PACK RATS





MT. AIRY VHF RADIO CLUB, INC. MT. AIRY V.H.F. RADIO CLUB, INC., PHILA., PA (50.2, 145.2, 221.4, 432.03 & 1296.3 Me)

ARNS

AFFILIATED CLUB: AMERICAN RADIO RELAY LEAGUE

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

VOLUME XV

PEBRUARY, 1973

NUMBER 2

THE PREZ SEZ

Greetings! The Contest is over for another year and I am sure all had a good time. The "Crying Towel" meeting was a blast. I want to thank Harry. WABNOK and his able bodied committee for doing such a good job. the club did real well with a score of over 550,000 points. So as not to let the Contest spirit run dry, we will again participate in the June QSO Party with KlSFF/3, Tony as the Chairman. Let's all do our part ad help to win this year. As noted by some careful observers: This column mentioned that we were third instead of second in the 1972 event. SORRY! Some other noteworthy details are top single operators: KisFF/3 and WZEIF in their respective sections in the September OSO Party.

Let's not forget Home Brew Night - Maybe there will be some simple F M circuits.

K3BPP, Walt

FROM ARMS BULLETIN OF MAY, 1972

"Contests are a terrible irritant to those who are not participants, and find the frequencies they like to use cluttered with stations piled up on each other exchanging contest reports. But we will have to admit one thing: A contest is the acid test of equipment performance and operator ability to get the most out of the station over an extended period." From Reflected and Directed, by George Goldstone, WEAR

MAKE THIS NOTE ON YOUR CALANDER: THE ABRIL GENERAL MEETING WILL BE THE 4TH WEDNESDAY - APRIL 25TH INSTEAD OF THE THIRD WEDNESDAY!

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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DEADLINE FOR ARTICLES IS THE GENERAL MEMBERSHIP MEETING. TO SEE DESIGNATED LOCATIONS.

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EDITOR:

K3GAs, Doc Cutler 19:00 Hrs. 7815 New Second Street Elkins Park, Pa. 19117 215 - ME 5-1078

PRINTER:

K3ZKO, Ron Cohen 6629 North 5th Street Philadelphia, Pa. 19126 215 - 224-3036

TRUSTEE OF CLUB CALL: W3CCX W3SAO, Francis Brick 821 W. Lindley Avenue Philadelphia, Pa. 19141 215 - DA 4-7524

AWARDS CHAIRMAN:

W2EIF, Joseph Kilgore #5 Sunnybrook Court Stratford, New Jersey <u>OFFICERS:</u> 1972-1973

PRESIDENT: K3BPP, Walt Bohlman VICE PRES : W3FQD, Dick Huntzinger

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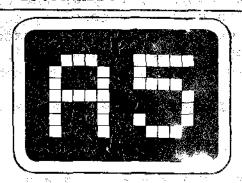
DIRECTORS:

W3CJU, Don Hampton WA3AXV, Ron Whitsel WA 3NGK, Harry Brown KlsFF/3, Tony Souza K3ZSG, Bill Murphy A-A-S. (Ex-Officio)

> DIRECTORS MEETINGS ARE HELD ON THE SECOND WEDNESDAY OF EACH MONTH AT

MONDAY NIGHT NETS: NET CONTROL 145.2 - 7:30 P.M. W2EIF OR: 50.2 - 8:30 P.M. W3CL/W3GEW W3CL, Harry B. Stein 221.4 - 9:00 P.M. K3GAS 2087 Parkdale Avenue 432.03 - 9:30 P.M. K3IUV Glenside, Pa. 19038 12.96.3 - 10:00 P.M. KlSFF/3

FRIDAY NIGHT NET: NET CONTROL PUBLISHER AND SUBSCRIPTION MANAGER: 439.250 ATV NET - K3ZKO/WA3AXV



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CALENDAR OF COMING EVENTS Syllabus by Lee, K3MXM

FEBRUARY

- 3 4 Space Net Contest Sponsored by WB2MTU, Tony
 A good contest to enter and deserves the full Pack Rat Support
- 11 Lancaster, Pa. Hammest. Details on Nets.
- Board of Directors Meeting, QTH 103 KKN
- General Club Meeting West Oak Lane Jewish Community Center
 Thouron and Sedgwick Streets, Philadelphia, Pa. 8:00 P.M.
 HOME BREW PROJECTS Here is your chance to show to your
 peers what you have been doing and can do with a soldering
 iron and some baling wire. Suitable prizes for each catagory.

