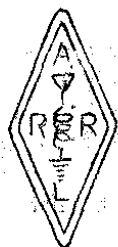


PACK RATS' CHEESE BITS



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

(50.2, 144.2, 221.4, 432.2 & 1296.4 MC.)

CLUB CALL: W3CCX

AFFILIATED MEMBER: AMERICAN RADIO RELAY LEAGUE

EDITOR: HELEN BRICK, XYL, W3SA0

MEMBER OF: AMATEUR RADIO EDITORS' ASSOCIATION

A
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E
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VOLUME VI
(Meeting notices;
last page)

JANUARY 1964

NUMBER 10

50 YEARS OF HAMS BY HAMS

1914 FOR AMERICAN RELAY RADIO LEAGUE

EDITOR'S CORNER

My dream between 3:30 and 6:15 A.M., Friday, November 22, 1963.

"I awakened, and for no reason at all, President Kennedy was just there, in our home.

The next incident; we were all three at a party. Mr. Kennedy was having a grand time as we had introduced him as Joe and no one recognized him.

There was only one thing that bothered me about him. That was his hair. Instead of being unruly, as usual, it was slicked down. For some reason, I was always on his right side, which meant I could only see the right side of his head. To the rear, and a little above his right ear, his hair was tinged with red.

As we were leaving the party, I said to him, 'I would like to kiss you good-night.' As I leaned forward to do so he just faded away, and in his place stood a short, heavy set, elderly woman with black hair, dressed in black."

(I know that that was the time of the dream as I didn't go to bed until 3:00 A.M.)

What puzzled me so about the dream was that I had never dreamed of him before and never saw him, except on TV.

THE INTERPRETATION

This dream bothered me all morning, especially the red in his hair, and I kept trying to figure what it meant while mimeographing "Cheese Bits". Then, suddenly on TV, which I had turned on in the shack, came the news that President Kennedy had been shot in the head. My first thoughts were, "Oh, God, no! Don't let this be the interpretation of my dream!" You can understand why that news hit me extra hard and why I inadvertently put the wrong date of his death in Cheese Bits.

THE REASON FOR IT ALL

THE ASSASSINATION OF JOHN FITZGERALD KENNEDY

NOVEMBER 22, 1963

35th PRESIDENT OF THE UNITED STATES

The assassination of President Kennedy was, and is, in the eyes of God and man a most dastardly and heinous crime. But, we must remember, "God works mysterious ways His wonders to perform."

This is not the first assassination that God has permitted to further His plans for the world that He created.

The first was the Crucifixion of Christ, who only tried to unite all men in the belief that all are equal in the sight of God.

Here, in the United States, He permitted the assassination of Abraham Lincoln, who only tried to convince the people that all men are equal in the eyes of God. He then permitted the assassination of John Fitzgerald Kennedy, who's only crime was to fight for equal rights for all men.

No matter how many people had a premonition of President Kennedy's demise, they could not have prevented it. It was within the will of God.

Why did God permit these assassinations?

All of these men were devoted to God and His people, and, although assassinated, their spirit and ideals were imbedded in the hearts of men, and each time more and more people banded together to carry on their ideals.

In the case of Jesus; Judas, His betrayer, went out and hanged himself. In the case of Abraham Lincoln; John Wilkes Booth, his assassin, was shot to death by soldiers in a barn. In the case of John F. Kennedy, his accused assassin, Lee Harvey Oswald, was shot to death in the police station by an avenger.

God is not a cruel God, but a demanding God. He says, "Thou shalt love thy neighbor as thyself."

The lives of these three men were practically parallel. First, they loved God; second, they loved people and third, they loved their families. Their deaths brought heartbreak to all who were privileged to share their lives. Even the Heavens wept.

Three men assassinated for one principle: "Equality of Man". Jesus Christ, a Jew; Abraham Lincoln, a Protestant and John F. Kennedy, a Roman Catholic.

What more proof does the world need, to know that God means what He says.

God rest his soul in peace and comfort his family.

"CHEESE BITS" PUBLISHED MONTHLY FOR
MT. AIRY V.H.F. RADIO CLUB, INC., MT.
AIRY, PHILA., PA.

SUBSCRIPTION RATE 10¢ copy: \$1.00 per
year.

WE OPERATE ON AN EXCHANGE BASIS WITH
OTHER PUBLICATIONS AND ANYTHING THAT
IS PRINTED IN "CHEESE BITS" MAY BE RE-
PRINTED IN OTHER PUBLICATIONS, UNLESS
SO STATED, AS LONG AS PROPER CREDIT
IS GIVEN.

DEADLINE FOR ARTICLES IS THE 15th OF
THE MONTH.

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of each month, 8:00 P.M.
GENERAL: Third Wednesday of
each month, 8:00 P.M.

MEETING PLACE: WEST OAK LANE JEWISH
COMMUNITY CENTER; SEDGWICK
& THOURON STS., MT. AIRY,
PHILA., PA.

MONDAY NIGHT NETS:
144.2 - 8:00 P.M.
50.2 - 9:00 P.M.
221.4 - 10:00 P.M.

