

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)

AFFILIATED CLUB: AMERICAN RADIO RELAY LEAGUE

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

SOUTHAMPTON FREE LIBRARY, 947 E. STREET ROAD
SOUTHAMPTON, PENNSYLVANIA

VOLUME XVI

FEBRUARY 1974

NUMBER 2

THE PREZ SEZ

The tumult and the shouting died, the smoke and QRM vanished, and the January 1974 VHF Sweepstakes became history. "Crying Towel" reports have confirmed personal observations that Murphy's Law was not revoked for the occasion. A heavy coating of ice degraded antenna and rotator performance topside and "technical difficulties" persisted in many ham shacks below.

But the Pack Rats were much in evidence on all the VHF bands, and as usual, doing an outstanding job of piling up contest points. Preliminary tallies indicate that, despite an overall reduction in activity, this year's final club score will exceed last year's winning total.

Many thanks to each and every club member who participated in the contest this year. Like most of our club activities, our success in this event requires a group effort and all scores, large or small, are most important if we are to continue to fill the trophy cases. Special thanks to our contest chairman, K3ACR, and his committee for the excellent job they did in co-ordinating the club efforts. And special recognition to K2EVW, W3GEW, K3GOZ, WA3HIT, K3IUU and W3SAO for their yeoman efforts while under the weather.

The main event on the program for the general membership meeting on Feb. 21 is Home Brew Night (K1SFF/3 chairman). It is always interesting and informative (and sometimes inspirational) to see the diversity of items displayed and described at this meeting. Some items pertaining to 220 MHz FM will be included in this display this year. Bring a home brew item of your own to this meeting and invite your ham friends to join us for this one.

Dick, W3FQD

* * *

VISITORS AT THE JAN. 17, 1974 MEETING

WA3BKP - David Smith - New Hope, Pa.

WA3OVZ - Joe Trench, Levittown, Pa.

WA3MHF - Ed MacDonald, Malvern, Pa.

K3ZAC - Horace Carter, Doylestown, Pa.

CHANGE OF ADDRESS:

W3TMY - David F. Wintz
328 Arbor Road

- Lancaster, Pa. 17601

PACK RATS' CHEESE BITS IS A PUBLICATION OF THE MT. AIRY V.H.F. RADIO CLUB, INC. PHILADELPHIA, PA. AND IS PUBLISHED MONTHLY.

10¢ PER COPY \$1.00 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.

* * * * *

DEADLINE FOR ARTICLES IS THE GENERAL MEMBERSHIP MEETING.

SWAP SHOP ITEMS - NO CHARGE

EDITOR:

W3CL, HARRY B. STEIN
2087 PARKDALE AVENUE
GLENSIDE, PA. 19038
215 - TU 7-5052

PUBLISHER AND SUBSCRIPTION MANAGER:

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

PRINTER:

K3ZKO, RON COHEN
6629 NORTH 5TH STREET
PHILADELPHIA, PA. 19126
215 - 224-3036

TRUSTEE OF CLUB CALL: W3CCX

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

AWARDS CHAIRMAN:

W2EIF, JOSEPH KILGORE
#5 SUNNYBROOK COURT
STRATFORD, N.J. 08084
609 - 783-9478

TYPIST:

WA3TEM, MARSHA STEIN

OFFICERS: 1973-1974

PRESIDENT: W3FQD, DICK HUNTZINGER
VICE. PRES.: WA3AXV, RON WHITSEL
CORRES. SEC.: W3SAO, FRANCIS BRICK
REC. SEC.: WA3DJF, CARL MATTIACE
TREASURER: K3GAS, DOC CUTLER

DIRECTORS:

K3BPP, WALT BOHLMAN
K3KMN, GEORGE GAKOUMIS
W3YXF, JOE RUSHTON
WA3NGK, HARRY BROWN
K1SFF/3, TONY SOUZA

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

<u>MONDAY NIGHT NETS:</u>	<u>NET CONTROL</u>
145.2 - 7:30 P.M.	W2EIF
50.2 - 8:30 P.M.	W3CL/W3GEW
221.4 - 9:00 P.M.	K3GAS
432.03 - 9:30 P.M.	K3IUU
1296.3 - 10:00 P.M.	K1SFF/3

<u>FRIDAY NIGHT NET:</u>	<u>NET CONTROL</u>
439.250 ATV NET -	K3ZKO/WA3AXV
19:00 HRS.	

A 5

Amateur Television

Magazine

Be seen as well as heard



SUBSCRIPTIONS ONLY

\$2.50 A YEAR

P.O. Box 6512, Phila., Penna. 19138

CALENDAR OF COMING EVENTS
Syllabus by Lee, K3MXX

JANUARY

- 27 Sunday Afternoon - Space Net Open House, Mini Hamfest - QTH, WB2MTU, Tony, RFD #2, Sicklerville Road, Sicklerville, New Jersey
- 27 SIMULATED EMERGENCY TEST: Paul Rilling, WA3HTT acting Co-ordinator will handle traffic and messages, He will monitor 145.2 and 50.7 MHz. SET is a joint operation of the ARRL - CD and the American Red Cross. Whatever efforts you can add to this project is worthwhile. Additional details may be found on page 57 of December QST.