Open Meeting to all Pack Rats and their friends. Silent Auction and Mario's Raffle Refreshments will be served.

Moonbounce Committee Get-Together. Plans are being formulated and prjects are getting under way. Come on out and join this newest club program. Help is needed in planning, construction and "figuring things out".

Coming Events

MAY 5TH

Ladies Nite - Buck Hotel, Feasterville.

Remember, One-saventh of your life is wasted on Mondays

A WORD FROM THE JUNE V.H.F. QSO PARTY CHAIRMAN TONY, KLSFF/3

At the January General Meeting, perhaps you saw the ARRL Section Award the club won as a result of our participation in last June's V.H.F. Contest. Maybe you didn't know that we placed second overall less than 10% below the leader. This could be our year. Reserve June 9th and 10th to join your friends in Hilltown, Pa. in another fine effort. First June Contest meeting for all interested parties is set for 8:00 P.M. February 7, 1973, at the QTH of Doc, K3GAS. Volunteers are meeded to supply trucks and station wagons to haul all the contest gear up to Hilltown and back. See you at Doc's!

Editors Note: Talking about awards -- El, K3JJZ won a red "Crying Towel" at the January Meeting for a heart rend_ing story: The Towel was beautifully sewn by Rose, the XYL of the SS Chairman, Harry, WA3NGK.

VHF REPORT BY JO , W2EIF

Another contest has come and gone. Conditions were pretty much as they have been in the past. Some lousy signals on the air and a lot of overmodulation, flat topping, and even oscillating rigs! One CW rig on two meters had such a bad signal that I couldn't even find the frequency he was operating on. Noisy conditions prevailed but it was compensated a little by a nice opening on Sunday afternoon which netted quite a few sections for those on six. Western Mass. was not worked from here for the second year in a row and did not work New Hampshire for the first time in years. Activity was down on six meters, but up on 144/145. The upper bands were not too well populated during the contest as usual. However, I can't complain since I bettered last years effort. Band conditions to the West have been good all fall with W8DGF and R8III in Ohio coming through regularly. The big news is that Carl, W2AZL was able to work W6PO in California via moonbounce on 144 in Mid-January. Carl uses a quad of 11 element cushcraft The California station also uses a KW and a tiltable antennas and a KW. array of Colinear beams. Carl reports that the signals were very similar to the quality received via Tropo from Ohio.

TID BITS

- The Philadelphia County ARPSC hopes to participate in the city's emergency Drill on May 4th. Those operators who would like to help should contact Paul, WA3HIT at 722-4411.
- Our best wishes to Tony, WB2MTU, who escaped with minor injuries from that recent airplane accident at O'Hare Field in Chicago.
- Congrats also on the tremendous showing on the reborn Space Net on Friday evening Jan. 5th on 50.2 MHZ. We understand Tony forgot and was calling CQ Space Net at 3:00 a.m. Sunday during the recent VHF SS.
- -- WA3FOF, Ralph, received his ARRL Public Service Certificate at a presentation at the club's Jan. 17th Meeting. The certificate was in recognition of his work during the Hurricane Agnes disaster (Nov. 1972 QST)
- -Our apologies to Steve, WA3PIR, whose call was left off the Pack-Rats list of stations. Steve ran up a beautiful score during the Jan. VHF SS (14,092)
- -Sgt. Harry F. Brick, Jr., op of W3SAO was married Dec. 24, 1972, to Doris Krill of Quakake, Pa. The wedding took place in a little white church in Barnesville, Pa. The reception was held at the bride's mother's QTH. Harry and Doris are now residing in Millington, Tenn.
- Those of you desiring to raise your license or have harmonics or youngsters desiring to learn amateur radio, there are two courses starting at the Franklin Institute, Grades 7 to 12, Sat. Mornings 10 am to 12:30p.m. Irvin Lusky, Scott Paper Co., instructor. At the Springfield Adult School Intermediate and Advanced, Monday Eveings 7:30 p.m. to 10:00 p.m. a chance to advance your grade of license. Instructor from Mobile SixersRadio Club.
- -W3CL on membership: New application: K3HIN, Richard Albert, 11219 Halstead Street, Phila., Pa. 19116, Sponsors, K3JJZ and WA3BIV.

