

PACK RATS'



PACK RATS

CLUB CALL: W3CCX

MT. AIRY VHF RADIO CLUB, INC.

CHEESE BITS



MT. AIRY VHF RADIO CLUB, INC., PHILADELPHIA, PA. ARNS
50.2, 145.2, 432.03, 1296.03, Repeater, WR3ACD - 222.98/224.58 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 18966

VOLUME XIX

JULY 1977

NUMBER 7

THE PREZ SEZ

It is with great pride that I begin my tenure as your Club President. Outgoing President, Lee, K3MXM has left office with the club in excellent health in all aspects. The club's activities continue at a very high level with a sound treasury to support those activities. Thank you, Lee, for an outstanding year which saw our club gain international recognition while continuing national prominence in amateur VHF activities.

Kudos to our June Contest Chairman, Bill, W3HQT for the best Pack Rat effort ever! Never in my recollection has the club's June Contest effort gone so smoothly and been staffed with such superb operators. The score will probably exceed last year's which was the top score in the nation. We may have won another championship.

A special thanks to Harry, W3IIT, who ably assisted by Ron, WA3AXV provided the equipment and expertise for tuning up all those FM transceivers at the June meeting. With such high class gear they were able to get even "Herm the Germ" (K3GOZ) on frequency.

The Hamarama committee has openings for a couple more speakers for the Saturday VHF conference to be held for the first time this year in conjunction with the traditional Hamarama Sunday Flea Market. If you have any ideas for speakers or subjects you would like to hear, pass the word on to the Hamarama Committee.

Six meters is going great guns what with coast-to-coast E skip plus KH6 and JA coming through along with special Dxpedititions to 6Y5, C6A, etc. Turn on, tune in, freak out! Six meters is doing its summer thing.

73, Tony, W3HMU

* * *

Visitors at the June 16th Meeting:

WB2RBG, Howard Sherer, North Wales, Pa.
WA3TNE, Skip Neff, Wynnewood, Pa.
WB3EFO, Ed Lee, Huntingdon Valley, Pa.

Application for Membership:

WB2RBG/3, Howard Sherer
P.O. Box 1172
North Wales, Pa. 19454

Dropped from Membership:

W3ISV, WALKIR, and K3WGJ.

Hilltown '77 pictures in this issue taken by Bill, W3HQT; Earl, WA3ZRE. Processed by Dick, K3IGX. Prints by Ron, K3ZKO. Many thanks.

Pack Rats CHEESE BITS is a publication of THE MT. AIRY VHF RADIO CLUB, INC. Philadelphia, Pa. and is published monthly.

Subscription Rate - \$1.50 per year.

We operate on an exchange basis with other publications. Anything that is printed in CHEESE BITS may be reprinted, unless otherwise stated, provided that proper credit is given

SWAP SHOP ITEMS - no charge.

DEADLINE FOR ARTICLES IS THE GENERAL MEMBERSHIP MEETING.

EDITOR:

W3CL, Harry B. Stein
2087 Parkdale Avenue
Glenside, Pa. 19038
215 - TU 7-5052

PUBLISHER/SUBSCRIPTION MANAGER:

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

PRINTER:

K3IGX, Richard Boyle
7915 Bayard Street
Philadelphia, Pa. 19150
215 - 927-6471

PRINTERS DEVIL:

WA3FOF, Ralph Alexander

TYPIST:

WA3TEM, Marsha Lissauer

TRUSTEE OF CLUB CALLS: W3CCX-WR3ACD

WA3AXV, Ronald Whitsel
209 Frog Hollow Road
Churchville, Pa. 18966
215 - 355-5730

AWARDS CHAIRMAN:

W2EIF, Joseph Kilgore
#5 Sunnybrook Court
Stratford, N.J. 08084
609 - 783-9478

CLUB HISTORIAN:

W3CL, Harry B. Stein

OFFICERS: 1977 - 1978

PRESIDENT: W3HMU, Tony Souza
VICE-PRES: W3HQT, Bill Olson
COR. SECY: W3IIT, Harry Brown
REC. SECY: WA3NFV, Dan Mitten
TREASURER: K3GAS, Doc Cutler

DIRECTORS:

K3MXM, Lee A. Cohen (Ex-Officio)
K3MWV, Dick Pierce (2 years)
WB2SZK, Randy Bynum (2 years)
K3IGX, Dick Boyle (1 year)
K3JJZ, El Weisman (1 year)

MONDAY NIGHT NETS:

145.2 MHZ 7:30 PM
50.2 MHZ 8:30 PM
221.4/224.58 MHZ 9:00 PM
432.03 MHZ 9:30 PM
1296.3 MHZ 10:00 PM

NET CONTROL

W2EIF
W3CL
K3GAS
K3IUV
W2EIF

FRIDAY NIGHT ATV NET:

439.25 MHZ 7:00 PM

NET CONTROL

WA3AXV

PACK RAT REPEATER - WR3ACD - 222.98/224.58
Churchville, Pa.