FEBRUARY

- 13 Board of Directors Meeting, QTH - W3FQD, Dick Huntzinger, 130 Fairhill Drive, Churchville, Pa. If lost, phone 357-2960. Directors and interested parties invited.
- 21 General Club Meeting - Southampton Free Library, Southampton, Pennsylvania.
HOME BREW NIGHT - Four Big Categories to enter:
1. Most ingeneous project
 2. Best craftsmanship
 3. Most expansive reproduction of commercial equipment
 4. Most miserable failure and heart ache project.
- Well, here is your chance to show off, whether you are a winner or a loser. Yes, there will be prizes for those hours of toil - whatever the outcome. Now don't be bashful. Bring in those projects that consumed so much blood, sweat and toil. It should be a most interesting night so bring along your friends and ham buddies. Refreshments will be served. SILENT AUCTION AND MARIO'S RAFFLE!

MARCH

- 9-10 WORLD WIDE VHF ACTIVITY CONTEST; Sponsored by the ITCHYKOO PARK VHF ARS. 3:00 P.M. local Saturday till 10:00 P.M. local Sunday. Exchange call, county and State. Club participation, see K3ACR, Rich, Chairman.
- 13 Board of Directors Meeting, QTH - K3BPP, Walt Bohlman. Dues are due and payable. Contact, DOC, K3GAS.
QSL Cards are available - Contact, Frankie, W3SAO.
K3KIY, John Tate is making preparations for LADIES NIGHT to be held in early May. Get those dancing shoes polished!
YAK BUTTER is the principal export of Tibet. Have you listened to any of the local repeaters lately?
Looking for Florida ontacts. Our own Papoo operates under the call of K4UV.

* * *
VHF REPORT
By Jo, W2EIF

The 2 and 6 meter bands have not shown much activity during the last month. It was gratifying to note that activity on 2 meters during the contest was very good, with SSB and CW at the low end of the band continuing right up to the end of the contest. A lot of sections were available particularly if using CW. I heard Ohio, W. Pa., W. Va., Ontario, Quebec as well as Maine and all Northeastern States except Vermont. K4JQU and W4VHH were both active from North Carolina. Pete, K1PXE who normally can be heard nitely 144 through 1296 MHz has registered for a programming course away from his home, and as a result will only be heard on weekends for a while. We will miss Pete as he has been very active up to this time.

73, Jo, W2EIF

NEW PRODUCTS OF INTEREST TO HAMS

By Lyn, W3NSI

1. EBC 144 2 METER T/R UNIT: Emergency Beacon Corp. expects to ship these new 2M AM FM MCW trans. receiver in February, 1974. It is fully synthesized for both receive and transmit from 143.5 to 148.5 in 5 Kc steps. A built in scanner covers the same range with adjustable speed and range of frequency. An LED display indicates either trans. or rec. frequency. This same display can be used to measure the PL tone of a repeater with this "private" feature. The built in PL tone generator can then be set to trigger the repeater. Touch tone pad is built in and slides out in a drawer-like holder when in use. With this pad it is possible to phone from your car through a repeater set up for such use. Company will send a six page write-up with picture to interested parties. Worth looking into if only to feel bad with what you are now using on 2M FM. (Size 4 x 8 x 10) Cost \$999. 15 River Street, New Rochelle, N.Y. 10801
2. ATLAS RADIO INC #180 SSB TRANSCEIVER: This solid state 4 band 190 PEP unit is just 3 1/2" high 9 1/2" wide and 8 1/2" deep. It covers all of the 160, 80, 40 and 20 meter bands and inc. CW operation. A built in speaker, S meter, calibrator, plug in circuit boards for easy servicing are among its interesting features. Cost \$479. 5580 El Camino Real, Carlsbad, Calif. 92008
3. CUSH CRAFT RINGO RANGER ANTENNA: Cushcraft now has a line of higher gain antennas for base stations that are actually an improved version of the Ringo, used by many of us for the past 4-5 years. Rated at 6.3 Db gain over a 1/4 wave whip, this antenna is available for 144, 220 and 432 Mc. A regular Ringo can be converted with an ARX-2X kit. Either way, you end up with 3 half waves in phase, connected with a 1/8 wave stub, making the whole assembly about twice the height of the normal Ringo antenna. Cost \$22.50 any band. Cov. Kit \$8.95. 621 Hayward Street, Manchester, N.H. 03103

* * *

NOTICE TO ALL CLUB MEMBERS

The Board of Directors on January 9, 1974, approved the following Amendment to the Constitution and By-Laws of the Mt. Airy V.H.F. Radio Club, Inc.:

ARTICLE III - Membership (As revised March 19, 1969)

Section 5. There shall be three grades of Membership:

- (a) Member - (wording unchanged)
- (b) Retired Member - (wording unchanged)
- (c) Student Member - A deserving teen-age male, at least 16 years of age, meeting all of the requirements for Member except for age shall be eligible for Student Member. He shall have performed outstanding service for the club in particular and amateur radio in general, the merit of the outstanding service to be determined by the Board of Directors. The Board of Directors shall approve the applicant and recommend him for Student Member to the membership where a majority vote at a regular meeting will elect. A Student Member will have all of the privileges of Member except he will have no voting privileges. A Student Member may apply for Member upon reaching the age of 18 years. He will apply as required under Article III, Section 1 of the By-Laws; Reinstatement.

This Amendment to be voted on at the regular meeting on February 21, 1974.

* * *

OFFICIAL BULLETIN NR 463 FROM ARRL HEADQUARTERS NEWINGTON CT JANUARY 14, 1974 TO ALL RADIO AMATEURS BT: FCC has simplified application procedure for repeater stations. Parameters of antenna height above average terrain and effective radiated power have been changed from application requirements to logging requirements, effective Jan. 23. Repeater station licensees will no longer be required to submit proposed changes to the Commission before making modifications to their stations, so far as these items are concerned. Supplementary showings are still required for remote control and auxiliary links. Appropriate forms can be obtained from ARRL headquarters for these purposes. A stamped, self-addressed envelope will speed up handling such requests. , AR

HOME BREW NITE, Tony, KLSFF/3

The Annual "show and tell" home brew project is scheduled for the February 21st meeting. We urge everyone to participate. Four prize categories have been defined. They are as follows:

1. Most Ingenious Project: Originality and ingenuity are the keynotes.
2. Best Craftsmanship: Beauty and workmanship will win this one.
3. Best Reproduction: Best workable copy of a financially unreachable device.
For instance; a \$3.00 copy of a commercial slow scan TV set.
4. Most Miserable Failure: "Gee, I went to all this trouble and it didn't work!"

Bring your home brew project or projects to the February meeting. We will all enjoy hearing about what you've been up to during the past year. We all have at least one project that would fit either the first or the last category.

* * *
6 METER REPORT BY RICH PATTISON, K3ACR

The passing of 1973 was hardly noticed on 6 meters. But the entrance of 1974 was something else again, with an opening that included almost every section of the country plus some VE's and lasted for 8 hours or more. This opening will probably be talked about for a long time and will be attributed to everything under the sun, including the comet which has been much less than predicted but still quite a sight with binoculars or small telescope.

Then came the big event of the year with the VHF Contest. Activity seemed to be good with the band opening to make things even better. Lots more activity on SSB than your author realized since this was the first contest with this capability. The ice seemed to hinder most stations. We found that working off the back of the antenna worked best.

The Crying Towel Meeting that followed the Contest revealed more than one station whose equipment went only part of the way. With awards for the stories connected with these somewhat descriptive episodes going to W3SA0 for the traditional "Crying Towel", W3ELX for the cup inscribed "For a story so bad, I think we've been had," W2EIF for the cup inscribed "For a story so funny, it's almost worth money".

The ice on our antennas seemed to be the most talked about subject, with letters also coming from W2AWX relating his lack of 432 contacts with club members and W1AIM with a Crying Towel story and saying next year he'll be on and operating from a brand new QTH 2000' above sea level in Vermont.

Six meter activity still needs some boosting and net participation is a good way to get some operating time throughout the week. Sunday mornings on SSB several nets on 50.175 at 9:30 and 11:00 and 50.150 at 10:00, also Tuesdays on 50.110 at 7:30. Get on and see how good the band can be. Besides we need some new blood in there.

Band openings continue to add to the interest in six meters and as the information gets passed on from other bands, lots of contacts can be made with old and new friends.

BCNU on Six

* * *

TID BITS

Condolences to Alan, W3OR from the Pack-Rats on the passing of his XYL Mae, affectionately known as "Backscatter".

K3MM, did a star appearance on Local TV in connection with the Christmas Messages Project at the local hospitals. You looked and sounded good, Lee.

There is a Pack-Rat known as "choo-choo" in certain circles.

Ernie, W3KKN, got a hot flash when he singed his shirt-tail the other evening. He then put out a request for a 2 amp variac - to control hot flashes Ernie?