FROM THE SCM EPA

"Pack Rat", a respected name in VHF circles. Why? Well, the Club, The Mt. Airy VHF ARC, which is made up of "Pack Rats" has an active loyal membership and when they set a target they mean business. They don't always obtain their high goals, but almost!

Now the Club got enough members to join ARRL so the Club could be affiliated with ARRL. This should have been the first step to getting all members to join ARRL and obtain league VHF appointments. Somehow this target has never been reached.

So why not join ARRL. It's not perfect, but unless we join and support it, we might not have anyone defending us. Further, you can do something to correct league errors by being an active voting member. Appointments are available to league members. You as an ARRL member can obtain a ver certificate, if you are interested you can be an OO, or an ORS or OPS. There is no cost to you and you get on ARRL's mailing list for all the latest news. One requirement, try to remember to mail a report card to the SCM each month.

Let's work on the non ARRL members and then get the members to request appointments. You get a nice piece of wallpaper for each appointment.

73,

George, W3HK

WA 3RCA STATION ACTIVITIES CHRISTMAS WEEK

The day before Christmas, a phone call was received from Paul Rilling, WA3HIT, AREC Director from Philadelphia requesting assistance for relaying long haul traffic from the patients at Abington Memorial Hospital. Each year a six meter station is set up at the hospital with local messages passing through the local civil defense VHF network and long haul and foreign traffic being relayed through NTS or MARS. Last year about sixty (60) Christmas greetings and get well messages were handled, about half being local and half long haul. This year we were surprised at being requested to handle the long haul traffic through our Club station—WA3RCA. It seems as if the station that handled it last year was not available and few of the VHF stations have the HF facilities to immediately relay to NTS. This year therefore, we agreed to take time off from our usual Christmas day activities and man the club station from 10:00 A.M. till 2:00 P.M.

Shortly, after checking in with WA3MXM/3 at the hospital, it became apparent that nearly all of the messages were long haul which meant that they would have to be received by our six (6) meter station and then relayed later to NTS either directly or through an intermediary. By eleven AM with about 27 of our 30 messages being long haul, I called for a break and phoned W3INW (ECARS Officer) and WA3QQO for assistance. Bob very nicely arranged a sched (CONTINUED)

WA3RCA STATION ACTIVITIES CHRISTMAS WEEK CONTINUED

with WA3QOZ, the local NTS traffic handler for 1:15 p.m. at 3850 on 75 meters. By that time, Joe had arrived and while he was furiously copying the final thirty messages, I passed most of the traffic to QOZ, from the Loband shack while Joe worked the six meter link with the hospital. A total of ninety (90) incoming messages were received and written up on ARRL radiograms. Most were dispatched within a few minutes to an hour of receipt.

Looking back; the messages handling exercise appears to have been very worthwhile, with much experience gained all around, not to mention the book to the spirits of the patients at the hospital. This is the first time that a really large volume of message traffic was successfully handled here excellent practice for the S.E.T. on the last weekend of the month. Separation of the operating facilities into a separate VHF and HF shack with a third room wired and ready to go, make emergency use or high volume message handling a distinct pleasure for a multi-op station such as PENNARC. Please note that third party restrictions apply also to ARRL radiograms and we made the error of accepting several messages for foreign countries which do not accept third party traffic; NTS would not accept these and neither should we have accepted them.

Pete, WA3OVH, Trustee

NEW PRODUCTS OF INTEREST TO HAMS BY LYN, W3NSI

1. Ten-Tec Model 315 Receiver

The new #315 receiver covers the amateur bands between 10 and 80 meters and has many interesting features. It is all solid state, and uses, permeability tuning with a calibrated slide rule dial. The tuning knob also has calibration settings on the skirt with approximately 25 Kc per revolution. A 100 Kc calibrator is built in, along with a 25 db attenuator to cut the received signals, making the check points more noticeable. A single conversion circuit is used with a 9 Mc crystal lattice filter, with an optional 300 Cy CW filter available. Most of the circuits are built onto 5 plug-in boards. Price \$229 Ten-Tec, Sevierville, Tenn. 37862.