215-674-0300



LAFAYETTE RADIO ELECTRONICS
"Associate Store"
531 Easton Road
Horsham, Pa. 19044



Paul Hamilton, Bruce Clark



PENNSYLVANIA
INSTITUTE OF TECHNOLOGY

PAUL D. MERCADO - W3FBF

FCC AMATEUR Instructor COMMERCIAL
LICENSE INSTRUCTION

(215) FL 2-7100
(215) JA 8-6998

414 SANSOM STREET
UPPER DARBY, PA. 19082

HIGH VOLTAGE
MUSIC FOR ALL OCCASIONS
PI 2 3525 PI 5 6785

CALENDAR OF COMING EVENTS
Syllabus by Lee, K3MXM

JULY

- From the Latin mensis Julius - inserted into the calendar by Julius Ceasar
- 2-3 QRP - Summer Contest
- 3 Dog Days begin
- 4 Independence Day
- 4 Harrisburg Amateur Radio Club Hamfest - Indian Echo Caverns - located between Hershey and Harrisburg, Pa. Just off Rts. 422-322. Free tailgate space!!
- 4 ARRL - Straight Key Night
- 9-10 Tidewater Hamfest -ARRL Roanoke Division Convention. Info- Tidewater Radio Conventions , Box 9371, Norfolk, Va. 23505 A real good two day hamfest - all indoors - good programs - speakers.
- 14 Board of Directors Meeting - QTH, WA3YUE, Bruce Loss, 3747 Warfield Dr. Huntingdon Valley, Pa. If lost, call 947-7312.
- 15 St. Swithins Day
- 16 Two River ARC Hamfest E. McKeesport, Pa.
- 17 Tri-State Hamfest, Allentown Police Academy, Allentown, Pa. Talk in 34/94 and .52
- 16-17 Apollo 11 - 8th Anniversary Contest, info, Monday Nite Nets and K4AWS (Details in this issue of Cheese Bits)
- 16-17 10/10 Summer QSO Party. You fellows that like contests have your pick of either VHF bands or 10 meters.
- 21 General Club Meeting - First Outdoor Meeting of the Year. 8:00 P.M.
Auction at Zimmermans Gulch: Both a White Elephant Sale and Regular Auction. Here is your chance to clean out the cellar. Some items you may wish to donate to the Club. Others you might want to gander a wee bit of green. For those who don't know Zimmermans Gulch, it is the spacious back acreage of Dave Zimmerman W3ZD, 520 Centennial Rd., Warminster, Pa. It is easy to find - just one block south of Street Road and Centennial Road. Plenty of free parking space. Refreshments, of course!! Open to all Club members, their friends and especially other Club members and visiting Hams..
- 29,30,31 Sea-Q-DX Convention QCWA, Seattle, Washington.
- 31 Friends of WR3ABE, Picnic. Bring food and family, Fort Washington State Park, Flourtown, Pa. Fun starts at Noon.

AUGUST

- 14 Pack Rat Picnic. FT. WASHINGTON STATE PARK, FLOURTOWN, PA.
Joe Rushton, W3YXF, Chairman
- 25,26,27 For you computer buffs - Boston Computermania - Boston Commonwealth Pier

ARRL now boast of 150,000 members of which over 120,000 are licensed Amateurs.

NEW PRODUCTS OF INTEREST TO HAMS

By Lyn, W3NSI

1. VHF ANTENNA TUNERS: Leader Instruments Corp. is selling antenna couplers with built in SWR meters for 50 Mhz and 144 Mhz. Both models include in-line direct reading watt meters with three ranges, 5, 20, and 100 watts. SWR measurements can be made with as little as 1 watt of power from the transmitter. Insertion loss is less than 1/2 DB on either model. Load impedance range on the output is from 10-200 ohms on 50 Mhz and 10-250 ohms on the 144 Mhz unit. Price \$69.95. LAC 896 50Mhz, LAC 897 144 Mhz, 151 Dupont St., Plainview, N.Y. 11803
2. AM/FM ANALYZER: Amateur Wholesale Electronics is acting as sales agent for the Sigma Model AF 250L analyzer. Frequency range is 1.8 Mhz to 520 Mhz. Internal tuned ranges are 26.5 Mhz, 40 Mhz, 48 Mhz, 60 Mhz, and 140 Mhz, 156 Mhz, covering the amateur 10,6 and 2 meter bands. By using an external signal generator, it is possible to cover the rest of the frequencies from 1.8-520 Mhz. Input level from the transmitter is 1-200 watts, through the tester to the antenna. AM modulation can be read from 0-100% while FM Dev. can be read from 0-20 Khz. Unit operates from 117 VAC. Unit is very compact, measuring 5 1/2" high, 10 1/4" wide, and 7 1/4" deep. Weight is listed at 7 pounds. Price \$199. 8817 SW 129th Terrace, Miami, Florida 33176

* * *

VHF/UHF REPORT

By Jo, W2EIF

The six meter band has been open since the 1st week in May and was open for a good part of the June VHF Contest at least to the Epa. and S.N.J. areas. Some good scores no doubt will result. The E skip season is in full swing and it has been noticed on 2 meters also. Many are heard calling "CQ E skip" on 2 meters and from all reports some contacts have been made from the N.E. to the South and Midwest.

