for improving one's station, if one needs a reason.

K3BPP, Walt Bohlman
Co-chairman of January Contest

SWAP SHOP

Conducted By: W3ZRR, Ray Whitehead
7329 Shelborne St.
Phila., Pa. 19111
215 - RA 2-4786

CONTACT: K3WEU, Paul R. Behrmann
5101 Wynnefield Avenue
Philadelphia, Pa. 19131
215 - 877-0562

FOR SALE

- Clegg Zeus with spare tubes
- Hallicrafter SX73 Receiver
- 6-2-220 Nuvisitor Converters mounted on rack panel with built in power supply
- 220 MC Xmtr - homebrew 5894 final
- 432 MC Xmtr - Motorola
- 432 MC Converter
- Comco 220 MC Xmtr-Receiver-Converted
- R-48 220 MC Receiver
- 3 section metal desk console - glass top
- 3 relay racks fit on top of desk
- Teletype equipment
- 2 Sony videotape recorders @ \$200
- RCA TV eye camera, lens, extra vidicon \$100
- Full darkroom equipment
- Tubes, parts, etc.

CONTACT: Jerry Polan
1714 Erlen Road
ME 5-4135
UNTIL SEPTEMBER 1

AFTER THAT DATE CONTACT
K3GAS, Doc Cutler
ME 5-1078

FOR SALE

- TX-62 - like new condition - and matching Ameco VFO (6-2-220 MC) \$125
- Ranger Viking II - 6 through 80 meters - AM and CW - self contained VFO \$75
- Johnson T-R Switch \$10

CONTACT: WA3CND, Howard Candy
4013 Benson Street
Philadelphia, Pa.
MA 4-6812

FOR SALE

- Ameco Nuvisitor Conv. 220 MC 50 MC I.F. \$20
- R-48 with Ameco NV preamp
- Homebrew Xmtr for 220 MC (from handbook)
- SB-200 with 2 good spare tubes
- Johnson KW matchbox
- SB 610

FOR SALE

- 6 meter homebrew Xmtr and modulator homebrew converter with power supply - Turner +2 mike-Arc 5 VFO all power supplies \$60
- 6 meter SSB Venus and Appollo - Heath HB10 power supply - Clegg, SSB Booster - Turner SSB mike \$425
- 6 and 2 meter transmitter, Heath Seneca with manual \$75
- Tape Machine TG 10 with box of 14 tapes \$25
- 6 and 2 meter International converters and power supply built in rugged case 7-11 IF \$25
- 90 good tubes, includes 5-6146, 4-1625, 12AT7- 12AU7, 2E26, 6AL5, 6U8, 6BA7, 12AX7, 6BU8, 6GM6, etc. \$12
- Hallicrafter HT 40K transmitter 80 through 6 AM and CW \$25

CONTACT: K3GAS, Doc Cutler
ME 5-1078

FOR SALE OR TRADE

- one 2 meter phone/CW transmit 1000W input/built in modulator VFO input jack - built in power supply - ready to go on the air - home built
- MAKE OFFER - Must sell or trade - going to college

CONTACT: Howard Bacon
456 Abington Avenue
Glenside, Pa. 19038
884-8282

TRADE

- New Weinschel Model 50-1 Attenuators (Type N conn., calib. to .10B at DC, 1, 2, and 3 GHZ) and new Narda 370 NM, 50 OHM, 5 watt loads (VSWR 1.2 at 10 GHZ) for coaxial 2, 3, 5, 6, 10 and 20 DB attenuators

CONTACT: WA3NGK, Harry Brown
3012 Pot Shop Road
Norristown, Pa. 19401
584-4846

CALENDAR OF COMING EVENTS
Syllabus by Lee, K3MXM

SEPTEMBER

- 6 York County Ham Fest - Abbotstown, Pennsylvania
Ed. note - a good one to visit - big swapshop
- 9 Board of Directors Meeting - QTH of K3GAS, Doc Cutler, 7815
New Second Street, Elkins Park, Pa. at 8 p.m. Directors and
interested parties invited.
- 13 South Jersey Radio Club Hamfest - Molia Farms, Malaga, N. J.
Nice swapshop, big prizes, etc.
- Directions: Route 47 South (Delsea Drive) all the way through
Glassboro and Clayton and then look for the signs BEFORE the
road bends hard to the right. It is off to the right after
you cross the railroad tracks.
- 14 - 18 Amateur Radio Week in Pennsylvania - Big display and exhibit
at the McDade Mall in Glenolden, Pa. The three Armed Forces
Mars will have exhibits and operations. Teletype connections
direct to Washington. Traffic will be handled to servicemen
throughout the world. A fly-over is planned.

