

# PACK RATS'



## PACK RATS

CLUB CALL: W3CCX

MT. AIRY VHF RADIO CLUB, INC.

# CHEESE BITS



MT. AIRY V.H.F. RADIO CLUB, INC., PHILADELPHIA, PENNSYLVANIA (ARNS)  
(50.2, 145.2, 221.4, 432.03 & 1296.3 MHz) Repeater 222.98/224.58

AFFILIATED CLUB: AMERICAN RADIO RELAY LEAGUE

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

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SOUTHAMPTON, PENNSYLVANIA

VOLUME XVII

AUGUST, 1975

NUMBER 8

### THE PREZ SEZ

The Pack Rat annual picnic will be held on August 10, 1975 at the Ft. Washington State Park in Flourtown, Pa. This is a family type affair with prizes, games and free soda. We invite all members, families and friends of the club to join us for a fun day. K3IGX our Picnic Chairman has been working hard to make sure you enjoy yourself, so come on out.

Our next regular Club meeting is the second outdoor gathering of the year and will be held at K3GAS's on the Third WEDNESDAY, AUGUST 20th. This is nostalgia night with slides and movies of past club events. This is really a fun night and always enjoyed by those who attend. If you have some slides showing club members and/or activities bring them along and we will try to show them.

The auction at last months meeting was a hugh success. Our unofficial nose counter tallied over 125 rosy proboscises; a stand-out crowd. Thanks to W3ZD and K3JJZ for handling the auctioneer chores in a first class manner (as always). Thanks also to those that stuck around at the end and helped to clean up the grounds. Much appreciated.

I also wish to call your attention to the reprint of Tony's, W3HMU, Cheesebits Moon Bounce article in 73 Magazine. Really a most impressive article complete with pictures of the Moon Bounce crew and hardware. Tony and Cheesbits are to be congratulated on their National recognition. At least someone out there loves us.

73,

Ron, WA3AXV

OFFICIAL BULLETIN NR 543 FROM ARRL HEADWAURTERS NEWINGTON CT JULY 10 1975 TO ALL RADIO AMATEURS BT: All routine amateur licensing matters should now be addressed to the FCC, Box 1020, Gettysburg, Pa. 17325. The new box number should help allowing presorting of the mail. Questions about FCC policy toward the amateur service, comments on rulemaking and requests for interpretation of rules should continue to be sent to FCC, Washington, D.C. 20554. Only routine matters such as requests for examination papers, renewals, modifications and requests for special calls go to Gettysburg, and only those for amateur matters should be addressed to Box 1020. AR

Further 1975 January VHF SS Rumbles: The Pack-Rats once again won the gavel with 66 logs entered not the 166 listed on page 67 - July issue QST.

Please note the following Pack Rats made top honors in their respective areas:

K3IPM, Atlantic Division National Single Op High; W3KKN(K3KMN) - Atlantic Division-Multi-Op; WALKIR - Eastern Mass. Single Op; W2EIF - Southern N.J. Single Op.

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.

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SWAP SHOP ITEMS - NO CHARGE

DEADLINE FOR ARTICLES IS THE GENERAL MEMBERSHIP MEETING.

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WA3TEM, MARSHA STEIN

MONDAY NIGHT NETS:	NET CONTROL
145.2 - 7:30 P.M.	W2EIF
50.2 - 8:30 P.M.	W3CL
221.4/224.58 9:00 P.M.	K3GAS
432.03 - 9:30 P.M.	K3IUW
1296.3 - 10:00 P.M.	W3HMU

FRIDAY NIGHT ATV NET:	NET CONTROL
439.250 - 7:00 P.M.	WA3AXV

PACK RAT REPEATER - WR3ACD-CHURCHVILLE, PA. 222.98/224.58

OFFICERS: 1975 - 1976 PRESIDENT: WA3AXV, RON WHITSEL VICE. PRES.: K3MXM, LEE COHEN CORRES. SEC.: WA3NGK, HARRY BROWN REC. SEC.: WA3DJF, CARL MATTIACE TREASURER: K3GAS, DOC CUTLER

