# PACK RATS 3

W3CCX



EHEELSE ENEELS

BITS



MT. AIRY VHF RADIO CLUB, INC.

MT. AIRY VHF RADIO CLUB, INC., PHILADELPHIA, PA 50.2, 145.2, 432.03, 1296.01, 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 Pages by an a 18066

Southampton, Pennsylvania 18966

**VOLUME XIX** 

AUGUST, 1977

NUMBER 8

ARNS

#### THE PREZ SEZ

It is hard to believe that a whole year has gone by since the HK1TL Moonbounce Dxpedition to South America. Your Packrat Dxpedition crew still experience a rush of excitement when we think of that memorable adventure.

The Pack Rat Picnic is on for August 14, 1977 at the Ft. Washington State Park in Flourtown, Pa. This is always a fun day for the Pack rat family. Our friend N6UB alias K6YNB, Wayne Overbeck left Encino, California on July 14 with his final destination – the Pack Rat Picnic. I wonder if Wayne is up for Elliott's famous Egg Toss.

The annual Antenna Measuring Contest and Free Flea Market run by WA2ZZF and K2UYH is on for August 7, 1977 at Trenton State College. Antennas will be measured on 432, 1296 and 2304 MHz. This affair always attracts the top VHF'ers on the East Coast and is a must for anyone interested in VHF antennas.

.73, Tony, W3HMU

#### VISITORS AT THE JULY 21, 1977 MEETING:

WB3EVV, Jerry Russell, Rydal, Pa.
W3DWJ, Bill Romanow, Elizabeth, NJ.
K2DZM, Mike Medwig, Colinia, N.J.
WB3GTW, John McCracken, Bridgeport, Pa.
WB3CEZ, Paul Yoder, Bridgeport, Pa.
WA3QNS, Joe Reed, Norristown, Pa.
WB3BKO, Dave Smith, Horsham, Pa.
John Sortor, Langhorne, Pa.

WA3VGR, Joe Frezza, Horsham, Pa. WA3KSK, George Hinkel, Hatboro, Pa. WA3WAS, Steve Simons, Phila., Pa. WB8REQ, Doug Simpson, Centre Sq. Pa. WB3CFW, Charles Cloud, Blue Bell, Pa. WB3IHY, Joe Garber, Phila., Pa. WA3ZZF, Paul Wade, Somerville, Pa. K2KJI, Gene Niemiec, Cedar Grove, N.J.

#### APPLICATION FOR MEMBERSHIP:

WA3WAS, Steven M. Simons 8506 Kendrick Place Phila. Pa 19111

WB8CDE, Don Biresch Tabor Road Ottsville, Pa. 18942

CENTRAL STATES VHF CONFERENCE 1977. Kansas City, Mo. – August 19, 20, 21, 1977. Hosted by KOTLM and WOYZS

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: NET CONTROL 145.2 MHZ 7:30 PM W2EIF 50.2 MHZ 8:30 PM W3CL 221.4/224.58 MHZ 9:00 PM K3GAS 432.03 MHZ 9:30 PM K3IUV 1296.3 MHZ 10:00 PM W2EIF

FRIDAY NIGHT ATV NET: NET CONTROL
439.25 MHZ 7:00 PM 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