NET CONTROLS:
144.2 - W3SAO, Frankie
Alt. - W3FSC, Fozzie
50.2 - W3CL, Harry
221.4 - W3KKN, Ernie

ARRPS NETS: THURSDAY
29.36-7:30 P.M., W3VSD, NC
50.2-9:00 P.M., K3ESL, NC
145.2-9:30 P.M., K3KUB, NC



JOHN FITZGERALD KENNEDY

MAY 29, 1917

NOVEMBER 22, 1963

IN MEMORIAM

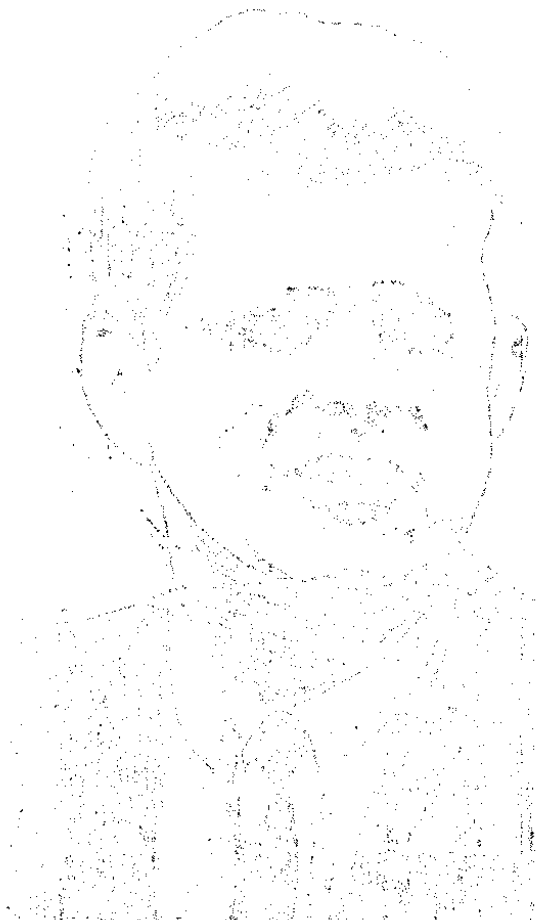
1914 YOUR ARRL 1964

Just two years after the United States Government recognized the ham and started issuing licenses in 1912, along with rules and regulations, the hams decided to band together.

The purpose of this organization was, and still is, to keep each other informed of any changes, or contemplated changes, in the rules and regulations by the governing body (FCC).

They also did, and still do, warn the ham of any infractions of the rules. They are helped in this work by a group of volunteers known to all as the O.O. (Official Observer). The O.O. warns the ham individually and sends his report to his SCM (Section Communications Manager), who in turn sends them to Headquarters. Here they are studied, and the infraction most reported warrants the issuance of a warning bulletin and attention in QST, your Official Organ.

Whenever a ham had, or has, any idea on how to improve equipment he is most welcome to write-it-up and send to QST for publication. This is the privilege you have of sharing your knowledge with your brother ham.



in QST for all members to read. If they find that the majority of the members disapprove they will reconsider their proposal and try to come-up with a compromise proposal. The only trouble lies with you the members. The majority who approve, and a small minority who disapprove, will not write, and the minority, who do not write, who disapprove start all sorts of rumors.

If you disapprove of the actions of the Directors it is your privilege to vote them out of office and replace them with someone whom you feel is more suited to represent you. This is the same privilege you have in your City, State or Federal Government. If you do not exercise your privilege then you must abide by the majority decision of those who do. Remember, not all who voted see the one they voted for elected, but they took advantage of their right to express their opinion and are willing to abide by the decision of the majority.

This privilege to approve or disapprove is a healthy one. Instead of permitting all of your opposition to ferment within you, you have the privilege to "get it off your chest".

The ARRL is YOU! It is a good organization; otherwise it would not be celebrating its GOLDEN ANNIVERSARY!

HAPPY ANNIVERSARY to YOU, the ARRL, may you have many more birthdays.

From December "CQ" MAGAZINE

An Editorial by K2ZSQ, Bob Brown, Editor, "VHF AMATEUR"

(Ed note: This is a follow-up on a K.U.I. article appearing in the Sept. issue of "Cheese Bites")

An example of what can happen to an amateur causing TVI was recently brought to our attention. We urge you to read on. This incident may have far-reaching implications that could well affect your own future endeavor on v.h.f.

A little over one year ago Charles A. "Butch" Seaman, K3IOP, age 15, acquired his Technician Class license. Ed Lipps, W3BWU, helped equip him with a Gonset G-50 and four element 50 mc Yagi. Elizabeth, Pa., Butch's QTH, is considered to be a fringe area for TV reception and would be safe to say that a passing taxicab could cause considerable concern to viewers. In no time at all K3IOP was up to his neck in TVI. His own TV set was clean, however.

It wasn't long before annoyed neighbors issued him formal complaints and the Monongahela Valley TVI Committee under the chairmanship of W3OC was called in to check out the station. It was found to be satisfactory with TVI attributed to front-end overload of the TV receivers. Most neighbors

Here, at Headquarters, experiments are conducted and perfected and the information is passed on to you via QST.

Your ARRL also keeps you informed of each country that permits their hams to operate our hams. It also warns you of any country dropped from the list. This is done to protect you so that you will not inadvertently endanger your operating privileges.