2. Swan Transmitter/ Receiver Units

The Swan Company has introduced three T/R units with input powers as follows: SS-15,15 watts. SS-100,100 watts, and SS-200,200 watts. All units are about the same size 12 1/2 wide, 6 high and depth from 10 1/4 to 12, depending on power. You can see there is little advantage from the standpoint of space used, however, the power drain on receive is only 1/2 amp and averages 6 amp on transmit with the highest power unit. No transmitter tuning is required, as all circuits are broadbanded. A crystal cal. and noise blanker are built into the receiver section. Price \$579, 699, 779 for the 3 models. Swan Electronics, 305 Airport Road, Oceanside, California 92054.



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Shakespear mobile 6 meter whip with loading coil. Power inverter (Workmore, Sarasota, Fla.) Converts DC to operate AC unit - 125 watts intermittent - 100 watts constant. CONTACT: Herm, K3GOZ for reasonal deal. HO 4-6555

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THE AMERICAN RADIO RELAY LEAGUE, INC.

ADMINISTRATIVE HEADQUARTERS NEWINGTON, CONNECTICUT, U. S. A. 08111

OFFICIAL DAGAN

January 22, 1973

ARRL BOARD MEETING HIGHLIGHTS

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

OFFICIAL BULLETIN NR 410 FROM ARRL HEADQUARTERS
NEWINGTON CONN JAN 19 1973 TO ALL RADIO AMATEURS BT

THE BOARD OF DIRECTORS OF THE AMERICAN RADIO RELAY LEAGUE MET IN HARTFORD, CONN., JANUARY 18 AND 19 FOR TWO DAYS OF INTENSIVE EVALUATION OF AMATEUR RADIO MATTERS IN GENERAL AND LEAGUE AFFAIRS IN PARTICULAR. A MAJOR ACTION WAS THE UNANIMOUS ADOPTION OF A RESOLUTION EXPRESSING DEEP CONCERN OVER THE APPARENT TREND TOWARD RESTRICTIVE REGULATIONS CHARACTERISTIC OF RECENT FCC ACTIONS. DIRECTORS REPORTED STRONGLY ADVERSE MEMBERSHIP REACTION TO CHANGES IN AMATEUR RULES, ESPECIALLY IN THE AREAS OF REPEATER OPERATION, MESSAGE TRAFFIC HANDLING, AND PHONE BAND SUBALLOCATIONS. BOARD DIRECTED LEAGUE OFFICERS TO UNDERTAKE A VIGOROUS PROGRAM TO SEEK REASONABLE PHILOSOPHIES OF REGULATION AND INTERPRETATIONS, CONFERRING AS NECESSARY WITH APPROPRIATE GOVERNMENT AGENCIES FOR THE PURPOSE OF ASSURING THE CONTINUED AVAILABILITY OF TRADITIONAL LATITUDES AND FREEDOMS AND THE FULL PUBLIC SERVICE CAPABILITIES ESSENTIAL FOR THE WELFARE OF THE AMATEUR RADIO SERVICE. LOOKING SOME YEARS AHEAD, THE BOARD ASSIGNED TO THE NEW INTERNATIONAL AFFAIRS COMMITTEE THE TASK OF UPDATING AND FORMULATING MORE DETAILED PLANS FOR REPRESENTATION OF AMATEUR RADIO AT AN EVENTUAL HIGH FREQUENCY WORLD RADIO ALLOCATIONS CONFERENCE. THE BOARD CHOSE AMSAT TO RECEIVE THE TECHNICAL MERIT AWARD, PARALLELING A SIMILAR ACTION TO PROJECT OSCAR SEVERAL YEARS AGO. ADMINISTRATIVE SUPPORT WAS AGAIN VOTED FOR AMSAT, WITH ARRL ASSUMING RESPONSIBILITY FOR EDUCATIONAL, PUBLIC RELATIONS AND INTERNATIONAL PROMOTIONAL ASPECTS OF AMATEUR SPACE COMMUNICATION. STUDY WILL BE MADE OF A SPACE TRACKING STATION INSTALLATION AT LEAGUE HEADQUARTERS. AN EVALUATION OF AMATEUR PERFORMANCE IN PROVIDING EMERGENCY COMMUNICATIONS DURING RECENT DISASTERS PROMPTED THE FORMATION OF AN EMERGENCY COMMUNICATIONS ADVISORY COMMITTEE. ITS TASK IS A STUDY OF FREQUENCY PLANS, AS WELL AS DUTY ASSIGNMENTS AT HEADQUARTERS, SEEKING IMPROVED EMERGENCY COMMUNICATIONS CAPABILITIES. THE RESPONSIBILITIES OF SECTION COMMUNICATIONS MANAGERS WERE EXPANDED TO INCLUDE VOLUNTARY ACTIVITY IN THE AREAS OF PUBLIC RELATIONS, CLUBS, RECRUITMENT AND TRAINING. THE BOARD APPROVED SPECIFIC GOALS AND OBJECTIVES SUBMITTED BY THE PRESIDENT AND BY THE GENERAL MANAGER. IT REFLECTED THE PRESENT DIRECTORS ON THE EXECUTIVE COMMITTEE, MSSRS CLARK, EATON, GRIGGS AND THURSTON. ADDITIONALLY DIRECTED A STUDY OF THE LEAGUE ORGANIZATIONAL STRUCTURE, INCLUDING DUTIES AND RESPONSIBILITIES OF THE PRESIDENT. MINUTES OF THE MEETING WILL APPEAR IN MARCH QST.

