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AFFILIATED CLUB: AMERICAN RADIO RELAY LEAGUE

MEETINGS:

THIRD WEDNESDAY OF EACH MONTH AT 8:00 P.M.

VOLUME XIV

NOVEMBER, 1972

NUMBER 11

THE PREZ SEZ

Greetings for the month of November. Much to every ones relief, October 1st turned out to be a very nice day. The Hamarama was a huge success as those of you know who turned out. There were bargains galore to be had, as well as a very nice food stand in operation. Many thanks again to the committee, as this was an affair that the Club can be proud of and we will look forward to the first Sunday in October for years to come.

Remember fellas, there are only three months left to complete that project for Homebrew Night. Why not try to get it done for the January contest. To inspire some of you homebrewers, don't forget K2RIW will be our guest speaker in November. *Get your questions ready.

I would like to congratulate Chuck, WA3LNH and his Committee for the Club's nice showing in the June QSO Party. The Pack Rats finished second, though a little tricky to figure out. Though not originally planned as a Club contest, some of the largest scores were turned in by multi-operator stations. Multi-operator stations are a stimulation for the use of higher frequencies. A more detailed listing of the results would be nice, particularly above 1296 to show what is happening up there.

WA3LNH is also a group leader of a Moonbounce Project. At this point we are not sure the interest exists in the Club. The efforts of 6 to 10 dedicated Club members is required. If you have an interest in this type of project, please contact Chuck.

73,

K3BPP, Walt

PACK RATS' CHEESE BITS is a Publication of the Mt. Airy V.H.F. Radio Club, Inc., Philadelphia, Pa., and is published monthly.

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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.

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

MONDAY NIGHT NETS: NET CONTROL

145.2 - 7:30 P.M. W2EIF

Ac 50.2 - 8:30 P.M. W3CL/W3GEW

-221.4 - 9:00 P.M.

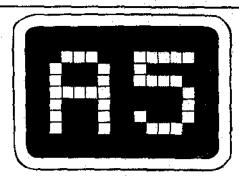
K3GAS

432.03 - 9:30 P.M.

K3IUV 1296.3 - 10:00 P.M. KlsFF/3

19:00 Hrs.

FRIDAY NIGHT NET: NET CONTROL 439.250 ATV NET -K3ZKO/WA3AXV



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CALENDAR OF COMING EVENTS Syllabus by Lee, K3MXM

OCTOBER

January Contest Co-Ordinators Meeting - QTH - K3GAS "Doc" Cutler, 7815 New Second Street, Melrose Park, Pa. 8:00 P.M.

NOVEMBER

- Board of Directors Meeting OTH W3FQD; Dick Huntzinger, 130 Fairhill Drive, Churchville, Pa. Directors and interested parties invited.
- 11 Delaware Valley Chapter QCWA Dinner Meeting Buck Hotel, Feasterville, Pa.
- VHF Space Net Contest 6:00 P.M. to 6:00 P.M.

 Exchange contacts and ZIP codes. See QST October Issue. Page 87 for full details. Send logs to Tony, WB2MTU, Box 909, Sicklerville, N.J.

 A good contest to enter and try out your rigs and antenna systems. This time of the year there are all sorts of odd openings at odd times. See how many you can catch!!! Support our good friend, Tony, in his contest.
- 11-13 ARRL Sweepstakes Contest Phone Portion
- GENERAL CLUB MEETING West Oak Lane Jewish Community Center
 Thouron and Sedgwick Streets, Phila., Pa. 8:00 P.M.
 Guest Speaker of the Evening Mr. Dick Knadle, K2RIW
 "Apollo Reception"
 Amateur Techniques for receiving direct communications from the moon.
 Also probably will talk about receiving and working the newest OSCAR satellite now up.

DON'T FORGET YOUR ONE ON ONE. ONE PRIZE ONCE A YEAR FOR MARIO'S AUCTION.

Refreshments after meeting.