As the interest in the hobby grew, your ARRL found it necessary to petition the FCC to establish different classes of licenses so as to give each one a chance. One of these is the Novice License. This license is, what may be termed, a trial period license. It gives you one year to decide whether or not you want to remain a ham. This is mostly true of the youngsters, 8 to 14, who are in the habit of continually changing from one hobby to another.

As is true in any organization, the Officers and Directors are not able to please everyone. When this happens, you have the privilege to write a letter and tell them that you disapprove or approve. When you write a letter, one way or the other, it is printed

(next column)

(next page)

refused to install high-pass filter, and complaints continued to roll in.

Shortly thereafter, the Elizabeth Herald ran a front page story pointing out the interference problem and condemning Butch for it. Week after week exaggerated reports were published. Anonymous telephone calls began to plague the Seaman family. Stones were hurled at their home during the night. K3IOP continued to operate.

As the months progressed and more stories were appearing in the Herald, other newspapers in the area joined in the growing crusade to put Butch off the air. With the exception of a few "Letters to the Editor", no real effort was made by these papers to present a true account of the incidents. Again the TVI Committee appeared due to pressure. Again he was cleared. Many times throughout the winter FCC field engineers investigated and also determined that K3IOP was being operated and maintained legally. Results of these findings never made the papers.

In early February, 1963, FCC men called at the Seaman residence requesting Butch to accompany them for re-examination. Although he was given no advance warning nor study period, he passed with flying colors (100%). The press failed to pick up this story, however. More stones were thrown during the night. K3IOP stayed on the air.

Throughout the spring and summer months, the FCC continued to "check out" Butch's operations. So did the TVI Committee. In the first weeks of August K3IOP succeeded in passing his General Class exam. Bearing in mind the efficient processing of applications these days, Butch rather expected to hear from Gettsburg within a few weeks. But no word came, save the continuing onslaught of FCC field engineers pursuing their pet TVI case. (It should be added here that one-half the Elizabeth town council were experiencing TVI). The McKeesport Daily News jumped on the bandwagon. Meanwhile, Butch's mother and sister were accosted in the street and shoved into an alley. Police were "busy with other matters" and couldn't be bothered. The Seaman's barricaded their home. The FCC is reported to have brought 150 high-pass filters into Elizabeth, although what they did with them remains to be seen. At about this same time Congressman Elmer Holland filed a formal request that the government pass legislation empowering local governments with the authority to put an amateur off the air should he refuse to conform to their wishes. (Congressional Record A-4903)

Not long after Holland filed his remarks, Butch paid a visit to ARRL Headquarters in Newington, Conn. He was advised that the League was already in touch with both the regional and national FCC offices on the matter and

was doing everything in its power to alleviate the situation. Butch returned to Elizabeth.

By now the situation had deteriorated to the point where the Seaman family's mere existence in the community had been threatened. Attempts were made by concerned hams to present the newspapers with the facts, but the copy never reached type. No one, least of all local authorities, was at all interested in the truth. On Thursday, October 17th, 1963, more rocks hit the house and the family was greeted by a deposit of garbage on their front porch.

On Friday the 18th the FCC posted a letter to K3IOP notifying him of the status of his General Class application. Portions of this letter are reproduced below:

... "For the past year there have been numerous complaints of television interference in Elizabeth, Pa., allegedly caused by operations in the frequency band 50-54 mc under your Technician Class license. Repeated and extensive Commission investigations of this matter have confirmed that interference is caused by your operation. Although these investigations have not revealed any impropriety in your operations, the gravity and continued nature of the complaints do raise a serious question as to whether your operation... is in public interest.

... The Commission has granted your present application for a General Class license with the condition that you are not to transmit in the 50-54 mc band. ... The Commission's rules... provide that where the Commission, without a hearing, grants any application with a condition other than that requested, the action of the Commission should be considered as a grant... unless the applicant shall within thirty days... file with the Commission a written statement refusing the grant as made. Accordingly... you may request a hearing..."

(Ed. note; We feel that the above letter to K3IOP should have been printed in full and not deleted. In the present form, it holds back impertinent information in Butch's favor. Deleted information often causes the wrong interpretation.)

We have taken the liberty of italicizing key portions of the above text for the sake of emphasis. Deleted for space purposes are more assurances that Seaman hasn't violated any laws and a reminder that if he accepts the General license, the old Technician ticket will be cancelled. (Ed. note: This is normal procedure when a General license is issued.) Commissioners Bartley and Cox did not agree with this action, but they were in the minority.

THE GARGANTUAN CONFIDENCE GAME

(Next page)

In our opinion this incident marks one of the most treacherous moves ever inflicted upon an amateur in a free country. We wish to state right now that we cannot possibly support the FCC in their actions, nor can we condone the public's attitude, the appalling behavior of the Elizabeth, Pa., police, the newspapers involved, or the actions of the seemingly influential Congressman Holland (Unfortunately, CG was unaware of the circumstances until the morning of October 21st, when a copy of the FCC's action reached this desk). We have been assured by many that K3IOP has made commendable efforts in his relatively short amateur career towards advancing himself in the art as well as developing a healthy interest in the bands above 50 mc. In short, he appears to be a well-intentioned young man who could be a valuable asset to his community and the amateur fraternity as well. Just turning sixteen, however, he must have seemed to be small sacrifice for the personal ambitions of certain politicians and the reams of journalistic "news" that undoubtedly built up an impressive circulation for many newspapers.

