

PACK RATS' CHEESE BITS

MT. AIRY V.H.F. RADIO CLUB, INC., PHILA., PA.
(50.2, 145.2, 221.4, 432.2 & 1296.3 Mc.)

CLUB CALL: W3CCX

AFFILIATED CLUB: AMERICAN RADIO RELAY LEAGUE

MEMBER CLUB: DELAWARE VALLEY COUNCIL OF AMATEUR RADIO CLUBS

MEETING NOTICES: LAST PAGE

VOLUME X

OCTOBER 1967

Number 8

OUR PREZ SEZ



The month of October is generally known as the beginning of the end for the nice weather, and those with prudent inclinations kinda take stock of the weather side of the housing and amateur diggings so that those things needing attention might be attended to. Nothing like a nice blizzard to remind one of forgotten cracks, crevices and broken bolts. Think how glad you will be in January that you re-furbished that antenna back in October!

Just got back from one of the most enjoyable amateur trips I've ever made. I refer to the Pack Rat bus excursion to the HDQ station, W1AW at Newington, Conn. I must admit that the trip from its first rumblings last spring did not turn me on; for the prospect of all those hours joggling up and down in a bus is far from thrilling. One thing I forgot though is that modern rolling stock and travel on the turnpikes has improved. Add a generous mixture of frequent rest stops and the company of fellow Rats and the whole business adds up nice. The complete report on the trip will be found further back, but I can't leave this topic without a word on the wonderful, cordial reception we got from the HDQ gang. A group of them gave up their time on a very delightful (in Connecticut) Saturday to give us the full treatment. A tour of the new building and the old transmitter building was impressive; but the best impression I got is that the organization that is the watch dog of our hobby is in the hands of dedicated, capable, professional people. After talking to these folks and looking over the operation, ... No other conclusion is possible Anyone who feels he has a gripe about the league or feels he should engage in some uninformed sniping, should go have a look. JOIN NOW, THEY WORK FOR US.

I would like to thank Harry (W3CL) and Carl (WA3BIV) who organized the trip and also one other who was the spark plug, now moved to six-land, Allen (K3DUW). Nice jobs, fellows.

We have a few openings for committees for next year's activities; so anyone interested in getting into the action, let me know. There is a lot going on in the outfit, and, like anything else, you get out of it what you put in. Lots of talent in this Club is going to waste because it hasn't been put to use either because of a timid nature or a reluctance to try new things. A man can do what he wants to do, if he wants to do it badly enough.

73 for now and see you at the meeting.

W3LHF, Dave

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DEADLINE FOR ARTICLES IS THE 20TH OF EACH MONTH.

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STRATFORD, N.J. 08084

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

CODE PRACTICE:

7:00 to 7:30 P.M. MONDAY THROUGH FRIDAY, 50.2 MC. BY W3CL, HARRY STEIN.

MONDAY NIGHT NETS:

145.2 -- 7:30 P.M.
50.2 -- 8:30 P.M.
221.4 -- 9:30 P.M.
432.3 -- 10:00 P.M.

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PHILADELPHIA, PA. 19111
215 - RA 5-1106

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

NR 132, September 7, 1967

United States amateurs are reminded that the rules changes implementing incentive licensing go into effect November 22, 1967. Applications for two letter calls by Extra Class licensees with 25 years service and applications for the Advanced Class license examination may be made after the above date. Please note that the first group of special frequency privileges will not become effective until November 22, 1968. AR

NR 133, September 14, 1967

With the approach of the Fall season, many clubs renew scheduled monthly activity and training classes. All ARRL affiliated club groups are reminded of the extensive ARRL training aids library which continues to make available technical films, film strips, slide collections, tapes and quizzes. The demand is brisk and ARRL affiliated club officers should request items well in advance of the date required. Full information is available from the ARRL Communications Department, 225 Main Street, Newington, Connecticut 06111. AR