414 SANSOM STREET UPPER DARBY, PA. 19082



# CALENDAR OF COMING EVENTS Syllabua By Lee, K3MXM From the Latin Augustus named for Augustus Ceasar

AUGUST	Syliabua By Lee, K3MXM From the Latin Augustua named for Augustus Ceasar
Ţ	First U.S. Cena <sub>ig</sub> , 1790
7	40th Annual Hamfest, South Hills Brass Polunders, St. Claire Beach, Pittsburgh, Pa. area.
7	Shenandoch Valley ABC (Winchester) Hamiest - Raritan Fairgrounds, Berryville, Virginia. Info, Fred Wetzel, 308 W. Main St., Berryville, Va.
6-7	Montreal Hamfest, Quebec. Listed if any of our readers are visiting Canada and would like to see a Canadian Hamiest, St. Lambert Recreation Assoc. Arena. Info. Lloyd Courtice, VE2WX, 65 des Lilas St., St. Bruno, Quebec J3V 2R8
7	Hamfest and Aptenda Messuring Contest on 432, 1296 & 2304 Mhz. Trenton State College, Ewing Mownship, N.J. Follow signs from Rte. 1 Fun Starts at 10 A.M. Flea Market free for buyers and sellers.
1 · 1	First Radic S.O.S. 1909 - Come on you ole timers. A free ride on the "PRT" to the first one who, less the editor know the 4 W's - Who, What, When & Where
12-14	CB World Jamberes, Sunnybrock, Rt. 422 East of Pottstown, Fa.
11.	Board of Directors Meeting, QTH, W3CL, Harry B. Stein, 2087 Parkdale Avenue, Glenside, Pa. 19038. Directors and interested parties invited. Phone: 215-TU 7-5052.
14	Columbus Ohio Hamfest
14	V-J Day
ia	SUNDAY, PACK RAI PIONIO, Ft. Washington State Park, Flourtown, Fe. All invited, Fack Rats and friends and families. Door Prizes, Free Soda, Free Parking; Free Tables. Children Games, Teener Games, Adult Games, Famous Egg Toss, Bingo for the Ladies. 52/52 and 222,98/224.58 FM Talk Inc
18	General Club Meeting, QTH - K3GAS, Doc Cutler. Nostalgia Nite, Films, Slides, Bringing back the old days of slim good looking Pack Rats. Especially commentary by our own W3CL.
211	First U.S. Cil Well Discovered 1859, Now look at the mess we are in.
21	2nd Annual New Delmarva Hamfest, Delaware Technical and Community College, Stanton, Delaware, Telk in, 52/52 and 13/73. Info, John Low, K3YHR, 11 Scottfield Drive, Newark, Delaware 19713
2.1	Warren Chio Hamiest
SEPTEMBER	
hs.	York, Pa. Eastest, New Place, Drag-O-Way at York Airport.
<u> </u>	Hamburg, Pa. Komiest
18	Cincinnati Hamfest, Info. Lillian Abort, K8CKT, 1424 Main St., Cincinnati, Ohio 45210
24 OCTOBER	Elmira, N.Y. Chemung Fair Grounds, Info, WAZSMM, 320 West Ave., Elmira, N.Y. MidAtlantic States VHF Conference on the 1st. HAMARAMA on the 2nd

# NEW PRODUCTS OF INTEREST TO HAMS By Lyn, WINSI

- 1. Digital VOM Model #2000: Sabtronics International, Inc. is advertising a VOM kit at a rather attractive price. The unit is portable, being battery operated on 4 "C" cells. This makes it easy to make tests cut in the car, without having to run a long AC cord out the window. Voltage ranges rum from 100 uv to 1000 volts AC and DC, while current readings can be taken up to 2 emps. Resistance in 6 ranges from 1 ohm to 20 million will cover just about all ham tests. Size of the 4 digit instrument is 8" wide by 6 1/2" deep by 3" high. As of this writing, the kits are in such demand that there is a 4 week wait for delivery. Price Rit \$60.00. P.O. Box 64683, Dallas, Tx. 75206.
- 2. General Coverage Receiver: McKay Dymak Co. is seiling a fully synthesized digital readout receiver that covers 50 Khz to 29.7 Mhz. Frequencies are read on a 5 digit LED display Crystal filters are used in the first and second IF amplifiers, while a ceramic filter is used in the third IF. The frequency is set using four rotary switches and a fifth knob for fine tuning over a range of 5 Khz up or down. A front panel switch selects either 4 or 8 Khz bandwidth. Unit size is 17 1/2" wide by 14 1/2" deep by 5" high. Price \$995. 675 N. Park Ave., P.O. Box 2100, Pomona, Cal. 91766.

# \* \* \* VHF/UHF REPORT

#### By Jo, W2ETF

This report covers the period June 16 to July 21, 1977. This period produced some good openings on both six and two meters. Six meters was open to the West Coast a number of times and our own K3MWV managed to work a KH6 on CW during one opening. The KH6 was in for only a few minutes and was heard by other operators. Dick was the only one to make the grade. Fony, K4AWS reports working KH6TAA but gets a greater kick working Delaware Valley boys!

Those who operate two were looking for short skip on six as a signal that two was open. The 7th of July provided the necessary ingredients. Station in W. Pa. could be heard working R.I. and Maine on six, and KITOL in Maine was 59+ no matter where the beam headed. Unfortunately, this meant the E cloud was almost overheard for the NYC & Conn. boy Stations in Southern Va and Washington, D.C. area could be heard working VEI's in Nova Scotia. I was on the edge and managed to contact VEIYZ in Halifax.

