

# PACK RATS' CHEESE BITS



MT. AIRY V.H.F. RADIO CLUB, INC., PHILA., PA.  
(50.2, 145.2, 221.4, 432.3 & 1296.3 Mc.)

CLUB CALL: W3CCX  
AFFILIATED CLUB: AMERICAN RADIO RELAY LEAGUE

EDITOR: HELEN BRICK, XYL, W3SAD

MEMBER: AMATEUR RADIO NEWS SERVICE

MEMBER CLUB: DELAWARE VALLEY COUNCIL OF AMATEUR RADIO CLUBS

MEETING NOTICES: LAST PAGE



VOLUME IX

JULY 1966

NUMBER 4

## OUR PAST PREZ SEZ



Results of the election are inside. My congratulations to our new officers and my most grateful thanks for those officers who have helped me. I know that our new officers will keep up the good work of their predecessors in keeping Mt. Airy in the enviable position that it holds.

The June QSO Party was a perfect example of teamwork and knowhow in bringing home the bacon. Those who missed this event only have themselves to blame. We will have slides on this shortly.

The next three meetings will be held at member's QTH's, so PLEASE take care of your trash and put it into a receptacle. Also BRING YOUR OWN CHAIRS.

Remember that we are always looking for workers to help run the various activities of the club. See your new president, or see me, and we will put you on a committee where you can show your worth. In this way, we may find our future club officers.

As my year's activity, as president, comes to a close, may I say that my activity, as a Pack Rat will continue. I intend to keep an eye on "Cheese Bits" and to see that our own members put in the bulk of the material.

73, K3GAS, Doc

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### COMING MEETINGS

JULY 20, NASA FILMS OF GEMINI IX, QTH OF W3JSD, JOHN HOUSER  
AUGUST 17, WHITE ELEPHANT SALE, QTH OF W3MFY, PRES FUNK  
SEPTEMBER 21, AUCTION SALE, QTH OF W3LHF, DAVE ZIMMERMAN

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DEADLINE FOR ARTICLES IS THE 20th OF THE MONTH.

ALL INFORMATION SHOULD BE SENT TO THE

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AWARDS CHAIRMAN:

W2EIF, JOSEPH KILGORE  
#5 Sunnybrook Court,  
Stratford, NJ 08084

DIRECTORS MEETINGS are held on the second Wednesday of each month at designated locations.

MONDAY NIGHT NETS:

7:30 P.M. - 145.2  
8:30 P.M. - 50.2  
9:30 P.M. - 221.4  
10:30 P.M. - 432.3

CODE PRACTICE:

7:00 to 7:30 P.M. MONDAY  
thru FRIDAY, 50.2 Mc. by  
W3CL, Harry Stein.

OFFICERS: 1966 - 1967

PRESIDENT: W2EIF, JOSEPH KILGORE  
VICE-PRES: W3LHF, DAVID ZIMMERMAN  
COR. SEC.: W3SAD, FRANCIS BRICK  
REC. SEC.: K3WEU, PAUL BEHRMANN  
TREASURER: W3MVF, DAVID BLOCH

DIRECTORS: W3ELI, GEORGE VAN DYKE, JR.

K3HSS CHARLES LUSTICK  
K3JJZ, ELLIOTT WEISMAN  
W3MFY, PRESTON FUNK  
K3DIV, RALPH HERSH  
(EX-OFFICIO)

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JULY BIRTHDAYS

K3KUB, WALT; K3ZPD, BOB; WA2CDP, LOU;  
W3IXL, ELLIS; W3MVF, DAVE; and K3UJD,  
MARIO.

Congratulations and may God grant you life to enjoy many more.

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PHILA. COUNTY AREC

ED: K3FYS, MOLLIE SILVERSTEIN  
132 E. Colonial Street,  
Phila., PA 19120

(next column)

GENERAL MEETING: First Wednesday of each month at 8:00 P.M.

PLANNING MEETING: Fourth Wednesday of each month at 8:00 P.M.

EXCERPTS FROM A LETTER FROM W3ELI, GEORGE VAN DYKE, JR., SEC. E. PA.

WHAT HAPPENED TO PHILADELPHIA COUNTY ARPS?

"It's a good question, what happened to Philadelphia County ARPS?"

It seems to me, we, the first members and older hams, have lost steam. We also have failed to bring in new blood, particularly the new and younger ham of today....further, we, all of us, didn't plan a long range plan for ARPS, we only acted from day to day, and finally, with no goals ahead, got fed up. This isn't new, it occurs in all types of organizations. Those that survive do something about it. The doing is YOU, no one officer or leader can do it, NO FEW can do it either for too long, it must be a combined effort by ALL HAMS.

We established regular nets on 2, 6 and 10 meters with regular net controls...our nets have nearly disappeared (2 meter; none.); net controls are hard to find; on recent exercises we barely got enough mobiles to do the job....We have changed net time on 6 meters to 7:30 P.M. right after the Mt. Airy VHF Club code practice session (Thursday)....The 9:00 P.M. time was stated as too late. Anyone interested in operating a 2 meter net on 145.2 Mc., 7:00 P.M., Thursdays, PLEASE COME FORWARD.

We held regular meetings with 40 in attendance, out of 200 members. Now we meet, but less than a dozen attend. Our next meeting will be held at Germantown Town Hall, Germantown Ave, and Haines St., 8:00 P.M., Wednesday, July 6, 1966. Here we have a regular type meeting place, parking facilities and possibly closer to the general membership, than the Fox Chase School. Our August meeting will be held in Belmont Park, CO Center, another excellent meeting place. By the end of summer, we should settle down to the best area in which to meet. Any suggestions on a place to meet, large enough, ample parking and with no fee involved should be sent to K3FYS for consideration by the Planning Committee.

Let's get with it and show the world that Philadelphia County ARPS is a responsive group, genuinely interested in the future of ham radio and dedicated to Public Service."