OUTLINE OF PROVISIONS ADOPTED BY THE FCC FROM INCENTIVE LICENSE RULE MAKING DOCKET NO. 15928. ADOPTED BY FCC 24 AUGUST 1968

submitted by W3AXU, Jack Power		
Freq's	License Class	Effective Date
3500-3525KC		
3800-3825KC		
7000-7025KC	Extra only	11/22/68
14000-14025KC		
21000-21025KC		
21225-21275KC		
3500-3550 KC		
7000-7050KC	Extra only	11/22/69
14000-14050KC		
21000-21050KC		
3825-3850KC		
7200-7225KC	Extra and	11/22/68
14200-14235KC	Advanced	
21275-21300KC	only	
50.0-50.1 MC		
3825-3900KC		
7200-7250KC	Extra and	11/22/69
14200-14275KC	Advanced	
21275-21350KC	only	
50.0-50.250KC		
3850-4000KC	Extra	
7225-7300KC	Advanced	11/22/68
14235-14350KC	General and	
21300-21450KC	Conditional	
50.1-54.0 MC	Technician	
3900-4000KC	Extra	
7250-7300KC	Advanced	11/22/69
14275-14350KC	General and	
21350-21450KC	Conditional	
50.250-54.0MC	Technical	

NOVICE CLASS

3700-3750KC until 11/22/68
7150-7200KC
21.10-21.25MC (No 2 meter phone
145-147MC - A1 - A3 privileges after
11/22/68)

OUTLINE OF PROVISIONS ADOPTED BY THE FCC FROM INCENTIVE LICENSE RULE MAKING DOCKET continued

- A. Advanced Class License Reinstated
- B. Current Advanced Class License Retain Status
- C. Special Call Sign Identification Suffix Dropped
- D. First Class License Concept Dropped
- E. Extra Class Licensees who have held a license 25 years or more may obtain an unassigned two letter call upon application plus \$20. No selected assignment permitted.

JANUARY 1968 - ARRL VHF CONTEST

Coordinator Groups:

** = Coordinator * = Alternate

W3CL**	W3FCQ**	K3WCK**	WA2JNA**	K3DUC**
W3CXU*	K3WEU*	K3IUU*	WB2OAD*	WA3EPS*
K3NMN	K3YFL	W3BEL	W2LZA	KOZZM
W3BAH	W3HFY	W3JSD	W2AXU	W3RZU
W3BQU	W3OR	K3WQJ		K3ZPQ
W3SMK	W3BVR	K3IFM		WA3FAA
K3ACR	W3ANW	K3BHK		W3KLL
WA3EHD		W3GEC		W3QB
W3ISV				W3CLT

WA3CQO**	WA3BIV**	K3GAS**	W2EIF**	W3CJU**
K3QFQ*	K3LNV*	K3MXX*	WB2NOK*	K3BFP*
W3ZTL	W3QAS	K3OBY	WB2SZK	K3EPB
K3EHQ	W3NSI	K3ZKO	WB2EEH	K3AA
W3AJF	K3IGX	K3HSS	WB2IOE	
K3DUW	W3IXL	K3VEQ	WB2CDP	
K3AUH		K3DLS	K3DGT/2	
		K3ABK		
		WA3HTT		
		K3KVS		

W3SAO**	WA3ERO**	W3MFY**	K3UJD**	K3BOY**
W3ZRR*	K3ZPN*	WA3CAG*	W3LHF*	W3KXH*
K3CIV	K3KTY	W3HAB	W3GXB	K3IFH
W3HYO	K3GFG	K3HWZ	W3KKN	K3KUB
W3LA	WA3CND	K3ZVD	W3IHT	W3GEW
W3WLJ	WA3BRV	K3AFT	K3TFM	K3EJA
K3AIK	W3ELI	K3GOJ		W3MVF
		W5NFD/3		K3MSV

W3OZP**	W3BRU**
K3EOD*	W3CLQ*
K3ESL	K3EOU
K3JJZ	W3HIX
	K3GAY

Contest Chairman
Chas - K3HSS

Committee: Harry, W3CL; Doc K3GAS; Joe, W3EIF

"We need your score - To stay on top"

Coordinators meeting will be October 10, 1967, at the QTH of K3GAS, Doc Cutler.

JANUARY 1968 - ARRL VHF CONTEST

CONTEST REMINDER

Pack Rats:

The biggest club event of the year - the January VHF Contest - will be fast approaching. I know three months seems like a long, long time; but have you noticed how fast the summer went by. Let this be a warning - start cooperating with your Contest Committee NOW, before you find these three months gone by and yourself unprepared for you know what.