Personally speaking, we would think that the FCC field engineers would have had better judgement than to march into the Seaman home six times without any advance notice. Here these men by their very actions are in essence condemning a teenage boy in the eyes of his family and neighbors. What ever happened to tact and respect? At no time was Butch found to be a violator, nor was his attitude questioned.

The FCC's final edict is to us, perhaps the most dangerous of all. Here, in distinctly setting K3IOP up as an example, they are establishing a precedent for future rulings. With such a precedent on the books, it would be a small job indeed to put a ham off the air in years to come. The Commission questions whether Butch's operations were in the "public interest". Does the government define public interest as the population's addiction to Gunsmoke? It certainly is a shame that in today's world public interest is based on Nielson ratings. Is it asking too much for even an ignorant community to have just a bit of pride that one of their youngest citizens is moving rapidly into the electronics age and not from the front of a TV set? Have Elizabeth's residents ever been informed that amateur radio exists because of the service it renders? We wonder how presiding Commissioner Hyde defines "public interest".

It hardly seems the American way that lawless mob violence should be rewarded by federal Government's support. The legal basis on which the FCC action was taken was referred to in their letter. It appears from this that if Butch hadn't applied for a General license, he'd still be on six meters.
(next column)

(Here again we disagree with Bob. Butch's Technician license would still enable him to work any VHF band with the exception of 50 mc, if he were proven to be the cause.)

As it stands, however, he can't even operate mobile or portable, or in the wee hours of the morning. Although the situation obviously doesn't warrant such severe restrictions, the FCC still refuses Butch the right to operate six under any conditions.

We hope Butch Seaman seizes the opportunity to present his side of the case at a hearing. Personally, I would not blame him if he decided against it, though. How many of us could have endured what he and his family went through the past year? But we feel that if he continues his fight, he has a good chance of winning. He must. It's a black day in amateur radio when an ambitious lad is made to suffer personally for trying to advance himself.

Bob Brown, K2ZSQ

Call it Providence, Coincidence or whatever, but, while I was typing Bob's Editorial, December 2, 1963, ABC, TV had a very interesting program on. Because of the assassination of President Kennedy, no programs were taped on Monday, November 25, and so this Monday, December 2 substitute tapes were presented. Today, December 2, in place of "Who do you Trust" a film made by the United Nations was presented. It dealt with communications. Credit was given to the hams for the present-day radio and television communications.

Let's face it. Without the pioneering of the ham the nation, and the world, would not have had the privilege of witnessing the funeral of our Ex-President, John Kennedy!

In connection with Bob Brown's editorial, which was discussed extensively on 220, Sunday, December 1. W2EIF, Jo, made a valiant attempt to describe TVI as not being interference but something else, we will help him by presenting the letter which accompanies our TVI Complaint forms.

THE CAUSE AND CURE FOR TVI

The present day television receiver is a wonderful example of American ingenuity, design and construction developed over a long period of years to its present state of perfection. However, as is true with much mass produced apparatus it still leaves something to be desired. One inherent shortcoming of most present television receivers, including the expensive color receivers, is their inability to reject a strong local radio signal. These unwanted signals which the receiver permits to slip

(Next page)

through may cause lines or streaks, either light or dark, to appear on the picture screen or, in varying degrees, remove the picture - or replace, in part or completely, the sound of the television program with some other's sound or voice, thus reducing, or even destroying your TV viewing pleasure - and why? Because the TV receiver is not designed to handle this situation.

Although there are many types of television interference, the type with which we are most concerned at this time is believed to be caused by radio transmitter whether they be fire, police, civil defense, amateur, commercial, etc. or other apparatus operating in the radio frequency spectrum including diathermy machines, induction heating equipment or electronic ovens to name a few. Actually, in well over ninety percent of these cases this is not TV interference but rather TV interception inasmuch as the receiver is intercepting a radio signal which it was not designed to receive.

In over seventy percent of these cases the interception can be eliminated by the proper installation of the correct high pass filter on the TV receiver. In another fifteen percent of the cases two or sometimes three inexpensive additional parts are required. Only in the remaining less than five percent is any extensive work required. One word of caution: There are many high pass filters on the market but not all filters will eliminate interception of radio signals on frequencies between 44 and 52 megacycles.

Many people have been told by their service technician that nothing can be done about their particular case of TVI. This is not necessarily so. In practically all cases something can be done.

This is our purpose: To inform the TV viewer and their service technicians why they have TV interception and how to correct it.

In most cases of TV interception, the manufacturer of the TV will supply the filter free of charge.

If you are sincerely interested in eliminating television interception, please write to:

Federal Communications Commission
 Engineer In Charge,
 1005 U.S. Customs House,
 2nd and Chestnut Streets,
 Phila., Pa. 19106

(Anyone wishing to use this form may copy it, only remember to put in the address of your nearest FCC office.)

