



PACK RATS'

CHEESE BITS



CLUB CALL: W3CCX

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 III

JULY 1969

NUMBER 7

OUR PREZ SEZ

I can truly say that the last twelve months of my membership have gone by so fast it's unbelievable and I hope it's attributable to the fact that I really enjoyed every minute of my term as president.

I am leaving office feeling very satisfied that many of the problems of the past year were resolved in the best interest of the club with the guidance of a few rules which I considered mandatory; the minority was heard, each problem was fully debated and the majority ruled.

Each administration leaves some unfinished business, this administration is no different. There are some problems facing the club, the resolution of which will require a change of thinking on the part of many members, others may be solved by time alone, and for some there are no solution. There is one thing we can be sure of, each president will receive his share of each.

Things were not as sad as it sounds. We were very successful in our club events this past year and there were many important improvements in club operations which I am sure are evident to the members.

At this time I would like to thank the executive committee, committee chairmen, committee members and members for their fine work and club interest throughout the year which made it possible to carry out all the administrative functions and club events. The support you gave me is sincerely appreciated.

Congratulations to W3KKN, Ernest Kenas, the new president and to his slate of officers on their election to office. Ernie and the officers have long records of active membership so everyone can be assured the welfare of the club will be

DEADLINE FOR ARTICLES IS THE GENERAL MEMBERSHIP MEETING.

EDITOR:

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

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W3SAO, FRANCIS BRICK
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215 - DA 4-7524

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

PRINTER

K3ZPN, LLOYD SCHOENIG
RED LION ROAD
PHILADELPHIA, PA. 19114
215 - 637-6455

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 - 1969-1970:

PRESIDENT: K3KKN, ERNIE KENAS
VICE-PRES.: K3JJZ, ELLIOTT WEISMAN
CORRES. SEC.: W3SAO, FRANCIS BRICK
REC. SEC.: K3ZPN, LLOYD SCHOENIG
TREASURER: W3MVF, DAVE BLOCH

DIRECTORS:

K3HSS, CHARLES LUSTICK
K3KTY, JOHN TATE
W3CJU, DONALD HAMPTON
W3CXU, JOHN ALLEN
K3MXM, LEE COHEN
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.

20¢ per copy \$2.00 per year

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.

de K3GAS

WA3AKK told me an interesting tale the other day which may help those who are having a real noise problem in the mobile rig. After checking around the engine with a portable radio and finding no great source of noise, he went under the dash and found the problem on the hot lead to the set. When he inserted a Sprague type coaxial condenser about six inches from the rig in the hot line the noise dropped to almost zero. Ground the shell and put the capacitor in series with the hot line. He rightly concluded the noise was RF type and was being picked up from all the other wires under the dash.

WA3AKK's handle is Gene and QTH is Gwynedd.

From Calgary AR Assn. KYY-KLL

Daughter: Mummy, Mr. Smith is mad at you because your mixer is interfering with his Ham Radio.

Mother: How do you know that, dear?

Daughter: I just heard him say so on the TV.

FROM THE BOOK RACK

Paul R. Behrmann, K3WEU/AREA*

ELECTRONICS REFERENCE DATABOOK (Tab Books No. 488) by Norman H. Crowhurst; Published by Tab Books. Price: \$7.95 hardbound; \$4.95 paperbound. 232 pages, over 100 illustrations, plus 45 tables, 10 sections.

An invaluable new reference containing the most often needed electronics data - clearly explains how to use electronics data in practical applications. This new book is much more than a simple collection of tables, formulas, graphs, equations, etc. In addition to the abundance of helpful information given, it provides specific guidance in the use of data. Numerous problems associated with every level of interest - from electronics theory (formulas, laws) to measurements, tests, and circuit design work - are covered. In so doing, the author explains how to use the data (from this or other volumes) for purposes other than those listed, and at the same time provides the help necessary to polish those "rusty spots" on certain fundamentals.

To facilitate the solution of problems involving AC voltages and currents, an entire chapter is devoted to applications of the "J" operator. As in similar cases throughout the book, the author clearly explains how to apply vector analysis, using as examples the design of low-pass filters, AC bridges, side-band determination, etc. For more involved computations, another chapter contains exponential and trigonometric tables, plus data on the power series approach to waveform synthesis and analysis of asymmetrical rectangular waves. Other sections deal with attenuator, equalizer, and filter design, in which the author explains and illustrates how to design such devices.