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(Some of the "few" faithful workers were recently Honored by the Legion of Honor of the Chapel of the Four Chaplains, and each received the following letter. We will list the calls of those we know. Unfortunately, no calls were listed in the letter of

(2) recommendation.)

THE CHAPEL OF FOUR CHAPLAINS  
1855 N. Broad Street  
Philadelphia, PA 19122

Dear .....

The Chapel of Four Chaplains has formed a LEGION OF HONOR which is purely honorary in character. The names of those persons selected will become a permanent part of the Chapel records, always open to public view. The honor also carries with it a certificate citation which has pictures of the three Chapel altars surrounded by religious symbols of the Roman Catholic, the Jewish and the Protestant faiths.

We believe the work you have accomplished for others is worthy of recognition and if you have not already received a citation, we would be most happy if you would accept our invitation to become a member of our LEGION OF HONOR. There are no responsibilities, financial or otherwise, attached to the honor, which we are giving solely on the recommendation of:

Edith Rosner

.....The date and hour of the presentation will be:  
June 12, 1966 at 2:30 P.M.

.....

Sincerely,  
(Sig.) Walter H. White,  
Chaplain-in-Charge

\*\*\*\*\*

Those who received the citation are;  
K3KTY, John Tate; W3NSN, Charles Waugh; K3WEU, Paul Berhmann; W3EUI, George Van Dyke, Jr.; W3GPD, Stanley Hirsh; K3VBA, Charles Monahan; K3FYS, Mollie Silverstein; WA3CND, Howard Candy; K3PPI, Herbert Paul; W3ISN, Bud Heilbron; WA3BIS, Horace Eltonhead and K3ZXO, Vincent Kelly.

(My apologies to Edith Rosner, I found she included the calls following the address instead of the name.)

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(A discription of the service and the citation by K3FYS, Mollie.)

"Each week they honor a different faith. This time it was the Jewish. They started with the Protestant Alter in view but switched to the Jewish. They had a male and female choir from a neighborhood center that sang two Hebrew numbers and a Psalm.

The citation has a picture of the three altars in black on a white background, and reads; FOUR CHAPLAINS LEGION OF HONOR MEMBERSHIP PRESENTED TO and then the name of the recipient. This is followed by; Chapel of Four Chaplains, Phila., Pa. In recognition of outstanding service to all people regardless of race or faith. This award symbolizes for all Americans and for all time the unity of this Nation, founded upon the Fatherhood of One God. Then there is a circle in gold with a Cross, Star of David and Ten Commandments inside the circle. Outside the circle, are four Gold Stars, one for each Chaplain who went down with the sinking ship in WW II, to which the signatures of Chaplains Walter H. White and Daniel Poling are affixed."

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EDITOR'S CORNER

Like to know what's happening on the bands? Then don't read "Cheese Bits"! According to the Pack Rats' reports the bands are dead! Absolutely no activity! That's something I can't understand, especially when I hear the 8's, 8's, 9's, 6's and 7's coming through on six meters. I read activity reports in the exchange papers, but never receive one for "Cheese Bits"!

You will note that W2AXU, Jack, has presented five technical articles this month, ALL FROM 6 and 7 land. That's all well and good and I am happy to reprint, besides it makes the other editors feel good to see it reprinted. What's wrong with the technicians (Not license class) in Mt. Airy? Are they building and improving only things for themselves? Have they nothing to share? Even a year's free dues did not rouse them. Remember, the best article contest includes technical as well as other articles. The next contest runs from now until December. How about submitting something!!!!!!

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June 19th Xmitter Hunt Results

It was hidden on Cedar Hill Farms, Route 152, north of Chalfont, Pa.  
K3UJO, Mario and W3OJU, Don found the two meter xmitter at 3:00 P.M.  
WA3CAG, Dave and K3IPM, Stan found the 6 meter xmitter at 2:15 P.M.  
The next hunt will be held on Sunday, July 24 from 1:00 to 3:00 P.M.

This is my final report as President of the Pack Rats for the year 1965-1966. My thanks to all officers and committees who helped make this past year a pleasant and easy one. Without their able help, I would have had a hard time managing our affairs. I know that the new officers will continue to carry on in the Pack Rat traditions and keep us in the forefront of VHF and UHF activity. The following calander will summerize the year's activities.

July, 1965

Outdoor meeting at QTH of W3JSD. Slides were shown of members shacks and of previous picnic  
Death of W3UMI

August, 1965

Annual Picnic  
White elephant sale at QTH of W3LHF

September 1965

Club sponsored W3ELI for director ARRL Atlantic Division and W3ZRQ for vice-director  
Introduction and sale of new Pack Rat lapel pins

October 1965

Pack Rats set up station for United Nations Week  
Teletype talk by W3MFY and WA3CAG  
Death of W3IBH and W3CFS  
Futuristic committee appointed

November 1965

Code practice sessions started by W3CL  
Talk by K3AA on old time radio practice

December 1965

Closed meeting about January Contest  
6 meter transmitter purchased by the club  
"Cheese Bits" mailed first class for better service

January 1966

CQ Trophy received by top scorer, W3MFY for 1964 contest  
Sweepstakes contest with almost all participating  
Death of K3LBT

February 1966

Antenna talk by W2AXU and W2EIF

March 1966

K3DKH was our speaker on Engineering Education here as compared with Russia  
Death of W3CPT  
Movies of Gemini 7-6

April 1966

Very successful Ladies' Nite at Buck Hotel  
1st Pack Rat of the Year Award to W3CL  
Ash trays with Pack Rat insigna presented to members in January contest  
K3UJD spoke on Sideband and W3LHF on Tuning Errors

May 1966

Large group of Rats attended Phil-Mont R.C. meeting  
Ed Tilton joined us for dinner and meeting presenting January contest gavel and certificates to K3IPM and W2EIF section winners  
Successful transmitter hunt  
New Pack Rat badges shown  
Nominations for Officers presented