Bring your friends. Open meeting to all interested.

18-20 ARRL Sweepstakes Contest - CW Portion
See October QST - Page 87 for complete rules and regulations.

DECEMBER

General Club Meeting - CLOSED to all but club members.

Preparations and final strategy for the January Contest. Packages
will be distributed. Make plans to attend this all important meeting.

JANUARY 1973

1 HAPPY NEW YEAR

6-7 *T-H-E****C-O-N-T-E-S-T*

"Pack Rat" Lewis Clement, K3AA, was the Guest of Honor at the 1972, Historical Radio Conference sponsored by the Antique Wireless Association. He was interviewed by Wayne Nelson, W4AA, at the Smithsonian Institution, Washington, D.C. on Sat., September 23, 1972.

The following appeared in the September, 1972, issue of "The Old Timer's Bulletin" of the AWA. It is a listing of the highlights of K3AA's career:

Radio amateur in 1905 (!) using carbon needle type detector -- heard Lee DeForest's radiophone signals used by the Atlantic Fleet when they visited San Francisco in 1908--obtained experimental license 6XB in 1912 from Department of Commerce--attended University of California -- marine radio operator "sparks" with calls WGE, WSG, WGS, WQC, 1911-1912--Worked for American Marconi between 1914 and 1916, at their Honolulu and Bolinas stations Kie/KET--Engineer with Western Electric/Bell Labs between 1916-25 (see accompanying article) Engineer in Charge of famous 1920 Catalina Island radiophone tests--helped develop SCR-68 and other WWI equipment-worked briefly with E.H. Armstrong before he left for Paris--Chief Engineer for FADA Radio (1925-1928) -- Vice-President and Chief Engineer KOLSTER Radio (1928-1930) -- Assistant to V.P. Westinghouse (1930-1931) -- I.T. &. T. Companies 1931-1935 as Chief Engineer or Technical Director at: Federal Tele. Co. (Newark), Kolster Radio (Newark), Kolster-Brandes (England), Lorenz (Berline, Germany), Bell Tele. Mfg. Co. (Antwerp, Belgium), La Material Telephonique (Paris, France), Szeija Nissl (Vienna, Austria), Standard Electric (Budapest, Hungary), Bell Tele. Mfg. Co. (Switzerland) and Standard Electric, (Italy). RCA: Vice-President of Research and Development (1935-40), Crosly: Vice-President Research & Development (1940-1959). Consulting Engineer for various companies from 1959-1972. Clement is the author of numerous technical articles and the holder of many offices in the professional field. In his 60 year career he has known or worked with many familiar names such as. Ellery Stone, F.A.D. Andrea, N.H. Slaughter, David Sarnoff, E.T. Cunningham, Dr. Zworykin, R.A. Heising, E.H. Coplitts, Lloyd Espenschied, Haraden Pratt, Dr. A.N. Goldsmith.

VISITORS OCT. 18, 1972, Pack Rat Meeting, Phila., Pa.

Glenn Codrick, Phila., Pa. WN3SQE, Ron Tyahla, Phila., Pa. WA3SPR, George, Phila., Pa. WA3RCA, Pete, Glenside, Pa. WA3HOW, Bob, Warminster, Pa. WA3HOP, Bob Bolland, Phila., Pa. W3FSC, Oscar Jacoby, Whitemarsh, Pa.