Correction to Jan. Cheese-Bits article on "Simple PIV Diode Tester". In last sentence of article the percentage symbol should appear after numerals '80'. (Thanks to W2AXU)

JOINTINGS FROM THE SPACE NET

Result of the December 1973 nine day endurance contest as follows:

CLASS I (100-1000W)

1. WA2AAR - N.N.J.
2. KLSFF/3 - E.PA. (PACK-RAT)

CLASS II (25-100W)

1. WA3JNL - E.PA.
2. WA3JMM - E.PA. (MOBILE SIXERS)

CLASS III (5-25W)

1. WA3HOW - E.PA. (WARMINSTER)
2. WA2SFY - S.N.J.

CLASS IV (Flea Power "0"-5W)

1. K3ACR - E.PA. (PACK-RATS)

CLUB WINNERS -

1. Warminster A.R.C. -205,604 -WA3HOW
2. Mt. Airy V.H.F. R.C., Inc., 125,204
(PACK-RATS) - KLSFF/3

Congratulations to all the winners. Best wishes to Tony, WB2MTU who sponsors these FB events. A report on the "Minifest" held at Sicklerville will appear in our next issue.

Communication frequencies assigned to the U.S. Appolo / Space Shuttle and Rссия's Zoia are:

259.7 MHz
279.0 MHz
296.8 MHz

Correction to Space Net 1974 Schedule appearing in January, 1974
CHEESE BITS - "July 21 & 22" should read "July 20 & 21".

* * *

220 ACTIVITY By Doc, K3GAS

In the early 60's there were many stations on 220 MC. It was about the time that many club members purchased surplus R 48 receivers and converted them for AM reception. How many calls do you recognize.

W2AXU Trenton, N.J.
W2AOC Old Bridge, N.J.
W3AYG Lawndale
W3AJF Germantown
K3ACR Elkins Park
K3BMP Germantown
K3BPP Doylestown
W3CGV Wilmington, Del.
W3CL Glenside
W2EIF Camden, N.J.
W3CFS Phoenixville
W3GLI Berwyn
W2BAY Haddonfield, N.J.
W3FXB
W3HYJ Huntingdon Valley
W2HX Trenton
W3FOZ Hatboro
W3HXY Havertown
W3HKZ Bala
K3HWZ Feasterville
W2HQL Moorestown, N.J.

K3HHS Levittown
K3IUV N.E. Phila.
W3JSD Bethayres
W3HLX Easton
K3IUR Levittown
K3JJZ N.E. Phila.
W3KXH Frankford
W2KFC Haddonfield, N.J.
W3KKN Willow Grove
K3KVS Erlen
W3FTU
K3OBY Lawndale
W3MFY Trevoise
K3LBT Phila.
W3MVF N.E. Phila.
K3NCN Frankford
W3NSI Erlen
K2SMZ Oaklyn, N.J.
K3HSS Lawndale
W3SAO Phila.
W2SEU Freeport, N.Y.

K2TYW Gibbsboro, N.J.
K3CZI Valley Forge
K3ADS Villanova
W3UJG Maryland
W3TAM Trenton, N.J.

Of course, there were more, but these are the ones I worked at that point in time. With the new Pack Rat Repeater in operation, a tremendous surge is expected on the 220 band.

NOTE: Calls heard on the WR3ACD Pack-Rats 220 Repeater - W2AXU, WA3AXV, W2EIF, W3CL, W3FQD, W3NSI, W3ZD, K3IPM, WA3GAA, K3AWZ, K3VFI, WA3RYQ, W3DYR.

MT. AIRY V.H.F. RADIO CLUB, INC.



AD
MANAGER
K3MWM

ADS

<p>NE 7-832P</p> <p>GEORGE S. VAN DYKE, JR., P.E. CONSULTING ENGINEER</p> <p>W3HK</p> <p>4607 CONVENT LANE PHILA., PA. 19118</p>	<p>AMERICAN RADIO RELAY LEAGUE, Inc. HARRY A. MCCONAGHY, W3SW/W3EPC DIRECTOR, ATLANTIC DIVISION, ARRL</p> <p>"Comfy-Moc"</p>
<p>INTERNATIONAL</p> <p>PHIL THEIS Chgo. Div. General Manager KATIF</p> <p>ISC 3060 Hempfield Road Lancaster, Pennsylvania 17601</p> <p>TEL: (717) 290-3673 TELEX: 84-8408 CABLE: INTERSIG</p>	<p>(215) 707-5032</p> <p>W3CL</p> <p>HARRY B. STEIN ASSOCIATES COMMUNICATIONS CONSULTANTS</p> <p>HARRY B. STEIN</p> <p>2017 PARKDALE AVE. GLENSIDE, PA. 19038</p>
<p>ham radio the most interesting amateur magazine</p> <p>1 Year \$7.00, 3 Years \$24.00</p> <p>HAM RADIO MAGAZINE Spartan, N. H. 03048</p>	<p>A request from your AD Manager</p> <p>PATRONIZE OUR ADVERTISERS Tell them you saw their ad in CHEESEBITS, Leave your QSL card with them.</p> <p>CHEESEBITS is one of the best read local radio club papers. Circulation - 800</p> <p>73 magazine for radio amateurs PETERBOROUGH, NEW HAMPSHIRE 03458</p>

SWAP SHOP

WANTED: 3 tower sections, old fashioned 5 inch straight type 10 ft. long each section.