An entire chapter is devoted to semiconductors (including FETs and ICs) and vacuum tubes, covering basic characteristics, operating parameters, gain calculations, applications, etc. Thorough treatment is given to the subject of feedback: purposes, distortion reductions, gain stabilization, phase effects, and computation data. The final chapter deals with transmission lines, including a description of parallel and concentric conductors, waveguides, and matching devices. The accompanying tables list losses and loss vs. frequency for all principal cable types impedance/conductor size and spacing, waveguide dimensions, and impedance for lines of various proportions.

Unlike most other data books, the information here will enable the reader to use data available from many other sources; also, it tells how he can develop additional data on his own. In every instance there are sufficient instructions on data development and application, showing why as well as how, to apply data.

* Amateur Radio Editors Association

CHEESE BITS was awarded the following in the recent Amateur Radio News Service Contest, Single Club Category:

- Local Ham News Coverage - First Place
- Club Member Contributions - Third Place
- Technical Articles - Honorable Mention

A complete listing of the contest results is available from K3JJZ.

OUR PREZ SEZ (Continued)

in excellent hands. There are many plans and projects in the mill for your enjoyment, all they need is your active support. Why not, you are the one to benefit the most!

My thanks to Lloyd, K3ZPN, the June QSO Party chairman, and the gang for the busy but enjoyable weekend they spent at the Hilltown site sending the club call to all parts of the country. Much can be said for contests and some dislike for them; but they sure put W3CCX, which represents the club, in logs across the country. Lloyd, the chairman, promised a bang-up report, including pictures, so don't miss it.

Don't forget our Picnic Chairman, K3KTY, John Tate. The picnic will be held on August 10 at the Fort Washington State Park, Flourtown, Pa., and as necessity will have it, your help will be required. Let's make the picnic a real enjoyable one for all who will take the time to visit with us.

MEMBERSHIP

New Addresses

WA3CAG, Dave Funk
P. O. Box 457
Temple Drive
Richboro, Pa. 18954
215 - 357-8968

W3NSI, Lynford Rowland, Jr.
11934 Farwell Road
Philadelphia, Pa. 19154
215 - NE 2-4791

The following have been dropped from membership:

WA3CQO, Jay Jacobson
WA2JNA, James Teiss, Jr.
K3KVS, Jerry Polin
K3LNV, Elmer Allen, Jr.
K3TPM, Bud Bechtel

K3AFT, Joseph Mortimer
WB2CDP, Louis Goetz
W3CLQ, Walter Kovacs
K3IFH, Edward Guscin
K3QFQ, George Braxton

New Call

K0ZZM has obtained an additional call - WA3LNH.

NEW OFFICERS - 1969-1970

- | | | |
|-------------------------|---|------------------------|
| President | - | K3KKN, Ernie Kenas |
| Vice President | - | K3JJZ, Elliott Weisman |
| Recording Secretary | - | K3ZPN, Lloyd Schoenig |
| Corresponding Secretary | - | W3SAO, Francis Brick |
| Treasurer | - | W3MVF, Dave Bloch |
-
- | | | |
|------------|--------------------|-------------------|
| Directors: | K3KTY, John Tate | W3CXU, John Allen |
| | W3CJU, Don Hampton | K3MXM, Lee Cohen |

IT'S THE LAW

In response to several requests, CHEESE BITS is printing the two applicable laws that refer to reception of police and fire broadcasts. The first of these is a state law as follows:

SENATE BILL NO. 1086
Session of 1967

Prohibiting the interception and interference of certain police and fire radio broadcasts; regulating the manufacture, conversion, sale, possession and use of certain equipment adaptable for such purpose and prescribing penalties.