The 12th of July provided just the right 2 meter E Skip conditions for the East Coast operators. E Skip stations were worked from Texas right up the line to Minnesota. The band was open from about 20:00 to 21:40 EDT.

The 14th of July provided a very good tropo opening on 2 meters from the East Coast to Central Chic and Michigan with the band opening at about 20:00 P.M. It was still open at 23:30 EDT with WSIDU (Mich) still coming in strong. The 15th provided good tropo to the South with stations in N.C. working into New England.

There will still be some good openings for the rest of July and August, so keep listening and working the bands.

\* \* \*

JULY 8, 1977 HR REPORT NO. 156: Two-Meter Signals Crossed the Atlantic last week when PY20B in Sao Paulo, Brazil heard TUZEF in the Ivory Coast on 145.2 Mhz CWI. A two-way contact didn't result at the time, but a seried of followup attempts are now under way by TUZEF and TUZGA with PY20B and other Brazilian VHF buffs on the other end of the 3496-mile circuit.

On Six Meters, long haul has also been prevalent with a contact between WB2RLK/VE1 and KH6HI on Sunday and a number of U.S. stations working into northern S. America. The 50Mhz beacon on Gibraltar is supposed to be back on the air shortly, supplementing France's FX3VHF on 50.1, while S. Africa has another form of six-meter beacon with a new channel 1 TV station. FROM HR REPORT NO. 158 OF JULY 22, 1977: Another VHF-Mconbounce Expedition by K6YNE/N6NB began this week on the Utah-Nevada border. He'll next operate 2-meter EME from the Mississippi-Tennessee border starting about July 23, with later operations planned from Alabama, Georgia, Rhode Island, Vermont (with Ham Radio Horizon's WISL and QSI's WIXZ), Minnesota and N. Dakota over a six-week period.

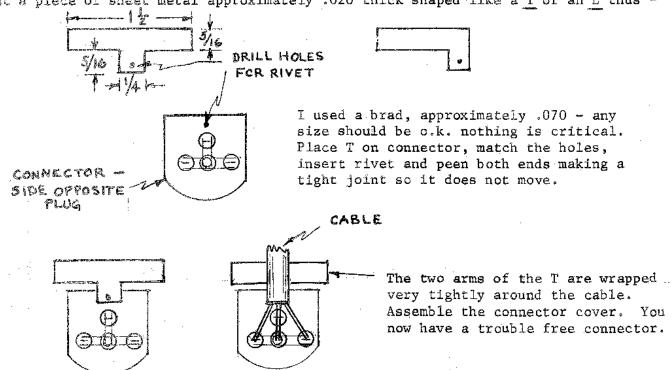
For updates and schedules Wayne will be on the low bands on Tuesdays and Thursdays, 14262 at 1700 EDST (21002) and 3815 at 2300 EDST (0300Z Wednesday and Friday); he'll also operate on those same frequencies at other times when possible. The ambitious trans-continenta trip is being sponsored by the Northern Cakifornia DX Foundation.

\* EDITORS NOTE: Wayne will be stopping over to attend the Pack-Rats Family Day and Picnic on August 14, 1977.

# SERVICE HELP FOR THE FM-21 By Chas, K3HSS

After persevering several break downs on the air with the FM-21 and feeling embarrassed because of it, I decided it was time something was done about it. My trouble with the unit was the right angle mike connector. The mike cable is not secured in anyway, therefore, any movement of the connector or the cable puts a strain on the wires at the terminals. This continuous movement eventually breaks a wire. I did not care to fill the connector with epoxy so I made a clamp for the cable which should eliminate that particular problem with the connector.

