PACK RATS?

ENEESE SHEETSE



CK RATS

CLUB CALL: W3CCX

MT. AIRY VHF RADIO CLUB, INC.

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

AFFILIATED CLUB: AMERICAN RADIO RELAY LEAGUE

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

VOLUME V

DECEMBER, 1971

NUMBER 12

THE PREZ SEZ

This month our thanks must go to Marsha, the number two daughter of W3CL, Harry, for the excellent job she has been doing as our typist for Cheese Bits. Our Ex-Prez and Cheese Bits Editor once said that the hardest job he had was getting this column written, and I couldn't agree with him more, I'm no writer.

I'm sure I must have taken ten years off of Marsha's life when she receives my hand written, chicken scratched Prez Sez copy.

I never thought that some day I would be the Pack Rat Prez. It was eight years ago that I became a member, and in those days I was a carefree Pack Rat, enjoying every meeting and doing my little part as the large majority of our club members do now. You know, gang, I've belonged to many different types of clubs, held many offices, served on all kinds of committees, and have never seen any better cooperation and understanding of one another than in our Club. As I said in my first Prez Sez, we have something for everyone in our Club and we all work as a team.

I see by the calendar that the January Contest is only four weeks away. Your Contest Chairman, WA3AXV and his committee have been working very hard on material for the package. You know, gang, a lot of work goes on behind the scenes of a Contest Committee and it is up to "us", the members of the club to help them by turning in the best score we are capable of doing.

Our November Antenna program was the greatest! Man, have we got experts in our Club with experience. I know we all learned much about our antennas from 6 meters on up to 2300 MHZ. Our thanks go to W3KKN, Ernie, W2EIF, Joe, K3UJD, and K1SFF/3 for their talks.

PAGE LI

DEADLINE FOR ARTICLES IS THE GENERAL MEMBERSHIP MEETING.

EDITOR:

K3JJZ, Elliott Weisman, ARNS 8533 Algon Avenue Phila., Pa. 19152 215 PI 2-3525

TRUSTEE OF CLUB CALL: W3CCX

W3SAO, Francis Brick 821 W. Lindley Avenue Phila., Pa. 19141 215 DA 4-7524

PUBLISHER AND SUBSCRIPTION MANAGER:

K3GAS, Doc Cutler
7815 New Second Street
Elkins Park, Pa. 19117
215 ME 5-1078

PRINTER:

WA2KOI, Lloyd Schoenig 207 Woodlawn Avenue Collings Lake, New Jersey 08094

AWARDS CHAIRMAN:

W2EIF, Joseph Kilgore #5 Sunnybrook Court Stratford, New Jersey 08084

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

MONDAY NIGHT NETS:

145.2		-		7:30 P.M.
50.2	٠.	-		8:30 P.M.
221.4			:	9:00 P.M.
432.03		_		9:30 P.M.
1296.1				10:00 P.M.

OFFICERS: 1971-1972

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VICE-PRES.: K3BPP, Walt Bohlman
TREASURER: K3GAS, Doc Cutler
CORRES. SEC.: W3SAO, Francis Brick
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WA3AXV, Ron Whitsel
W3FQD, Dick Huntzinger
WA3LNH, Charles Benavides
F3JJD, Mario Fontana
K3CIV, Ralph Hersh
(Ex-Officio)

PACK RATS CHEESE BITS is a Publication of the Mt. Airy VHF Radio Club, Inc., Phila., Pa. and is published monthly.

10 ¢ per copy \$1.00 per year

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.

NOTICE!

Page numbering is now under exclusive control of Fat Rat.

Any complaints should be directed to him - at your own risk!

CALANDER OF COMING EVENTS

Syllabus by Lee-K3MXM

DECEMBER

Co-ordinator Meeting
QTH Ron Whitsel, WA3AXV
209 Frog Hollow Road
Churchville, Pa.

Envelope Stuffing, stragey and free beer.

Board of Directors Meeting, QTH - Bert Soltoff, K3IUV 961 Warfield Lane
Huntington Valley, Pa.
8:00 P.M.
Directors and interested parties invited

LOSED CLUB MEETING -MEMBERS ONLY

Final Contest Preparations

Latest techniques and information will be discussed and evaluated. Please be prompt as there is much material that has to be covered and distributed.