There was a surprizing amount of activity on 220 Mhz during the Contest particularly on the 223.5 simplex. This was reported by Dave, WA3JUF who operates the 220 station for W3CCX/3 which is the Mt. Airy VHF Radio Club station.

There was lots of activity on 432 also, and a surprizingly large number of SSB stations. However, CW seems to remain the primary means of making contacts for sections on all bands except 6 meters during the Contest. Don't forget to look for E skip on 2 meters in June, July and August.

* * *

NORTHEAST VHF NEWS May-June, 1977

News from Great Britian: European amateurs have abandoned hope of obtaining an allocation around 220 Mhz at the 1979 World Administrative Radio Conference although the RSGB and some other European societies are continuing to press for a small allocation at 50Mhz... CT2BB in the Azores has heard both British and American 144Mhz amateurs during Speradic E openings and may soon provide a beacon signal on 144.1 Mhz... It is also hoped that 50 Mhz beacons may be established at Lannion, France and also in Gibraltar.

W1LWVK has new call and QTH; Jim Kearman of the ARRL staff writes: New call is W1XZ, address is RFD, Collinsville, Ct. 06022 (former W1SL QTH). I'm HQ liason for the VHF/UHF Advisory Committee (VUAC). I'm only on 144 and 432 now; 1296 is a hot priority with me- hopefully leading to 23 cm. EME.

AMSAT News de K1HTV: Things are progressing well with AMSAT-OSCAR-D, with a scheduled 4th quarter 1977 launch. The HMASAT mode-J transponder is presently undergoing burnin tests in Washington with approximately four watts output. A-0-6 has been showing signs of loosing more Nicad cells in the lower half of the 1.8 cell battery. Worst sun angles occur during the month of June and the results of this are already being noticed via telemetry reports. More of the normally ON scheduled ascending node orbits may have to be deleted because of the poor condition of the battery. Descending node orbits are no longer available for normal use but the scheduled educational demonstration bulleting will continue on the even days of the year during weekdays. A-0-7 continues to work fine business.

1977 JUNE VHF QSO PARTY REPORT

By Bill W3HQT

Well, once again, the June Contest is over and all the towers, antennas tents, kilowatt and junk have made it back to their respective homes to be brought out next year when the whole thing starts all over again. This year at the Hilltown site we had a terrific group of operators and helpers and top-noted stations on all the VHF & UHF bands through 10 Ghz. Even with the new contest rules in effect, putting a damper on 2 meter FM activity, the Pack Rats managed to top last years' score, mainly due to a super, all-weekend band opening on 6 meters and just class efforts on all the other VHF bands. Here's the picture:

6 meters, headed again this year by Ron, WA3AXV and a host of top notch ops including WA1NGR, WA3YUE, WA3NUF, WA1YHO, K3MWV and K3ZSG, enjoyed nice E skip conditions to most of the country, working 42 states, a couple provinces and 56 sections during the contest period. The new 9 element long, yagi a'la WA3AXV, turned up minutes before the contest performed flawlessly.

2 meters, despite the loss of the chief "Jamming" frequency, 146.52, managed 75 contacts on .55 and .58 due to the persistent efforts of Earl, WA3ZRE. On the low end Richard, K2EVW; Johnny, W3CXU; and yours truly, W3HQT kept the band warm with a new 5CX1500A amplifier (optimized minutes before the contest). Many contacts were made this year on 145 Mhz SSB and the increased number of "rice-boxes" on the band had a pronounced effect on 2 meter contest activity.

220, headed by good-buddy Dave, WA3JUF, had a better than ever year with over a hundred contacts on 223.5 Mhz simplex. Once again, W2EIF's wooden Yagis performed extremely well with 15 sections ranging from Ohio to Virginia to New Hampshire appearing in the 220 log. Dave's new 220 sideband rig (his second generation 220 SSB rig worked perfectly all weekend).

On 432, headman, Tony, W3HMU had the HK1TL amplifier on excited by the quadruple conversion, double balanced, super whammy W3HMU sideband box. Results were better than ever with 20 sections logged by Tony and assisted ops Bert, K3IUV and Mario W3ELX. Especially notable was the eleventh hour Rhode Island contact with KLABR who kindly got out of bed to give the Pack Rats the contact and new section. The Pack Rat good-guy award certainly goes to Dick this year for getting on.

The 1296 on up band was headed again by K3BPP, Walt and once again the 12 foot dish went up without a hic. The 1296 station, readied minutes after the start of the contest, performed flawlessly, with 5 sections worked and two more heard but not worked probably due to the fact that the WA3NFV "1296 slider" didn't get optimized at all! Once again, W3HMU was 30 over nine on 2304 but still no go with K2RIW in Long Island. One of these days we'll make it. The microwave equipment again provided multipliers on the 3,5 and 10 Ghz bands. Three contacts may not seem like much when you consider the weight of all the required gear, but those three multipliers sure look good near the end of the contest!