Cut a piece of sheet metal approximately .020 thick shaped like a T or an L thus -



SCHEDULE OF CLUB MEETINGS FOR THE 1977-1978 SEASON

#### MARK YOUR CALENDAR ACCORDINGLY.

1977	1978
September 15	January 19
October 13	February 16
November 17	March 16
December 15	April 20
	May 18
	June 15

<u>Page-5</u>

#### \* \* \*

#### UNOFFICIAL RECAP OF CLUB SCORES FOR THE PAST JUNE VHF QSO PARTY

152,134

	Reported	bу	the Chairman,	Bill, W3HQT	
BAND	CONTACTS		POINTS	MULTIPLIER	
50 Mhz	417 x 1	200	417	56	
144 Mhz	348 x 1	**	348	22	
220 Mhz	139 x 2	*	278	15	
432 Mhz	78 <b>x 2</b>	=	156	20	
1296 Mhz	21 x 3	· ==	33	5	
2304 Mhz	$2 \times 3$	220	6	1	-5-
3300 Mhz	$1 \times 3$	200	. 3	1	
5600 Mhz	1 % 3	=	3	1 c1	aimed score-
10000 Mhz	1 x 3	=	3		247 X 122 =
TOTALS	998		1247	122	·

#### TID RITE

We are unhappy to report that Ric Janssen's (WANUDS) house was descroyed by fire over the 4th of July week-end. Ric is working hard preparing for the rebuilding and could use help. Be is at that QTH every day. Drop by and give a had: 43 Fairhill Drive, Churchville, Page 16 connected, 215-355-1980.

Congratulations are in order to the Muntzingers (WSFQD) on their son Robert obtaining his

Moonbounce faver strikes 3 of the 7 members of the FKITL tesm who changed their jobs in less

Congratulations to the Tate family (RBKTY) on the upcoming marriage of their daughter. Barbara to Richard Ostroff. Best wishes from the fack-Rate.

Congratulations from all of us to Lucy and Horoce Descon (WALF) on the occasion of their Golden Wadding Anniversary July 22, 1977. Many more wooder: 1 years together!

There was a nice PR type write-up on Eam Radio in the Today's Post of the Norristown, Ps. area. It was written by Margie Freeney of their staff and envirted life is never dull for a 'Ham'". It featured interviews with Tom Gibson, W3EAG, Beputy Director of Communications for Montgomery County and our own Dan Mitten, WA30FV Recording Secretary.

Many thanks to W30Y, Eugene Pearson for his FB donations of Ham Radio perts to the Club

Talked on the fone with Carl Barish (WA2MWB/7) on July 25, 1977. He and lane went to be remembered to the gang. He reports that they are happily settled in their new aparthment and waiting for his 7th District cell to arrive. Beamwhile, they are having for craiging around Puget Sound in a new 24 foot cabin cruiser. Woweel Bez there are think 220Min repeaters in that area and he had crystaled.

Pack-Rats -- If you participated in the July 16-17 Apollo II contest, gar your log sheats ready and assign the score to the Club. Tony, KAAWS wast receive them by August 19th to be counted. VHF Space Center, Attn: KAAWS, P.O. Box 15. Suntervilla, Fia. 13585

The 21 April 1977 National Buseau of Standards Prejucted sunspect numbers for tree with class intermediate and short distance skywave propagation charge show that DX conditions are repeated improving. Their current figures are:

1977		·	19 <b>78</b>	
July	40.8		January	66.74
August	44.2	:	February	72.
S <b>epte</b> mber	47.6		Marci.	17.67
October	51.8		April.	81.3
November	56.5			
December	61.6			

Do you remember how bad things were when we bottomed out at 6 in June, 1976?

Sulletin readers who want a plain language simple introduction to the facts about coesial transmission lines are welcome to a free copy of the Wols "Coexist Cable Data" class aid grepared by Bill Welsh (WoDDS). This 14 sheet aid provides besic facts about hundreds of coexist cables and it should convince you not to use RG-8/U, RG-58/U, or RG-59/U, as aid used by many Amareurs. Just send a self-addressed 10 by 12 inch envelope with 24 cents postage attached and include a note stating what you want. Exchange Bulletin Editors are welcome pick up this item for the benefit of their own readers. This entire are clashed been you each of the control of their own readers.

(Both above items from LERC ARC Bulletin)



# **ADS**

A request from your AD Manager

PATROWIZE OUR ADVERTSERS
Tell them you saw their ad in
CHEESERITS. Leave your GSL card
with them.

OHEESENTS is one of the best read local radio club papers. Circulation - 200

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

#### B. B. C

ELECTRONICS COMPANY, INC.

"ONE OF THE FINEST NAMES TO THE INDUSTRY"

#### SPECIALISTS IN

Righ power RF transistor components CMOS integrated circuits and associated components. A complete line of amateur HF and VHF

A complete line of amareur NF and WHF equipment including the best names in the business.

Liberal discounts to licensed ameteurs has been, and still is, our policy.