16 THE PACK RAT SUMMER AUCTION

Here is your chance to exchange the contents of your junk box
with your neighbor. Everyone is invited - ask other clubs to
come - talk it up on your VHF QSOs - the more the merrier.
This by far is one of the best and fun provoking meetings of
the year. Bring items to sell on commission. Refreshments
will be available.

QTH of W3ZD, Dave Zimmerman, 520 Centennial Road, Warminster, Pa.

Another bonus from the Pack Rats - CODE PRACTICE will start sometime
in September under the direction of WA3FOF, Ralph. Listen in on the
nets for more details.

OCTOBER

- 13 Board of Directors Meeting
- 28 First Indoor Meeting of the Fall Season. West Oak Lane Jewish
Community Center at 8 p.m. NOTE THE DATE CHANGE.
- SLOW SCAN TV - its applications, associated hardware and maybe
a demonstration by a group of project engineers from the GE
Space Labs at Valley Forge, Pa.

Coming events whose dates are yet unannounced:

The Hidden Transmitter Hunt and The Antenna Measuring Contest

A couple of Antenna Parties are in the making. Check out your
equipment before the ice and snow of November. Make your wants
known.

Continued on Page 7

CALENDAR OF COMING EVENTS (Continued)

Check into the AREC Net each and every Thursday Evening. WA3NVO or WA3FOF alternate as net controls.

Listen and check into the club nets every Monday evening for late announcements and changes.

9 months to go - 15th Anniversary Dinner - Buck Hotel - May 8, 1971

NEW PRODUCTS OF INTEREST TO HAMS
W3NSI, Lyn Rowland

- 1. Solar Battery #HSB 9 - Centralab Semiconductor Division

These units (also available in 4.5 and 6 volts) were originally designed by Hoffman, which was then bought out by Centralab. It would find use in small experimental receivers or even transmitters for low power use. Designed for use with the shirt pocket 6 or 8 transistor radios, they produce about 25 Ma. The 2" x 3" panel contains a number of silicon cells wired in series as required.

- 2. Slug Tuned Coil - 25 Turn #69100 H (\$3.75) - James Millen Company

Just the thing for VFO or receiver tuning. A 1/4" shaft is brought out one end instead of the normal slug adjustment. It requires 25 turns of this shaft to move the slug in or out of the coil. The shaft does not move in or out, just turns. Two models are available. The #69100 is for use in the BC band up to about 3 Mc. The "H" version is for use up to about 30 Mc. Coil form is 1/2" D with a winding length of 1 1/2".

- 3. Micro Soldering Iron #WMCP (\$26.50) - Weller Electric Company

A bit expensive, but very interesting just the same. It has a solid state closed loop control system that automatically controls output and temperature. The control box has a sponge recess used to keep the tip clean. It contains the isolation low voltage transformer and control switch, also the iron holder. Fixed tip temperature is 650°F.

HELP WANTED

Are you tired of looking at the same old pictures at the picnic? I am! That makes two of us both tired. One of us can do something about this matter. If you are one of the many who took pictures at the last picnic, please make an extra print of each and pass them along to me. This is the only way I can revise the boards.

I would also like to bring the Pack Rat QSL board up to date. Please bring your QSL card to any meeting and give it to me.

Thank you in advance for your cooperation.