PHILADELPHIA AREA REPEATER ASSOCIATION

In December 1970, the Les Voyageurs and the Main Line VHF Association merged to become what is now known as the Philadelphia Area Repeater Association (PARA). Present membership totals nearly 100 members.

One of the reasons for the merger was to unify 2 meter FM operation in the Philadelphia area and to help prevent frequency misuse and interference; a dilemma which already existed in many large metropolitan areas.

The PARA officers for 1973 are:
President - K3JPB, Bill Winter
Vice President - W3GJC, Bill Cusick
Treasurer - WA3GAA, John Chapman
Rec. Secretary - WA3TEM, Marsha Stein
Corres. Sec. - WA3MDP, Dick Teasdale
The directors for 1973 are:

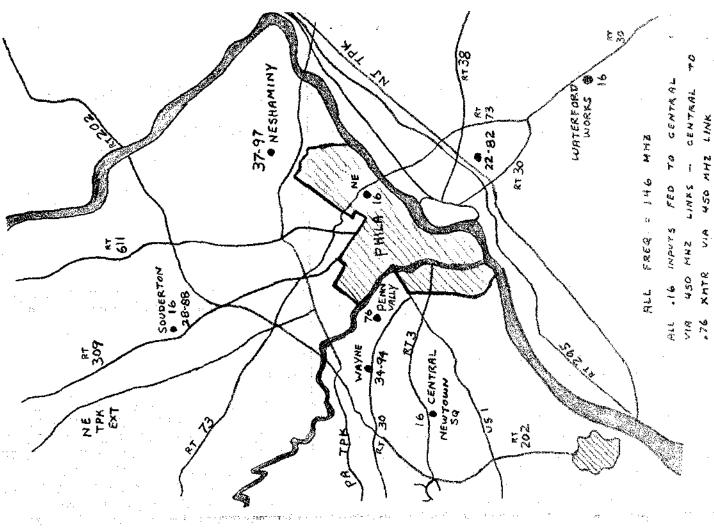
NW quadrant - W3DYQ, Al; W3CQC, Tom

NE " - K3ZPH, Sam; K3ZFD, John

SE " - K2QIJ, George; W2BHK, Joe

SW " - W3VN, Alan; K3ECV, Dick

Anyone desiring further information concerning the repeater organization may contact any of the above directors.