Many thanks to all who helped and who got on the air to provide contacts to the W3CCX/3 group. Although the final tabulations are not in, a rough check of the logs puts us well over last year's score of 144K. And plans are already in the making to make next year's operation even more successful. See you in June 78!

Club Members who came out to help as follows:

W3AJF, WA3AXV and family, K3BPP, W3CIL, W3CJU and XYL Virginia, W3CL and XYL Sylvia, W3CLT, W3CXU, K3DLS, W2EIF, W3ELX, K3EOD, K2EVW, WA3FOF, K3GAS, K3GOZ, W3HMU and family, W3HQT, K3IGX, W3IIT and family, K3IUV, WA3JUF, W3KKN, K3MWV, K3MXM, WA3NFV and XYL Lucy, WA1NGR, WA3NUF, W3SMK, WB2SZK, K3VYG, WA1YHO, WA3YUE, W3YXF, W3ZD and XYL Jane (WB3DSK), WA3ZRE and K3ZSG.

* * *

TID BITS

Susie, XYL W2EIF back home from hospital. Please stay well.

A streamlined Lloyd Schoenig, WA2KOL showed up at the June meeting after a long absence. Looking good OM.

Congratulations to Muriel and Dick Boyle (K3IGX) becoming grandparents once again.

Earl, WA3ZRE passed his extra on June 21st. His kid brother Joey got his Novice ticket recently (WB3IHY). How about Mom and Pop now!

A couple of "Ham Buerger" lads got their tickets recently: Dave Ettinger, WB3GXP and Jeff Landes, WB3HOF.



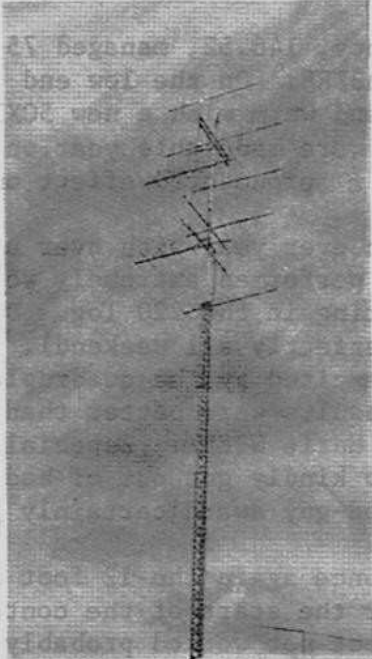
CONCENTRATION



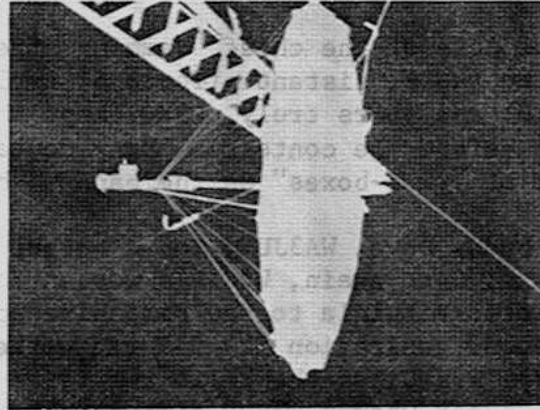
TIMBER



YEAH, I GOT HIM

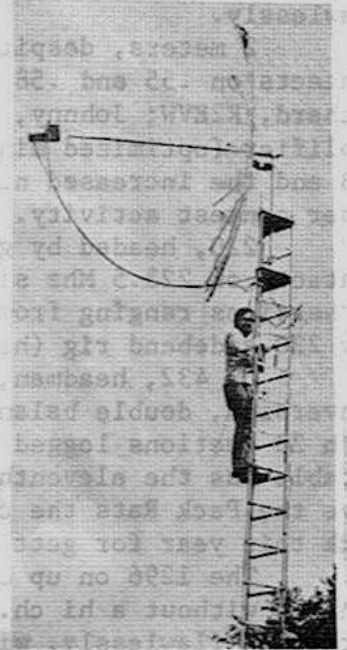


A BLEARY SKY



THE DISH

HILLTOWN '77



THAT'LL DO IT



I'LL JUST MOVE IT A BIT MORE



WONDER WHO THAT IS



IS THIS WHY COFFEE IS SO EXPENSIVE



WE GOT HIM



DARN FOOT SWITCH

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



AD
MANAGER
K3MMX

ADS

A request from your AD Manager

PATRONIZE OUR ADVERTISERS
Tell them you saw their ad in
CHEESEBITS. Leave your QSL card
with them.

CHEESEBITS is one of the best
read local radio club papers.
Circulation - 300

B.B.C
ELECTRONICS COMPANY, INC.
"ONE OF THE FINEST NAMES IN THE INDUSTRY"

SPECIALISTS IN

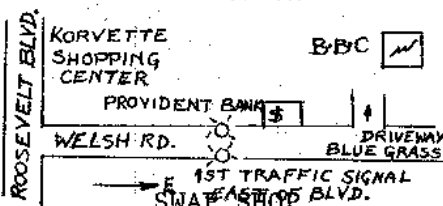
High power RF transistor components
CMOS integrated circuits and
associated components.
A complete line of amateur HF and VHF
equipment including the best names in
the business.
Liberal discounts to licensed amateurs
has been, and still is, our policy.

