

# PACK RATS'



# CHEESE BITS



CLUB CALL: W3CCX

MT. AIRY VHF RADIO CLUB, INC.

MT. AIRY VHF RADIO CLUB, INC., PHILADELPHIA, PA.

ARNS

50.125, 144.50, 432.110, 1296.025 Mhz, WR3ACD - Repeater 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 XXIII

OCTOBER, 1981

NUMBER 10

## THE PREZ SEZ

It's Antenna Building time. With the cool weather here, it soon will be cold enough for outside antenna work (the really dedicated wait for ice before any tower work). W3HQT's program on antennas last month should have been the recipe to get that new array up on the tower doing some good. Homebrew antennas are not only easy to build (admittedly after someone else has done the hard development work), but they are inexpensive and they perform equal to or better than almost anything you can buy. At antenna measuring contests they usually are several db better than commercial ones and never more than a couple of tenths of a db worse than the best sold by the VHF antenna experts. We're fortunate in this area to be able to get virtually any construction materials that might be needed. There are several industrial aluminum and stainless steel suppliers in the area so your antenna can easily be of the best material. Even at small quantities, the costs will be less than buying a commercial antenna. The construction is easy - there's lots of advice available in the club from experienced builders - so go pick up some tubing and start hacking away.

After a bit of arm twisting and threats, Bill Smith, WA2DPU, has agreed to be the January VHF Sweepstakes Chairman. Be prepared for a visit from him and his henchmen soon. Reserve a weekend in January 1982 for a little fun on the bands.

73, Harry, W3IIT

\* \* \*

The next regularly scheduled meeting of the Greater Northeast Philadelphia Amateur Radio Fellowship will be held on Monday, October 26, 1981 at 7:00 P.M. in the meeting room of the Northeast Regional Library, Cottman Avenue and Oakland Street (opposite Gimbels).

Bob Josuweit, WA3PZO, a torch bearer, will present slides and narrate the 1980 Olympic Torch Run.

Admission is free and there is ample free parking opposite the Library.

For further information, call either Al, W3AYJ, 725-2869, Joe, K3RFL, 698-8051 or Dan, K3HES, 338-7946.

\* \* \*

VISITORS - MEETING SEPTEMBER 17, 1981

WA2OMY - Gary Hitchner, Eagleville, Pa.

W2KFC/4 - Lee Miles, Vienna, Va.

W2SPV - Ed Kephart, Pennsauken, N.J.

AE2Z - John Colacci, Pennsauken, N.J.

John Sorter, Newtown, Pa.

-1-

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

SUBSCRIPTION RATE - \$2.50 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: THE THIRD THURSDAY OF THE MONTH

EDITOR:

W3CL, HARRY B. STEIN  
2087 Parkdale Avenue  
Glenside, Pa. 19038  
215-887-5052

PUBLISHER/SUBSCRIPTION MANAGER:

K3GAS, DOC CUTLER  
7815 New Second Street  
Elkins Park, Pa. 19117  
215-635-1078

PRINTER:

WA3FOF, RALPH ALEXANDER  
215-PI 5-9007

TYPIST:

WA3TEM, MARSHA LISSAUER

TRUSTEE OF CLUB CALLS (W3CCX-WR3ACD):

WA3AXV, RONALD WHITSEL  
215-355-5730

AWARDS CHAIRMAN:

W2EIF, JOSEPH KILGORE  
609-783-9478

CLUB HISTORIAN:

W3CL, HARRY B. STEIN

<u>MONDAY NIGHT NETS</u>	<u>NET CONTROL</u>
7:30 PM - 50.125 MHZ	W3CL-W3HQ7
8:00 PM - 144.150 MHZ	W2EIF
8:30 PM - 222.98/224.58	K3GAS
9:00 PM - 432.1 MHZ	K3IUV-WA2DPU
9:30 PM - 1296.025 MHZ	W3CXU

PACK RAT REPEATER 222.98/224.58 MHZ  
LOCATED IN CHURCHVILLE, PA.