ELECTION RESULTS FOR ARRL DIRECTOR AND

VICE-DIRECTOR, ATLANTIC DIVISION

DIRECTOR

W3YA, GIL CROSSLEY - 2498
 W3HFY, HAL GRACE - 1258
 W3ZRQ, AL BREINER - 991
 Total votes cast - 4747

(next column)

VICE-DIRECTOR

W3ECP, E.S. VAN-DUSEN - 2845
 W3PPS, FRED KAFFER - 1884
 Total votes cast - 4729

"SO PROUDLY WE HAIL"

No doubt you have noticed that the December issue and this issue, with few exceptions, contain only articles supplied by the members of the club.

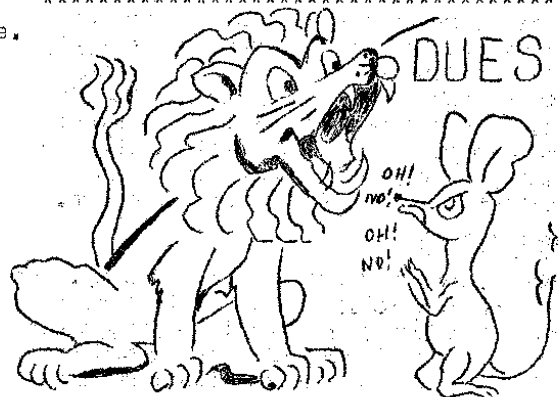
See what you can do when you take a few minutes to share your ideas, experiences and views with others. This is your paper and you are building it with your contributions of articles. Your pride in your club is showing. This is one place where it is fashionable for "your slip to be showing".

The unsigned articles are the opinions of the editor and do not necessarily emulate the opinions of the club.

We salute you, the members, and ask you to continue sending in your articles.

COMING EVENTS

- JANUARY 2 ARPS C MEETING
- 4 & 5 VHF SWEEPSTAKES
- 8 DIRECTORS MEETING
- 15 GENERAL MEETING
- APRIL 16 LADIES NITE



\$\$\$ DUES \$\$\$ DUES \$\$\$ DUES
YOUR DUES ARE DUE !!!

If you haven't paid them as yet be sure to see the Treasurer, W3MVF, Dave Bloch at the meeting and do so. \$6.00 a year. If you will not be at the meeting, be sure to mail them to Dave.

This is not actually a raise of \$1.00 a year since the dues of the club are \$.50 a month, which is \$6.00 a year.

Due to the increase in rent for the meeting room and the increase in postage it is necessary to make it an even \$6.00.

THE ORGANIZATION MEMBER

By K3PXT, Carmen J. Diodati

The success and popularity of an organization should be a result of the amount contributed by the individual member. In reality, however, success in an organization can be attributed to a usually too small minority. This minority is generally considered the click, by the majority membership. Seldom is credit given, or appreciation shown. The membership takes the organization for granted. Many fail to realize the amount of effort expended by the small minority in both time and money in order to maintain the organization's status. A casual review of the membership will indicate that most members can generally be prototyped into a specific category.

THE JOINER:

He joins anything and everything. He prides himself on the number of memberships he holds. Excluding the fact that he pays his dues, rarely, if ever, is the Joiner an asset. He gives naught, takes naught. His sole purpose for belonging is the inflation of his ego, the resulting prestige, or the ride on the bandwagon. Eventually he drops out - the old must yield for the new.

THE WHEELER AND DEALER:

Belongs so he can meet the right people. His is a selfish purpose. He is found cultivating his friendships on the basis of: What can he do for me, or whom can I do for what. This type usually stays around until belonging is no longer an asset. He then leaves for greener pastures.

THE ADOLESCENT:

May or may not contribute to the organization. If he does he gives his all, and continues until something occurs with which he does not agree. Rarely does he attempt to determine whether the change is for the better. He merely concludes that everyone is against him and fades into oblivion.

THE ACTOR:

Knows when and what has to be done. He has the remarkable ability to appear when the job is completed, yet, never too late that he can't take a bow or get credit for his contribution to the already completed effort.

THE DO NOTHING:

Does just that; he does however, reserve the right to complain loudly and bitterly that nothing is being done, and when it is, it's wrong. He has never bothered to read the By-Laws and is always too busy to take part in the organization's effort.

THE DOER:

Last but not least, (He's often known as George) is the small minority who have already been discussed, but there is more to be said of them. This member always gets another chance to get

the job done, no matter how many times he goof's. These are the members who are proud of the organization; they nurse, feed sweat and toil for the organization's benefit. To them belongs the pleasure of stating, "This is my organization, I represent it, and present it with pride."

I. N. I.

TECH NICAL TOPICS

By K3IUU, Bert Saltoff

This month let's talk a little bit about the subject of air wound coils. The coil is actually the most important item in an R.F. Tank circuit. Too often, we tend to use a particular coil in a circuit just because it was available or convenient to do so. At any given operating frequency, an almost endless number of combinations of inductance and capacitance can be found that are resonant. To find the proper value of inductance and capacitance to use, it is necessary to consider the desired operating "Q" of the tank circuit. The proper procedure is to start with a desired value of "Q" and load resistance. Then, using the equation of $Q = \frac{R_1}{X}$,

the value of X, which is the coil reactance. Next find the required inductance by using $L = \frac{X}{2 \times \text{Pi} \times F}$,

is the inductance, F is the frequency.