CONTACT: K2EWW, Phone 609-646-7388

FOR SALE: Techtronix 513D Scope, Good working condition, \$100.00.

Amperex 16mm sound projector and film good working condition, \$135.00.

CONTACT: K3GAS, Doc Cutler
Phone 215 - ME 5-1078

FOR SALE: Like new, Swan 250 C with power supply and Turner push-to-talk mike. Complete station \$450.00. Will ship.

CONTACT: Thomas Mathews (W3WIJ)
108 Pindo Palm West
Largo, Florida
phone 813-581-6437.

FOR SALE: Hwathkit Seneca - \$45.00

HQ 150 Receiver - .54 to 31.0 MHz - \$70

Yaesu-FLDX 400, FRDX 400 - \$525.

WANTED: Hustler - 4BTV Vertical Antenna

CONTACT: K3JFY, Bob Morris
Levittown, Pa. Phone 215-946-8786.

FOR SALE: Heath SSB Transmitter - HX10 (10 through 80) with mike. \$180.00.

CONTACT: Don, WN3ITV, Phone 215-924-8101.

FOR SALE: Hammarlund HX-50 Transmitter, 10-80M USB, LSB, AM, CW-PTT & VOX. Variable R.F. Drive for use with VHF Transverters. \$150.

Gonset-GSB101 linear amp. 10-80M. ALC output. Power supply converted to solid state allowing 2KW pep input \$175.00.

Will trade or sell- GE VC2 voice commander (control box not required) want series 2,3, or 4 Ham-M Rotator or \$60.00.

Andrew 8 ft. Dia. Dish - solid (no holes) aluminum, good f/d. Has steel rear supports for tower mounting and detachable 'X' band feed. Make offer.

CONTACT: Harry, WA3NGK, Phone 215-584-4846.

FOR SALE OR TRADE: 1 Pierpoint cam 2 pr camera (used); 1 CCTV squires-sanders SS-310 (nearly new).

1 - 25mm 1:1.4 lens (new); 1 Canon TV 16 zoom lens 25mm to 100mm 1:1.8 (new); Looking for an HT for two or 220.

CONTACT: Ralph Harisine, K3MPZ
1408 Wedgewood Road
Wilmington, Delaware 19805

BARRACKS TRADING POST



Camping • Electronics • Canvas
 ROUTE 38 at RUDDEROW AVENUE
 MAPLE SHADE, NEW JERSEY 08052
 HARVEY PRIMOST 662-6114

985-0358
 MAIN OFFICE

Communications Sales and Service Co.

GEORGE A. RYAN
 General Manager

23 WILLOW ROAD
 MAPLE SHADE, N. J. 08052



Scott's Surplus Electronics

134 E. Park Av. Merchantville, N.J. 08109

Division Of dab Associates Inc.

Pres: Scott Layman

609 - 666-2466



AMIL S. GUMJLA
 PRESIDENT

A. G. RADIO PARTS CO.
 939 TOWNSHIP LINE RD.
 ELKINS PARK, PENNA. 19117
 TELEPHONE: 215-896-5100



HALLICRAFTERS
 FACTORY AUTHORIZED
 SERVICE

BUS. (215) MI 6-2511
 RES. (215) 277-5883

ELECTRONIC EXCHANGE

ALL TYPES OF HAM GEAR & ELECTRONIC EQUIPMENT
 BOUGHT, SOLD, TRADED & REPAIRED

new & used

antennas

GORDON R. KITTEL
 K3AIG

511 E. WALNUT ST.
 (N. WALES RD.)
 NORTH WALES, PA. 19454

Dave Jones - W4OPLT
 Ben Schaefer - W4BATE
 Billie Dorey - W43CJG
 Suburbs: (215) 448-2908
 Phila. (215) 526-6120

KASS ELECTRONICS DISTRIBUTORS



DISTRIBUTORS OF
 RADIO - TELEVISION PRODUCTS
 INDUSTRIAL ELECTRONIC PARTS & EQUIPMENT

2502 TOWNSHIP LINE ROAD
 (West of Lansdowne Avenue)
 OREYEL HILL, PA. 19026



215 988-8148

O. E. MARTIN
 MANAGER

LAFAYETTE RADIO ELECTRONICS
 of Chester, Inc.

9185 GONITE AVENUE WYNCOTE, PA. 19095

215-674-0300



LAFAYETTE RADIO ELECTRONICS

"Associate Store"
 931 Easton Road
 Horsham, Pa. 19044



PARTS - TEST EQUIP

Ed Clark



215 732-0587

J. E. GOMBERG
 MANAGER

LAFAYETTE RADIO ELECTRONICS
 of Oxford Valley, Inc.