V.H.F. REPORT Jo. W2EIF

The six meter band continues with low activity and still an occasional opening. The two meter band activity particularly at the low end (144.110) has been more or less normal for this time of year. There was one very good opening on 2 on September 27th which extended into the morning of the 28th. Unfortunately the opening was north of a line which seemed to be drawn from the South shore of Long Island. all the way west. To the North of the line stations from Chicago, Michigan and Wisconsin were working into the New England area on all bands up through 432 MHZ. South of the line nothing was heard whatsoever. W8YIO and W8DGF continue to be the mainstays of the Western stations using 144.110 at 9:00 p.m. each evening. October 11th produced a good coastal opening and I managed to work W4VHH in South Carolina on 432. Nothing was heard on 2 or 220 at the time:

The big news is that the Satellite Oscar 6 is now in orbit. The data is as follows:

Input Freq. 145.95 Mhz ≠ 50 Khz Beacon Freq. 29.45 Mhz also 435.1 Mhz

Output Freq. 29.5 Mhz ≠ 50 Khz Each Orbit Occurs in 114.95 minutes

Each Pass Covers 28.74° that is if there is an orbit to the east of you say at 50° (equator crossing) the next orbit will be $50^{\circ} \pm 28.74^{\circ} = 78.74$ and would pass to the west of Phila. The orbits are inclined 12° from the vertical. The satellite coming up from the South would be traveling 12° from the vertical toward the Northwest, and coming from the North would be traveling 12° from the vertical (that is north and south) or slightly southwest. Normally, it is easy to copy the passes which are overhead and also the previous pass to the east and the subsequent pass to the West.

CW seems to be the mode used for the most part, but SSB seems to be giving a good account of itself. Particularly, because the information rate of SSB is about 4 or 5 times that of even 50 WPM CW. Stations which have been copied here include K9HMB Chicago, K7BBO, Washington State, W5HN, Dallas and numerous other 4's,5's, 6's, 7's, 8's, 9's and Ø's.

sections 1, 2 and 3, are heard also but it is considered that these could be worked without the satellite. The only thing that has marred the event so far has been the interference caused by local Philadelphia/New Jersey hams who chit-chat on the satellite channel; from their conversation they apparently are ignorant of the satellite being up and probably could care less. Antennas need not be anything spectacular. A two meter ground plane is recommended for transmitting (use low power) and a crossed dipole set up in the back yard will do for the ten meter antenna. You can use an 80 meter dipole if you want to (that's what I was receiving on).

Good Luck!

Editors Note: See the antenna construction article by Jo, W2EIF.

TID BITS

Mort, WA3EPS, flys a Cessna Skylane around the countryside.

The "HAMS" sign on the main highway in front of the Warwick Fire Company attracted a number of motorists wanting to know about the "Ham Supper"! What! No beans?

Marsha, WA3TEM (Cheese-Bits Typist) ran the Hamarama Registration desk all day.

Same familiar calls seen at the Delaware Valley Radio Association Auction on September 15th - K3MXM, WA3BIV, K3WJB, K2OJL, WB2PQZ, W3CL and W3AEH.

Our condolenses to an old friend BB Wentzel, W3HX on the recent passing of his XYL. Louise.

A late report from Gathersburg on October 22 -- over 5,000 registered. The morning rain didn't damper the spirits - many Pack-Rats attended. Ron, K3ZKO and Carl K3DLS went to the Hudson Div. Convention at Tarytown, N.Y. the day before and then on to Gathersburg the next morning. Whew, what a drag!

HAMARAMA, 1972

Bright, clear, sunny Sunday, October 1st was a memorable event in the affairs of the Pack Rats. Probably the most successful event the club ever put on came off as smooth as clockwork at the Jamison, Pa. Warwick Fire Hall. 350 persons registered for the nice array of door prizes and 64 dealers and assorted hams registered for selling space, both indoors and along the fair midway-type of set-up just outside the building. The crowd was large enough for comfort and the job they did on the Ladies Aux. hotdogs, and hamburgs was very gratifying. The ladies of the Fire Company expressed their pleasure at dealing with so many good natured and friendly people. Most of the dealers and other sellers seemed happy with the action and the whole affair was capped off by a spirited auction conducted by K3JJZ who did an excellent job. What bargains!