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

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Ed Clark

CALENDAR OF COMING EVENTS

Syllabus by Lee, K3MXX

AUGUST

- 3 Winchester Hamfest-Armory- South end of town, just off the Interstate.
- 3 Vacationing up North - Visit the Montreal Canada Hamfest, McDonald College Farm, St. Anne de Bellevue. Information VE2RN, P.O. Box 201, Ponte Claire, Dorval, Quebec H9R4N9
- 3 Antenna Measuring Contest and Flea Market, Trenton State College. I95 to Exit 4A (Rte.31) at second light, entrance to parking area.
- 10 Sunday, Pack Rat Family Day and Picnic, Ft. Washington State Park, Flourtown, Pa. (off Rte. 309) same place as previous years. Make your plans now, set aside this one day when we all get together as a family. Special games for the children, adult games, horseshoe contest, bingo-prizes. A chance to meet and talk to the QCWA gang of the Delaware Valley Chapter. Talk-in frequencies 52.525-146.52, Pack Rat 220 MHz Repeater. Look for special road signs at strategic points.
- 15-16-17 Central States VHF Conference, Western Hills Lodge, Wagoner, Okla.
- 17 Eastern Pa. Section Picnic, starts 1000 at K3BRR's farm, Lahaska, Pa.
- 17 Tasbar Picnic, Heislars Grove, Tamaqua, Pa.
- 13 Board of Directors Meeting, QTH, W3HMU, Tony Sousa, Ottsville, Pa. Come on out to this meeting and see the pleasures and profits of country living (wine on the vine, real grapes growing) and naturally do some club business. Directors and interested parties invited. If lost call 847-2375.
- 20 Special Note. This is a WEDNESDAY NIGHT. Second outdoor meeting of the season. Social Evening, Pictures and slides from bye-gone years. Special running commentary by our own W3CL, which makes an evening in itself. Bring your ladies and bring chairs. A fun nite for all. QTH K3GAS, 7815 New Second Street, Elkins Park, Pa. Plenty of street parking. Refreshments will be served.
- 24 Northeast VHF association get-together. Conn/Mass. Border. Contact W3HMU for details.
- 31 York Hamfest, Elickors Grove.

SEPTEMBER

- 7-8 Sept. VHF QSO Party, Good propagation conditions expected.
- 7 South Jersey Hamfest, Molio Farms, Malaga, N.J. All day Swimming, Picnicing, eyeballing, prizes, swap shop and flea market.
- 7 Findlay Ohio Annual Hamfest and Flea Market at Riverside Park.
- 10 Board of Directors Meeting at W3KKN, Ernie Kenas; Come over and marvel at how one small garage can hold so much iron up in the air.
- 12-13-14 ARRL National Convention, Reston, Virginia. Write NOVARC Box 82, McLean, Virginia for details.

SEPTEMBER

- 13 Delaware Valley Chapter, QCWA Dinner Meeting, Buck Hotel, Feasterville, Pa.
- 18 Third Outdoor Meeting of the year. WHITE ELEPHANT SALE, QTH K3MXM, Lee A. Cohen. A double opportunity. First a place to clean out your cellar and secondly a chance to load up first class materials that can be sold at the HAMARAMA and other Flea Markets.
- 21 Annual Cincinnati Hamfest-New Strickers Grove, Ross, Ohio.

OCTOBER 5 PACK RAT HAMARAMA

OCTOBER 19 - GAITHERSBURG HAMFEST

"You Don't Belong To The PACK RATS --- The PACK RATS Belong To You ---  
Join In The Activities" Burma Shave (K3MXM Sez)

- - -

SPURIOUS SIGNAL ON 50 MHZ BAND: Some of the Norristown, Pa. Pack Rats receive a solid carrier with peculiar modulation signal on 50.113 Mhz. This signal has also been observed in Glenside, Pa. at approximately 255 and in Stratford, N.J. Anyone having information as to the signal source please contact WA3NGK or WA3NFV.

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GLEANINGS FROM OTHER PAPERS

By Lee, K3MXM

PROMOTE AMATEUR RADIO with a free "Talk To The World -- Become a Ham Operator" bumper sticker from Mor-Gain. Write to Bob Quenstedt, 2200 South 4th Street, Leavenworth, Kansas 66048. De Ham Report

Comes January 1976 73 Magazine, Ham Radio Magazine, CQ Magazine and QST will change size of their publications to an 8 1/4 x 11 page format.