June 1966

QSO Party came off without a hitch  
"Cheese Bits" article contest winner was K3JJZ  
40 ft. tower purchased by club  
Election held  
K3IUV talk on Weather Satellites

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ELECTION RESULTS

PRESIDENT.....W2EIF, JOSEPH KILGORE  
VICE-PRESIDENT.....W3LHF, DAVID ZIMMERMAN  
CORRESPONDING SECRETARY.....W3SAD, FRANCIS BRICK  
RECORDING SECRETARY.....K3WEU, PAUL BEHRMANN  
TREASURER.....W3MVF, DAVID BLOCH  
DIRECTORS.....K3JJZ, ELLIOT WEISMAN  
W3MFY, PRESTON FUNK

THE JUNE 11th & 12th V.H.F. QSO PARTY

By W3SAO, Frankie Brick

I was given an order by the co-ordinator, W3CL, to be at the BUXMONT RIDING CLUB, HILLTOWN, PA. by 2:00 P.M. on Friday, June 10th. I arrived at 1:45 P.M. and found the Bell Telephone man waiting to install the phone in the six meter shack. This was a convenience we never enjoyed before. Now our XYL's could check up on us.

At 2:15 P.M. old Jersey Jo, W2EIF, arrived with his Hertz trailer full of goodies. While awaiting the arrival of the towers, Jo and I were busy little beavers. We pitched Jo's tent in daylight for a change; unloaded the six meter rig and set it up in the shack. All guy lines were cut to length and ready to go. Both cars and trailer were unloaded and gear stored in their proper place.

At 4:30 P.M. W3MFY, Pres, and WA3CAG, Dave, arrived in the TREVOSE EXPRESS with the two 40 Ft. towers and the six meter beam and rotator. Thanks to Pres and Dave for arriving on the time designated. By the time the rest of the work party arrived we four had all the guy lines attached to the masts, rotors on and wired and the six meter beam installed and ready to go up.

The rest of the work party in the order of their appearance: K3DUW, K3JJZ, W3CL, & K3HSS, W3CJU, W3LHF & K3UJD, K3QBY, W3CXU & K3ZPQ, K3EOD & K3GQJ, WA3CAG, K3IGX & K3ZVD plus any I have missed. Oops, forgot K3GAS, sorry.

The next big job, after erecting the 40 Ft. six meter tower, was to get Jo's 50 Ft. fishing pole up vertical. He decided to clip about 8 Ft. off the pipe holding the stacked arrays. It went up in fine style when all was set with his ladder gim pole.

Poor old Mario, K3UJD, had his anxious moments. Even before we lifted his so-called mast 5 Ft., it began to sag like the expression on his face. Dr. Mario held a conference with his interns and decided we would have to amputate the last section of pipe in order to get the THING into orbit, topped by OLD GLORY.

The last to go up was the 40 Ft. two meter tower, no problems encountered. We all had plenty of practice by now.

A fine intercom system was installed by K3GQJ, Jack, with K3EOD, Al, assisting. He held the ladder while Jack chopped the wires. Each station had four push buttons, properly marked so that instant response was attained. Nice going, Jackson.

While all this four ring circus was in progress, our demon cameraman, WA3CAG, Dave, was putting the events on film for posterity.

NOTE TO XYL'S: At some future club meeting you will all be invited to view these films after they have been passed by the Board of Directors.

Jersey Jo's trailer shook the heck out of the equipment on the way up from Stratford on Avon. The six meter rig was sick and he busted an 807 (tube) in his 220 Mc. rig.

We left for home about midnight, with the exception of Indian Jo and Feasterville Jim who crawled into their tepees for the night.

As I was leaving my QTH Saturday morning I received a frantic landline call from W3LHF, Dave, to stop at his QTH and pick up needed repair parts, such as an 807 (tube) and a meter, co-ax, etc. In fact, I had already left, and Mother Rat caught me at the store where I stopped to pick up soda. When I arrived at the site at 11:45 A.M. it was nice to know that for once they were glad to see THE SCOURGE. The six meter rig was working and on the air, thanks to Dr. Kilgore. Jo got his 220 Mc. rig on as soon as it got a swig of an 807.

W3LHF, Dave, replaced a bad co-ax lead on his Johnson 6 & 2 VFO, and two was ready to go after some minor refinements to the 28 element beam.

All rigs were on the air by 3:00 P.M. and the first station worked on two was one in W. Mass. All rigs remained on the air until closing time, 11:00 P.M. Sunday.

ODD-BALL EVENTS:

The maintenance man, cutting the grass, ran over a stake and blew a tire with his Jeep. Result; one mad man and one deflated tire.

WA3CAG, Dave, climbing to the top of the two meter tower with movie camera, then running out of film.

Indian Jo, wrapped in his blanket, aroused at 3:00 A.M., leaving his tepee, to service the six meter rig.

(Continued, next page)

QSO Party (Cont'd)

W3CXU, Johnny, making W3SAO beat out a CQ on CW and having W3RUE, W. Pa. come back to him. This unheard of act was the cause of K3IUV, Bert, working W. Pa. on 220 Mc.

WA3CQO, Jay, making coffee that did not need a cup to hold it, just a knife to slice it with. Thanks Jay, at least it warmed us up in the Arctic Circle.

Competing with a DOG SHOW on Sunday. Hams and dog lovers each thinking, "Poor hopeless souls, what a hobby to waste time on."

W3CXU, Johnny, going gung-ho on CW to get Ontario, Canada and Ohio to build up the two meter sections.

The six meter group working Mt. Equinock, Vt., Mobile/, GSB.

The Feasterville Kid, K3ZVD, Jim, sticking to his post in spite of the cold and an upset bread basket.

Thanks to all who supplied the labor and the mirth in case I forgot to mention anyone.

NOW FOR THE SCORES: BELIEVE IT OR NOT!