Section 1. Police and Fire Radio Broadcasts

- a. Police or fire radio broadcasts as used herein shall mean broadcasts on frequencies from one-hundred fifty-four to one-hundred fifty-six megacycles and four-hundred fifty-three to four-hundred fifty-nine megacycles only.
- b. No unauthorized person shall interfere with or broadcast on any police or fire radio broadcast. No person shall intercept any such broadcast for the purpose of aiding himself or others in the PERPETRATION of any unlawful act or manufacture, own, possess, sell or transfer any radio apparatus of any nature or type intended for use in the PERPETRATION of any unlawful act.
- d. This act shall not apply to any law enforcement agency, fire department, public utility or any public news media.
- e. Any person violating any of the provisions of this act is guilty of a misdemeanor, and, shall upon conviction thereof, be sentenced to pay a fine of not more than three hundred dollars (\$300), and to undergo imprisonment for not more than ninety days.

Section 2. This act shall take effect in five days.

As you can see, there is no problem here as long as you don't use the received calls in the perpetration of a crime. The real hooker comes in the Philadelphia ordinance which reads as follows:

AN ORDINANCE

Amending Chapter 10-800 of The Philadelphia Code, relating to safety in connection with individual conduct and activity, by adding a new subsection prohibiting the interception of or interference with police and fire radio broadcasts, under certain terms and conditions.

The Council of the City of Philadelphia hereby ordains:

Section 1. Chapter 10-800 of The Philadelphia Code, relating to safety in connection with individual conduct and activity, is amended as follows:

1. No unauthorized persons shall intercept or interfere with any police or fire radio broadcast. No person shall manufacture, own, possess, sell or transfer any radio receiver or converter of any nature or type which is capable of receiving or interfering with police or fire radio broadcasts.

Continued on Page 6

IT'S THE LAW (Continued)

No person shall alter any radio receiver or converter in any manner so that the receiver or converter makes it possible to interfere with or receive police or fire radio broadcasts.

- 2. Confiscation. Any radio receiver capable of receiving police and fire radio broadcasts shall be presumed to be used for that purpose and any police officer is authorized to impound the receiver and hold it until the owner arranges for it to be re-equipped so that it will not be capable of receiving or interfering with police or fire radio broadcasts. If the owner does not make such arrangements within a period of thirty days, the receiver shall be destroyed.
- 3. Exemptions. Sections 10-817(1) and (2) shall not apply to any law enforcement agency or any public news media.
- 4. Penalty. The penalty for violation of this section shall be a fine of not less than one hundred (100) dollars and not more than three hundred (300) dollars, together with imprisonment of not less than thirty nor more than ninety days.

Now this one is pretty all encompassing. It seems to me that any 432 converter is capable of receiving 453 mc. Philadelphia police. I guess we ought to get some kind of legal opinion. How about it Syl?

Many thanks to W3MFY, Pres, for copies of the regulations.

73,
K3JJZ, EL

DID YOU KNOW

- VK5ZEI, Alan Isaachsen, a recent guest of W2EIF, Jo Kilgore, and an honorary Pack Rat, sent us an exchange paper from the South Australian Wireless Institute. We intend to exchange papers regularly. Anyone interested in reading the Australian paper please contact K3MXM, K3GAS or K3JJZ. If you want to drop Alan a line his address is -

Alan Isaachsen, VK5ZEI
24 Seafield Avenue
Kingswood 5062, Australia

- K3DUW, Alan Goodman, was married on June 13 in Sacramento, California.
- W3SAO, Frankie Brick, is now an advanced. Also, Frankie reports that his harmonic, Harry, has enlisted in the Marines.
- W3GEW, Sidney Weiner, Northeast Philadelphia, is alternate Net Control, sharing it with Harry, W3CL, every other Monday night on six.

P I C N I C

P I C N I C

P I C N I C

COME ONE, COME ALL TO OUR ANNUAL FAMILY GET-TOGETHER!

Ft. Washington State Park
Ft. Washington, Pa.

August 10, 1969

A nominal charge of \$2.00 per "Ham"
includes XYL's and Harmonics not licensed.

FREE SODA	-	KIDDIE GAMES
HAM PRIZES	-	XYL PRIZES

Members and Friends of

Mt. Airy V.H.F. Radio Club, Inc.
"THE PACK RATS"

All Invited

Talk in Freq 50.2

RAIN DATE AUGUST 17, 1969

K3KTY, John Tate
Picnic Chairman

SWAP SHOP

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

FOR SALE

- Model 14 Teletype Page Printer
- 2 Power Supplies (Teletype Type)
- 1 T U with incomplete power supply.
All the above for \$90.00.