TRADE-INS ACCEPTED

FOR ALL YOUR AMATEUR NEEDS
WRITE - CALL - OR COME IN

B.B.C

Blue Grass Plaza
2417 Welsh Road
Phila., Pa. 19114
Phone 215-464-1880



AMERICAN RADIO RELAY LEAGUE
HARRY A. McCONAGHY, W3SW/W3EPC
DIRECTOR, ATLANTIC DIVISION

8708 FENWAY DRIVE - POTOMAC
BETHESDA, MARYLAND, 20034

(215) 707-3024

W3CL

HARRY B. STEIN ASSOCIATES

COMMUNICATIONS CONSULTANTS

HARRY B. STEIN

2087 PARKDALE AVE.
GLENDE, PA. 19038

NE 7-8329

GEORGE S. VAN DYKE, JR., P.E.
CONSULTING ENGINEER

W3HK

4607 CONVENT LANE
PHILA., PA. 19114

FOR SALE: Swan 250 C, 117XC, TV2B, VFO210
and NS-1. Like new with manuals, \$650.00

WANTED: HA-2 Hallicrafter Transverter
less Power supply.

CONTACT: Tony, K4AWS, Box 15
Sumterville, Fla. 33585
Phone: 904-793-5202

FOR SALE: Navy ART-13 with Pwr Supply. Mfd.
by Collins. Includes connector cables and
remote control function and 12 preset freqs.
from 500 Khz. to 1.8 Mhz. VFO control or
"Autotune". 500 Watts input.

CONTACT: Carl Croce, K3DLS on 215-424-6818.

FROM HR REPORT: BBC ELECTRONICS in Phila. is
bankrupt, and any Amateur having a claim against
the Amateur-equipment distributor should file it
with Judge King, Bankruptcy Ct., Eastern Dist. of
Pa. 3726 U.S. Ct. House, 601 Mkt. St., Phila., Pa.
19106. In a bulletin from ARRL, Dick Baldwin
noted a number of League members have complained
of checks cashed but merchandise not delivered.
QSO and Ham Radio both dropped BBC advertising
some months ago, but the just-out June 73 has a
full-page BBC ad. At press time BBC is reported
to still be open for walk-in business.

The clubs second transmitter hunt on 220 Mhz the evening of Thursday June 23rd was another fun
event. Four of the five crews arrived at the the industrial park site on Blair Mill Rd. in
Hersham, Pa. almost simultaneously in less than 20 minutes. However, greybeard Horace Deacon,
W3AJF with his hand-held superegen. ears, and portable antenna was the first to sniff out the
"fox" (WA3YUE reclining on the front seat of a nondescript car). Crews headed up by W3HMU and
WA3AXV tied for second place and Wa#JUF crew; third. K3MMX and company just missed, coming in
after the 8:30PM daedline. Everyone retired to a doughnuts and ice-cream place on Rte 611 for
a curbstone minifest and story swapping session. During the hunt we were under surveillance at
times by three local township police crews. One anxious CBER wondered if we were from the FCC.
Told that this was a Ham Radio event, he went merrily on his way. The hunters and crews.....
W3AJF, W3CIL, W3SMK - W3HMU, David, Peter and Jan - WA3AXV, K3MWV - WA3JUF, W3CL - K3MMX, K3GAS
K3IGX.

Come out and hunt again on Thursday evening July 28th from 7 to 8:30 PM. Starting point, the
Warminster Shopping Center Lot, N.W. Cor. York and Street Rds., Hatboro, Pa. Freq. 224.58 Mhz

CU there de W3CL



BARRACKS TRADING POST

Camping • Electronics • Canvas

RT. 39 AT RUDDEROW AVE.
MAPLE SHADE, N. J. 08052

HARVEY PRIMOST
609-662-6114



ELECTRONIC CENTER
SCHLUMBERGER PRODUCTS CORP.
OVER 300 ELECTRONIC KITS

TED HALDIS
MANAGER
K3EPK

6318 ROOSEVELT BLVD.
PHILA., PA. 19149

TELEPHONE
215 GU 9-0180



Scott's
Surplus
Electronics

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

Division Of dab Associates Inc.