I strongly urge you to take advantage of this early start. Many problems cannot be resolved in one or two weeks. Clean up the present difficulties and be better

VOICES OF THE PAST

by WA3BIV, Carl Barrish

It all started one evening last week. I was letting the station warm up. As I listened I became aware that Mel was on six. Six hundred watts at three hundred feet -- that put me off six meters for tonight. I'll tune around two -- too early, nobody on. 220 - Jack and Jo, my peanut whistle won't break into that. Well, let's try 75. Wow, too crowded! 40 - foreign broadcasts. 20 - forget it. 15 - dead. 10 - ditto. Maybe if I listened on 160, I might be lucky enough to hear something. Hmhmhm. AM? On 160? Nope WIBG. Oh well. What's this CW? Sounds like about 13 wpm. I should be able to copy it.

RCVR HERE IS HOMEBREW. LIKE NEW TRANS-CONTINENTAL BUT WE THINK IT IS MUCH BETTER.

Huh? I never heard of a transcontinental receiver. May be something new.

WEATHER HERE IS CLEAR, BRISK, FALL MORNING.

Now wait a minute, it is not morning but evening here. It's morning in Japan maybe. I never knew that 160 opens to that part of the world. This guy is using perfect English though and it doesn't seem that anyone would bother with 160 on a DXpedition. He also isn't using too many accepted abbreviations. Something is fishy. Let's see - I'll call Jay and see if he can copy this thing.

"Jay"
"Yes"
"This is Carl, are you busy?"
"No"
"Good. Listen on 160 about 1.802 Mc and tell me what you hear."
"160?"
"Yes, I'll explain later."
"I hear some C.W."
"Can you copy it?"
"I think so."
"I'll call you later."

Click.

"Let's see now"

MY AGE IS SEVENTEEN YEARS, I WILL BE EIGHTEEN NEXT WEEK ON SEPTEMBER 15 ...
"Hey, this is November not September. I think I'll tape this."

RRRRRRRRRingsggggggggg

"Hello."
"Carl Jay"
"Yes."
"What is this, a joke?"
"No, I'm listening to it also. Listen he's signing."

LAW DE 6WA
THAN EEEEEEE THANKS FOR ABREV X MAKES TNGS EASIER X AS U SEE I AN NEW AT HAM RADIO ES BBBBBBBBBBBBBB
"(*%&!! That electric drill next door is on again."

"Jay, do you hear it?"
"No, I lost him."
"Well, I have part of it on tape."
"What was it?"
"I have a wild idea I want to check on first."
"O.k., but let me know what happens."
"Right."

A few weeks later.

"Jay?"
"Yes?"
"It's Carl, can you come over right away?"
"Yes. Is it important?"
"Yes."

Jay arrives.

"What's up?"
"Remember the signal we copied on 160 a few weeks ago?"
"Yes. Did you find out anything?"
"Yep, and a few experts are on their way here now. First, I sent to the ARRL and found out there is a record of a QSO betweel LAW and 6WA. The date was September 8, 1921. The next thing I did was to call the Ranklin Institute and relate the story to Dr. Page and Dr. Lea. These are the gentlemen coming here today and I think they have some information for us."

Ding Dong

"There's the door."
"Good afternoon, gentlemen," I said.
"Good afternoon," they returned.
We introduced ourselves and after some small talk Dr. Page spoke on the occurrence.
"The signal you heard was transmitted on earth September 1921, and travelled for forty-one years through space and returned to earth. Exactly how this occurred, we are not sure; however, we have a number of theories. The most logical is that the signal bounced off some thing, or things, and returned. A theory not to be dismissed lightly is one that the universe is curved and that the signal travelled the circumference of the sphere or whatever it may be. At any rate, it did return to earth with enough strength to be copied, which in itself is a fantastic occurrence. Imagine a 160 meter signal getting out of the earth's atmosphere and returning. This discovery of yours has sparked an intense program of study subsidized by the U. S. Government to find the causes of this type of phenomenon. The study encompasses every scientific area from astronomy to zoology. The ultimate utilization of this discovery would be the recovery of voice frequencies as well as radio frequencies at a predetermined time. Your imagination can lead you to its value. Dr. Lea would like to say a few words now."

"As Dr. Page said, many people are involved in the study of this new phase of communications, and in the field of astronomy, we are engaged in the process of trying to explain the phenomenon you have discovered. From my standpoint as an astronomer, the study of the heavens

VOICES OF THE PAST continued

will now be altered to include the study of all possible stray communication intelligence wandering in space. This may enfold a new method of recording history for future generations. Right now the leading astronomers are preparing a seminar to be attended by all those involved in the study of astronomy. Dr. Page, would you like to conclude?"