- Regular Table for above \$10.00

CONTACT: W3CI, Sam
106 Ulmer Avenue
Oreland, Pa.
TU 7-8523

WILL SWAP OR BUY

- L.F. Antenna Tuning Unit
CONTACT: W3GEW, Sid Weiner
2036 Disston Street
Philadelphia, Pa. 19149
215 - 332-8655

SWAP SHOP (Continued)

FOR SALE

- 3 pieces - 6M transmitter-power
supply-modulator. Just plug
together. \$20.00

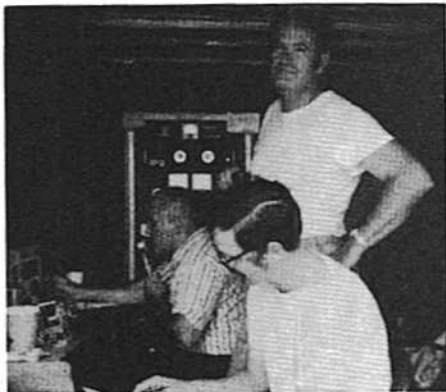
CONTACT: K3GAS, Doc Cutler
7815 New Second Street
Elkins Park, Pa. 19117
215 - ME 5-1078

MEETING NOTICES

The next DIRECTORS' MEETING will be
held on Wednesday, July 9, at the
QTH of WA3BIV, Carl Barish, 7948
Thouron Avenue, Philadelphia, Pa.

The next REGULAR MEETING will be
held on Wednesday, July 16, at 8
p.m., at the QTH of W3LHF, Dave
Zimmerman, 520 Centennial Road,
Warminster, Pa. 18974. Topic -
White Elephant Sale.

JUNE QSO PARTY



TWO METER STATION
K3DLS OPERATING
WA4PNH LOGGING
K3IGX "OBSERVING"



VIEW FROM NORTH. FOREGROUND
2METER STATION WITH 28 EL. ANT.
BACKGROUND 6 METER - "SHACK"



W3LHF "BORROWING" POWER
K3MXM HOLDS THE LADDER



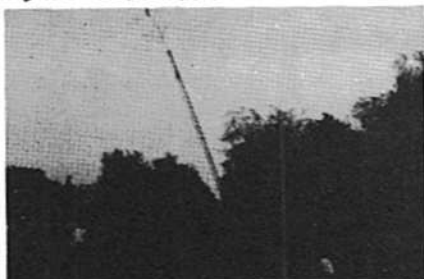
W3CL "SUPERVISING" K3JJZ IN
OPERATION OF 6METER STATION
WA3HIT OBSERVING



WB2IOE TUNES 1296 RECEIVER



DOES THIS TURN IT ON? K3ZPN
AT 6 METER RIG



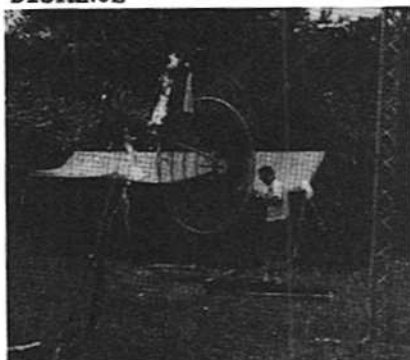
32EL. 432 BEAMS GOING UP
K3UJD AT THE WINCH ASSISTED
BY WA3ERQ, W2RIF, W3CJU.
WB2OAD WATCHES FROM A SAFE
DISTANCE



W3KKN TELLING SHAGGY DOG STORIES
TO K3HSS, K3UJD (WITH BEER CAN)
W2RIF (OPERATING 220 STATION)
AND LONG HAIRIED FRIEND (SAID HIS
CALL WAS K3DOG/ MIKE)



WADDA YA MEAN CHRISTMAS TREE?
THAT'S MY HIGH GAIN 2300 MHZ.
ANTENNA. K3UJD LEADS 2300 GROUP
ABLY ASSISTED BY K0ZZM (WITH
ANTENNA) AND K3DLS