THE SURPRISING MOON

For as long as man has been on this planet, he has gazed at the varying luminous shapes of the moon with intense curiosity, aware almost from the beginning that this heavenly body was linked somehow with his own destiny. For several hundred years man struggles to magnify the power of his eyes to study the surface of the moon in an attempt to discern something of its true nature. Finally, in July, 1969, man solved this problem by successfully transporting his own eyeballs to the lunar surface and beginning the genuine exploration of that body. Along with himself, man brought an ingenious array of scientific instrumentation to the moon, capable of measuring various physical phenomena and transmitting data back across a quarter million miles. In the two years since man fulfilled his age-old longing to go to the moon, he has learned some strange and wondrous things. The moon proved full of surprises.

Very few of the pre-Apollo theories about the moon have survived. The vision of a cold, dead planet has given way to an amazing variety of geological activity detected and measured by the Apollo instrumentation. Perhaps the most astonishing and interesting discovery is the possibility that water exists in sizable quantities in some form below the lunar surface. There is enough evidence pointing in this direction to merit an experiment aboard Apollo 17 to probe for confirmation.

Two Rice University scientists, Dr. John Freeman and Dr. H.K. Hills are "80 per cent certain" that water vapors are issuing through cracks in the lunar surface during periods of frequent small moonquakes.

Confirmation of the existence of significant quantities of water or ice below the lunar surface would add a completey new dimension to the scope of lunar exploration. But there have been many other surprising discoveries on the nature of the moon since Apollo II. Far from being dead, the moon has considerable seismic activity in moonquakes of regular frequency and of a type that does not occur on earth. Heat has also been detected toward the core of the moon estimated as high as 800F. The moon has a greater magnetic field than estimated. It is a mineral storehouse of tremendous magnitude with some elements in combinations rarely or never found on earth.

Beneath its surface are both a rubble or honeycomb type of structure and massive concentrations of solid material. There is growing evidence that the moon at one time had volcanic activity and there are gases other than water vapor that vent to the surface during periods of large moonquakes. These may account for the orange coloration observed for more than 150 years by earthbound astronomers.

All of these major surprises have resulted from the first four manned explorations of the moon. In addition there is a sizable accumulation of other scientific data to be refined from the instrumentation still functioning on the moon and the nearly 400 lb. of lunar rocks and soil samples returned by the four Apollo crews. The moon has already proved to be a scientific bonanza regardless of what more material benefits may be realized eventually.

(CONTINUED)

THE SURPRISING MOON CONTINUED

With the bountiful scientific harvest of Apollo 15 and the opportunity to fly scientist-astronauts on Apollo 17 and beyond, the scientific community now find sitself running out of Apollo missions. Apollo 18, 19 and 20 have been scrapped to save money, despite the fact, now obvious, that they would offer the maximum opportunity for scientific lunar exploration.

y kalayan ematmotran yepikan saka akang sak 1995 finantah alam kalamatan balamatan balamatan kalamatan kalamat

It is no longer the same old moon smiling down on us that it was before Apollo. It is a moon that is full of surprises. Having piqued his own curlosity with the initial discoveries there, it is certain that man can never again ignore its lure.

Director, VHF SPACE NET

50TH ANNIVERSARY N.R.L. (S.G.)*

MOONBOUNCE LISTENING TEST ONLY

(SUBMITTED BY JO KILGORE, W2EIF)

There will be weekend listening periods during March and April, 1973. The geometry has been chosen for minimum interference to S.G. operations.

Three bands on frequencies 1296.000, 432.000 and 144.050 MHZ will be used for sequential periods. The part concerning the East Coast is broken out as

	TIME PERIOD			
<u>DATE</u>	www.a <u>.cGMT was to</u> was to	MHZ	<u>GHA</u> O	DECLIN. O
March 31	1030 - 1100		1 . 199 (1994) 134 (1994) 137 (19	70 s
April 1	, 1230 - 1300	432.000 &	Sec. 2.30	1.5° s
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Transmit the following format over and over for the 30 minute period at a speed of 10 W.P.M. "NRL NRL TEST TEST DE (Your Call Twice)"

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S.G. Means Sugar Grove (W.Va.) receiving site.