"Yes. The F.C.C. would like to have as many hams as possible listen on low frequencies to record any other signals from the past. Once again we might hear the phrase 'see you on 160'".

CONTEST REMINDER continued

prepared to handle the unexpected. Your Coordinator will be in touch with you shortly. Take advantage of his desire to help you; but don't expect him to do all the work. Dig in yourself and make the task a light one for each of you.

Fill out your questionnaire as soon as you get it. What can be done for you may depend on how quickly you return it. Your Contest Committee is waiting for your information now. Give your Committee the benefit of an early start.

You will hear more about the Contest as time goes by, particularly reminders about things that could mean disaster to you; also hints that will help you make that big score. In the meantime, let's see the list you can start yourself.

The last seven years have been banner years for the Club. The coming contest can make it another. All that everyone must do is put in a lot of hard work. Start now and I am sure the satisfaction of being part of a winning club will be enjoyed by all next year.

Your contest chairman,

Chas, K3HSS

Contest Committee: Harry Stein, W3CL; Doc Cutler, K3GAS; Joe Kilgore, W2EIF

A BUS PILGRIMAGE TO ARRL HEADQUARTERS

NEWINGTON, CONNECTICUT, SEPTEMBER 16, 1967

Reported by Harry, W3CL

The big forty-one man air-conditioned bus left the "Doria" rains and wind swept roadway of the North Philadelphia Airport at 7:10 A.M. Frankie, W3SAO, stood there forlornly but loyally to say his goodbyes. (Frankie and Helen couldn't make the trip due to a death in the family.)

A number of distinguished travelers were aboard: W3YA, Director, Atlantic Division, W3ELI, SCM, Eastern Pennsylvania, W2ZI, SCM, Southern New Jersey and W2HX, Secretary, Delaware Valley Chapter of the QCWA.

The complete passenger list follows: W2AEW, W2AXU and XYL Libby, W2EIF, W2HX and XYL Louise, WB2IOE, WB2NOK, W2RLY, W2ZI, W3AJS, WA3BIV, W3CL and XYL Sylvia, WA3OQO and Sharon (WA3FEK), W3XCU, W3ELI and XYL Gracie (WA3BJQ), K3EOD, W3FGQ, K3EYS and friend, K3GAS, K3GAY, WA3GNV, WA3HIT, K3HSS, K3IUV, K3JJZ, W3LHF, W3MFY, K3PGC, W3YA and Mrs. Crosley, K3ZEN and mother, and K3ZPQ. WB2OAD, XYL Noel and son vacationing in New England joined us at Newington.

Our first breakfast stop was the chartered bus terminal on the New Jersey Turnpike. Later we had a short tour of the Bronx (wrong turn by Mr. Huston, our stolid bus driver). A missed direction in the Connecticut area resulted in a one hour scenic side trip in the Hartford complex accompanied by frantic direction giving on the part of K3IUV and company. The younger set, unruffled by the confusion, continued their card playing on the back seat of the bus.

We arrived at Newington in bright sunshine (having outrun "Doria") a bit ahead of schedule because of the missed lunch stop. We were greeted by Perry Williams, W1UED, and the group then scattered to find a bite to eat. The headquarters building and W1AW were a different operation compared to our first visit on the Saturday four years ago when the packing cartons from 38 LaSalle Road were scattered about.

The party was split up into four groups and conducted on a tour of the facilities with excellent explanations of the operation. Our expert guides were Perry Williams, Assistant Secretary - W1UED; Ed Tilton, VHF Editor - W1HDQ; Laird Campbell, Managing Editor - W1CUT; and Guy, a part time young lad - WA1GFV.

We noticed that our good friend Ellen White, W1YYM, left a "Welcome Pack Rats" notice in her office window so El, K3JJZ, reciprocated by placing "Pack Rat" signs in various strategic locations about the headquarters building.

A note of interest: W3AJS and W3CL, buddies since high school days, made boyish plans to visit ARRL headquarters forty-one years ago -- mainly to meet Hirma Percy Maxium. At last they made the trip together but only to commune with the spirit of TOM among the nostalgic museum pieces in the building lobby and a few mementos in the WIAW memorial station.

Later, George Hart, Communication Manager, WINJM, joined us and participated informally in discussions of ARRL policy and plans.