TRADE-INS ACCEPTED

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

8-8-6

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

3	KORVETTE SHOPPING	Bac M
ALT.	CENTER PROVIDENT OF	<b>M3</b>
8	WELSH RD.	BLUK GRASS
8	1ST	TRAFFIC SIGNAL



AMERICAN RADIO RELAY LEAGUE HARRY A. McCONAGHY, W3SW/W3EFC DRECTOR, ATLANTIC DIVISION

8708 FENYAY DRIVE -POTOMAC SETHESDA, MARYLAND, 20034

19251 747-5951

W3CL

HARRY B. STEIN ASSOCIATES

COMMUNICATIONS CONSULTANTS

MADOV D C7518

MARKMALE AYS. GLENSISE, PA. 1902-P

NE 7.8929

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

COMEON LINES EMENAL!

URIK.

907 CONVENT LANS MIRA . PA 19114

SWOR SHOP

FOR SALE: Class leve Transmitter: 6 and 2 meters, AM/CW, 180 W. input, Asking \$150.

Contagn: Mario Debuce, 33372

Fione: 215+343-6818).

FOR SALE: Drake Line TAX, RA, MSA and AC3 per supply. 8700. Seeke RAE Rove. 8350. Mooley 40.80 mtr. versions used

ence for field day, \$6%.

Connect: Wally Newall. K3JJC

Phone: 215-638-93040

FOR SALE: Complete South charact. SSB, AM. CW, Heath HX-30, Ameco CN 30 will own cupply. Dow-Key Ant. Relay. Cables and manuals.

Contant: Bruce Loss, WASYUR

3747 Werfield To.

Hungingdon Valley Fee 19006

FOR SALE: Dumont \$50 Mnz FM ris - 2 channel wor & rev. whaled for Walabs rper. Will operate on 12V AC(Reae) or 12V DC (Mobile), tontrol head, rables & mike included. 6 digit LED solld state nouncer. What frequence counts up to 45 Mnz is 100 Hz) butact: Richard Plence. Richard

2700 New Falls Road Newportvilke, Ps. 19056 Phone: 215-785-0058 FOR Sails Clagg, 278; 2 mm; EM with por supply, \$150 for radio, 850, for P.S. will Sell separately.

Contact: Al Spector, KiG

409 Waring St.

Philas, Par 19176

Phone: 215-0R 3-4341

20R SALE OR SWAF: Hallicrafters icin. SX-28-250. Ecophone rove. EC-1, \$20; Hawist-Paukard Audio Oscillator, 2000-325.; Heath Xmto. Cheyenne, MT1 \$40; Heath Transistorized pwr supply B7-10, for Sheyenne, \$20.; Standard signal gen. measurements model 84, \$50. Manuals for all above.

Contact: Al Schnipper. W3A7J 1409 Glenview St. Phila., Pa. 19111 Phone: 215-RA 5-2869

FOR SALE: Microwave Module "Pm. al2/144 Solid State Xverter, Works great with TS-300%. Tassu, Icomplete. Midland 13-509 220 Mhz acaiver with A chancels, including Pack-Rais Contact: Jerome Byrd, K3GNC

Phone: 215-842-3782

.\$5.



# BARRACKS TRADING POST

Camping • Electronics • Canvas

RY, 38 AT RUDDEROW AVE. MAPLE SHADE, N. J. 08052

HARVEY PRIMOST 409-662-6114

HEATHKIT Schlumberger

ELECTRONIC CENTER SCHLUMSERGED PRODUCTS CORP. OVER 300 ELECTRONIC KITS

#### TED HALDIS MANAGER

K3EPK

SSIS ROOSEVELT SLVD. PHILA., PA. 19149

ALE CU 0-0180



### 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

G. RADIO PARTS CO. 939 YOWNGHIP LINE RD. TELEPHONE: 215 - 565-5100

Authorized Distributor

HOURS CLOSED MONDAY TUE. & THUR, \$130-6:00 Web. & Fal, 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 KSAIG

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) 449-2300 Phila.: (215) 528-8120

### **KASS ELECTRONICS DISTRIBUTORS**



PADIO - TELEVISION PRODUCTS INDUSTRIAL ELECTRONIC PARTS & EQUIPMENT

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

ham radio *hi*- report Greenville, NH 03048

J.C. R/C HOBBIES

215/659-0770

Mon. & Set. 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

Day-Nite (215) 455-2121

K3KTY

215-567-7130

#### TRANSPORT EQUIPMENT COMPANY

"EVERYTHING FOR THE TRUCK"

JOHN A. TATE

Philadelphia, Pa. 19103

WA2MWB

CARL BARISH

# MELCO LABS

FERTIK'S ELECTRONICS .....