73,
W3SAO, Frankie
The Little Old Sign Maker

ARRL BULLETINS

NR 281, July 16, 1970

Amateurs using the 50 MHz band are asked to look for OX5AP, Thule, Greenland, who is making five minute transmissions on the hour, from 2200 to 0200 GMT daily. These transmissions are on 50.15 and will continue through this year, except for the period of August 5 through 14. He will listen for 6 meter signals in the five minutes after each test. OX5AP is available for 14 MHz schedules between 2100 and 1100 GMT. Please report any reception or two way communication on 50 MHz to ARRL AR

NR 283, July 30, 1970

New fees adopted by FCC on July 1 apply to applications on or after August 1, 1970. New upgraded, renewed or modified and renewed amateur licenses are now nine dollars. Four dollars is charged for straight modification such as change of station location. Special callsigns under section 97.51 require an additional twenty five dollars. No fee for any Novice, military recreation station or Radio Amateur Civil Emergency Service authorization. August QST carries a brief announcement with details in the September issue. Meanwhile, ARRL, continuing its fight against fees, is preparing a formal request for reconsideration AR

NR 285, August 13, 1970

The ARRL Intruder Watch is now into its sixth year of operation, with an impressive record of reports leading to intruders being removed from the amateur bands. Additional work and constant vigilance are necessary. Volunteers, with two or three years amateur experience and good receiving equipment, who can spend two hours a week logging the calls of non amateur stations in the amateur bands would be welcomed. Volunteers please write the Intruder Watch, ARRL, 225 Main Street, Newington, Connecticut 06111 AR

W2HSE, HOT SHOT EDDIE
Submitted by W3WIJ, Tom Matthews

We were informed on Friday of the passing away of W2HSE, better known as "Hot Shot Eddie", Paul Scarpa of Newfield, New Jersey. Paul was one of the nicest hams that I have ever met. He was very active on 6M in the early days and was always ready to talk to anyone who happened to be on the air. He was one of those who was very helpful, especially if we ran into some difficulty with equipment. He will be missed by many of his ham friends. He was a member of the Mobile Sixers, the Glochester County Radio Club, and one of my best friends.

On July 22 the books of the Mt. Airy V.H.F. Radio Club, Inc. were audited by the undersigned and the Treasurer of the organization. A discrepancy of \$4.62 in the cash account was found.

Considering the complexity of the many cash transactions negotiated, such as silent acution, change-making, etc., it is recommended that this sum be written off the books.

Respectfully submitted,
W3CL, Harry B. Stein

APPROVED BY THE BOARD OF DIRECTORS AUGUST 12, 1970 - K3JJZ, E. T. Weisman

LOVE BLOOMS AT THE PACK RAT PICNIC

"That guy's gone!" Those were the words spoken by the Ivyland Kid, K3UJD, Mario Fontana to our Veep, W3CJU, Don Hampton. What was he talking about? He was talking about WB2SZK, Randy Bynum. "What do you mean, Mario?" was the Veep's reply.

- UJD - "You remember how Bob used to look at Diane before they got hitched?"
- CJU - "So."
- UJD - "So Randy's got that same stupid look on his face that Bob had. I tell you he's gone."

Well this was all your editor needed. I proceeded to try to find out what I could and sketchy as it may seem I'll report it to the best of my ability. The main reason the story is so sketchy is that everytime I got near them Randy would say "Don't say anything when that guy's around! Not a thing, do you hear.". Unfortunately, Della, being a typical female could not keep quiet very long. She made some remark about the hot dogs not being the right size for the rolls. This drove Randy into a tirade. "I told you not to talk when he's around. Now he's going to twist what you said and print it." Pretty Della replied, "Well what do you-all want me to do, use sign language?" There we have our first clue. This gal was not born and raised in New Jersey. I questioned Randy at great length and he made some comment about getting married in May. He said something else too but I didn't catch it. Anyhow, Della is from Florida and that's about all I was able to find out. Anytime I went near her Randy threw his arms around her. I guess protection is as good an excuse as any.

In the final analysis, we agree with Mario, "that guy is gone"!

K3JJZ, Your Snooping Editor

2 METER REPORT

Band conditions have been fair with activity somewhat down due to summer, vacations, etc. My schedule with W8DGF, Cleveland, is suspended until September 18. The Perseid Meteors were in, with the peak about August 12-13. The boys in the New York City area who were around in the early morning hours report contact into Iowa, Wisconsin, etc. The Perseids were a little disappointing with results not as good as in previous years.