OFFICERS: 1981-1982

PRESIDENT: W3IIT, HARRY BROWN  
VICE-PRES: K3KTY, JOHN TATE  
COR. SECY: W3ZD, DAVE ZIMMERMAN  
REC. SECY: K3IGX, DICK BOYLE  
TREASURER: K3GAS, DOC CUTLER  
DIRECTORS:

WA3JUF, DAVE MASCARO (2yrs)  
WA3NUF, PHIL MIQUELEZ (2yrs)  
WA2DPU, BILL SMITH (1yr)  
K3NHX, JOE GARDOCKI (1yr)

FREE ESTIMATES  
(215) 672-3850  
(215) 822-0808



**MICHAEL McMACKIN**

REGISTERED PLUMBING & HEATING  
BATHROOM INSTALLATIONS • ELECTRIC DRAIN CLEANING

96 HELLBERG AVE.  
CHALFONT, PA. 18914

2405 PARKSIDE AVE.  
HATBORO, PA. 19040

1-302-478-2757

**AMATEUR  
and  
ADVANCED  
COMMUNICATIONS**



G. B. WALLS

3208 CONCORD PIKE (RT. 202)  
WILMINGTON, DEL. 19803



**Pennsylvania Institute  
of Technology**

PAUL D. MERCADO

Chairperson, Drafting Design Department

(215) 352-7100  
(215) 528-6998

414 SANSOM STREET  
UPPER DARBY, PA. 19082



THE AMERICAN RADIO RELAY LEAGUE

**OST**

**JESSE BIEBERMAN, W3KT**

Director, Atlantic Division

RD 1 BOX 86  
VALLEY HILL ROAD  
MALVERN, PA. 19355

(215) 827-7426

CALENDAR OF COMING EVENTS

Syllabus by Lee, K3MXM

OCTOBER

- 1 American Red Cross founded by Clara Barton - 1881
- 3 HAMARAMA WEEKEND - Saturday - THE CONFERENCE, Warrington Motor Lodge, Warrington, Pa. An outstanding list of noted speakers and forums. The Banquet - 7 P.M. Speaker - Ray Clark. Hospitality Room - open till wee hours. Open Bar.
- 4 Sunday - The Flea Market - Bucks County Drive In Theatre  
Route 611 - Warrington, Pa. 8:00 AM till 4:00 PM. Rain or Shine.
- 4 For you early snow birds - Clearwater, Florida Hamfest. Sand Key Sheraton Hotel.
- 8 Board of Directors Meeting - QTH - W3IIT, Harry Brown, 3022 Potshop Road, Norristown, Pa. Directors and interested parties cordially welcomed.
- 8 YOM KIPPUR - Day of Attonement
- 10-11 21/28 Mhz Contest - RSGB - See September QST
- 12 Columbus Day
- 13 WIAW Qualifying Run (10-35 wpm) Starts 10 P.M. EDT 13 Oct.
- 15 General Club Meeting - Southampton Free Library, Street Road, Southampton, Pa. 8:00 P.M. The Mario Raffle, Frankie's Silent Auction, Refreshments. An open meeting to club members and their friends.
- 17-18 Jamboree on the Air - Contact one of the many Boy Scout Stations on the air and help Amateur Radio work for all.
- 22 First wireless message sent across the Atlantic, 1915.
- 24-25 N.J. Micro Computer Show and Flea Market. Holiday Inn (North) Convention Center, Newark International Airport. Exit 14 N.J. Turnpike. Take Service Road. Commercial Exhibits - Outdoor Flea Market - Forum
- 24-25 CQ World Wide DX Contest - Phone. A very good opportunity to add to your DX collection and maybe connect with some exotic calls...
- 31 HALLOWEEN: Be sure to have the candy ready for the kids... You must have gone out onetime yourself....

\* \* \*

CHANGE OF ADDRESS

K3HW, Hal Weinstein  
4674 34th Street, Apt. 2  
San Diego, CA. 92116

K3IPM/4, Stan Smith  
20926 Cipres Way  
Boca Raton, FL. 33433

WA3NUF, Phil Miguelez  
435 Ivy Street  
Warminster, PA. 18974

WA3WAS, Steve Simons Moved to the  
West Coast. Will have his  
new address when he is settled.