<u>BAND</u>	<u>CONTACTS</u>	<u>POINTS</u>	<u>SEC.</u>	<u>MULT.</u>
50 Mc.	401	401		30
144 Mc.	350	350		20
220 Mc.	55	110		9
432 Mc.	33	66		8
1296 Mc.	+ 1	+ 3		+ 1
	839	930		68

TOTAL: 930 x 68 = 63,240 points

The membership owes a vote of thanks to the following:

W3CL, Harry, for an excellent job of co-ordinating this event, as a result, no loss of time or equipment in the course of transporting and setting up.

W2EIF, Jo, for a fine job of rebuilding the club owned six meter Xmtr.

K3GQJ, Jack, for installing the intercom system, the best yet.

W3LHF, Dave, for the loan of his two meter Xmtr which never failed once.

W3CXU, Johnny, and K3IUV, Bert, for their CW operation to get exotic sections on all bands.

K3PXT, Carmen, for the donation of the refreshments. Also W3CXU, Johnny and W3CL, Harry.

WA3CQO, CHUCK WAGON JAY, for his coffee and cake.

W3MFY, Pres, for transporting towers and beams.

WA3CAG, Dave, for camera work, day and nite, rain or shine.

Before we left Sunday nite we had dismantled the 220 and 432 masts. The next day the mop-up squad led by W3CL, Harry, took down the two and six meter towers and beams. He was assisted by W3MFY, Pres.; WA3CAG, Dave.; W3CJU, Dan and Jr. op. (some Jr. op.; 6ft tall and 175 pounds); and W3BRU, Frank. W3BRU, Frank, kindly consented to store all the guy wires, stakes and two meter beam, etc.

We wish to thank all club members who succeeded or tried to contact W3CCX/2

We also like to thank K3HNP, Dave Heller, the CQ, for the card reminding us of the slight infraction of the rules by saying /3 instead of /location on six. (Ed. Note: I can't understand why he used Zulu time, which is military, not amateur time, and besides the card definitely states Standard Time.)

With the experience gained in this contest we hope to reach 100,000 points the next time around.

W3CL, Harry, joins me in saying, "Thanks to our loyal PACK RATS for a job well done."

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DID YOU KNOW

That K3ABK, Sam, is returning to the hospital for a check-up in July?

That WA3EHD, Jim, is taking a month's course for indoctrinization for the blind at the University of Pittsburgh?

That K3IUV, Bert, was in the hospital for three days for the removal of a cyst?

That K3E0Z, Herm, was in the hospital for six days for a check-up?

That W3SAO, Frankie, told me not to break-up his article and put it all on one page? How long does he think the stencils are?

PACK RATS THEME SONG

Completed by Joan Polin, XYL of K3KVS, Jerry

Tramp, tramp, tramp the Rats are marching,  
Chomp, chomp, chomping on their cheese.  
They're never second best,  
They always lead the rest.  
Let's hear it for the Pack Rats, if you please!  
Rah, rah, rah -

CQ, CQ, CQ, let's all cheer them,  
Cheer these rodents brave and bold.  
QSO's are the sound  
Of fun when they're around,  
So swing your beam and get into the fold.

OK, Mario, now tune up your gee-tar, and the rest of you rats learn the words  
so we are ready for the picnic.

Not only are the rats nuts, so are their XYL's. Thanks Joan.

\*\*\*\*\*

K.U.I.

By W3HKZ, Ed Kushner

SUN STORM MAKES EARTH QUIVER

From Technician-Engineer

Measurements taken by the Coast and Geodetic Survey's magnetometer stations in the Santa Cruz mountains show rapid fluctuations in the earth's magnetic field because of the appearance of a storm on the sun. The total vector (strength and direction) of the earth's magnetic field changed at a rate of 50 to 75 gammas an hour during the sun storm activity, compared with a normal rate of four to five gammas.

The solar storm, which kicked up toward the end of January, appears to signal the end of the Year of the Quiet Sun. (underlining supplied by Ed.) (Kushner, that is, not I.) The sun is alternately stormy and quiescent in 11-year cycles, with the peak of activity expected in 1969. (Ed. note: That corresponds with the last great band opening of 1958. Look for Hawaii here in the east on six meters.)

Solar storms send out long, invisible streamers, associated with high-energy storm spots on the surface of the sun, that reach deeply into our solar system. Measurements taken with the aid of our Pioneer VI interplanetary spacecraft have indicated the increased activity, and an unusually swift solar wind.

A stream of particles from the sun is rushing past the earth at about 1,440,000 miles an hour. The highest yet measured by U.S. space scientists is 1,675,000 m.p.h., but scientists point out that we have yet to take readings during times of maximum solar disturbances.

To get measurements with the aid of the spacecraft, Stanford University scientists send out data from the University's 150-foot radio telescope at Palo Alto, California, and find out how it has been altered on the way by the electron content of the space between.

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TWO METER NOTE

Look for WAZFUR, Walt, portable 1, in New Hampshire from June 24 to September 4, 2200 to 2400 each evening. Walt plans to operate from a 4200 foot mountain on Tuesdays, his day off.

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ARRL BULLETINS

NR 63, JUNE 2, 1966

As a result of studies and recommendations by the Amateur Radio Service Subcommittee of the National Industry Advisory Committee, FCC on May 26 issued public notice approving all outstanding RACES plans as interim plans for Amateur Radio Service. To that end, state and local civil defense directors should submit two copies of present RACES plans to their regional director, Office of Civil Defense, not later than Aug. 1, 1966, for transmittal to NIAC. Others are also requested to submit requirements for amateur emergency communications services to the Executive Secretary, NIAC, FCC, Washington, D.C. by Aug. 1, 1966. July QST ARPSG has the full details. AR

(Since the other Bulletins are just as lengthy we will continue them on the last page rather than break them up.)

17 June, 1966

Dear Rats:

Have just finished looking over the June issue of Cheese Bits and found it very interesting. I suddenly came to realize that K3FDH has been QRT for a year now and thought it was about time I dropped you a line on how we are making out in the Pacific Northwest.