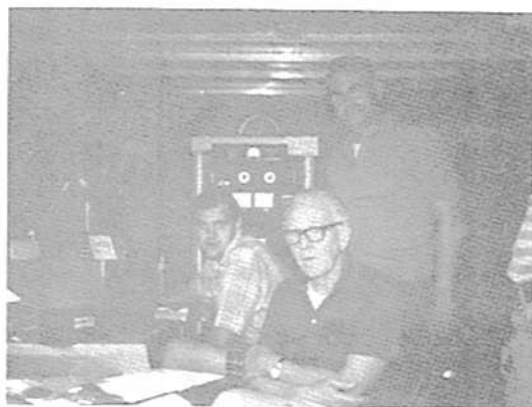


K3BPP ADJUSTS 1296 DISH

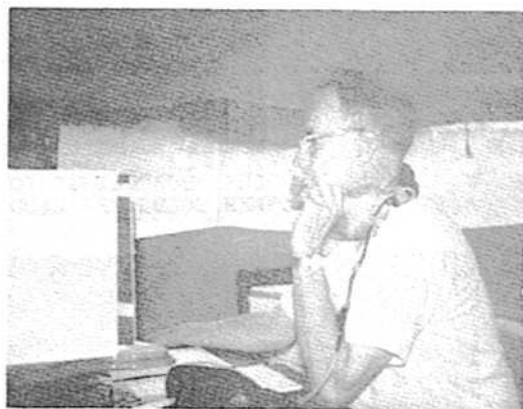
CQ CQ CQ, CQ CONTEST CQ, THIS IS W3CCX/3. CALLING CQ CONTEST CQ.
THIS YEAR, AS IN THE PAST, THE CLUB CALL WAS HEARD TIME AND TIME AGAIN
AT THE HILLTOWN COMMUNITY FIELD. THIS YEAR WE OPERATED ON ALL
BANDS FROM 50 TO 2300 MHZ. RACKING UP OVER 50K POINTS WITH A TOTAL
OF 83 SECTIONS WORKED ON ALL BANDS. HIGH POINTS OF THE WEEKEND WERE
1296 CONTACTS WITH NORTHERN NEW JERSEY AND THE WORKING OF 40 SECTIONS
ON SIX METERS.



← TWO METER STATION
K3OBY OPERATING
W3SAO OBSERVES



WA3HIT OPERATES →
K3OBY LOGGING
K3HSS LOOKING ON



← CQ 220, CQ 220 THIS IS
W2EIF, COPS I MEAN THIS
IS W3CCX/3.



432 OPERATING POSITION →



← WA3BIV CHEWS MIKE AS
K3JJO TURNS HEAD AS
PHOTO IS TAKEN



→ UP SHE GOES! NOTE 'GIN'
POLE BEING USED TO
RAISE 32EL 220 BEAM

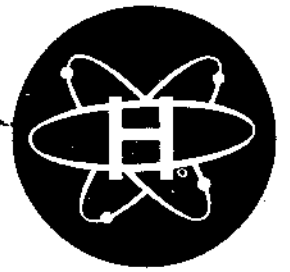


← 220 OPERATING POSITION
HEY JO THATS A W5
CALLING YOU.

WE WOULD LIKE TO GIVE SPECIAL THANKS TO THE FOLLOWING
PEOPLE WHOES ASSISTANCE WAS INVALUABLE: W3KKN, WA3ERQ,
WA3BIV, K3MXM, K3GQJ, K3JJZ, K3BPP, W3CJU, W2EIF,
K3IGX, WB2IOE, W3LHP, K3OBY, W3SAO, K3UJD, KØZZM,
WA4PNH, HARRY, WHO ALTHOUGH NOT A PACK RAT, WAS THERE
HELPING OUT ALMOST THE ENTIRE WEEKEND. I ALSO AWARD
THE SILVER CHEESE CRUMB WITH THREE FIG LEAF CLUSTERS
TO W3MVF WHO TRAVELED UP TO HILLTOWN TO GIVE YOURS TRULY
THE CHECK THAT MADE THE AFFAIR A REALITY AND K3IUW WHO
IN ADDITION TO PARTICIPATING IN THE QSO PARTY ITSELF WAS
SO KIND AS TO LEND ME TOME OF THE PHOTOS. *K3Z-PV*

HAMTRONICS'