NEW PRODUCTS OF INTEREST TO HAMS

By Lyn, W3NSI

1. TWO METER TROMBONE ANTENNA: The Butternut Electronics Co. now has available their 2MC collinear gain antenna. Height is 118" and weight is 2 pounds. Feedpoint Imp. is 50 ohms and a PL259 connector is used for feed line attachment. Gain is listed at 6 Db. Price \$39.50 P.O. Box 1411, San Marcos, Texas 78666
2. YAESU FT 290R 2 METER R/T: The new 290 rig is a battery powered multimode portable for 144-148 Mhz. RF output is a battery saving 2 1/2 watts. Freq. readout is a 5 digit LCD with a night light. Unit controlled microprocessor and is equipped with 2 VFO's and 10 memories. Battery supply is built into the case. Price \$550.
3. RADIO DIRECTION FINDER: Doppler Systems is selling three types of RDF units that can be connected to any VHF FM receiver. No receiver mods are required. DDF 3001 displays bearings using 16 LEDs in a circle at 22 1/2 degree increments. The model 3002 and 3003 use the LED set up plus a digital readout using 3 display units. These readings are read to one degree. The system works by simulating a rotating antenna by continuously summing the output of four antennas in a square array. All three models are available as kits or fully assembled. Price \$235/295/325 (kits) \$335/425/470 (Assembled). 111 E. Moon Valley Drive, Phoenix, Arizona 85022

\* \* \*

VHF/UHF REPORT

By Joe, W2EIF

The Summer E Skip season has just about ended and six meters has returned to its normally quiet condition. Two meters continues to provide contacts nitally in and around 144.2.

The September QSO Party has come and gone with conditions not much better than average. There were no openings of note on any band to my knowledge. However, it was possible to work out to 300-400 miles on all bands including 1296. The 220 band really showed improved activity. It was particularly noticed that FM contest activity was very low both on 220 and 144. 1296 is really beginning to come into its own with improved signals, antennas and equipment. STABLE SSB and CW signals are evident and contacts out to several hundred miles are more common.

\* \* \*

HOLMESBURG AMATEUR RADIO CLUB INVITES ALL OUR MEMBERS, THEIR WIVES AND FRIENDS TO OUR FIRST ANNUAL DINNER PARTY SUNDAY, NOVEMBER 15, 1981 AT 6:00 P.M. PINOCCHIO'S RESTAURANT, COTYMAN AND SUSTLETON AVENUE, PHILADELPHIA, PA. COST: \$12.00 PER PERSON. ALL RESERVATIONS MUST BE IN BY NOVEMBER 1, 1981. NO PAYMENT WILL BE ACCEPTED AT THE DOOR. COMPLETE THE RESERVATION ORDER AND SEND IT IN WITH YOUR CHECK TO: JAY KUPERMAN, TREASURER, WA3IFY, 1934 DEVEREAUX AVENUE, PHILA., PA. 19149

\* \* \*

THE PREZ SEZ - FROM THE "BLURE" PHILMONTI MIBILE RADIO CLUB

In the past few weeks I have had the opportunity to experience emotions that I never really had experienced before. Oh, I was aware of their existence and observed others in the throes of these human exultations, but I really never knew, personally, what the emotion felt like deep inside. I speak of willing service to others less fortunate, at the cost of personal sacrifice of your time and effort.

One of the elements of the Amateur Radio Operators' Code is "The amateur's knowledge and his station are always ready for the Service of his Country and his Community."

THINK about that statement -- for what it really means is that you will never share the real joy of Amateur Radio until you have experienced the emotion of truly serving others. What a perfect opportunity we have for this practice in our hobby of Amateur Radio.

(CONTINUED ON PAGE 5)

THE PREZ SEZ - FROM THE "BLURB"  
CONTINUED

If you take from Amateur Radio without giving of yourself, you will soon tire and drop from the ranks. You will become a listener.

Remember the exhilaration of satisfaction from running your first phone-patch? How about your QSO with someone really in need of companionship, someone who simply consumes your every word and returns again and again then sadly signs, hopeful to re-sked. Will you ever forget the Novice, who endlessly thanked you for the first CW contact and the pride and self-satisfaction that pulsed through your veins, all experiences of giving of yourself? These are the very emotional bonds that help develop members into real PHIL-MONTERS!! Each experience causes a deeper relationship with each other thereby strengthening our Club. These are the Joys of Amateur Radio. This is, in the vernacular, what it's all about!!

If you have not experienced this pride of membership in Phil-Month, then you haven't really been working at your hobby and you really haven't been enjoying it to its fullest, don't despair, however.