Spencer, W3QQH, 884-8469

more than the contraction of the

SANTE TO THE RESERVE OF THE SANTE OF THE SAN SWAP SHOP CONTINUED FOR SALE: Westinghouse 2 mtr. FM RCA CMV 3 110v ac. 52.525 \$75 General Radio 805Sig Gen. 20 Linear Amp. pr. 813 W/supply 75 U44BET 450 FM mobile w/acc 50 Hallicrafters HT 32B National HRO 60T w/coils Heath HO-10 scope 50 BC 342 Rcvr 110 v ac 20 Fisher 220T Hi Fi rcvr/amp Motorola 80D T+R Hi band 48 4 6 7 4 25 AR22 Rotator & control Misc. parts and cabinet to the last 10 MCA151 6FM base 2 freq. w/ Above from Estate of W3AJO; See C.R. xtals 125

MT. AIRY VAR RADIO CLUB, INC. SUMMARY OF CONTEST SCORES JANUARY 6-7, 1973 VHF SS

CALL	CONTACTS *	SEC.	SCORE	CALL	CONTACTS	XSEC.	SCORE
w3ajf	150	111	6300	WHEY	182	10	7280
WAJAQA	204	4	5698	WAJHIT	192	3	4992
W2AXU	106	22.	6784	мзнк	229	13	10534
YXAEAW	419	20	25140	WA2HVD	125	īď	5000
K3BOY /	129	5	3870	QUIEAM	175	Ā	4900
K3BPP		10	11600	K3IGX	193		5404
W3BRU .	119	4	3332	WASIMT	73	8	1898
W3CCX *	135	3	3510	кзірм	582	27	43068
W3CL	333 248	11	13986	kaina .	353	18	19740
W3CJU	248	6	7936	kijja	314	7	10676
W3CXU	54	8 .	1944	WABUSR	94	3	2444
Wasdje	211	3	5473	Wakkn	403	23	26598
K3DLS/3	115	3	. 2990	K3KMN	285	18	15960
K3DMA	257	6	8224	Myskoi 2	-188	24	12750
wa3dno/3	302	16	15704	K3 KTY	186	11	7812
W2EIF	411	22	26304	WABLNH/3 9	304	20.	18210
W3ELX	230	6	7360	kamen .	240	6	7680
K3EOD	263	15	19150	WABNEK	311	11	13062
KBEPB	177	· 3 📉	4602	K3MM	181	\$	5430 🛪
Wajeps	201	5 %	6030	IBMEW	140	, d	3920
W3FGQ	180		5012	кзову	135	1	3510
WA3FOF *	241	9	9118	HYOCAW	188	∰ \$	6768
W3FQD	180	9	6840	WASPIR	270	16	14040.
K3GAS	286	Y Y	10868	W3PST/3	84	4	. 2352,
W3GEW W2GGB	31 1	2	6330	klsrr/3	272	14	13056
K3GOZ	135	1	984	MB382K/3	98	3	2548
K3 G QJ		. 5	3510	Warmy	145	4	4060
-K3GQJ/3	228 26	18 2	12750	/ RSUJD	126	5	3780
			624	KBVEQ	60	3	1560
	Y CARL AND Y			W3ZD.	424	21	26288
				K3Z6G	379	21	23405
			· 、城市公约进入	Section 1			
					ТОТА	T = .	564756

⁶⁰ Logs Submitted 59 Members Participating 40 Logs Over 5,000 Points

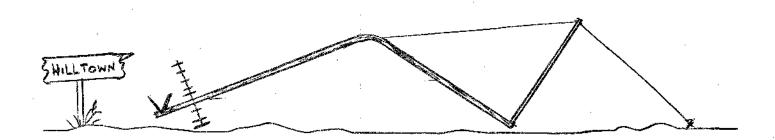
W3CCX = Club Station (Operator W3SAO)