This is not Philadelphia! VHFers are hard to flush out of the hills during most of the year. Now that the band is open the local rats seem to have crawled out of the pinetrees and are all hollering QDX. When the long rainy nights of winter set in these types are not heard on the band. Oh well, after operating in packrat country would a guy be happy operating anywhere else?

The family is well and happy and this area seems to agree with them. Any rats who have been to Seattle will tell you that when it's not raining this area is among the most beautiful on God's green earth. I intend to do some mountain topping this summer on 14,000 foot mountains. The problem is how to get generators up through the July snow.

Grampaw Bill, in his June article, recalled how in the early days of radio he was on the air using his initials as call letters. Bill, your old call is still on the air!

Best of 73 to all the rats,

(sig.) Larry, WA2WAM/7  
ex K3FDH

P.S. Enclosed find 1 dollar to cover mailing for the next little while. PLEASE keep Cheese Bits coming out here.

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To fill in space, I would like to pass along this bit of advice to the parents of young children. Of course, if your child is grown you have missed the boat.

HOW TO RAISE A DELINQUENT

1. When he picks up bad word, laugh at him  
This will make him think he's cute.
2. Never give him any spiritual training, wait until he is 21,  
and let him "decide for himself."
3. Give a child all the spending money he wants. Never let him  
earn his own. Why should he have things as tough as you had  
them?
4. Satisfy his every craving for food, drink and comfort.  
Denial may lead to frustrations.
5. Take his part against neighbors, teachers, policemen.  
They are all prejudiced against your child.
6. Prepare for a life of grief.  
You are bound to have it.

From "Shack-Yak", Boystown, Nebraska  
Editors: WA2NCT & WA2NCU, the two  
Bernie's

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PIRATE RADIO

I know you all have read about the Pirate Radio Station being captured off the coast of England for non-payment of equipment bills, but how many of you read what one member of Parliament told the others when they were discussing what to do about the Pirate Radio Stations. Radio in England is not like radio in the U.S. with paid commercials. The Pirate Stations operate on the U.S. principle. This one member told the others, "Stop crying, and join them."

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SOUTH JERSEY'S 50th ANNIVERSARY

BANQUET & GALA CELEBRATION

WHEN? SATURDAY, SEPTEMBER 10, 1966 TIME? 6:30 P.M. (Assumed)  
WHERE? IVYSTONE INN, PENNSAUKEN, N.J.  
LIMITED RESERVATIONS: CLOSING DATE: JULY 30, 1966, PRICE: \$7.50 each.  
SOUTH JERSEY RADIO ASSOCIATION, P.O. BOX 316, HADDONFIELD, NJ 08033  
CHOICE OF: PRIME RIB ROAST of BEEF or LOBSTER TAIL



Submitted by, W2AXU, Jack Power

From May, 1966, "Bandspread", Cedar Valley A.R.C., Cedar Rapids, Iowa

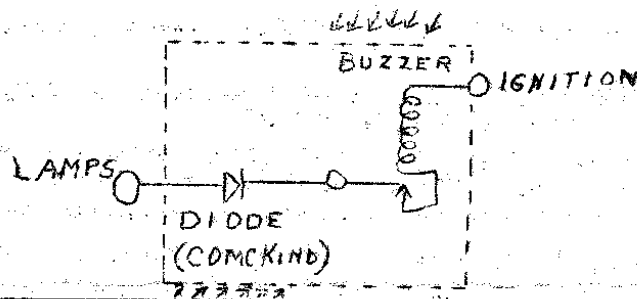
BATTERY-SAVER

I've tried several types of "light minders" for my car. The one shown below is the best so far - overall. By placing the diode in the buzzer case, the assembly is easily insulated. The buzzer is a door buzzer available from dime stores - don't use code practice buzzer. The door buzzer usually makes one contact right to the case; thus the need to insulate it.

The "LAMPS" callout in the drawing means any accessory that can operate with the ignition off such as headlamps, dashlamps, etc. Anything but interior lights - these should be left alone or the warning will sound when the doors are open. Usually you can pull out a plug-in light somewhere behind the dash and tap into it.

The "IGNITION" callout in the drawing means any load that operates only with the ignition on such as the radio, etc. Best place to get a tap here is probably near the fuse bank if you have one or simply tap into the lead to the radio. The door buzzer is plenty loud but if you're deaf, place a small speaker in series with the buzzer and the lead to the ignition connection. Small signal diodes are OK, like 1N91, or any rectifier diode; you'll have to go out of your way to get one that won't work - maybe a 1N21. I recommend this thing. It's quite loud enough to send the children running who might turn your light on and is audible about 40 feet from the car - scares the %@\*+ out of you!

--Ray, WAFNEA



NOTHING DETECTOR

This month's "What's it for" project is an experimenter's circuit that might be called a voltage "drop-in" or "anti-null" detector.