Get more involved by being willing to share of yourself and your knowledge. It's an emotion you will soon want to share with others...in or out of the ranks of PHIL-MONT!!  
73, Jake, AK2I

\* \* \*

ARRL BULLETIN NR 93 FROM ARRL HEADQUARTERS NEWINGTON CT SEPTEMBER 12, 1981 TO ALL RADIO AMATEURS BT: The meeting of the ARRL Board of Directors in Hartford, Sept. 10 and 11, 1981, was highlighted by acceptance and initial implementation of the recommendations contained in the Long Range Planning Committee Phase Two report. In response to the LRPC report, plans are to be developed for a higher level of ARRL club affiliation providing greater recognition and motivation for clubs with effective programs to protect, promote, and advance amateur radio at the local level. Endorsed in principle were the concept of an ARRL Section Manager with broader responsibilities than the present Section Communications Manager position, creation of steering committees to assist directors at the division level, and reorganization of ARRL advisory committees to have one member from each division. Options for providing a more continuous ARRL presence in Washington, D.C., are to be studied. A program for training and certification of amateurs in emergency communications procedures and techniques is to be developed. Material to assist local groups in planning public service operating events is to be published. To encourage technical activity by amateurs, simple construction projects for club use are to be developed and articles on equipment maintenance and repair are to be sought.

Several petitions and other filings with FCC were ordered. ARRL will petition FCC to extend General Class phone in the 75 meter band to 3860-4000 kHz, and to permit beacon stations to operate under automatic control. An earlier action directing that Extra Class phone privileges be sought at 7075-7100 kHz was reversed, so no such petition will be filed. Comments were authorized defending amateur interests in the further FCC inquiry into radio frequency interference, Docket 78-369.

In operating matters, after a date to be established by the ARRL Awards Committee, credits for single-mode DXCC will not be granted for crossmode contacts. The band plan for 160 meters proposed in August QST was approved, with some clarifications. Efforts by the DX Advisory Committee to combat unethical operating and QSL practices were recognized, and continued efforts urged.

The ARRL Technical Excellence Award was given to Dave Geiser, WAZANU, for his article in July 1980 QST, with honorable mention to Roy Lewallen, W7EL, and to G. Villard, W6QYT, D. Muldrew, and F. Waxham, K7DS for their articles in August and October 1980 QST, respectively.

Several studies were ordered, including the possibility of reduced membership fees for students and the disabled and possible changes in the RST system of cw signal reporting. Complete details on these and other Board actions will appear in November QST AR.  
Latest bulletin mailed to OBS was NR 89.

SWAP SHOP

WANTED: Any old tube xtal controlled xmtr for 40 meters CW. Approx. 20 to 40 watts. Pwr supply would help.

CONTACT: Horace, W3AJF  
Phone: 215-843-1808

FOR SALE: 1 - 50 ft. 5 section telescoping mast with guy rings. Never used. \$25.

CONTACT: Preston, WA2TSZ  
Phone: 609-587-8118

FOR SALE: Swan 250C- pwr sply., noise silencer, book, mike \$250.

Clegg - FM 22er MKII - book, receive continuous tune, 9 transmit xtals., mike. \$65.

CONTACT: George, WA3SPR  
Phone: 215-924-8651

FOR SALE: New records - 50¢; new 8 track tapes - 50¢; new cassette tapes - 50¢. DX160 rcvr with spkr; excellent condx. 8 track players; stereo phono; remote control toys; many different type radios. Parts, xtals, Miller coils, variable capacitors - meters.

CONTACT: Doc, K3GAS  
Phone: 215-635-1078 - make appt.

FOR SALE: Drake TR4 CW/RIT, all xtals, noise blanker, AC4 pwr sply, RV4C VFO; just factory overhauled - including new finals. Extra set new matched finals. \$650.

CONTACT: Charley, WB3CPW  
Phone: 215-646-6012

FOR SALE: Kenwood HF station: TS-120S - trans/rec; AT-120 transmatch; VFO-120-outboard with cables; SP-120 external speaker (2); PS-30 pwr sply, 20 amp. with aux. conn. 52; MB-100-mobile mtg brkt; microphone and headset; 125 ft. of unused RG-8U. All in excellent condx. in original boxes, manuals & receipts. Moved into apartment. Will trade for firearms in equal condx. Prefer not to break up set. Make reasonable offer.

CONTACT: Mike, WB3GCX  
Phone: 215-368-7137 after 5 PM.

FOR SALE: Collins 75S3 receiver with Heath Kit noise blanker making for an excellent IF. Powder puff condition. \$375.

CONTACT: Jack, W2AXU  
Phone: 609-882-8811

\* \* \*

TID BITS

Jack Power, W2AXU reports Sunspot number for August 1981 is 158.2. The smoothed number for February 1981 is 141.4.

Earl, N3EG/6 please tell us who is Brenda.

Paul Rilling, W3HIT, has been under the weather all Summer. He has been hospitalized recently undergoing tests. A speedy recovery Paul - we miss you.