W2EIF, Jo

MEETING DATES FOR THE COMING YEAR

- | | |
|--|----------|
| October 28 (NOTE THAT THIS IS THE FOURTH WEDNESDAY OF THE MONTH) | |
| November 18 | March 17 |
| December 16 | April 21 |
| January 20 | May 19 |
| February 17 | June 16 |

WANTED

- 2 - 140 or 150 volt 10 watt Zener Diodes

CONTACT: WA3BIV, Carl Barish
7948 Thouron Avenue
Philadelphia, Pa. 19150
LI 9-6486

WANTED

- 2 Meter V.F.O.

CONTACT: WA3JSR, Ben Ginsburg
5228 Westford Road
Philadelphia, Pa.
329-6457

WANTED

- Men's 10-speed bicycle

CONTACT: Len Hoffman
177 Division Avenue
Willow Grove, Pa.
OL 9-6075

The Pack Rats are indebted to the following for their generous donations of picnic prizes:

- "Hamburger" Co. (Johnny Lopez)
- Collins Radio Co.
- Radio Shack
- Heathkit
- Barry Electronics
- Kresco
- Instrument Systems Corp.
(Telephonics Division)
- Electrovoice Inc.
- Kass Electronics
- 73 Magazine
- Ham Radio Magazine
- C.Q. Magazine
- ARRL

DID YOU KNOW

The last issue of Cheese Bits was typed by Marsha Stein, harmonic of W3CL, Harry Stein. Thanks for being there when we needed you.

Michael Soltoff, #2 harmonic of K3IUU, Bert Soltoff, is well on the way to recovery from a bout with pneumonia.

- Della Linney, Berlin, New Jersey
- W3VIR, Bill Pausa, Holland, Pa.
- Sylvia Stein, Glenside, Pa.
- Marsha Stein, Glenside, Pa.
- K1SFF/3, Tony Sousa, Ottsville, Pa.
- Libby Power, Trenton, New Jersey
- Loretta Cutler, Elkins Park, Pa.
- Peggy Cohen, Elkins Park, Pa.
- Helen Brick, Philadelphia, Pa.
- Lorraine Weisman, Philadelphia, Pa.
- Harriet Soltoff, Huntington Valley
- Nils Ljunan

MEMBERSHIP

New Member: WA3AXV, Ron Whitsel
209 Frog Hollow Road
Churchville, Pa.

Applied for Membership

K1SFF/3, Anthony Sousa
Ottsville, Pennsylvania

HINTS AND KINKS

Frozen Rotator

Strip heater for rainspouts.

Wrap around rotator, tape well and run 110 line down to shack. Costs less than \$10.00 and may save rotator motor.

K3BPP, Walt Bohlman

The modern American drinks Brazilian coffee from an English cup while sitting on Danish furniture after coming home from an Italian movie in a German car. Then he picks up his Japanese ballpoint pen to write a letter to his congressman demanding that something be done about all the gold that's leaving this country.