A delicious catered smorgasboard meal was served in the headquarters building cafeteria in an enjoyable informal atmosphere. Dave, W3LHF, our president thanked the headquarters gang for a fine day and presented an autographed "Pack Rat" sign to Ed Tilton, W1HDQ. Perry Williams, W1UED, speaking on behalf of the league, stated how happy they were to have us and begged us to return soon again.

The bus started away at 7 P.M. amid the waving of goodbyes and to many of us with thoughts of bygone days of the "Woof Hong" and "Retty Snitch".

The return trip was rather uneventful. We made sure that our navigator, K3IUU, was seated close by the driver. Dave, W3LHF, kept us amused with frequent announcements on the bus amplifier system. The forty or so sandwiches packed by the caterer were consumed long before arriving at our destination.

We arrived at North Philadelphia Airport at 11:30 P.M. and went our separate ways with pleasant memories of an eventful trip.

Our thanks to WA3BIV, Chairman of the trip committee, and Grandpa Bill, K3HWZ, who made the parking arrangements with the airport management.

TWO METER ACTIVITY

By W3LHF, Dave Zimmerman

Months seem to roll by faster and faster and especially so if there is a scheduled bit of business to be taken care of, such as a daily report or monthly column! Even so, we all seem to get more done under pressure of if someone is breathing down your hackles. Just think back at the speed with which the new gear or antenna is installed with a contest in the offing. In this case the one wielding the stick is the editor, so let's see what we can find down the log.

If I can believe the chatter I get by eavesdropping on the North Jersey gang, there have been a few openings during the last month; but I'm afraid that the best ones were missed here or occurred after midnight when there are few around to observe - including me. We lost our regular Two AM man when Ol' Chas (W3IBH) passed on. But then Charlie was on the air about twenty hours that I saw a W3IBH ten element yagi constructed by a machinest in an attic last week. That antenna had the craziest driven element that I ever saw; but how can you argue with success? Anyone interested in this item can probably get it for next to nothing. Contact me for info.

One night last week was very good for me but few were around to get into the action in spite of the fact that I yodeled on 221.4 MC for about an hour and mentioned the fact on two meters repeatedly. The choice bit was W4VHH in South Carolina, a new state for me. Tom is an old timer for many of the gang, but his pattern of operation for many years has been sporadic. During the same coastal inversion to the South, I worked K4YYJ and W4NUS, both in North Carolina, and WB4HIP who is better known from the HDQ call of W1DVE or VHF fame as KOCER. Bill operates from Richmond, Va. Take a look at the map to see just how far south that is.

Lots of goodies around during the contest. Bert (K3IUU) reports almost a solid blur of stations in that second MC, so the band is being occupied, and on any given night the ground wave contacts are always better on two than on six. See you on 2 and phone me with any reports of unusual activity.

Into each life some rain must fall -- usually on a weekend when we plan to put up the antenna. (Ham Fax, September 1967)

K.U.I.

by W3HKZ, Ed Kushner

Army Electronics Command Engineers are developing VHF antennas to overcome the effects of rapid signal attenuation in the Vietnam jungle.

The broad-band J-type antenna will operate from 30 to 76 MHz, the frequency range of the back-pack AN/PRC-25 walkie-talkie in use in the battle area.

The antenna, when raised above the jungle canopy, will provide a communications range of greater than 25 miles. Although the final configuration has not been set, the antenna will be raised in a collapsed state on a mast, deployed above the jungle canopy, and collapsed again for retraction.

The mast is to be constructed as a continuous beam column, extended essentially from 0 to 100 feet, with at least the top 25 feet of a dielectric material. The mast weighing from 10 to 15 pounds, will be free standing to a height of 40 feet and supported by tree branches above that height. The portion above the jungle canopy is designed for winds as high as 50 mph.

Since the J-type antenna is basically a narrow-band device, four antennas of various lengths are required to cover the AN/PRC-25 frequency band until the antenna is perfected.

A number of tests have been made to determine effects of foliage and terrain on antenna performance. Some accepted theories have been upset in the process.

It was found that using one-tenth of a wave length above the ground in place of the standard one-quarter wave length accounted for very little loss in effectiveness. It was also discovered that setting up the antenna in a clearing, which has always been accepted practice, actually does not make much difference.

VHF SSB

YES OR NO ?

By Bob Lieberman, WA9JWN/4

from HAM-HUM, Ak-Sar-Den Radio Club, Inc. Oct-Nov '66

Why are our VHF OP's so ignorant of the new modes of transmission? I am referring to a good number of the techs on six, and a few of the generals, too. It seems apparent that a lot of our six meter boys don't know the first thing about radio, or at least they don't show it.