The ARRL handbook has detailed information regarding this procedure, and is recommended reading. Now, having found the required inductance, what next? Well, to keep the losses in the tank circuit to a minimum, the "Q" of the coil alone should be very high, the higher the better. Some of the factors which affect the coil "Q" are not under our control, but one which is, is the size and proportion. The optimum "Q" for a coil occurs when the length of the coil is equal to, or slightly less than, the diameter. Try then, to keep this shape factor for your coils. A convenient source for these coils is the prewound coil stock made by B & W, and AirDux. To calculate the inductance for one of these coils, or one that you wind yourself, you can use the following equation.

$$L = n^2 \frac{r^2}{9r + 10 \text{ leng.}}$$

Where n is the number of turns, r is the radius of the coil, and leng. is the length of the coil. This equation is accurate to about 1% for coils of the dimensions typically encountered in ham use. Table 1 tabulates the inductance for the prewound coils and also cross indexes the two manufacturers. Note that the inductance given is for the full length of coil stock. For shorter lengths, the inductance is approximately proportional to length. In other words, for
(next page)

1/2 the inductance, use 1/2 of the coil.

Table 1 Air Wound Coils

Coil Dia. Inches	Turns Per Inch	B & W	AirDux	Inductance Micro- Henries
1/2	4	3001	404T	0.18
	6	----	406T	0.40
	8	3002	408T	0.72
	10	----	410T	1.12
	16	3003	416T	2.90
5/8	32	3004	432T	12.00
	4	3005	504T	0.28
	6	----	506T	0.62
	8	3006	508T	1.10
	10	----	510T	1.70
3/4	16	3007	516T	4.40
	32	3008	532T	18.00
	4	3009	604T	0.39
	6	----	606T	0.87
	8	3010	608T	1.57
1.0	10	----	610T	2.45
	16	3011	616T	6.40
	32	3012	632T	26.00
	4	3013	804T	1.0
	6	----	806T	2.3
1.0	8	3014	808T	4.2
	10	----	810T	6.6
	16	3015	816T	16.8
	32	3016	832T	68.0

WHAT HAPPENS

W3FTU, Tom, and his XYL, Cathy, became the proud parents of a bouncing baby girl on Saturday, November 23. Congratulations. Understand that Tom was installing an antenna at the time and he now has the most unusual array in the Phoenixville area.

W3CPT, Ken, our erstwhile traveling son, sneaked back from Japan and never left Mama know. Welcome home, but sisper-shame on you.

Our other traveling son, W3FSC, Ozzie, should be home from California by now. We know that you and Sylvia found time to mix pleasure with business. Sorry we didn't get a chance to drop you a line but with the assassination of the President and Thanksgiving all coming at the same time we were quite busy. Welcome Home.

We are happy and proud to announce that W3SAO, Frankie, was elected by radio station WDAS as the Schmidt's Brewing Company, "Man of the Hour". The program was presented on Wednesday, Thursday, Friday and Saturday the week of December 2nd.

It seems that when Mama wrote up the participation of the Phila. County ARPSC's participation in the "Victory over Polio" campaign, she inadvertently omitted one of her sons; W3GEU, Sid. He "bwoke his wittle fuel pump" on December 3rd and I "bwoke his wittle heart." Sorry, Sid. How's your fuel pump? Hi.

We've been wondering what has happened to W3KLL, Walt. Long time no hear from. Is he away on business or is he ill? We hope the latter is not the cause. We would like to know.

For some reason or other, someone has developed the very bad habit of throwing raw eggs on the front porch of W3SAO. We know that TVI is not the reason as it happens either when we are not home, or when we are eating supper. It never happens when he is on the air. It always seems to happen right after dark. We've turned the matter over to the police to solve.

K3DXC, Mel, was returning from a CAP meeting, a few weeks ago, in pouring rain, and he ran out of gas at 5th St. and Godfrey Ave. He put out an emergency call and K3WEU, Raul came back to him and relayed his message to AAA. In the meantime, K3QFQ, George and another ham heard his call and arrived at the scene with offers of help. Is this the Ham spirit or not.

Sounds like K3HJA, Earl, is having good progress with his arm. Heard him on the net from home the other week. That's the spirit, Earl, don't give up hope.

Hey, K3GOZ, Herm, grandson or granddaughter? When?

Perhaps some of you may wonder why we always put the call before the name instead of the name and then the call. Look in the Call Book and see why.

A SIMPLIFIED CONVERSION OF THE ARC 5

6 & 2 METER VFO

By K3PXT, Carmen Diodati *

Many 6 and 2 meter stations are using a modified ARC 5 as a VFO. Impressed by the low cost of these units and the apparent good results obtained by the using stations, it was decided to obtain and modify one for the home QTH; accordingly, information was requested from each station contacted which used the modified ARC 5 VFO.

From the information obtained, results were generally satisfactory; however, the prevalent complaint was TVI and numerous replacement of the input tube of the transmitter. It was further determined that the majority of using stations had not done the modification, but had obtained them as a result of a swap or purchase.