West Oak Lane Jewish Community Center, Thouron and Sedgwick Streets, Phila., Pa. 8:00 P.M. SHARP

JANUARY

12 Board of Directors Meeting

The Famous Crying Towel Session - OPEN MEETING - VISITORS WELCOME

No explanation is necessary. Just bring an extra handkerchief for wiping away those tears. Something new is being added to each meeting. Fifteen minutes will be set aside for the auctioning of better grade equipment and materials. Here is your chance to buy or sell some equipment to eager buyers.

The silent auction will always be present at the rear of the room.

Special Note from the B/D Meeting - The new club project will be a transistorized VFO for 6 and 2 meters. A protype is being built and more details to come.

NEW PRODUCTS OF INTEREST TO HAMS

By Lyn, W3NSI

- 1. Digital Multimeter Heathkit
 The new IM 102 should be available about the time this paper is in the mail. The unit, about the same size as the Heathkit Frequency Counter sells for \$229.00 from the factory and will measure up to 1000 V DC and 500 VAC, plus current to 2 amps AC & DC, and resistance to 20 megohms. Construction is all solid state with three cold cathode readout indicators.
- 2. 432 Mc Converter Unit. MM 432
 A communication from PAOAFN/Wl of Spectrum International informs us of a new 432 converter with a noise figure of 3.8 db and gain of 30 db. A very compact 5 1/2"x 2 3/8" x 1 1/2" size, the new job uses all American transistors including two grd emitter RF stages and a dual gate MOSFET mixer. The oscillator starts on 101 Mc (for 28 MC IF) which helps rejection of spurious signals. Other IFs are available. Price, \$59.95 P.O. Box 87 Topsfield, Mass 01983
- 3. Direct Reading Capacity Meter #101
 This piece of test equipment would make a fine addition to the well stocked ham test bench. It is certainly very convenient to be able to read capacitance directly, especially when going through a pile of micas trying to find a matched pair for a filter. A range of 30 MMFD to .1 MFD is covered in 8 ranges. This item which measures 5" x 7" x 2 1/4" has a five inch meter and is all solid state, battery operated. Price, \$94.50 Lateur Eng. P.O. Box 352 San Carlos, California 94070

THE PREZ SEZ CONTINUED

May I take this opportunity to wish our Pack Rats and their families a very Merry Christmas and a Happy New Year as it has been another fun year.

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SEASONS GREETINGS



to the

Pack Rats



FROM THE STAFF OF CHEESE BITS K3GAS

K3JJZ

K3MXM

WA2KOI

FAT RAT

SWAP SHOP

CONDUCTED BY: W3ZRR, Ray Whitehead

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handles transistors and diodes toc. automobile, 12 channels

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os 2-9000 x2621

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CONTACT:

W3YXF

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CONTACT :

WA2KOI, 1-609-561-6144

FOR SALE: R-48 Freq. Conversion made. Still

has FM.

CONTACT:

Bill Pawson, W3VIR, 357-9234

FOR SALE: Realistic TRC-18 Citizen band radio for automobile, 12 channels 3 channels in 11-13-14. Write to JOHN CONNERS

32 Country Lane Morrisville, Pa.

Call 943-0243, \$40.00 (needs \$15.00 work)

FOR SALE: 100 Watt CW/AM 144 MHZ. Xmitr in relay rack. Pair 24G final, 811 modulator, complete with

power supplies.

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9-5 P.M. MI 3-2900

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CONTINUED

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Bridge, fully metered. Stabilized ARC-5 VFO.

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K3GAS, Doc Cutler 7815 New 2nd Street Elkins Park, Pa. 19117

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John Allen, W3CXU at NARCO 9 - 5 P.M. MI 3-2900

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

NOTICE

Will the person that borrowed the 1926 ARRL Handbook from W3CL, please return same. It is a prized sentimental momento of my early days in ham radio.