The other night I was listening to a QSO on six. Two OM's were discussing the aspects and assets of VHF SSB, when one made the comment that sideband was too hard, too expensive and that there wasn't any commercial gear on the market. Well, this got me teed off a little, and I was about to bust into this QSO and tell him off when it came to mind that maybe he wasn't the only one who was so ignorant to the facts. That's why I'm writing this article.

What a lot of amateurs don't realize is the simplicity of sideband. DSB costs less to build than AM rigs, and they are easier to build also. For a few dollars more, you can build up a crystal filter and run single sideband at a price competitive with AM rigs.

The one comment in that QSO that really upset me was his immediate turn to commercial gear. Most of these guys on six are tech's; they should do a little experimenting, designing, and building, even if they have to steal the circuits from someone else. At least they are building it themselves. A lot of the VHF OP's reject SSB because they have never listened to a good sideband receiver. If they ever did, they would probably think it the greatest thing on the air. A 1929 Essex receiver will not receive sideband properly. It wasn't designed to. Of course it means a little investment, but it is worth it in the long run. Granted, SSB isn't going to give you the Hi-Fi audio, but it does provide the most effective media of communication next to CW.

Here are a few facts about SB and AM. Compare them for yourself: (1) SB can be made simpler and cheaper than an AM rig. Dollar per watt, sideband is cheaper by far. (2) SB can provide effective Back Scatter communications. (3) SSB uses less band width. (You may say, with 4 megs we don't have that problem. However, did you ever listen to the first meg of six when the band was open, and all you had were a few low frequency crystals???) (4) DSB will give two times the effective power per watt. (5) SSB will give you four times the effective power per watt. (6) SSB along with CW gives you the punch you need on Aurora and long distance ground wave that you can't get with AM.

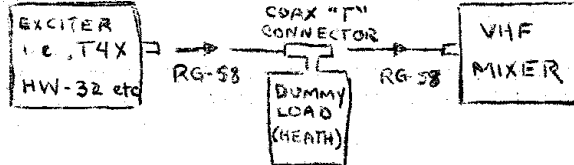
(Sure, this article is prejudiced, but wouldn't you be, considering the advantage that SB offers to VHF communication? This article was written with the help of WA4LHK AND WA4LEK and K4YSN.)

4880 Walden Lane
Dayton, Ohio 45429
September 18, 1967

Dear OM:

I have read with interest the September issue of Pack Rats' CHEESE BITS, and especially the article by K3GAS, Doc Cutler. He concerned himself greatly with reducing power on the HW-32A, in order that this exciter could be used to drive the 6 meter mixer. Seems to me he did it the hard way, by having to re-work the innards of the HW-32.

I would like to pass along a little scheme - not original to me, and sources long since forgotten - which I have used under similar circumstances. I used a Drake T-4X exciter, to drive a Hallicrafters HA-6 Transverter, and of course, had to reduce output of 200 watts PEP to a level of 5 watts maximum for the HA-6. As Confucius said: "A picture is worth a thousand words". Here's my scheme:



It's very effective, and to prove the point, hang on a Watt-meter in place of the mixer. The dummy load drops 99% of the RF, and never overheated on me. Been using it for three years. Hope it helps someone!

73,

Ron Will, W8GGE

MORE ON GETTING ON 6 METER SSB

By K3GAS, Doc Cutler

The September issue contained an article on using the HW32A and a homebrew mixer unit to get on SSB. Trouble did develop subsequently. The B+ voltage is always on in the mixer unit because the mixer oscillator must be on to control the converter in receive position. The relay controls the voltage to the final screen only. What was happening was a frequency shift on transmitting and on receiving following one another up the band. This, of course, was intolerable. To correct the difficulty, the voltage to the oscillator plate coil was dropped with a 22K-1W Res. Where the resistor connects to the plate coil, an OC3 regulator tube was connected and now the oscillator voltage is tamed down. The final tube is now a 6L46 with 450 volts on the plate and regulated 210 V on the screen. Grid bias voltage is adjusted for maximum output on the SWR Bridge in transmit position. All is well now. X. This last symbol is for fingers crossed.

THE PERILS OF PETROLEUM
OR, HAS ANYONE SEEN A SMILING PACK RAT?

From THE ATLANTIC SCENE

Ah, the perils of petroleum!