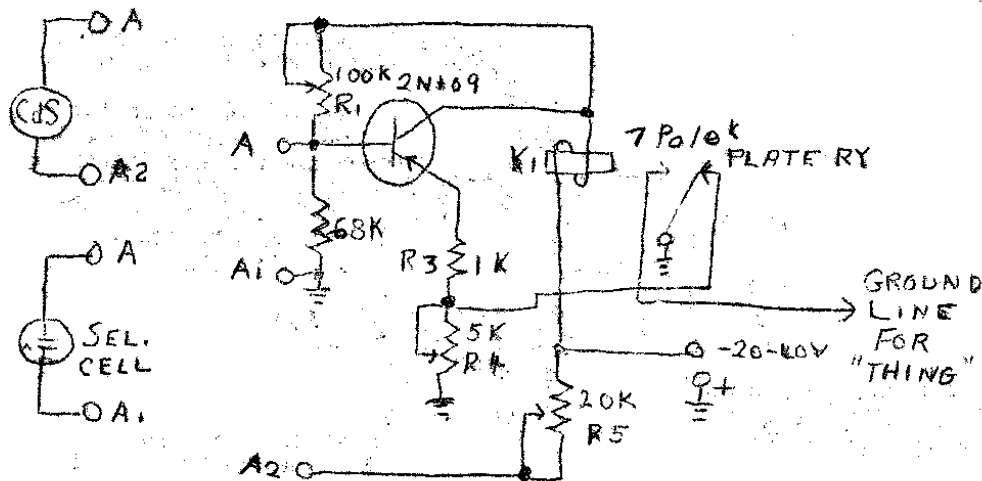


FIG. 1

Here's how it works: With the parts assembled as shown, adjust R4 for minimum resistance. Apply voltage and adjust R1 until relay just pulls in. Increase the supply if it doesn't. With a 10K relay, you will need 35 to 40 volts. Relay pull-in indicates you have provided just enough forward bias at the base of Q1 to cause adequate collector current. Notice, the movable arm of the relay removes a ground from Q1 emitter resistor R3 allowing variable R4 to operate in series with R1. By slowly increasing the resistance of R4, you set the energized mode of this circuit at its most sensitive hold-in point by reducing collector current. Set R4 so that the relay just holds in. Now, only a small negative voltage will open the relay. You can operate (Continued next page.)

NOTHING DETECTOR (Cont'd)

it with a selenium photocell connected at points A and A1 or a cadmium sulphate cell (CDS) connected at point A and A2. Adjust R5 for best operating range of the CDS cell. You can drive the circuit with a direct coupled PNP amplifier because: When PNP amplifier conducts, its collector current causes a voltage drop across R1 and the loss of forward bias for Q1 causes the relay to open. Some photo-voltaic devices are not very linear cells loaded (short-circuited) heavily, such as the silicon photo-voltaic cells made by Texas Instruments. If you use these to drive the transistor Q1 with the high value of R2, a large voltage change occurs for a relatively small change in light intensity at low light levels.

You can remove the relay, and isolate the bias resistors, such as the circuit in Fig. 2, and come up with a pretty good detector for modulated light. For Pete's sake, we're clear off the subject now!

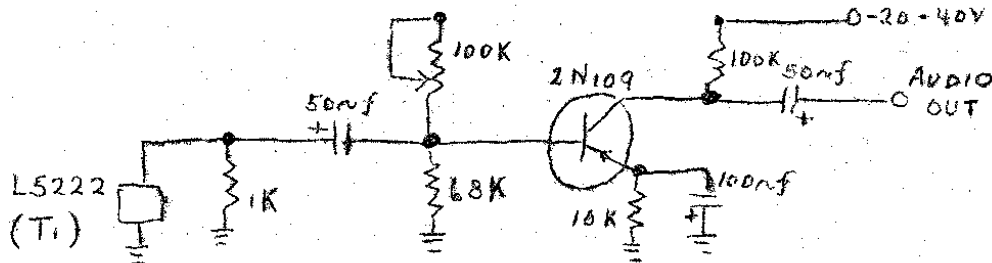


FIG. 2

Use a scope and juggle "thing" to get linearity. —Ray, WA6NEA  
\*\*\*\*\*

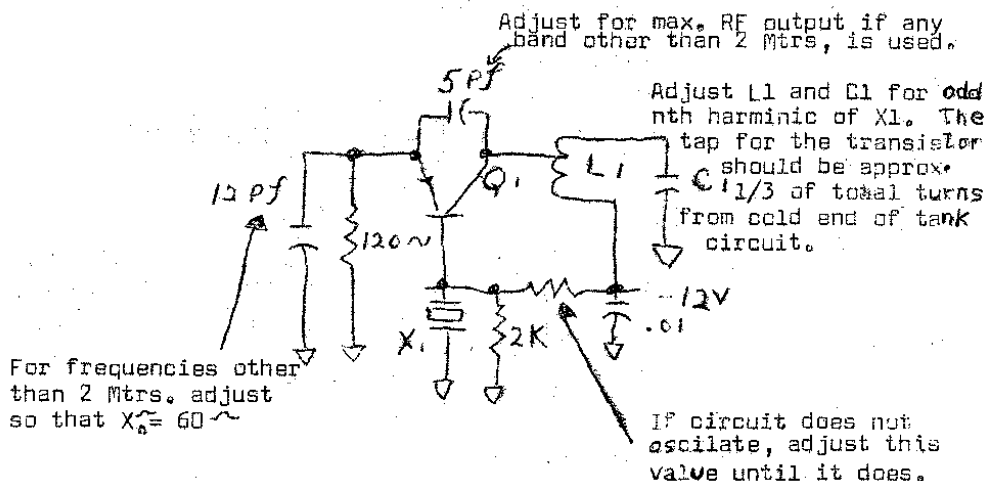
Jack says, "The nothing detector" is an interesting gadget. Using one's imagination some unique uses can be made of it."

I say, "Just what you need to be sure your "nothing box" is working. In order to find the "high value of R2" you must first find "R2".

\*\*\*\*\*

From "W6SD CARRIER", San Fernando Valley A.R.C., Van Nuys, California

Do you need a transistor oscillator circuit that works every time? Here is one that works very well using crystals in the overtone modes up through the 11 overtones (always use an overtone with this circuit). The transistors recommended here can be obtained from Texas Instruments for less than one dollar. The component values shown here are for use in the 144 Mc. range and must be adjusted where indicated if other frequencies are used.