Harry, W3CL

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

ADDRESS CHANGE TO NEW MEMBERSHIP DIRECTORY

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HCXLJBA

XJB BAEXWD

SEASONE GREETINGS	SEASONS	GREETINGS
	GREETINGS	TO ALL
WAZBIV	K3GAS	FROM: WASLNH
	Doc & Lorenta.	Chuck Pat Mike & Scott BENAVIDES
SEASONS	SEASONS	SEASON'S
GREETINGS FM	GREETINGS	GREETINGS
SYLVIA + HARRY-WICL	W3FQD	WBCXU
AND UR TYPIST MARSHA	Dick & Mary	TOHNNIE LORGTTA
SEASON'S	SEASONS GREETINGS	SEASONS
GREETWES	to all our friends	GREETINGS
PAUL J. RILLING -	VHF SPACE NET	LYM
WASHIT WASOSS	WB2 MTU/DIRECTOR	W3NSI
SEASON'S	K3DL5	SEA-SONS GREETINGS
GREETINGS		FROM
DCIEAN	CARL	W2 HF
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HAPPY	GREETINGS &	Best of the
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HARRY 3 D'S ROSE	A	KŽZS G
SEASON'S FREETINGS	Seasons Greetings	SEASONS
PHILA AMATEUR RADIO	To all	GREETINGS
EMERGENCY CORPS	Susie & Jo	
WA 3HIT-EC WASOFF-WASIFL-AEC	WZEIF	WABDJF
WABIFLACS		CARL - ERNA

The Pack Rats and their friends did it again with ATV in color: While the group assembled, K3GAS, Doc and K3MXM. Lee passed by and passed up a fabulous evening and morning by going home to sleep like all other normal rats. The good group fueled up for the battle with hamburgers etc. and then had a very complete tour of Channel 17 and saw their lash—up from bottom to top. At least half way up the tower is a beautiful platform that would make a great field day site as there would be no "but" problem on the deck as they would all pass through the grate. The studio is next to the one tower that is west of the club meeting location, but 17 uses a tower in Roxborough. After the late late late show when the station was shut down, WA3TQI/3 Bill, used a color camera to his 8 watt (out) transmitter at 439.25 MHZ feeding an 8 over 8 J slot antenna on the control building roof.

Meanwhile, down at the K3ZKO ranch, we were able to get an excellent color picture using the fudged UHF converter method. But after blood, sweat, tears, and time to open up the band pass at the front and pre-amplifier, an excellent picture was obtained through the Motorola T44 lash up that K3ZKO, Ron demonstrated and talked on several meetings ago. The final experiment was tried in which Ron slowly rotated the antenna from the source to see if the color and picture would hold up equally well as the signal became weaker. It did; which means that the signal even meets commercial standards.

Shortly after 4:00 A.M., August 21, 1971, the tired and sleepy, but very happy group saw beautiful commercial quality color ATV using the 439.25 MHZ ATV circuit consisted of WA2TQI/3 Bill, at the camera transmitting and K3ZKO, Ron, WA2RIH, Dan, K3DLS, Carl and Mickey Mouse (no novice license yet), William James.

K3DLS a

INDEPENDENT RECEIVER TUNING FOR TRANSCEIVER

Did you ever wish you could tune the receiver section of your transceiver without changing the transmitter frequency? Sure would be nice on CW for setting the tone of the station you are working, or for SSB roundtables where everyone never seems to be on the same frequency. It is extremely simple to do if you have an extra set of contacts on your TR relay in the transceiver, or room for another relay. Stability is not affected, however, the VFO must be recalibrated. Such a device has been in use here for about three years, and I would be lost without it.

Referring to the drawing, CR1 is a Varicap Diode, Motorola MV1642. It changes capacity as the voltage to it is varied (working like a variable capacitor). When transmitting, the diode is given a steady voltage from



DE OWHN

It has come to my attention that my recent article has upset many of you. Good! / Bad? Let us set the record straight. I am not trying to "tear the club apart." I am trying to get some of you off your . . . and into the thick of things. I may be guilty of gross exageration but no more.

Activity is down -- Monday night football may be a contributing factor.

There seems to be a roaring lack of interest in the club project, no matter what it may be. Why??

As far as meetings go -- notice the guys standing and/or sitting around the back of the room jawing at the next meeting.

This paper certainly isn't "Life." In the November issue (with the exception of the Prez Sez) there were only two articles other than this one by members. Why? There are over seventy active? members in the club.