A man can lose his shirt in the oil game, as you know, but his teeth?

That's what happened recently to an Atlantic Richfield pumper in Oklahoma. He lost his lower plate to a cigar-loving pack rat.

As reported by Ken Farnsworth, District foreman and George V. Ricks, District production and drilling supervisor at Oklahoma City, the pumper finished his lunch, removed his lower plate, wrapped and placed it in his lunch box along with several cigars..

The pumper returned to the doghouse after checking his wells and found that a pack rat had pilfered his teeth and his cigars.

The folks up there are now searching for a pack rat with a big, wide grin, and with a cigar stuck in its mouth!

The pack rat is looking for a light.

Meanwhile, the pumper is on a diet of soft food.

(submitted by K3DLS, Karl)

SWAP SHOP

Conducted by:
W3ZRR, Ray Whitehead
4534 N. Smedley Street
Philadelphia, Pennsylvania 19140
215 - DA 4-5910

FOR SALE:

Rohn PT-6 50 ft. hinged bottom self-supporting galvanized tower.

Contact: K3ESL, Ben Gindin
6504 Roosevelt Blvd.
Philadelphia, Pa. 19149
533-1849

FOR SALE:

R-48, Barry Rig, 11 element 220 MC antenna.

Contact: K3OXE, Jim Walsh
4300 Ashburner Street
Philadelphia, Pa.

WANTED:

6 meter transmitter and 220 transmitter complete with power supply. Will sell or swap Ham-M Rotor with control box.

Contact: K3WEU, Paul R. Behrmann
5101 Wynnefield Avenue
Philadelphia, Pa. 19131
TR 7-0562

FOR SALE:

Varian power supply 4000 V @ 200 MA
GE power supply, 1100 V @ 500 MA, GE regulator for above. EIMAC SK-40C sockets.

Contact: K3ZPN, Lloyd Schoenig
Box 6001
Philadelphia, Pa. 19114
637-6455

FOR SALE:

NC190 Rcvr. with matching speaker-\$110,
6 meter converter (K3IUV type)-\$15.

Contact: K3GAS, Doc Cutler
7815 New Second Street
Philadelphia, Pa. 19117
635-1078

FOR SALE:

35 mm single lens reflex Honeywell Pentax HIA with F-2 50 mm lens. New. \$130 or swap for 6 meter transceiver.

Contact: K3YLL, Harvey Bartashnik
1721 Griffen Street
Philadelphia, Pa.
PI 2-7396

DROPPED FROM MEMBERSHIP

- K3BRJ Newell Chamberlin (Jack)
- W3FSC Oscar Jacoby
- W3JAY George Nichols (Doc)
- K2QOS Michael Fekete, Sr.
- WB2SIF James Harvey

RESIGNED FROM MEMBERSHIP

- K3GOZ Herman Klein

APPLIED FOR MEMBERSHIP

- K3JJO Wally Newell
(sponsored by WA3EPS and WA3FAA)
- W3PST Elwood W. Haldeman
(sponsored by W3ELI and W3CL)

MEETING NOTICES

October 11, 1967: Director's meeting at the QTH of W2AXU, Jack Power.

October 17, 1967: (NOTE: THIS IS TUESDAY) Regular meeting at the West Oak Lane Jewish Community Center, Sedgewick and Thouron Streets, Philadelphia.

DID YOU KNOW

That October 15, the Penn Jersey VHF Club will have their annual auction at the VW Post on Arena Drive, Trenton, New Jersey.

That the next general Pack Rat's meeting is on TUESDAY not Wednesday.

That October 8, at 1:00 P.M. the Pack Rats will have a hidden transmitter hunt. 50.250 MC and 14#.200 MC. Hider -W3CAG. Seekers - all who care to join the fun.

That W3GEW, Sid Weiner, is expected home shortly from Jeanne's Hospital.

That Walter Blake, Jr. (Jr. Op. of K3MAF 'The Kingfish') spend three weeks in Chile as a guest of the Chilean government. He is a C.A.P. Cadet.

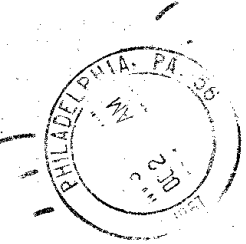
NEXT
GENERAL
MEETING
IS
TUESDAY

OCTOBER 17

PACK RATS CHEESE BITS
8533 ALFON AVE
PHILA. PA.
19122



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



MEETING NOTICE