Waiting a while for your new license??? As of Mid June, Gettysburg FCC Office reports over 180,000 CB applications in May with 190 trays of unopened mail on hand. Get in Line.

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ANYONE INTERESTED IN AMATEUR RADIO'S FUTURE and how we got to where we are today should take the time to study the results of ARRL's membership survey in July QST. There's a fantastic amount of information there for anyone willing to dig for it. Some frightening statistics: of the 56,000 hams responding (more than 20% of current U.S. License holders) more were over 65 years old than under 26. (13% vs 11%) and 2/3 were over 35! And that's despite the fact that 44% were licensed in the past 15 years. Right there it is obvious we are not attracting enough young blood to replace those who die of old age. The Communicator license should help, but lots of strong promotion, both organized and by us as individuals, will have to go with it if the Amateur Radio Service is to continue... and survive... De Hr. Report.

Look for a couple of new books from ARRL's Technical Staff--In preparation are a solid-state handbook, an RFI manual and a handbook of miscellaneous technical data...

There are beacons on 10 meters and if you can read them you should know that 6 and 2 meters are also open. For your reference: DLØ IGI 28.195 MHz; 3B8MS 28.200 MHz; JALIGY 28.190; GB3SX 28.185 MHz; ZC4CY 28.180 MHz; VE3RMR 28.175 MHz; VE3TEN 28.175 MHz; DLØAR 29.00 MHz.

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OFFICIAL BULLETIN NR 544 FROM ARRL HEADQUARTERS NEWINGTON CT. JULY 17 1975 TO ALL RADIO AMATEURS BT: A counterproposal to the FCC ideas on the restructuring of amateur radio was filed July 16 by ARRL. The League rejected any loss of privileges, rejected a dual series for hf and for vhf, rejected a totally code free license and rejected changes in power amounts and measurements. Instead the League proposed a unified structure to start with a new Basic Amateur, and to include Technician Class licensees in the main stream through permanent Novice privileges and through a reduction in the General Class code speed to ten words per minute. The document, totaling more than 125 pages, is being sent to directors, vice directors, assistant directors, SCMs and affiliated clubs. Others interested may obtain a copy by sending an addressed 9x11" envelope with \$1.10 in postage. A summary will appear in the September issue of QST. AR

NEW PRODUCTS OF INTEREST TO HAMS

By Lyn, W3NSI

1. FREQUENCY COUNTER: The Teco Co. has introduced two counters that would be useful about the ham shack; The Model 5165 covers up to 1000 Mc with 8 digit readout and costs \$895. The Model 5163 also has 8 digits but covers up to 250 Mc, which should cover most amateur needs. Cost of this unit is \$295. Counters are very compact and feature a front panel attenuator switch. P.O. Box 1050, Garland, Texas 75040.
2. FM TRANS/REC. WITH BUILT-IN AUTO-PATCH: Genave Co. has adapted their model GTX 200 for auto patch by placing a 12 button encoder unit in the center of the front panel. This keeps the entire lash-up in one compact package at a very easy to take price. The TE-11 encoder is available alone at \$44.50 and is a very compact unit, measuring only 2.1 x 1.6 x .65 inches. 4141 Kingman Dr. Indianapolis, Ind. 46226.
3. VHF SCANNER RECEIVER: Hy-Gain Electronics HY-Scan 10 uses plug in RF modules to allow a choice of 30-50 --- 150-170 --- 450-470 bands. It would also be possible to change a module if you find you have made a poor choice the first time around. A battery charger is built in. Size of the unit is 2.5 x 5.5 x 8 inches, and, external jacks are provided for antennas and speaker. 8601 Northeast Highway 6, Lincoln, Neb. 68505.

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VHF/UHF REPORT

By Jo, W2EIF

The six meter band has yielded some excellent openings, with double hop stations coming in from the Caribbean to the Far West. There have been several stations on in Utah, Idaho, Wyoming and Montana.