HAM-BITS

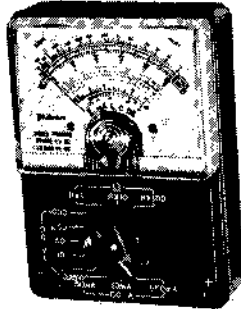


Now **BIGGER** FREE COFFEE
 And **BETTER** FREE CAKE
 Than Ever!! POKES
 RETZELS etc

"SATURN 6" MOBILEER

HOW
ABOUT
THIS

3.95



ECONOMY 1000 OHM PER VOLT
VEST POCKET MULTIMETER

AC Volts: 0-10-50-250-1000
 DC Volts: 0-10-50-250-1000
 DC Current: 0-100 DC MA
 Ohms: 0-150 K (3000
ohms center)

CDE



AR22
AUTOMATIC
CDR
ROTATOR
150 lb
TORQUE

29⁹⁵



ASTATIC
531 AM/SSB
REG. PRICE
12.75

6⁹⁹



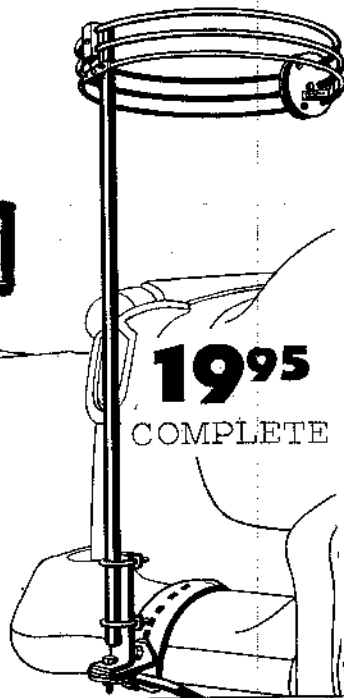
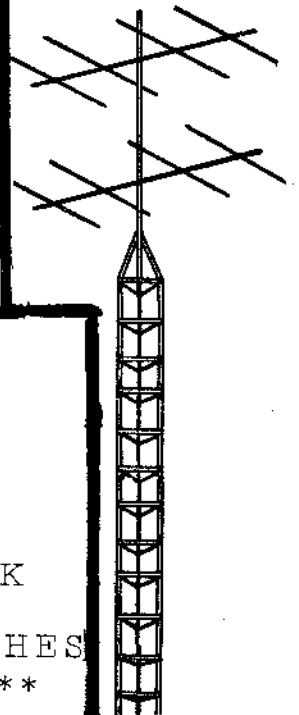
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we carry a complete
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HUSTLER

NEW-TRONICS MOBILE AND BASE STATION ANTENNAS

COMPLETE STOCK
AT ALL TIMES ///



19⁹⁵
COMPLETE



DOW-KEY

14⁹⁵
AND UP...

COMPLETE STOCK
RELAYS/CIOLS
TRANSFER SWITCHES
AT ALL TIMES****

HAMTRONICS

radio amateur

callbook

GET YOUR NEW
ISSUE NOW!



OPEN EVENINGS

MON.

THURS.

FRI.

SK75300

9 AM

TIL

9 PM

EL71400

TUES. WED.

SAT.

9 AM

TIL

6 PM

PACK RATS CHEESE BITS

8533 ALGON AVE.

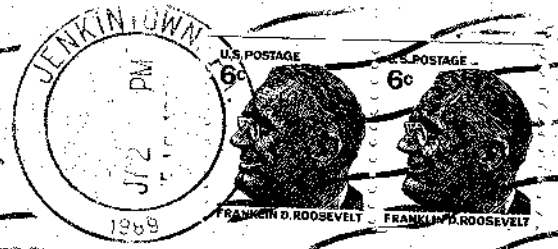
PHILA., PA. 19152



PACK RATS

MT. AIRY VHF RADIO CLUB, INC.

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



MEETING NOTICE

FIRST CLASS MAIL

"HAM" BUERGER, INC.
424 YORK ROAD
JENKINTOWN, PA. 19046

75S-3B, -3C Receivers

IN STOCK NOW!

COLLINS the most talked-about performance

NEW

STORE HOURS

MON.	9.30	-	5.30
TUE.	9.30	-	1.30
WED.	9.30	-	9.00
THU.	9.30	-	1.30
FRI.	9.30	-	5.30
SAT.	9.30	-	5.30

TU7-7350