Old time Pack-Rat Lee Miles, W2KFC/4 visited with the gang at the last club meeting.

Old friend Ed Kephart, W2SPV accompanied by John Colacci, AB2Z represented SJRA at our September meeting.

The editor and his XYL Sylvia attended the 25th Anniversary Dinner Party of the Penn Jersey Young Ladies Radio Club - met some friends and had a wonderful evening.

Thanks to Joe Rushton, W3YXF for his recent contribution to the club treasury.

WELCOME TO ALL THE ATTENDEES OF THE VHF CONFERENCE AND THE HAMARAMA FLEA MARKET.

215-947-6670

# MARKETLINE™

SYSTEMS, INC.  
2337 Philmont Avenue  
Huntingdon Valley, Pa. 19008  
Computers for Hobbyists



AMERICAN RADIO RELAY LEAGUE  
HARRY A. McCONAGHY, W3SW

8708 FENWAY DRIVE - POTOMAC  
BETHESDA, MARYLAND, 20034

NE 7-8929

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

W3FK

4607 CONVENT LANE  
PHILA., PA. 19114



AMIL S. GUMULA  
PRESIDENT

A. G. RADIO PARTS CO.  
939 TOWNSHIP LINE RD.  
ELKINS PARK, PENNA. 19117  
TELEPHONE: 215-686-5100

RCM Authorized  
Distributor

## K2RPZ PRINT

stu goodman

Distinctive QSLs-Largest selection, lowest prices, top quality photo and completely customized cards. Make your own QSLs truly unique at the same cost as a standard card, and get a better return rate! Free samples, catalogue. Stamps appreciated. Stu, K2RPZ, Box 412, Dept. PR, Rocky Point, NY 11778. (516) 744-6260

AMATEUR (215) OL 9-5900  
SALES & SERVICE

## "HAM" BUERGER INC.


Communication Specialists

BOB HERSHMAN (215) OL 9-5900  
WAZ3ID 68 N. YORK RD.  
WILLOW GROVE, PA. 19090

## PENNA RC A GENERAL PURPOSE CLUB

Monthly meetings the 4th Tuesday-8PM  
Montgomery County Community College  
340 DeKalb Pike, BlueBell, Pa.

CLUB REPEATER - 223.04/224.64 Mhz



Write for FREE COPY of any of our publications.

**The Ham Radio Publishing Group**  
GREENVILLE, NEW HAMPSHIRE 03048

CALL DOC CUTLER (K3GAS)  
FOR YOUR ELECTRONIC NEEDS

NEW, RECONDITIONED, OR AS IS.

LOW PRICES

by appointment 215-635-1078



Norm Richards Manager

Heathkit Electronic Center  
6318 Roosevelt Blvd.  
Philadelphia, Pennsylvania 19149  
(215) 288-0180

a unit of Verotechnology

TV - RADIO - HAM - CB - STEREO

**RICHARD H. PIERCE**  
ELECTRONIC EQUIPMENT REPAIR  
SPECIALIZING IN AMATEUR RADIO EQUIPMENT

K3MWW  
(215) 785-0088

2700 NEW FALLS ROAD  
NEWPORTVILLE, PA. 19085

SHOWING THURS. 7<sup>PM</sup>-9<sup>PM</sup>  
SAT. 9<sup>PM</sup>-4<sup>PM</sup>

Day-Nite (215) 455-2121

## FERTIK'S ELECTRONICS . . . .

Components & Equipment

LEON FERTIK

5400 ELLA STREET  
PHILADELPHIA, PA. 19120

CAR STEREO - CITIZENS BAND - BURGLAR ALARMS  
2 WAY RADIO - TOWER INSTALLATION & REMOVAL  
TV - HAM - CB ANTENNAS

Steve Simons

MOBILE EQUIPMENT INSTALLATIONS  
SALES & SERVICE

W3WAS

TEL. (215) RA 8-1135

8506 KENDRICK PL.  
PHILA., PA. 19111

215-PI5-9007

W3FOP

RALPH ALEXANDER

Electronic Equipment Repair

Technical Writing

Printing

(215) 723-1200  
(215) 646-2600




## CARR ELECTRONICS

AMATEUR RADIO GEAR NEW & USED FOR TODAY'S HAM

JOSEPH J. BURGESS  
W3PNL

MAIN & RELIANCE  
TELFORD, PA. 18969



**73 magazine**  
for radio amateur

73 stresses the fun of ham radio.

\$25 one year \$53 three years  
POB 931 • Farmingdale NY • 11737