An Affair such as this can only be a success if the committee pitches in to lend a hand wherever needed and the gang who either were appointed or volunteered for their jobs sure came through. Those straw hats, symbolic of the committee members seemed to be everywhere. Here is the list that is the official committee, but many others helped out as needed. W3ZD, Chairman; K3GAs, Treasurer; W3HK, Publicity; WA3BIV, Secretary; K3UJD, Site and Building; K3ZKO, ATV Demonstration; K3MXM, Table Manager; W3HKZ, 6M Talk-In; WA3AXV, 2M Talk-In; Ticket Sales, K3IGX, W3TMY, WA3DJF, WA3NGK, K1SFF/3 Talk-In Ops, K3DLS, WA3HIT; A special thanks for the fine job at the registration by WA3TEM, Marsha ably assisted by her father, W3CL. Many others filled in with second jobs of parking cars when a hitch developed in this area. Any names left out are not passed over intentionally! Clean-up of the whole mess was taken care of in just 20 minutes and the fellow pushing the broom was the SCM of E.Pa., W3HK. A nice cooperative effort all the way around. The first Sunday in October has been selected for repeat next year and I will look forward to seeing many of our friends again.

For those of you with 2 meter FM in the car and are wondering which crystal to obtain, here is a typical list as compiled in Auto-Call by Jim Crossman, W4AUF. Also check with listings in various Ham magazines:

	13/73			28/88 *	
146.	16/76 *	Mhz.		31/91	•
	19/79 *		146.	34/76	Mhz.
	22/82			34/94 *	
	25/85			37/97	

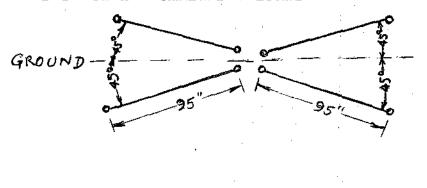
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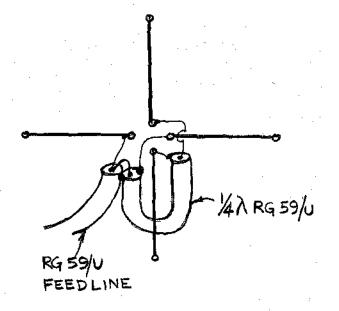
* Local Philadelphia area
Simplex operation - 146.52 Mhz (National)

146/58 Mhz (Local Philadelphia)
WCAU Amateur Radio Club 6 Meter FM Repeater - WA3KUR
Input - 52/76 Mhz/448.8 Mhz - 52.72 Mhz (N.J. shore)
Output - 52/64 Mhz/443.8 Mhz
Simplex operation - 52.525 Mhz (National)

10 Meter Antenna for Receiving Satellite Signal By Jo-W2EIF

Crossed Dipoles
Frequency - 29.5 Mhz.
Polarization - Horizon and vertical
Direction - Omnidirectional





Mount each dipole antenna at right angles to the other and slant the halves down toward the ground at a 45° angle. Feed one dipole with RG 59 coax, the center conductor goes to one half of the dipole and the braid goes to the other half of the dipole. Connect a 1/4 length of RG 59/u to the first dipole connections and connect the other end to the 2nd dipole i.e. braid to one element and the center conductor to the other.

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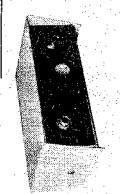
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* * * * * * * * * * * * * *

we are reviewing our list of exchange papers, addresses, editors, etc. After the December issue of Cheese-Bits, it will be sent only to those publications that respond accordingly!

TID BITS

Thanks to Gene, WA3AKK, for donating material to the Club for sale at the Hamarama.

We also wish to thank AG Radio for the good deal on Hamarama Prizes.

Did you see El, K3JJZ, triumphantly running across the parking lot at the Hamarama carrying a used vacuum cleaner-said it cost 50¢ only, but K3UJD was breaking up-no motor in that machine:



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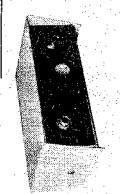
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SPECIAL HAM NET WITH 100 FT. 8 WIRE CABLE REGULAR HAM NET-