The two meter band has continued at a low activity level except for FM. There is the usual group on SSB both at 144.110 and 145.025. The Tidewater group, operating WA4MMP as control station has nets each Tuesday nite using 50.150 at 8 P.M. for the six meter net and 145.025 at 9 P.M. for the two meter net. Point your beams almost due South toward Norfolk, Virginia if you want to try to get into either net.

The Upper bands 220, 432 and 1296 are not showing any activity to speak of except for contest periods and even then, there is less activity than existed several years back. Don't forget that there is 220 MHz activity at the low end every Tuesday nite. Usually one can find K1PXE, W1FAT, W1YTW and a few others between 8 and 9 o'clock Tuesday nites. Hope to hear some of you on soon.

NOTE: Sunday July 20th during the afternoon and evening the 6 meter band was wide open - AM signals up the band this time matched the SSB crush at the low end - The Space Net Contest boys benefitted with as many as 15 States or more reported being worked. Later, 2 meters had a wild opening with States heard here out to Texas and Wyoming.

-- --  
TID BITS

Welcome to Eunice G. Bernon, K8ONA as a new subscriber to Cheese-Bits. Eunice writes the "Ham Antenna" column in the Sunday Plain Dealer - Ohio's largest newspaper -circulation, one half million.

The John Tate's (K3KTY) are vacationing in Canada via auto. John has worked a number of stations on 2 meter FM. Among them VE3FAM who sends greetings to Paul, WA3HIT. Ye Editor received a number of "your man in Canada" cards. What's with the South Huron District Hospital Bit, John?

A number of the Pack-Rats attended the WR3ABE 6 meter group picnic on July 20 at Ft. Washington State Park. Had a number of fb rag-chews and especially enjoyed the one with Ben and Edith and family (K3ESL).

"Hotline" going out of business in favor of 73's new computer magazine, BYTE.

TID BITS CONTINUED

Prose Walker resigns from the FCC effective July 31, D 75, but will remain active in Amateur Radio Preparation for the 1979 World Administrative Radio Conference.

Tony, WB2MTU now K4AWS finally settled in his new QTH, Bit of a problem getting thru red tape re antenna installation - come on Tony, lets hear your signal up here.

Dick Bokern, WB9PUJ, our Indiana Pack-Rat, made the Auction meeting at Zimmerman's Gulch on July 17th. Do it again real soon.

Congrats to Lee, K3MXM our ad salesman and Hamarama Chairman who passed his advanced class exam recently.

The Pack-Rats Press prints Cheese-Bits all the club flyers, the "Kilowatt" (Penn Arc Paper) and all BARCC notices and newsletters. WA3DJF, printer par excellence!

OFFICIAL BULLETIN NR 545 FROM ARRL HEADQUARTERS NEWINGTON CT JULY 24 1975 TO ALL RADIO AMATEURS BT: The Montreal Amateur Radio Club invites all amateurs in the ARRL Field Organization to participate in the Annual VE/W Contest to be held September 20 and 21. Full details on this popular operating event, including several rules changes for this year, appear on page 67 of the August issue of QST. AR.

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ADDITIONAL GLEANINGS BY K3MXM

Lacquer thinner will remove etch resist paint from printed circuit boards - works good - economical and a quarts lasts a couple of years. Available at any hardware store. de K2QLE

If you want tips on insuring your ham gear, request a free copy of Grom CD-82 from ARRL, Communications Department, 225 Main Street, Newington, Conn. 06111.

Kester Solder offers an 8 page catalog of soldering data and a pocket size solder selection slide rule. Write to them at 4201 Wrightwood, Chicago, Illinois 60639. Attention of Mack Harsburd for each one.

A tourist is a person who travels thousands of miles to get a snapshot of himself standing beside his car.

New Books

"Introduction to Digital Electronics" Hewlett Packard \$8.00. Starts off with binary logic and prepares you for trouble shooting and maintaining digital instruments such as EDP gear, calculators, counters, etc. HP 1501 Page Mill Road, Palo Alto, California 94304. This is a big book and written so just about anybody can follow it. If you've wanted to understand digital electronics, get this book and give up a few of the lousier television programs you've been wasting your time on. de Hotline.

Ameco has moved to 314 Hillside Avenue, Williston Park, Long Island, New York, New York 11596 and their phone is 516-741-5030.