Pres: Scott Layman

609-665-2466



AMIL S. GUMULA
PRESIDENT

A. G. RADIO PARTS CO.
939 TOWNSHIP LINE RD.
ELKINS PARK, PENNA. 19117
TELEPHONE: 215-888-5100

Authorized
Distributor

HOURS
CLOSED MONDAY
TUE. & THUR. 9:20-5:00
WED. & FRI. 11:30-9:00
SAT. 9:30-5:00

(215) 723-1200
(215) MI 6-2511

ELECTRONIC EXCHANGE

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

GORDON R. KITTEL
K3AIG

136 N. MAIN STREET
SOUDERTON, PA. 18964

AMATEUR & CB RADIO
SALES & SERVICE

(215) OL 9-5900

"HAM" BUERGER INC.
Communication Specialists

BOB HERSHMAN
WA3ZID

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

Bill Ryan, WB3DPJ
Tony Wilczynski, WA3AJW

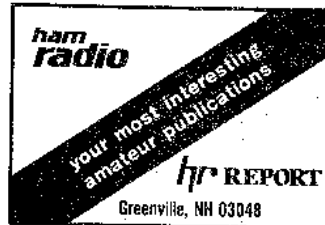
Suburbs: (215) 449-2900
Phila.: (215) 628-6120

KASS ELECTRONICS DISTRIBUTORS



DISTRIBUTORS OF
RADIO — TELEVISION PRODUCTS
INDUSTRIAL ELECTRONIC PARTS & EQUIPMENT

2502 TOWNSHIP LINE ROAD
(West of Lansdowne Avenue)
DREXEL HILL, PA. 19028



J.C. R/C HOBBIES

215/659-0770

Hours:
Mon. & Sat. 10:00 — 5:00
Tues. thru Fri. 10:00 — 9:00



MINIATURE FLYING MODELS
Radio Control Equipment & Supplies
Crafts for All Ages
BOATS, TRAINS, CARS & PLANES

23 EASTON ROAD
Willow Grove, Pa. 19090

JERRY COW
Owner

K3KTY

215-567-7130

TRANSPORT EQUIPMENT COMPANY

"EVERYTHING FOR THE TRUCK"

JOHN A. TATE
President

2215 - 2217 Race Street
Philadelphia, Pa. 19103

WAZMWB

CARL BARISH
(609) 667-9922

MELCO LABS

Suite 309, 606-110th N.E.
Bellevue, WA 98004

(206) 455-5661

Doy-Nite (215) 455-2121

FERTIK'S ELECTRONICS

Components & Equipment

LEON FERTIK

5400 ELLA STREET
PHILADELPHIA, PA. 19120

RICHARD E. BOKERN
PRODUCT MANAGER
COMMUNICATIONS PRODUCTS OPERATION
FORT WAYNE DIVISION

WB9PUJ

1315 PRODUCTION ROAD
FORT WAYNE, INDIANA 46808
PHONE: (219) 482-4411

MAGNAVOX GOVERNMENT AND
INDUSTRIAL ELECTRONICS COMPANY

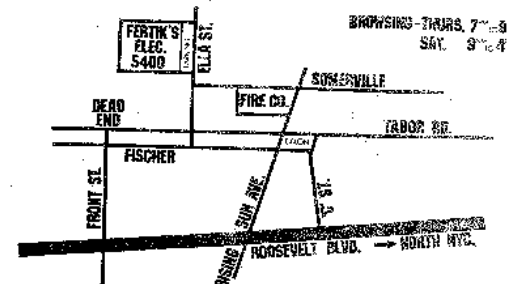


W3KKN

ERNEST KENAS
TOOL DESIGN
MANUFACTURING ENGINEERING DEPARTMENT

THE BUDD COMPANY
AUTOMOTIVE DIVISION

PHILADELPHIA, PA.



People who look for peace get it.

—Guru Maharaj Ji

For information contact:

DEVINE LIGHT MISSION (DUO)
6037 Overbrook Ave.
Phila., Pa. 19131
Office: 215-GR 7-2800

73

magazine
for radio amateurs

PETERBOROUGH, NEW HAMPSHIRE 03458

1 Year = \$15
3 Years = \$25

FIELD MOWING - EASTERN PENNA.

GROUNDKEEPING -
PHILA. AND SUBURBS
INSTITUTIONAL - INDUSTRIAL - PRIVATE
EQUIPMENT LEASING

PETER H. SHAVNEY
LANDSCAPING
111 S. EASTON ROAD
GLENSIDE, PA.

WA30VH

896-1859
OR
933-0451

TID BITS CONTINUED

Congrats to our SJRA friends celebrating the Clubs 61st Birthday on June 22, 1977.

The second transmitter hunt on 224.58 Mhz the evening of June 23rd was another barrel of fun. Bruce, WA3YUE was the Fox.

E1, K3JJZ assisted by Dan, WA3NFV gave another FB Moonbounce presentation to the West Chester ARC on Thursday evening June 23rd.

Happy Wedding Anniversary to Fred and Marsha, WA3TEM. When are you getting your ticket Fred?

* * *

THE AMATEURS BEST FRIEND

From the Ground Wave (Ottawa Canada VE3BYX and VE3EKA)

When it comes to interference problems, there is a simple device that most North American hams have overlooked. Thanks to our friends in the U.K., we have recently become aware of the use of ferrite rings which do a lot of neat things to reduce interference.

There is no doubt that the ferrite core is the most useful device available to amateurs in the never ending battle against breakthrough (interference here is breakthrough there). You might even call it a breakthrough on breakthrough.