174 OXFORD VALLEY MALL LANGHORNS, PA. 19047

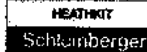


JE 3-4660
 4661

LEE A. COHEN

WIPING RAGS
 POLISHING CLOTHS
 COTTON & WOOLLEN WASTE

CLAYTON L. HADY & SON
 INCORPORATED
 4527-31 HEDGE STREET
 PHILADELPHIA, PA. 19124



ELECTRONIC CENTER
 SCHLUMBERGER PRODUCTS CORP.
 OVER 300 ELECTRONIC KITS

TED HALDIS
 MANAGER
 K3EPK

631B ROOSEVELT BLVD.
 PHILA., PA. 19149

TELEPHONE
 215 GU 8-Q180

W3CJU

DONALD KRAUT HAMPTON

Jeweler - Watchmaker

ROGER W. KRAUT
 31 W. State Street
 Doylestown, Penna.

Phone
 Box 348-4884
 Res. 348-8969

LQcust 7-7130

K3KTY

TRANSPORT EQUIPMENT COMPANY

"Everything for the Truck"

JOHN A. TATE
 PRESIDENT

8215 - 8217 RACE STREET
 PHILADELPHIA, PA. 19103

PATRONIZE OUR ADVERTISERS

Tell them you saw their Ad in

CHEESE - BITS



W3KKN

ERNEST KENAS

TOOL DESIGN
 MANUFACTURING ENGINEERING DEPARTMENT

THE BUDD COMPANY
 AUTOMOTIVE DIVISION

PHILADELPHIA, PA.

YAESU BUILDS TROUBLE

There is an ad in the December issue of QST that I was surprised to see in that magazine. It is for a Yaesu Transceiver that will work 160 meters through 10 meters including the Citizens Band. Now you can imagine what is going to happen when that outfit discovers that they can talk to each other on the ham bands when they get tired of that 260 watts on 11 meters. The fact that ham operators will not respond to them won't stop them from communicating with each other and besides it doesn't take too much intelligence to invent a ham call.

I am sure we should do something about the fact that such a rig is being made available but I don't know just what. Perhaps letters to dealers, or the manufacturers, perhaps a concerted effort to boycott these pieces of equipment, certainly a letter to the magazines protesting their acceptance of such advertising material. If this business of building amateur capability into a rig that will be purchased and used by CBers spreads to all manufacturers (and why won't it if it will make them some money) it will mean real trouble for the amateurs.

Bill, W9ERI

* * *

FROM JANUARY 1974 HAM-HUM

POLARIZATION

By Cecil DeWitt, W0RMB

I recently went to a ham conference and one of the speakers made the comment that "vertical to horizontal polarization would mean 3 DB loss under ideal conditions, but this was only under ideal conditions."

Sometimes, especially at higher frequency, this may not be true. Things getting in the way of the beams may change the polarization as well as other things it can do to the beams. This polarization bending or rotation can be caused by such simple things as dust, moisture, etc. in the air and, of course trees, buildings, power lines, an airplane, clouds, air layers or fronts, and many other unpredictable things.

This got me thinking and some very simple tests were made using a hand held receiver and a dipole. Near a transmitter there didn't seem to be much difference between polarization in a 180 degree rotation. But as the tests were made at different distances, polarization came into effect, not the original vertical polarization but maximum receive input for any one spot may be anything from 0 degrees to 90 degrees off. This makes me believe the antenna should be set both directions and polarization for maximum signal for any one station and one location.

Buildings are a good polarization rotation device in that a group of buildings will give rotation of a signal polarization 360 degrees or more and many times more than one polarization rotation may be at any one location.

How many times have you found dead spots where the signal is strong and a few feet or inches it may be 0 strength? This rotation of polarization may be what is happening. A signal with no rotation and another with up to 180 degrees rotation may be cancelling and the signal of reception may be anything from full signal for no rotation of polarization to 0 signal when 180 degrees of rotation is present.

This test we performed in Omaha and it showed what could be expected in the environmental test of a spread out city. One of the aspects of the test was a 40' x 28' building, metal lath with stucco construction. The building was located between the transmitter and the test receiver and by walking to the north or south, different polarization could be observed. There was found to be a signal null about 5 feet to the north of the center line of the building. This could be blamed to other buildings nearby or maybe the building not being parallel to the transmitter.

Many tests from other locations were made and many showed rotation of polarization effect. Some were clockwise, others were counterclockwise. There seemed to be no pattern as to cw or ccw, but a group of buildings could almost always cause some rotation of polarization, as well as trees, autos on streets, power lines (these we never knew what to expect) and other obstructions. A heavy fog did make a small change but not too much in a few checks that were made.

The conclusions I came to were:

1. For any one transmitter and one receiver, the best position was to rotate direction and rotate vertical/horizontal position to give the best signal. Cut and try.