A couple of well known QTH's for Ham Radio Clubs: W3USS - Old Senate US Office Bldg., Washington, D.C.; W3DOS, US Department of State, Washington, D.C.


POWERLINE NOISE? Try your fishbowl! FCC reports aquarium thermostats have proven a troublesome source of RFI.

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AD  
MANAGER  
K3MMW

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<p>609-429-0087</p> <p><b>BRADDOCK ASSOCIATES</b> MANUFACTURERS' REPRESENTATIVE</p> <p>EDWARD BRADDOCK MEMBER: I.E.E.E. <b>W2RAY</b></p> <p>POST OFFICE BOX 305 HADDONFIELD, N. J. 08033</p>	<p>610-272-4082</p> <p><b>HARRY B STEIN ASSOCIATES</b> COMMUNICATIONS CONSULTANTS</p> <p>HARRY B. STEIN</p> <p>2087 PARKDALE AVE. GLENSIDE, PA. 19038</p>	
<p><b>ham radio</b> your most interesting amateur publications <b>h/r REPORT</b> Greenville, NH 03048</p>	<p><u>A request from your AD Manager</u></p> <p><b>PATRONIZE OUR ADVERTISERS</b> Tell them you saw their ad in <b>CHEESEBITS</b>. Leave your QSL card with them. <b>CHEESEBITS</b> is one of the best read local radio club papers. Circulation - 300</p>	<p><b>73</b> magazine for radio amateurs PETERBOROUGH, NEW HAMPSHIRE 03458</p> <p>1 year - \$8 3 years - \$16</p>

### SWAP SHOP

FOR SALE: CB radio, Micro 66 mobile, base rig. 6 channels w/power supply, ant. & extras \$75.00. 2 man inflatable boat with seats, brand new in original box, never used. \$12.00.

CONTACT: Ron, 215 WA 7-7046 between 6 - 7 P.M.

FOR SALE: TV Camera, Transistorized, tripod-3 lenses; regular, telephoto and wide angle, R.F. cable. \$200 or best offer.

CONTACT: Frank Guthrie, 170 Terwood Rd. Apt. F60 Willow Grove, Pa. 215-657-1349 after 6 PM.

WANTED: Acme type lead screw - 3/4 in. dia. plus matching nuts. 3 to 4 ft. long.

CONTACT: K3ZSG, Bill Murphy  
206 Hancock Avenue  
Norristown, Pa. 19401  
215-272-0558.

SEND SPACE NET CONTEST LOGS TO:  
TONY SLAPKOWSKI, K4AWS  
P.O. BOX 20294  
LAKE PANASOFFKEE, FLA. 33538  
PACK RATS PLEASE NOTE YOUR CLUB AFFILIATION.

### TID BITS CONTINUED

There was a good turn-out for the BARCC Board meeting at the Casa Conti in Glenside, Pa. the evening of July 22nd. We can report progress-the group is going into high gear since the Atlantic Division Convention is only one year away. Connie-Mac, W3SW, the Atlantic Division Director, displayed a sketch of a proposed ARRL BANNER for the 1976 affair at the Ben Franklin Hotel. A Barcc newsletter is in the mail. The next meeting will be on Sept. 23rd at the Casa Conti, in Glenside, Pa. A number of the group report they will be going to the National in Reston, Va. in September.

The Club has received copies of the League's filing on Docket 20282. Get in touch with WA3NGK or W3CL. If you want your own copy, send a 9x12" envelope & postage \$1.10 to ARRL. A summary will appear in September QST.