de Ham Monitor



GENERAL AUCTION

RADIO EQUIPMENT

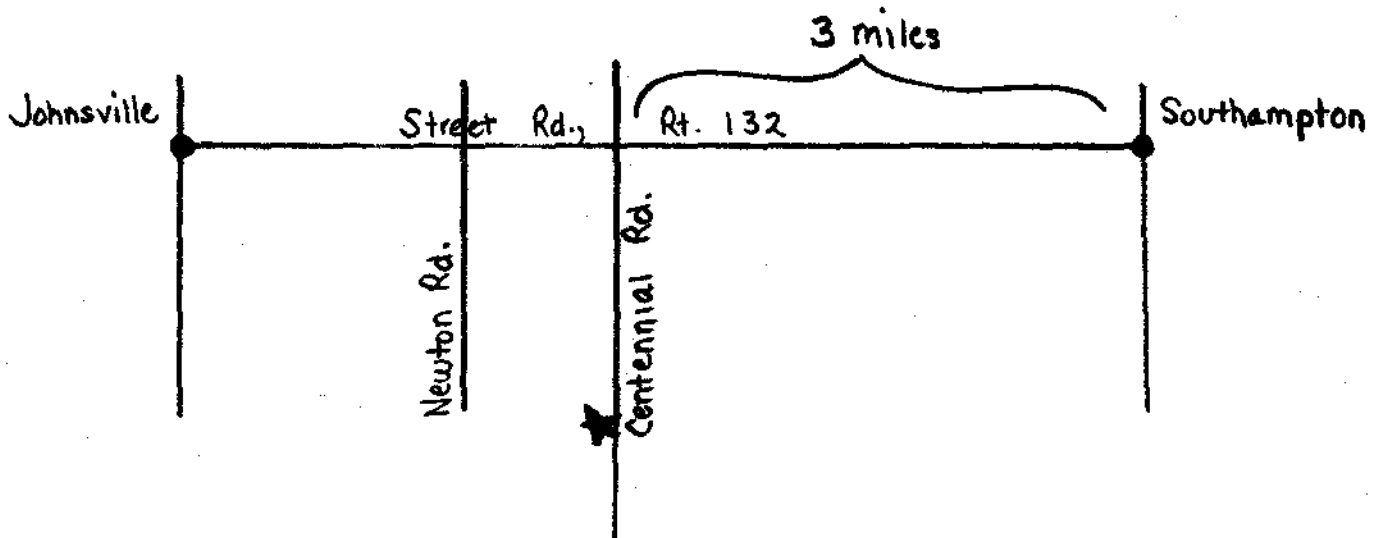
SEPTEMBER 16, 1970

ALL WELCOME

The Pack Rat Auctioneer

AT THE QTH OF W3ZD DAVE ZIMMERMAN
520 CENTENNIAL ROAD, WARMINSTER, PA.

Bring a chair -- we can accommodate 200 people.



USING A HIGH Z MIKE WITH THE "CARPONE"

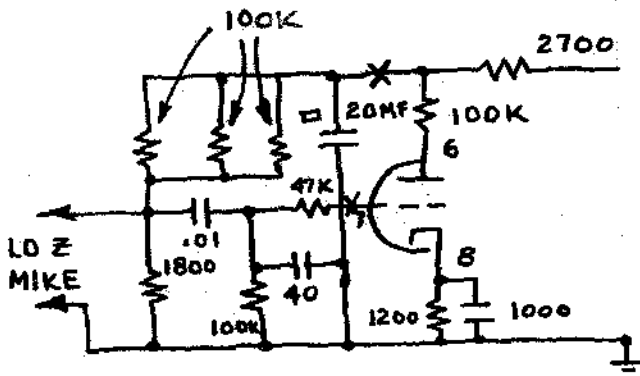
BY DAN MITTEN WA3NFV

Step by step instructions:

1. Locate the 2700 and the 100K ohm. res. connected to pin 6 of the 12AT7, cut the lead running from the junction of these resistors to the terminal of the electrolic cap. marked L .
2. Locate and remove the lead of the 47K ohm res. at pin7, push it out of the way.
3. Connect a .015 cap. and a 820K ohm res. at pin 7.
4. GND. the 820K ohm res. at the nearest point.
5. Remove the bus wire which runs vertically on the terminal strip running along the side of the chassis.
6. Connect the lead from the .015 cap. to the terminal which has been emptied by the removal of the bus wire.
7. The mike cable is then connected to this terminal and Gnd.
8. Readjust the deviation control (pot on top of chassis)

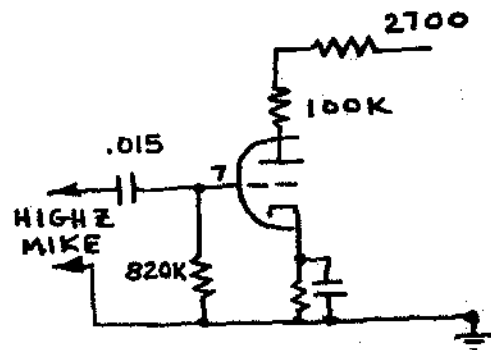
Notes: This system has worked well with a crystal mike and an E-V 638 dynamic mike.