(CONTINUED)

JANUARY 5 & 6, 1974 VHF SS
STATIONS SCORING OVER 5000 POINTS

K3IPM	46,761	K3GAS	10,668
W2EIF	27,234	W3AJF	10,400
K1SFF/3	27,160	W3CJU	10,000
W3ZD	25,568	W3FQD	9,944
W3KKN	24,360	WA3FOF	9,072
K1JDY/3	22,374	W3HK	8,568
K3ZSG	21,886	W3GEW	8,480
W3HFY	19,548	W2AXU	8,316
W3CL	18,000	WA2MWB/2	7,968
WA3DNC/3	17,416	K3KTY	7,524
K3IUV	16,281	K3DMA	7,500
K3ACR	16,275	WA3AQA	7,072
K3BPP	15,848	K2EVW	6,670
K3KMN	15,834	WA3JUF/3	6,560
K3JJZ	13,222	K3IGX	6,592
K3EOD	13,075	K3MXM	6,272
WA3AXV	12,500	W3CCX	6,048
WA3PUL	11,730	WA3OVH	5,920
WA3NGK	11,270		

The following members participated in the final recap at W3ZD QTH January 19, 1974: K3ACR, W2AXU, WA3AXV, W3CL, K3DMA, W2EIF, W3FQD, WA3HIT, K3IGX, K3IPM, K1JDY/3, WA3JUF/3, W3KKN, K3KMN, WA2MWB/2, WA3PUL, K1SFF/3, W3ZD, K3ZSG, WB2SZK

* * *

POLARIZATION CONT'd

2. For any one antenna (fixed location, directional, changeable antenna) it is best to watch the polarization plane of the transmitters that will be received.
 3. Polarization is usually the same, or nearly so, but not always. But more often than not, nearly the same polarization between the transmitters and receivers gives the better results.
 4. No one can predict what is going to be until you put the antenna in the location where it will be used.
 5. To put up an antenna it is a matter of what you can do on the supports and luck. This is the most important as obstructions get in the way.
- Of course with all this nice talk, 3 DB is what the books say. BUT what happens is something different!! * * *

FROM JANUARY 16, 1974 HR REPORT

SAROC A VERY GOOD SHOW despite weather, sour predictions. 8" snow in Las Vegas closed airport, snarled traffic and sure looked strange on palm trees! Over 20" fell in mountains, closing passes...but people came anyway, fighting through drifts with tire chains, dog sleds. Exhibit area never slow, with many exhibitors reporting record sales. Various sessions all well attended (Prose Walker's was SRO). 800+ replies to pre-show registrants poll showed 200 would be at their first SAROC while over 50% had attended three or more!

CONGRATULATIONS to the new Officers of the Philadelphia Area Repeater Association) (PARA)

President - W3DYQ Corresponding Secretary - WA3TSW
Vice-President - W3GJC Treasurer - WA3GAA
Recording Secretary - WA3TEM

The following was received from the ARRL: Thanks for your interest in the inaccurate response "Dear Abby" gave readers on amateur interference. The League's Public Relations Department analyzed the column and wrote to Mrs. Van Buren, as did many individual hams from around the country. The column jumped to several erroneous conclusions. On the other hand, the general tone was not anti-ham. Our response was prepared with both of these facts in mind. We hope that a correction will appear in an early column as a result of our (and your) efforts.

David Summer, K1ZWD
Public Relations Department

THE AMERICAN RADIO RELAY LEAGUE, INC.

ADMINISTRATIVE HEADQUARTERS NEWINGTON, CONNECTICUT, U. S. A. 06111

January 21, 1974

QST
OFFICIAL ORGAN

ARRL BOARD MEETING HIGHLIGHTS

ARRL OBS: If transmission of this bulletin runs over ten minutes, don't forget to identify. Make extra transmissions if you can, because of the importance of this information. Thanks -- 73, W1NJM