X1 - Any xtal operating in the series mode on the 3,5,7,9,11 overtones

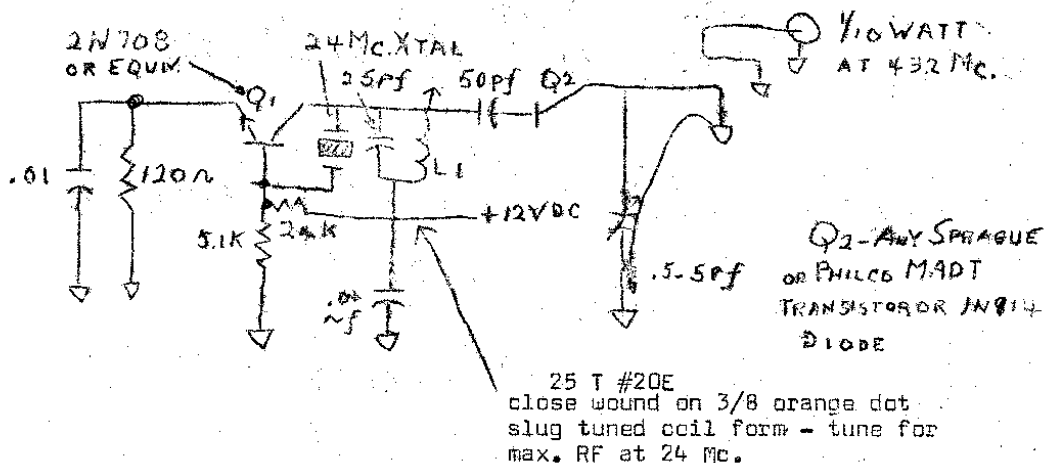
Q1 - Can be any one of the following T1xm05, T1xm06, T1400 or a 2N918 for an output of 200 Mw.

This circuit was presented to the Army MARS R&D net meeting by H. Meyer, W6GGU.

Ewell, WA6ZID

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A MINATURE SIGNAL SOURCE

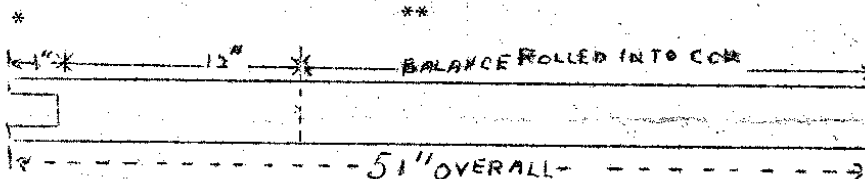


This little device puts out a 1 microwatt signal at 432 Mc., which is more than enough signal to check out a receiver or converter at that frequency. The circuit basically consists of a Xtal oscillator circuit at 24 Mc. and the base/collector junction of a M4DT transistor acting as a harmonic multiplier (similar to the variator) to multiply the oscillator output by 18, producing a signal at 432 Mc. The output line should be constructed so that the total line length is approximately  $\frac{1}{4}$  wave length at 432 Mc. You will probably have to determine this by cut and try method, until the circuit indicates an output. Variations of this circuit could be used on two meters and one and a quarter meter band as well.

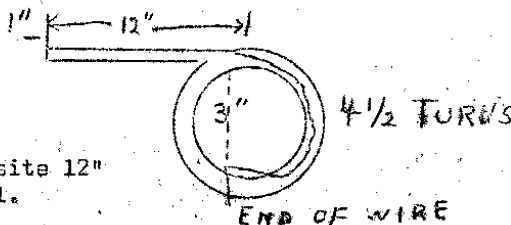
E. Carter, WA6ZIJ

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50 Mc. TVI TRAP



- \* 1inch for TV hook up
- \*\*Coil is  $4\frac{1}{2}$  turns O.D. of coil 3"
- End of wire must end opposite 12" strip where it enters coil.



Milt, WB6MPC

\*\*\*\*\*

FCC FINDINGS

From Amateur Radio News Bulletin, W3ZXV, Gene Pressler, Jr., Ed.

Piece of Wire Causes 56 Complaints

A petition with 56 signatures was received by the FCC Los Angeles district office complaining of disruptive interference to TV reception. Signal strength comparisons and visual observations narrowed the search of a mobile FCC investigative unit to a short piece of wire draped over a power line which contacted a crossbar brace. A power company crew brought quick remedy. The complainants and power company were equally pleased. The latter had spent about \$500 in previous vain attempts to locate the trouble.

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From "LERC Bulletin via ARNS: John Carpenter, W6GQZF, points out that a dummy load is a jerk who sticks his finger in the light socket.

\*\*\*\*\*

Also from ARNS Bulletin; The most successful item produced is a parachute. There has never been a complaint from a fellow for which the parachute failed to open.

CQ, CQ, all friends, de



W3CCX / from Flourtown, Pa.

announces the 11th

**PACK RATS**

Annual Family Day +

Picnic at Fort Washington

State Park in Flourtown, Pa.

Sunday, August 14, 1966, (Rain date: Aug. 21)

Gifts, Games, Soda and Fun all for \$2.00 per family, payable at the park only. No advance reservations.

Please, no alcoholic beverages. State law prohibits.

TALK-IN FREQUENCIES: 145.2 and 50.2 Mc. W3CCX will be on from the park at approximately 10:00 A.M. Fixed stations will be on the air as early as 6:00 A.M., same frequencies.

DIRECTIONS: PENNSYLVANIA TURNPIKE: GET OFF AT THE FORT WASHINGTON EXIT AND FOLLOW THE RAT SIGNS TO THE PARK.

ROUTE 309: (SOUTH ONLY) FOLLOW THE AMBLER SIGN JUST BELOW ROUTE 63 INTERSECTION, THEN FOLLOW THE RAT SIGNS TO THE PARK.

ROUTE 73: (EITHER WAY) LOOK FOR THE RAT SIGNS AT THE BETHLEHEM PIKE INTERSECTION.

SIGNS WILL ALSO BE POSTED AT STENTON AVENUE & BETHLEHEM PIKE, STENTON AVENUE AND MILL ROAD AND AT GERMANTOWN PIKE (ROUTE 422) AND BETHLEHEM PIKE.

THE SIGNS WILL BE EASY TO SPOT AS THEY ARE YELLOW WITH LARGE BLACK LETTERING AND A LARGE BLACK RAT IN THE MIDDLE.