A big advantage is using these ferrite doughnuts is that in the majority of cases, the leads to be filtered do not have to be cut and the filters are used external to the equipment affected. They are easily removed and the resale value of the equipment remains the same.

This device is wideband and is equally suitable for use on UHF, VHF, TV or Radio, HiFi, AC line filters, etc.

Most cases of interference to stereo systems can be traced to long unshielded speaker leads. Up to now, we have recommended shielded wire as the cure. A few turns of the unshielded leads around a ferrite ring (Amidon, Phillip or Mullard FX 1588) will do the job. Usually 8 to 10 turns is enough, but neither the number of turns nor the grade of ferrite used is critical. They may be used both for receiving and transmitting purposes.

If rings are not suitable, transistor ferrite radio rods as a good second best in many cases. Ed. Note: Try also the ferrite cores from scrapped TV flyback transformers... de ARNS

* * *

SPACE NET CONTEST ANNOUNCEMENT

APOLLO II.

8th ANNIVERSARY CONTEST

July 16,17, 1977

6 PM to 9 PM LOCAL

All VHF/UHF Bands. All modes. (Except Repeaters). Power Class/s...

Class I..100 to 300 watts input

Class II.. 25 to 100 watts input

Class III.. 5 to 25 watts input

Class IV.. 1 to 5 watts input

Special XYL Class. Any power permitted. Club, Class, Aggregated scores.

Each completed contact is equal to TWO (2) points, same station can be REWORKED in different Mode for additional TWO Points, and/or REWORKED in other bands for additional TWO point scores. Each DIFFERENT ZIP CODE is equal to ONE (1) MULTIPLIER, like type Zip Codes worked will not be counted as a multiplier, only the Contact will be counted as a point.

TROPHY PLAQUE, will be AWARDED to HIGHEST SCORE in each POWER CLASS and XYL and CLUB CLASS. SPACE NET CERTIFICATES will be AWARDED to SECOND and THIRD PLACES, in ALL CLASSES.

All Logs to be postmarked No later than AUGUST 10, 1977 TO:

VHF SPACE CENTER

Box 15, SUMTERVILLE, FLA.

33585

OFFICIAL BULLETIN NR 649 FROM ARRL HEADQUARTERS NEWINGTON CT JUNE 2, 1977 TO ALL RADIO AMATEURS BT: FCC has announced that effective June 12 the minimum age for volunteer examiners has been lowered from 21 to 18 years. AR.

OFFICIAL BULLETIN NR 650 FROM ARRL HEADQUARTERS NEWINGTON CT JUNE 2, 1977 TO ALL RADIO AMATEURS BT: California has 68 repeaters on 220 Mhz alone. With the all new 1977-1978 ARRL Repeater Directory you can get information on those and over 3000 other W/VE systems arranged by band from 10 meters to above 23 centimeters. This free membership service will be available in Mid-June. For your copy, send ARRL an addressed envelope at least six by nine inches, with 46 cents postage for first class return or 28 cents for third class delivery. AR.

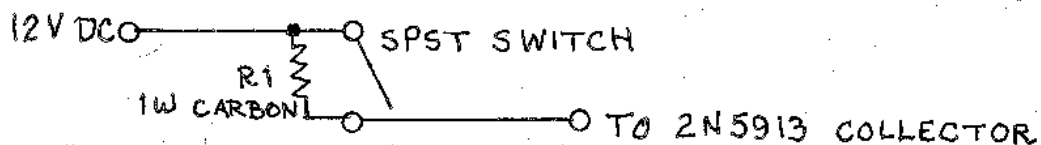
OFFICIAL BULLETIN NR 651 FROM ARRL HEADQUARTERS NEWINGTON CT JUNE 3 1977 TO ALL RADIO AMATEURS BT: The FCC has modified its first report and order in Docket 20777 concerning the purity of emissions in the amateur service. The earlier rules became effective April 15 and required, among other things, that the mean power of spurious emissions below 30 Mhz from an amateur transmitter or external amplifier be attenuated at least 40 dB below the mean power of the fundamental without exceeding 50 milliwatts, and that spurious emissions between 30 and 235 Mhz be attenuated at least 60 dB below the mean power of the fundamental. Full details appeared on page 63 May 1977 QST. Under the new modified rules existing equipment now owned by amateurs is exempt from the above standards of spurious attenuation. In addition, equipment manufactured prior to April 15, 1977 and currently in the hands of transporters or dealers or other middlemen may continue to be sold until January 1, 1978. However, after January 1, 1978, all commercially manufactured amateur equipment must meet the above standards before sale. Details on the modified rules will appear in August 1977 QST. AR. Please note that the information following the reference to page 63 May 1977 QST should read as follows: Under the new modified rules existing transmitters and transceivers now owned by amateurs is exempt from the above standards of spurious attenuation. The exemption does not apply to external amplifiers. In addition, transmitters and transceivers manufactured prior to April 15, 1977 and currently in the hands... (balance of OB651 as in the mailed bulletin)

OFFICIAL BULLETIN NR 652 FROM ARRL HEADQUARTERS NEWINGTON CT JUNE 9 1977 TO ALL RADIO AMATEURS BT: The ARRL Board of Directors meets twice yearly to formulate the course of ARRL affairs. The second meeting of 1977 takes place July 21. ARRL Full members elect the Board which has the overall responsibility for managing the affairs of the League. This democratic process is effective only to the extent that the membership participates. Now is the time for members and affiliated clubs to communicate with their division director at the address shown on page 8 of any 1977 QST. AR.