^{5&#}x27; One Way Contacts

STATIONS THAT SCORED OVER 5,000 POINTS

1. 2. 3. 4. 5.	K3IPM W3KKN W2EIF W3ZD WA3AXV	43068 26598 26304 26288	: : :	21, 22. 23. 24.	W3HK WA3FOF K3DMA W3CJU	10534 9158 8224 7936
6.	K3ZSG	25140 23405		25. 26.	K3KTY K3MXM	7812 7680
7. 8.	K3IUV WA3LNH/3	19740 18210		27.	W3ELX	7360
9.	K3KMN	15960	•	28. 29.	W3HFY W3FQD	7280 6840
10.	WA3DNC/3	15704	:	30.	W2AXU	6784
11. 12.	WA3PIR W3CL	14040 13986		31. 32.	WA3OVH W3GEW	6768 6330
13.	K3EOD	13150	:	33.	W3AJF	6300
14. $15.$	WA3NGK K1SFF/3	13062 13056		34.	WASEPS	6030
16.	K3GQJ	12768	: .	35. 36.	WA3AQA WA3DJF	5698 5473
17.	WA2KOI	12750		37.	K3NMN	5430
18. 19.	K3BPP K3GAS	11600 10868		38. 39.	K3IGX W3FGQ	5404 5012
20.	K3JJZ	10676	:	40.	WA3HVD	5000

The following members participated in the final recap at W3ZD's QTH on January 20,1973: W3AJF, WA3AQA, WA3AXV, WA3BIV, K3KPP, W3CL, K3DLS, W2EIF, W3FQD, K3GAS, K3IGX, K3IPM, K3JJZ, K3KMN, WA3LNH, K3MXM, WA3NGK, W3SAO, K1SFF/3, K3UJD, W3ZD and WB2SZK.



LOOKS FAMILIAR? WE AREN'T THE ONLY ONES THAT HAVE SUCH TROUBLE!!

FROM: NEWSLETTER -- MIDDAND ANATEUR RADIO SOCIETY (BIRMINGHAM, ENGLAND)

LAS VEGAS SAROC CONVENTION, BY WASTEM

On Thursday, January 4, 1973, I flew to Las Vegas, Nevada for the Annual SAROC Ham Radio Convention held at the Flamingo Hotel. I was prepared for a few days of leisure basking in the warm Nevada Sun only to find out from the pilot before landing that the daytime temperatures ranged from 25 to 30 degrees and the night temperatures as low as 18 degrees. Obviously, that was the end of my bathing suit for a few more months.

The hotel was jumping with hams from all over the country, however, the majority of those attending were from California who drove their cars. Looking around the parking lot at the hotel was like seeing a sea of antennas, some automobiles having as many as ten antennas on the front hood, rear trunk lid, rear bumper and of course on the roof. It seemed that no matter where I went, either to other hotels on the strip or into town, I couldn't go without seeing at least a few cars loaded down with antennas. I think that for three days Las Vegas was taken over by "Hams". The casino's, hallways of the hotel, restaurants and the lounges were overrun by hams with handy talkies constantly in use.

The convention didn't actually get going until Friday morning at which time there was registration, scheduled speakers and of course the exhibit hall with various booths set up. Some of the company booths that I visited were as follows: International Signal Corp.; Motorola; Drake and Swan. A few of the organization booths I visited were QCWA, ARRL, YLRL and 73 Magazine.

It seemed that everyone came prepared with posters for their booth, so when Clegg and 73 didn't have one, I proceeded into town and got a few sheets of poster paper and magic markers and made each a sign.

There were several thousand people attending the convention and I was fortunate to meet many very nice people including Ed Clegg. W2LOY and his "XYL" (ISC, Clegg Division); Bill Ford the Editor of "The Printed Circuit" from California; John Waller, W3FSU of Surplus Electronics in Washington; Harry J. Dannals, W2TUK President of the ARRL; Richard Cowan, WA2LRO the Publisher of CQ Magazine; George McGinley, W6OGM, President of Swan Electronic W7UV, the President of Western Single Side Band Association; Wayne Green of 73 Magazine and many more.

After a full day of convention going and playing the 5¢ one arm bandit machines, a full night of casino hopping and show going was in order.

So, after three full days of fun and meeting many great people. I was once again in the air on the way back to Philadelphia to remember winning some money, losing some money but most of all having a great time with all those at the SAROC convention.

73,

Marsha

Cheese Bits 2087 Parkdale Ave. Glenside, Pa. 19038



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