Components & Equipment

LEON FERTIK

5400 ELLA STREET PHILADELPHIA, PA. 19120

WB9PUJ

2215 - 2217 Race Street

#### RICHARD E. BOKERN

PRODUCT MANAGER
COMMUNICATIONS PRODUCTS OPERATION FORT WAYNE DIVISION

> 1913 PRODUCTION ROAD FORT WAYNE, INDIANA 46808 PHONE: (218) 482-4411

MAGNAVOX GOVERNMENT AND INDUSTRIAL ELECTRONICS COMPANY Bull

W3KKN

#### ERNEST KENAS

TOOL DESIGN
MANUFACTURING ENGINEERING DEFARTMENT

THE BUDD COMPANY AUTOMOTIVE DIVISION . ...

PHILADELPHIA, PA.

# BROWSING -THURS, 7 %9° SAT. 9"64" SOMERVILLE FIRE CO. TABON NO. FISCHER RODSEVELT BLYD. -- HORTH NYC.

#### People who look for peace get it.

-Guru Maharaj Ji

For information contact:

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

1 Year = \$15

3 Years= \$25

## maaazine for redio amateurs

PETERBOROUGH, NEW HAMPSHIRE 03458

FIELD MOWING - EASTERN PENNA.

#### GROUNDSKEEPING -

PHILA. AND SUBURBS INSTITUTIONAL - INDUSTRIAL - PRIVATE EQUIPMENT LEASING

PETER H. SMAVNEY LANDSCAPING

GLENSIDE, PA

WA30VH

886-1859 933.0451

#### THE AMERICAN RADIO RELAY LEAGUE, INC.

Administrative Headquarters Newington, Connecticut 06111

#### July 25, 1977

# ARRL BOARD MEETING HIGHLIGHTS

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

OFFICIAL BULLETIN NR 660 FROM ARRL HEADQUARTERS NEWINGTON CT JULY 23 1977 TO ALL RADIO AMATEURS BT

THE ARRL BOARD OF DIRECTORS AT ITS SECOND MEETING IN HARTFORD CT ON JULY 21 AND 22, 1977, APPROVED AN APPROACH FOR THE LEAGUE'S RESPONSE TO THE FIFTH NOTICE OF INQUIRY ON DOCKET 20271, THE WARC PROCEEDING WHICH WILL DETERMINE THE U.S. POSITION ON FUTURE FREQUEICY ALLOCATION. A FULL TIME STAFF COORDINATOR FOR MASHINGTON ARRL ACTIVITIES WAS APPROVED. THE BOARD ENDORSED RETENTION OF THE HOVICE PROGRAM AND THE PRESENT HOVICE EXAMINATION LEVEL AND THE GENERAL COUNSEL WAS INSTRUCTED TO PETITION FCC TO EXTEND THE 80-METER MOVICE BAND TO COVER 3675 TO 3750 KHZ. BOARD REHEWED ITS REQUEST FOR INCREASED VOICE SEGMENTS ALREADY ON FILE IN COMMENTS ON DOCKET 20282. AN ARRL HALL OF FAME WILL BE ESTABLISHED UNDER GUIDELINES TO BE DRAWN UP BY THE HEADQUARTERS AWARDS COMMITTEE. THE ARRL REQUEST TO AUTHORIZE TECHNICIAN LICENSEES ON ANY PART OF 50 AND 144 MHZ BANDS WILL BE RENEWED. A FOUR PART PROGRAM FOR LEAGUE REPRESENTATION BY THE PRESIDENT, FIRST VICE PRESIDENT, GENERAL MANAGER AND GENERAL COURSEL TO CONCRESSIONAL COLLITTEES WAS ADOPTED. A GROUP INSURANCE PROGRAM FOR LEAGUE MEMBERS ON A VOLUNTARY PARTICIPATION BASIS WAS APPROVED. NATTERS COMMITTED TO COMMITTEE STUDY INCLUDE A PROGRAM TO ENCOURAGE AMATEUR MICROWAVE ACTIVITY, CONFIRMATION REQUIREMENTS FOR SHIGHE MODE DXCC, RULES FOR PROVIDING AVAILABILITY OF ARRE TEMBER MAILING LISTS, CATEGORIES OF CLUB CONTEST PARTICIPATION, WAS MILEAGE REQUIREDENTS, ZERO BASE BUDGETING OF FUNDS AUTHORIZED BY THE BOARD OF DIRECTORS AND ARRL DAMED PLANS FOR 50 MHZ AND ABOVE. OTHER ACTIONS INCLUDED PREPARATION OF LISTS OF STOLEN GEAR TO BE MADE AVAILABLE ON REQUEST TO AMATEURS AND DEALERS FOR A TRIAL PERIOD OF ONE YEAR; EMDORSEMENT OF A PROPOSAL TO ESTABLISH A CODE OF ETHICS FOR ADVERTISERS; ENCOURAGEMENT OF EXPANSION OF AMATEUR EXAMINATION OPPORTUNITIES AT CONVENTIONS AND HAMFESTS; AUTHORIZATION OF A REQUEST FOR SPECIAL FCC TEMPORARY AUTHORIZATION FOR A STUDY OF MARROW BAHDWIDTH TELEVISION ON TEN LEGERS; LESTRUCTION TO THE CENERAL MANAGER TO PROVIDE A LEGAL GUIDE FOR ATTEMIA PROBLEMS; PROVISION OF HORE INFORMATION IN OST OF LOW PRICED GEAR FOR NOVICES; RELEVAL OF EFFORTS TO PERMIT USE OF ASCII BY AMATEURS; URGING OF FAVORABLE FCC