OFFICIAL BULLETIN NR 464 FROM ARRL HEADQUARTERS
NEWINGTON CT JANUARY 18 1974 TO ALL RADIO AMATEURS BT

THE ARRL BOARD OF DIRECTORS IN ANNUAL MEETING JANUARY 17 AND 18 UNANIMOUSLY VOTED TO CONTINUE STRONG OPPOSITION TO PROPOSALS OF THE FEDERAL COMMUNICATIONS COMMISSION AND OTHER AGENCIES AND GROUPS TO USE PRESENTLY ALLOCATED AMATEUR BANDS FOR NON-AMATEUR PURPOSES. AN EXPANDED OFFICE FACILITY IN WASHINGTON PLUS A PERIODIC ARRL NEWSLETTER WILL BE DIRECTED TO FEDERAL AGENCIES AND OFFICIALS. THE BOARD THANKED FCC FOR ITS RECENT RELAXATION OF REPEATER APPLICATION PROCEDURES AND VOTED TO CONTINUE SEEKING EASING REPEATER RULES. NEW ARRL FIRST VICE PRESIDENT IS W4KFC, WITH VE3CJ AND WØBJJ AS NEW ADDITIONAL VICE PRESIDENTS. W4ACY THUS BECOMES DIRECTOR FROM THE ROANOKE DIVISION AND VE2MS DIRECTOR FROM CANADA. VE3CJ IS NOMINATED AS PRESIDENT OF THE INTERNATIONAL AMATEUR RADIO UNION. NEW MEMBERS OF ARRL EXECUTIVE COMMITTEE ARE W4WHI AND W5EYB. ELECTED AS DIRECTORS OF THE NEW ARRL FOUNDATION WERE W1MBK, W1QV, WA4GFY, W4DQD, W6KG, W6ZRJ, W8ETU, WØBB AND WØPAN. CLUB AFFILIATION RULES WERE EXPANDED TO INCLUDE OTHER NATIONAL OR LARGE AREA AMATEUR SOCIETIES AND COUNCILS AS WELL AS YOUTH GROUPS SUCH AS BOY SCOUTS. PUBLIC RELATIONS ASSISTANTS WILL BE NAMED IN EACH DIVISION BY DIRECTORS. FINANCIAL SUPPORT OF AMSAT WAS CONTINUED PENDING EVENTUAL FUNDING BY THE FOUNDATION. THE TECHNICAL MERIT AWARD WENT TO LARRY KAYSER VE3QB FOR OUTSTANDING PERFORMANCE IN CONTROL OF OSCAR 6. MORE TECHNICAL ARTICLES WILL APPEAR IN QST, PAPER AVAILABILITY PERMITTING. THE 1977 NATIONAL CONVENTION WILL BE HELD IN TORONTO. DXCC PINS WILL BE MADE AVAILABLE TO MEMBERS AT COST. COMMITTEE STUDIES WERE ORDERED OF TECHNICIAN PRIVILEGES, EMERGENCY COMMUNICATIONS PAMPHLETS, RULE 9 OF DXCC, QSL BUREAU PROCEDURES, 6-METER REPEATER INTERFERENCE, DIRECTOR ELECTION PROCEDURES, AMATEUR PARTICIPATION IN THE SISTER CITY INTERNATIONAL PROGRAM, AND A HQ REFERENCE LIBRARY. MINUTES OF THE MEETING WILL APPEAR IN MARCH QST. AR

MT. AIRY V.H.F. RADIO CLUB, INC.

Philadelphia, Pennsylvania

February 1, 1974

Gentlemen:

The first organizational meeting of the Bicentennial Amateur Radio Convention Committee is scheduled for March 19, 1974.

Tuesday evening 7:00 PM Casa Conti Jenkintown & Easton Rds.

Glenside, Penna. Dinner and open Bar with nominal charge with

Business Meeting to Commence at 8:00 PM.

Dinner attendance optional.

It is important for each club to send a delegate to this meeting prepared to nominate members to the board of directors of BARCC. It is hoped that regional directors may be elected to serve the geographic area of his or her club, with each regional director taking on the responsibility for the activities of several committee members from the area.

Business meeting will open with a general discussion of the various facets of the operation of a convention. All ideas opinions and viewpoints will be heard. Now is the time to get on the record and join the team.

It is recognized that all clubs who have expressed interest in BARCC have not responded to the original letter at this time, but it is necessary to put out this notice before the stated deadline. Please be advised that failure to respond to either notice will result in the removal of the club name from the list until further interest is expressed.

Please indicate your pleasure by means of the enclosed postcard as soon as possible. Do it now before you forget!!!

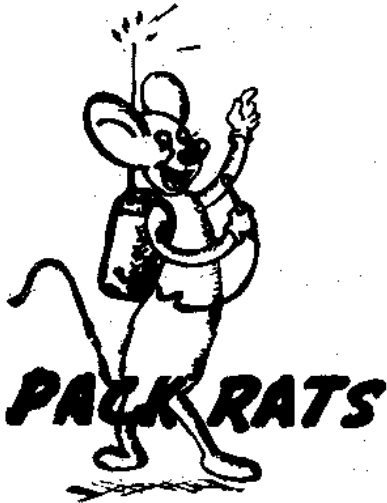
CONTACT ME FOR MORE INFO OR DIRECTIONS.

Phone 215-675-4539

73

David R. Zimmerman W3Z
520 Centennial Road
Warminster, Pa. 18974

Cheese Bits
2087 Parkdale Ave.
Glenside, Pa. 19038



W3FQD Dick Huntzinger
130 Fairhill Drive
Churchville, Pa. 18966

MT. AIRY VHF RADIO CLUB, INC.

FIRST CLASS

MEETING NOTICE

AMATEUR RADIO EQUIPMENT

STORE HOURS

"Ham" Buerger, Inc.

88 N YORK ROAD, WILLOW GROVE, PENN. 19080
(215) OL 9-6900

Mon. 9:30 to 5:30
Tue. 9:30 to 5:30
Wed. 9:30 to 9:00
Thur 9:30 to 5:30
Fri. 9:30 to 5:30
Sat. 9:30 to 5:30