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—Guru Maharaj Ji

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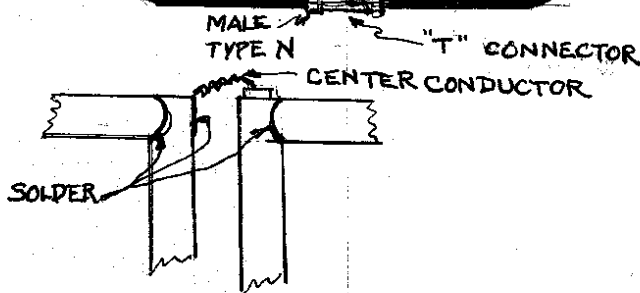
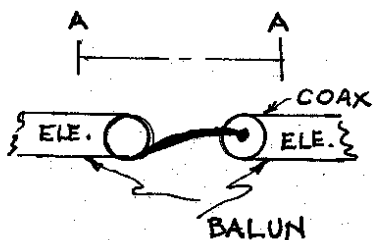
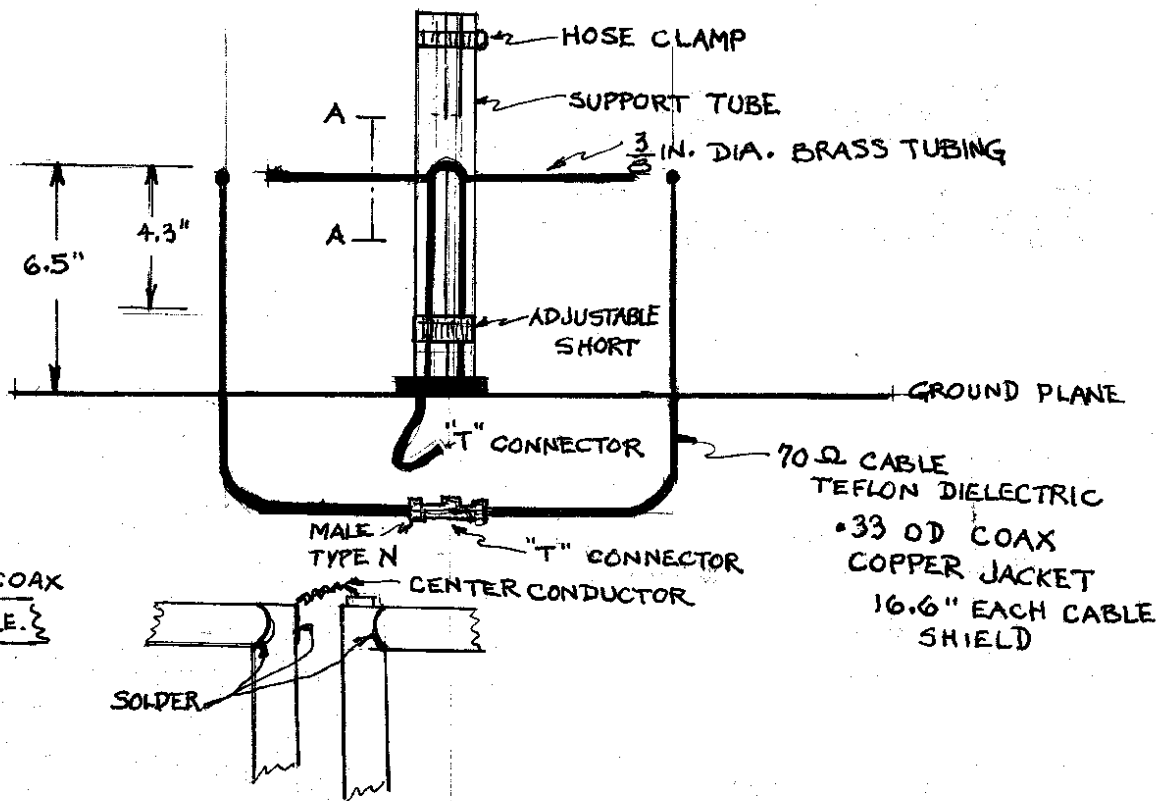
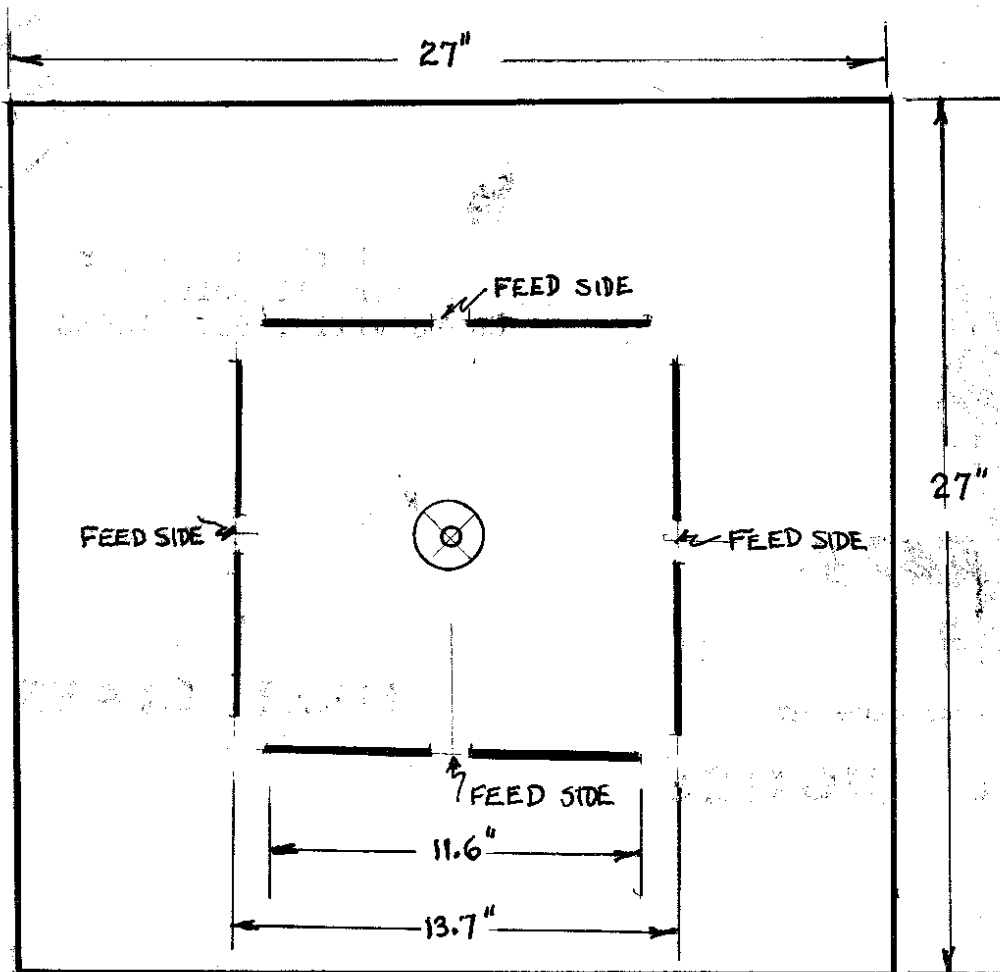
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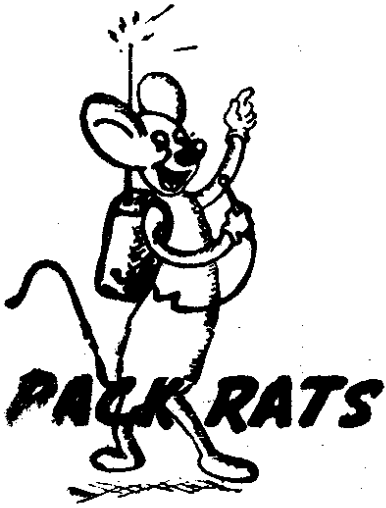
432 MHZ. DUAL POLARIZED DISH FEED (CONT'D)

Preliminary Info.

By Walt- K3BPP

(CONTINUED FROM JULY, 1975)

2087 Parkdale Ave.  
Glenside, Pa. 19038



MT. AIRY VHF RADIO CLUB, INC.

## MEETING NOTICE

W3FQD Dick Huntzinger  
130 Fairhill Drive  
Churchville, Pa. 18966

## FIRST CLASS

# The Ultimate In Versatility.

### All Frequency Capability:

Full synthesis enables use of all frequencies between 143.5 and 148.5 KHz increments.

### Super Sensitivity:

Plus 20 watts output allows you to go direct when others can't.

### Repeater Offsets:

Offsets are programmed automatically up or down 600 KHz. The 144 Jr. can be set up to operate any oddball repeater by selecting split mode and setting the repeater input frequency on thumbwheel B and the repeater output on thumbwheel A.

(215) OL 9-5900

## "HAM" BUERGER INC.

68 N. YORK RD.  
WILLOW GROVE, PA. 19090

emergency  
beacon