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A. REMINDER: THE PICNIC IS IN THE FLOURTOWN DAY AREA OF FORT WASHINGTON STATE PARK AND NOT IN FORT WASHINGTON, PA.

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FOR FURTHER INFORMATION CONTACT: W3SAQ, FRANCIS D. BRICK, PICNIC CHAIRMAN  
821 W. LINDLEY AVENUE,  
PHILA., PA 19141

SWAP & SHOPPE

Conduct by: W3ZRR, Ray Whitehead  
4534 N. Smedley Street,  
Phila., PA 19140  
215 - DA. 4-5910

FOR SALE: HE-57 120 thru 6 meter  
receiver AM-CW-SSB \$25.00  
DX-35 80 thru 10 meter  
transmitter 65 w on CW  
60 w on AM Carrier Con-  
trop Mod. \$25.00

CONTACT: WA3CND, Howard W. Candy  
4013 Benson Street,  
Phila., PA 19136  
215 - MA. 4-6812

FOR SALE: Collins 75A-1 receiver, Ex-  
cellent condition. Ideal  
for VHF tunable IF on gen-  
eral amateur band receiver.  
Accurate frequency calibra-  
tion and excellent stabili-  
ty - 100KC calibrator.

\$155.00

SSB Receiving Adaptor -  
Model 370 by Barker and  
Williamson - filter type.  
See QST Nov. 1955 p.42 for  
complete description.  
Usable with 75A-1 or any IF  
450 to 500 KC. \$35.00

Package deal; \$180.00

CONTACT: WA2DAD, WILL POWER  
35 Sunset Avenue,  
West Trenton, NJ 08628  
1-609-882-7956  
or  
W2AXU, Jack Power  
1-609-882-1040

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ARRL BULLETINS (Cont'd)

NR64, June 9, 1966

Attention DXers: Announcement is  
hereby made of two additions to the  
ARRL Countries List. These additions  
are Maria Theresa and Minerva Reefs.  
Maria Theresa, French territory, is  
located in the south Pacific at ap-  
proximately 152 degrees west and 36  
degrees south. Minerva Reefs are  
located in the south Pacific at ap-  
proximately 179 degrees west and 24  
degrees south. Honor roll credits  
for Maria Theresa and Minerva Reefs  
in September, all others in accord-  
ance with DXCC submission rules an-  
nounced in January, 1966 DXCC notes.

AR

NR 65 JUNE 16, 1966

A reciprocal operating agreement  
becomes effective immediately between  
Israel and the United States. Ama-  
teurs of one country visiting or re-  
siding in the other may obtain per-  
mission to operate their own amateur  
stations there. The United States  
has previously reach reciprocal  
agreements with many other countries  
and many others are being negotiated  
and will be announced as they occur.

AR

MEETING DATES

DIRECTORS

JULY 13  
Aug. 10  
SEPT.14

GENERAL

JULY 20  
AUG. 17  
SEPT.21

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GENERAL MEETINGS ARE HELD ON THE  
THIRD WEDNESDAY OF EACH MONTH AT  
8:00 P.M., WHEN POSSIBLE, AT THE  
WEST OAK LANE JEWISH COMMUNITY  
CENTER, SEDGWICK & THORON STREETS,  
MT. AIRY, PHILA., PA. EXCEPTIONS:  
JULY, AUGUST & SEPTEMBER, THEN AT  
DESIGNATED LOCATIONS.

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MEETING NOTICES

JULY 6 PHILA. COUNTY AREC will be  
held at the Germantown Town  
Hall, Germantown Avenue and  
Haines Street at 8:00 P.M.

JULY 13 DIRECTORS' MEETING will be  
held at the QTH of K3IUV,  
Bert Soltoff, 961 Warfield  
Lane, Huntingdon Valley, Pa.  
Call: 215- Wi. 7-4483 for  
directions. 8:00 P.M.

JULY 20 GENERAL MEETING will be held  
at the QTH of W3JSD, John  
Houser, 612 Pinney Road,  
Huntingdon Valley, Pa. at  
8:00 P.M. Please bring chairs  
NASA film of Gemini IX.  
If you can find Bert's QTH  
you can find John's, they  
live around the corner, so to  
speak. If not call John at  
215- Wi. 7-0677

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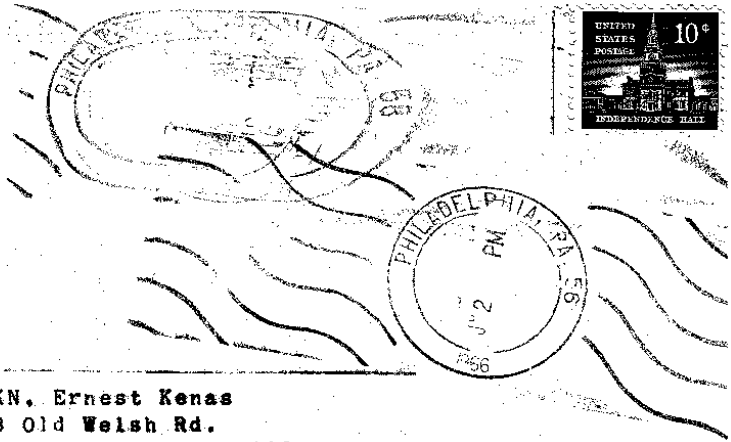
THE LOST HAS BEEN FOUND

WA3CND, Howard W. Candy, XYL, Alma  
4013 Benson Street,  
Phila., PA 19136  
215- MA. 4-6812

\*\*\*\*\*

Blame all typing errors on the  
heat.

PACK RATE SOURCE BITS  
881 W. Hinkley Ave.  
Phila., Pa. 19141



W3KKN, Ernest Kenas  
2823 Old Welsh Rd.  
Willow Grove, Pa. 19090

MEETING NOTICE