Additional investigation revealed that the TVI generators had little or no modification, were being operated with the top and/or bottom cover removed, used unshielded wire to the transmitter input, and above all, used power supplies which delivered voltages in excess of the design requirements. Any one or a combination of the above, will cause objectionable TVI. However, the TVI grows to unreasonable proportion when the ARC 5, not properly modified, is used as a VFO.

The explanation for the tremendous increase in TVI is as follows:

Most oscillator circuits of transmitters are designed so that the crystal will drive the oscillator stage between two and three times the cut off value of the tube. The improperly modified ARC 5 VFO drives the oscillator stage a good bit farther than this. The farther the oscillator is driven into the cut off region, the richer the harmonic output. The result - bigger and better TVI through more channels of the idiots' delight. In general, many of the ARC 5 VFO's presently in use, put more power into the crystal socket than the transmitter is capable of putting into the antenna. The proud (?) owners of the improperly modified ARC 5 are confined to watching the boob tube, when they would prefer to operate. Or the unit is placed in a corner waiting for a good swap or sale. However, with proper modification, the ARC 5 as a VFO will compete with any commercial unit. As for cost, there is no comparison - your \$ \$ \$ \$ ahead.

Whys and Wherefores

The modification of this unit differs from most in that it is applicable to the T19 (3 to 4 mc) and the T22 (7 to 9 mc), also to the extent that the output coil is removed and replaced by one having a much lower Q than the original. The low Q of the coil in conjunction with the circuit capacity, results in a constant drive of approximately two mils throughout the band;

thus simplifying the operation (no peaking required) also removal of the coil permits incorporation of an in-board power supply for a complete independent unit.

Operating voltages are such that power may be taken from the accessory socket of most transmitters. If this method is selected, it is recommended that a filament transformer be incorporated inboard; this is advantageous for several reasons. It will limit the current drain from the power source and permits the VFO filaments to be operating constantly assuring xtal type stability - actually, a half hour warm-up or use results in essentially the same type stability - drift being in the order of a few KC's before settling down.

The following procedure does not contain the incorporation of any of the cream puff ideas; however, all of them have been utilized by some of the local hams with very good results, for example; K3DXE and RLQ are out-board supplies - K3RIT a built-in supply with yours truly using accessory power and an inboard filament transformer.

The conversion that follows is simple; all that is required is to follow the procedure given step by step.

Procedure

1. With the top and bottom cover removed and the front panel facing you; remove the xtal, the 1629, and the 1625 to your right.

2. Snip the wires from the two feed throughs, the wire from the plate coil to the output coil and the wires to the relay at the rear of the front panel.

3. Remove the plate coil and RF choke.

NOTE: When the word snip is used, it should be defined as cutting the wires as close as possible to the connection point. The word remove means to remove the holding screws of the part mentioned.

4. Remove the output coil and relay from the rear of the front panel, the antenna connector and ground lug close to the antenna.

5. Remove the four screws on either side of the feed throughs; this releases a variable capacitor which must be removed later.

6. With a screw driver, pry the aluminum tube socket edging from the removed 1625; this releases the socket for removal.

7. With the unit bottom side up and the front still facing you, snip the wires from the loosened socket and remove the socket.

8. Remove the relay from the right side panel and snip the wires.

(next page)

9. Snip the wires from the front variable capacitor, the center variable capacitor, the feed through on the right, and lift out the center variable capacitor.

10. Remove the power resistor from the rear panel and snip the connecting wire.

11. Snip all wires with loose ends.

12. Cut a piece of aluminum 2" x 2", drill a 5/32 hole at each corner, and a 1/4" hole in the center.

13. Mount the plate over the hole of the removed 1625 socket with 4 nuts and bolts simultaneously inserting a two terminal, terminal strip at the lower right corner hole.

14. Mount the coil through the 1/4" hole so that the adjusting screw is on the top side of the chassis.

15. Insert a UHF connector (fits perfectly after filing of the tit or extension is existing hole).

Wiring

1. Connect a wire from the rear terminal of the lower capacitor on the right panel to pin 1 of the 1625.

2. Snip the wire connecting pin 4 and the terminal of the oscillator coil, and connect in its place a 270uufd capacitor.

3. Also, at pin 4 connect one end of a 100K ohm 1/2 watt resistor, dressing the other end towards the front of the chassis.

4. Snip the resistor connected between pin 5 and the front terminal of the upper capacitor and connect a 27K1/2W in its place.

5. Snip the resistor from between pins 6 and 7 and connect the other end of the 100K ohm resistor to pin 6 and 7.

6. Snip the wire from pin 5 to the xtal socket and connect it to the rear terminal of the upper capacitor on the right side panel.

7. Snip the red and white wire from the feed through capacitor and connect it to the low side of the plate coil.

8. Connect a wire from the high side of the plate coil to the feed through capacitor.

9. Connect the low side of the output coil to the ground lug.

10. Connect the inner conductor of a short piece of coax to the high end of the output coil, the other end of the inner conductor to the feed through on the right side of the chassis.

11. Provide a ground lug close to the feed through and connect the outer shield of the coax.

12. Snip the wire from pin 7 of the 1629 tube and connect it to pin 2 of the rear socket.

13. Connect a wire from pin 4 of the

1625 to pin 7 of the rear socket.