* * *

HI-LO POWER MODIFICATION FOR FM-21

By Dave, WA3JUF



Break the 12VDC line to the 2N5913 driver stage. Wire in the SPST switch with dropping resistor. Open for low power, close for high power. R1 is 100 for 2 watts and 120 for 1 watt.

WE ARE HAPPY TO ANNOUNCE THAT THE PACK-RATS RECEIVED THEIR WAC CERTIFICATE FOR 432 MHZ MOONBOUNCE. CONGRATULATIONS AND THANKS TO THE CLUB MEMBERS THAT MADE IT POSSIBLE.

The editor visited the NADC ARC at the airfield of the Center on Saturday, June 25th and participated a bit in the field day operation of K3NAL. Had the pleasure of talking in person to some old friends and operated the station for a bit. Doug, WA3DSP is president of the club this year reports that Capt. Cliff Rigsbee the Commanding Officer of NADC, who incidentally is a Ham of long standing, gave the boys a lot of cooperation.

MT AIRY VHF RADIO CLUB INC

21ST ANNUAL

PACK RAT PICNIC

SUNDAY AUGUST 14 1977

FORT WASHINGTON STATE PARK

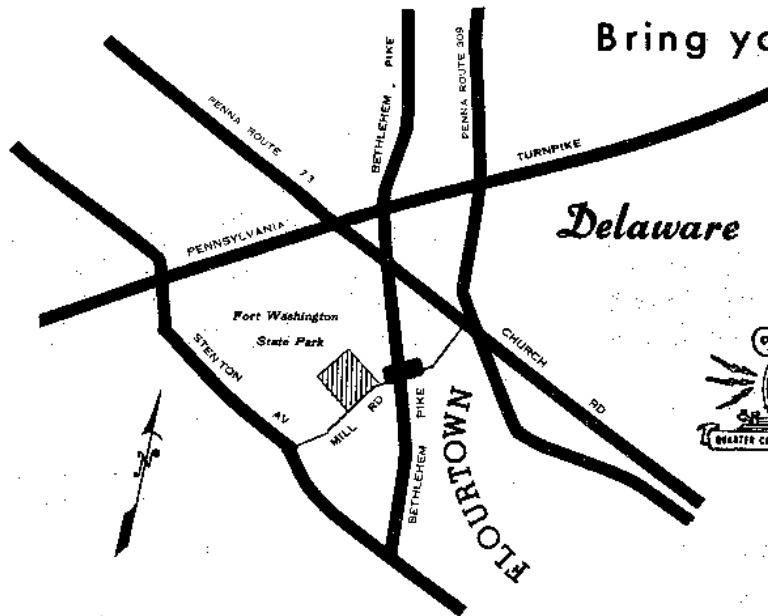
FLOURTOWN, PA.

All invited.....Members and friends of the Mt Airy VHF Club
No Flea Market or Swap Shop....just a good old fashioned
fun day in the country

Door Prizes for hams, ladies, and children

Free Tables Free Parking Free Soda Barbeque Pits Available
Childrens Games and Prizes Adult Games....the famous EGG TOSS
Bingo for the Ladies

Bring your camera



Delaware Valley Chapter



Bring your QSL CARD FOR DISPLAY....Let others know you are here
WATCH FOR DIRECTION SIGNS ALONG THE 309 EXPRESSWAY,
BETHLEHEM PIKE and ROUTE 73 (CHURCH ROAD)

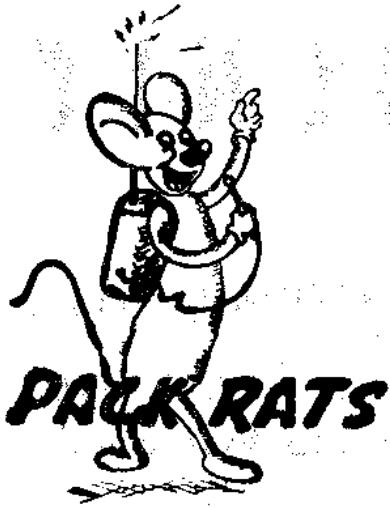
RAIN DATE AUGUST 21

TALK-IN W3CCX/3

REGISTRATION \$ 2.00 per FAMILY
AT THE PARK

52.525 MHZ FM - 146.52 MHZ FM - 222.98/224.58 MHZ FM - 11 -

Cheese Bits
2087 Parkdale Ave.
Glenside, Pa. 19038



MT. AIRY VHF RADIO CLUB, INC.

MEETING NOTICE

FIRST CLASS