\$\$\$\$\$ -- About two years ago the club was about to pull a Penn Central -- or so they (the officers and directors) said. So we agreed to raise the dues two dollars per member. The cost of living has gone up about 10% since the increase. The increase produced a maximum of \$300 by my calculations. We now have about five hundred dollars in the treasury and its almost the end of the year. This makes me think we were sold a bill of goods. I believe someone goofed in their forcast and honestly hope it won't happen again.

June QSO Party - we came in 5th. Why? Where did we go wrong? I wasn't there. (Maybe thats where we went wrong?) (hi) I have heard various reasons for our failure. It comes down to the fact that we did not work enough stations. The top scorer made over two hundred more contact than we did. And they were in Western Mass. WHY?

Clique - I believe I used the wrong word. I used Clique because that is what it is commonly known as. However, after referring to Webster, I will not refer to it as the synergism (look it up, then we'll both have learned a new word).

And finally, to those of you who I really bugged, I refer you to Winston Churchill's speech of January, 1941:

"I do not resent criticism, even when, for the sake of emphasis, it parts for the time with reality."

Old What's His Name

(Yourestill nuts if you think I'm going to say who!)



DEAR O.W.H.N.

I've kept quiet long enough. It is now time to put you in your place.

- 1. V.H.F. activity in general has decreased not only that of the pack rats.
- 2. Would you care to count how many of the club project 432 converters are on the air. Ask the 432 net control what a difference the club project made in his operation.
- 3. Contest -- I can only speak for myself, but if it weren't for January V.H.F. contest, I doubt if my gear would ever be in first class shape.
- 4. Newspaper -- Low blow indeed. Be aware O.W.H.N. that there are at least six people involved with the newspaper. If communication breaks down at any stage, you can have page 10 appearing before page 7.
- 5. Treasury -- Be aware the dues were raised prior to the invitation of business card ad's. The success of K3MXM's program would have been extremely difficult to predict.
- 6. Finally, June Contest -- As I said last issue, show us how it's done.

I am willing to sign my name!

K3JJZ, Elliott Weisman
Editor Cheese Bits

YOU AIN'T HEARD NOTHING YET

De The Grouch

Hey Joe, did you read that piece in Cheese Bits last month? That guy's OK! He doesn't know what he's talking about, but he's OK. Why at least ten guys checked into Harry's net Monday night. Remember when the six meter net used to run till nine forty-five to ten o'clock, then we had the Nit Wit Net after that. I checked in and out tho, it was a good football game. But getting back to that nut, I got a kick out of his nerve. He talks about the contest. Face it. If it weren't for the January and June contest I'd probably never get on the air, but with getting the rigs set up it keeps me active. As far as where we placed in June -- well that happens every once in a while -- I don't know what went wrong and I'm not about to blame someone for it, but heck we better do better next year! I must admit he's right about the crying towel meeting. It is funny. But at least we can laugh at ourselves. The



YOU AIN'T HEARD NOTHING YET CONTINUED

other meetings are OK too. Ya, a couple of the guys tend to get a little long winded when they get up there, but those guys know what they're talking about and who am I to complain about someone being long winded, even though sometimes I am dying to get to that coffee.

As far as the directors are concerned, I'm not worried. As long as they have money they won't ask for another dues raise. But hey, that's an idea! Why doesn't O.W.H.N. run for Prez and promise to lower the dues — he's bound to get elected and boy would he shake those guys up. I didn't like that cheap shot about the clique. I never had any trouble breaking in—all I had to do was volunteer and they made me chairman. Ha! Ha!

I sort of agree with him about the club project. We had a 2 meter converter and it went over perty good, the 432 converter is still in the box tho. Someday, I'll get to it. I hear they're going to have a VFO this time. Hope it's stable on 220. I need one there. But I'm not the problem, I'd probably buy anything they came out with. What about you? Aw, you can always use another VFO. A FET converter for 2? Not a bad idea. You could use something to replace those 417A's. Maybe next time, but open your big mouth, let 'em know what you want, but don't complain to me, I didn't see you raise your hand when they asked for suggestions.

Oh well, hit the cat with a bell. I ain't saying nothing about the paper. As long as the editor prints my stuff, he's OK with me.

Well, that's enough for tonight. Ya know, I still think it's dumb. What are we -- a mile apart? I'm running a gallon and you three fifths. We're both nuts. 10-4!