ACTION ON PROVIDERS SPANISH LANGUAGE AMATEUR ELIAIS; PUBLICATION OF A QST ARTICLE ON WOMAN'S IMAGE IN ALATEUR RADIO; INCREASE IN AUTO TRAVEL RATE TO 17 CENTS PER HILE; REQUEST FOR HORE FLEXIBLE HOURS FOR FCC AMATEUR EXAMS; DISSEMINATION TO MEMBERS OF COMPLETE INFORMATION ON RFI LEGISLATION. COMMENDATIONS WERE MADE OF FORMER DIRECTOR ALBRIGHT FOR THE EC WORKBOOK AND OF THE DX ADVISORY COMMITTEE FOR ITS EXHAUSTIVE SURVEY. THE PROPOSAL TO START DXCC OVER IN 1980 WAS DEFEATED. COMPLETE MINUTES WILL BE PRIFTED IN SEPTEMBER OST. AR

## THE MODEL 14 RE-PURFORATOR

There are two basic styles of model 14 re-perforators, the typing and the non-typing. The non-typing reperforator punches the holes for mark all the way thru the paper tape but a character is not printed on the chad tape. This is like the model 19 perforator punch system but the model 14 uses the loop current of 60 mm and does not require a 1 A. 110 VDC supply.

The typing reperforator is a different type of machine in that the holes are not punched all the way around in the tape. This is called a chadless tape. The typing reperforator and the model 15 page printer are similar in operation and the entire selector system is identical. Both machines have similar type baskets. On the model 15 the horizontal type basket moves across the page; while on the model 14, the vertical basket does not move, and types down on the tape against a small flat rubber platen. The typing reperforator has the main shair mounted vertically with the selector system on the top of the machine.

Some typing reperforators use keyboards which differs from that of the model 15 page printer. That keyboard and base are cast as a single unit. However, the method of generation of Baudot code is identical. In the reperforator the code bars on the type basket are directly connected to the "T" levers of the selector system. No vanes and bell cranks like that of the model 15 are used since the type basket does not move. On the right hand side of the code bars there are extensions that go to the punch block system. The power for the punch system is mechanical and comes from the main shaft of the machines that is driven by a 110 VAC motor. On the lower part of the main shaft there is a large cam and its cam follower provides the power for the punch block system. Like the model 19 keyboard the character is first set by the code bar extentions and then it is punched. With the model 14 reperforator the character will be typed on the tape six characters behind where it is punched in the tape; and like the 19 when the punch operation is finished and the punch system releases, the tape advance system moves th tape ahead one position. When in the 'letters' mode, the model 14 types on the top of the chadless tape with the letter character on the type pallet hitting a small flat rubber platen, In the figures mode, the rubber platen moves to just below the feed hole and the 'figures' character on the type pallet is printed on the bottom of the tape hitting the platen in the 'figures' location. The ribbon system is somewhat similar to that of the model 15 page printer but there are some changes since one system is vertical and the other is horizontal. All characters in the 14 are punched and carriage return, line feed, blank, and signal bell are also additionally printed characters. The reperforator must faithfully reproduce what is received from the loop since the results of a carriage return or a line feed cannot be seen on a tape as on a page.