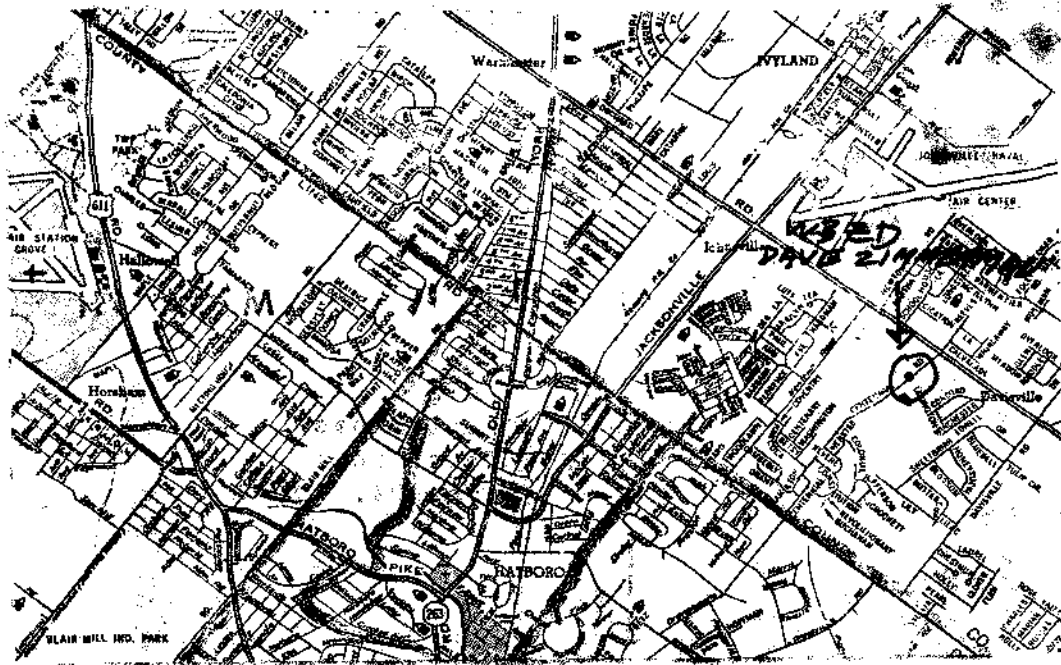
AF AMP
1/2 12AT7



BREAK AT X'S

MODIFIED AF AMP
1/2 12AT7





HARRY STEIN

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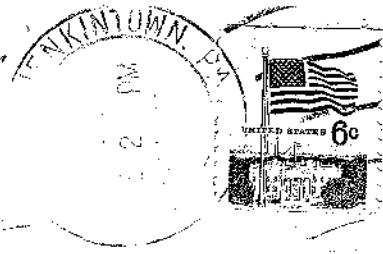
K3CPK

6318 Roosevelt Blvd.
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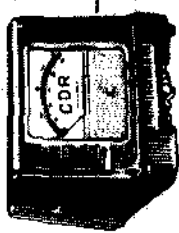
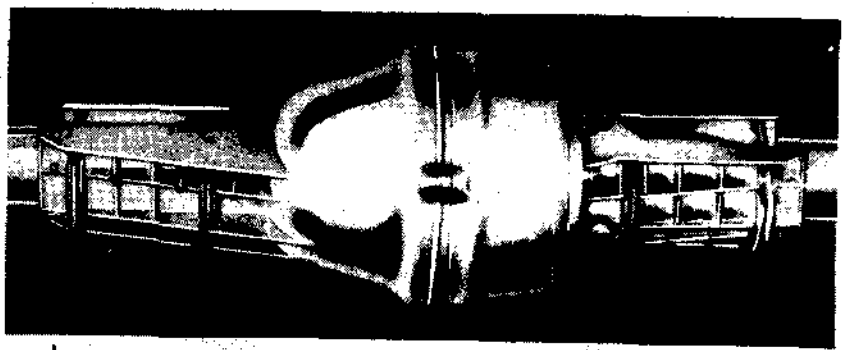
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