The Grouch

De The Editor

Well, now it seems that the last issue of Cheese Bits created a little bit of turmoil. Little bit I guess is an understatement. Your editor for the most part has avoided a strict editorial policy in determining the content of the paper.

Several general statements may be used to define the current editorial policy.

1. Cheese Bits exists primarily for the good of the club, all other functions and purposes are secondary.

CONTINUED



De The Editor CONTINUED

2. Anthing written by a member in good standing will be printed, even though it might be edited or abbreviated. At the base of this article is a short questionnaire. Please fill out and return to the editor either by mail or at the next meeting. You need not sign your name or call since this page is being distributed to members only!

K3JJZ, Elliott Weisman 8533 Algon Avenue Phila., Pa. 19152

NAM	TE(OPTIONAL)	
1.	I believe O.W.H.N. type articles should be printed in Cheese Bits	. F
2.	I believe the book review articles should be discontinued	
3.	I believe Cheese Bits should include minutes of the directors meetings.	
4.	I believe Cheese Bits should discontinue paid advertising.	· ·
5.	I believe Cheese Bits should contain more photos and fewer articles.	-4.
6.	I believe the editor should consider the impression Cheese Bits makes on non-members and exchange clubs before accepting an article for publication.	
7.	I would like to see more construction articles.	
8.	I would like to write an article for the paper but do not know how to go about it.	
9.	My XYL reads cheese bits.	
10.	After I finish with my copy I pass it on to someone else to read.	. ·
11.	I believe content of the paper should be determined by an editorial board rather than the editor alone.	
12.	This space provided for any additional comments.	



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

A Request From Your Ad Manager

Please tell our advertisers you saw their ad in CHEESEBITS or better yet, leave them your QSL card. There are some who disbelieve that CHEESEBITS is not the best read and circulated local radio club newspaper.

D. H.

W3KKN

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INDEPENDENT RECEIVER TUNING FOR TRANSCEIVER CONTINUED

the woltage divider R1, R2, R3, R4. When in receive, the potentiometer R5 is supplying the voltage to the varicap. With R5 in the center of its range, the control voltage is about the same as in transmit, so there will be no offset. Moving R5 above or below center will tune the receiver plus or minus from the transmitter frequency. Switch S1 bypasses the offset control and allows normal transceiver operation.

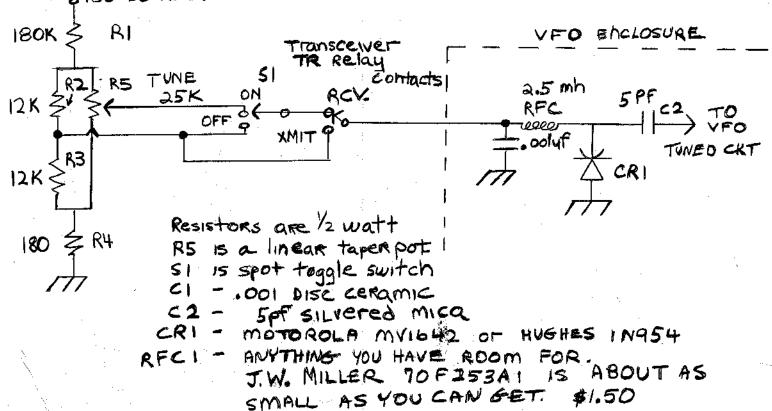
Cl, C2, RFCl, and CRl should be mounted inside the VFO enclosure. The other components can be anywhere, including a separate box outside the transceiver. Recalibrate the VFO with the switch in the off position. As shown, the offset is about 2KC. If you want more offset control, change C2 to 10PF.

Parts, including the varicap, should be available from Resco in Camden. Call ahead and have them brought in from the warehouse if not in stock.

I hope receiver offset will increase your operating enjoyment as much as it has mine. Cost is \$6 or \$7 if all parts are new.

73, W2FBF
Ed. Note - A real worthwhile idea Ken - and well written too!! De GCARC, N.J.

**I50 DC RE6.



Pack Rat Cheese Bits 8533 Algon St. Phila. Pa., 19152



습 습 습

FIRST CLASS MAIL

MEETING NOTICE

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