On some machines there is a system for spacing out tape at the beginning or ending of a tape. When, and as long as the space out lever is activated, the stop arm for the range finder is released; since all of the segments are in the mark condition as the loop circuit remains unbroken, the machine spaces out by punching and printing the character letters. Another feature on some typing reperforators is a mechanical method for back spacing the tape for correcting errors. To correct an error, count and back space to the error and then type the character letters over the error and all subsequent typing using the back space coung. Typing the character letters, which is five marks or holes, effectively deletes any other character that had any spaces present and the 'letters' character does not print when the tape is read... Note, if the error was in the figures mode, a figures will have to be typed before a figure character can be punched in the tape. However, this method of correction is only good for a character or two because too much back spacing tends to bunch up the tape which jams in the tape guide.

Reperforator tape is 11/16" wide and comes in 8" diameter reels. The reel is housed on the right hand side of the machine. On some machines there is an end of tape arm that follows the lever of the tape. When the arm gets near the center of the spool, the arm activates at alarm which is either a bell or a light.

The model 14 typing reperforator is not to be confused with the 2B strip printer that is somewhat like it. The 2B printer is essentially a model 14 typing reperforator without the punch system but it types the characters on a 3/8" wide gummed tape. This is the machine that produced the old style telegrams by pasting the printed gummed tape strips on a telegram bit is a nice machine to operate, but not much used today for 2 reasons. First, the 3/8" tape, gummed or ungummed, is almost impossible to obtain. Secondly, the tape is used once and thrown away. After an evening of RTTY activity, you end up with a trash can full of gummy tape stuck to everything.

### To Our Friends Of The Area - 2 Radio Club

#### From The Pack-Rate

By the time this reaches you, HKITL will have passed it's one-year Anniversary. We in the States have given the Moonbounce presentation to eight or ten groups and more are scheduled.

In the near future, I will send you photographs of the various awards which have been presented to the Moonbounce team.

It was while we were discussing these awards that the Atlantic Division Director of the American Radio Relay League, W3SW, Harry A. McConaghy announced that he would like to sponsor an award to Area-2.

I've asked that this award be presented to you from the Pack Rats sponsored by W3SW, Harry A. McConaghy.

I hope that it brings back fond memories, not only of HKITL, but also of the Pack Rats.

Each time you look at this plaque, you should be very proud because without you my friends, there could not have been an HKITL.

Bost regards to all of you and your families from all of us.

For The Mt. Airy VHF Radio Club

Elliott Weisman, K3JJZ Coordinator South American Moonbounce Expedition



If you agree that the FCC should be adequately staffed to do its job, you could help ease their burden by writing letters to your Senators and Representatives. Your letters should express your desire to staff the FCC with the people they require. The Office of Management and Budget (OMB) has cut the FCC Gettysburg staff at a time when it needs to be increased. Most Amateurs know that their local FCC examination offices and monitoring stations are also understaffed. Please take the time to write at least one letter to your Congressional Representatives. If you want a sample letter to modify for your own use, just send your request and SASE (Self-Addressed and Stamped Evenlope) to Bill Welsh (W6DDB) at W6LS.

(From LERC ARC Bulletin)

### DISASTER ANNOUNCEMENT

Hams again have been doing yoeman emergency duty in connection with the JOHNSTOWN 1200D.

As of this writing, licensed operators and equipment (HF rigs and 2 meter FM units) are desparately needed to relieve those who have been on duty for long periods of time. Those able to make it for a three day period are requested to report to the Cambria County Courthouse about 10 miles our of Johnstown, Pa.

Cheese Bits 2087 Parkdale Ave. Glenside, Pa. 19038





STEVEN M. SIMONS, WASWAS 8506 KENDRICK PLACE PHILA., PA. 19111

MT. AIRY VHF RADIO CLUB, INC.

FIRST CLASS

MEETING NOTICE