14. With the unit right side up and front facing you, connect a piece of coax from the feed through on your left to the antenna terminal.

15. Insert ground lugs at suitable points for grounding the coax shield.

16. Connect a 3" piece of wire from the feed through to your right and connect a plate clip on the other end and slip it on the plate cap of the 1625.

17. Check to see that all wiring has been done according to instructions or check the circuit to the revised schematic.

18. Construct the output cable from RG 58 18" long with the necessary connectors on each end and connect it to the output terminal of the VFO.

Tuning

With no power applied and all tubes inserted, turn the tuning knob so that the number 4 Or 8 (depending on the unit being converted) is aligned with the dial index. Adjust the slug for an 8mc dip with a VFO. Due to variations in wiring techniques, cable lengths, etc. it may be necessary to decrease or increase the number of turns on the coil to obtain the 8mc resonance. It is desirable to obtain resonance with the coil slug set approximately midway

Now, with the bottom plate and top cover installed, power applied, and VFO output connected to input of transmitter, tune your receiver to the center of the range of frequencies you intend to operate, observing your S meter repeak LI for maximum S meter indication. You are now ready for the type of operation you can never enjoy with X-tals.

Conclusion:

The normal method of operation of a VFO indicates the frequency accuracy of the dial indication is not a necessary criterion. The operating frequency is generally obtained from the receiver dial. Therefore, if any accuracy is desired it behooves the operator to obtain a receiver X-tal calibrator for this purpose. A chart may be made for the dial indications indicating the operating frequency.

This modification is accomplished with less time and cost. It reduces to a minimum the mechanical work required and above all results in additional room for an inboard power supply. If sufficient interest is shown, a step by step procedure will follow for an internal power supply for this unit.

Acknowledgement:

Gratitude and appreciation is hereby extended to W3FQD, Dick, fellow member, friend and neighbor, whose original idea was the basis for this modification.

(next page)

Dick's conversion results in additional room for an inboard power supply, as the 1625 is removed and replaced by a 6CE6. The output is capacity rather than link, which incidentally is a matter of preference.

*.K3PXT, Carmen J. Diodati
93 N. Hilltop Drive,
Churchville, Pa. 18966

(Note: Please address all comments and queries to the author, not the editor. Thank you. The schematics are enclosed; the next three sheets of paper.)

SWAP AND SHOPPE

Conducted by; W3ZRR, Raymond Whitehead
4534 N. Smedley Street,
Phila., Pa. 19141
215- 8A, 4-10

FOR SALE: Gonset IIA- 2 meters. Excellent Condition. \$125.00

Hammerlund HQ 110C, mint condition. \$150.00

Johnson Viking 2 with VFO \$150.00

BC 221 Frequency meter with power supply \$75.00

RME 6N2 VHF Transmitter New \$150.00

Morrow transmitter, MB 560A Morrow Receiver, Falcon Very good mobile rig, No power supply. \$150.00

Geloso transmitter, 90W AM or CW, 160 to 10 meters. \$50.00

Transistorized RTTY converter \$40.00

New ARC 5, 1.5 to 3 mc, \$15.00

220 transmitter and receiver completely converted \$45.00

Will sell or swap

CONTACT: W3IXL, Ellis Hersh
8435 Cedarbrook Avenue
Phila., Pa. 19150
215- CH. 7-7325

FOR SALE: NC 1830 receiver \$200.00

Globe Hibander with VFO \$150.00

Johnson Ranger \$175.00

Gonset GC 3 6 meters \$175.00

417A converter, 2 meters with power supply \$25.00

8 element Telrex 2 meter beam \$18.00

WANTED: 1 1/2 to 2 H.P. outboard motor.

CONTACT: W3CFS, Edward Albert
1307 Dorothy Avenue,
Phoenixville, Pa. 19460
215- WE. 3-3104

WANTED: 6 1/2' half enclosed steel rack.

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

NEW PRODUCTS OF INTEREST TO HAMS

By W3NSI, Lynford Rowland, Jr.

1. Chassis Male Connector
These units may be used to terminate dummy loads, or small converters where it is desirable to avoid a coax lead. Since this connector makes direct mounting possible no lead is required. Standard 239 fittings may be used.

Price \$.99
From Aerospace Connectors
33 Stage Street,
Stamford, Conn.

2. Speed control - SCR 1000
May be used to vary speed of small electric drills, grinders, etc. Used with any fractional horsepower universal AC/DC type motors. Adjustment from 3-50% of full speed. Max. capacity 80 watts.

Price \$10.95
C B C Industries Inc.
2601 N. Howard Street,
Phila., Pa. 19133

3. Amperex DX 245
This tube is an indirectly heated beam power tetrode designed for use as an RF amplifier or Oscillator up to 250 Mc. It incorporated a magnoval base and the anode pin is brought out through the base separated from the pin circle for convenient under-chassis circuitry. Fil- 13.5 V .6 amps
or 6.75 V 1.2 amps
Input cap. 11.5 MMFD
Output cap. 5 MMFD
At 50 Mc this unit will take 550 V at 150 Ma
At 175 Mc this unit will take 450V at 150 Ma
Plate dissipation - 75 watts
Efficiency runs 63-60%
Driving power 1.5 watts

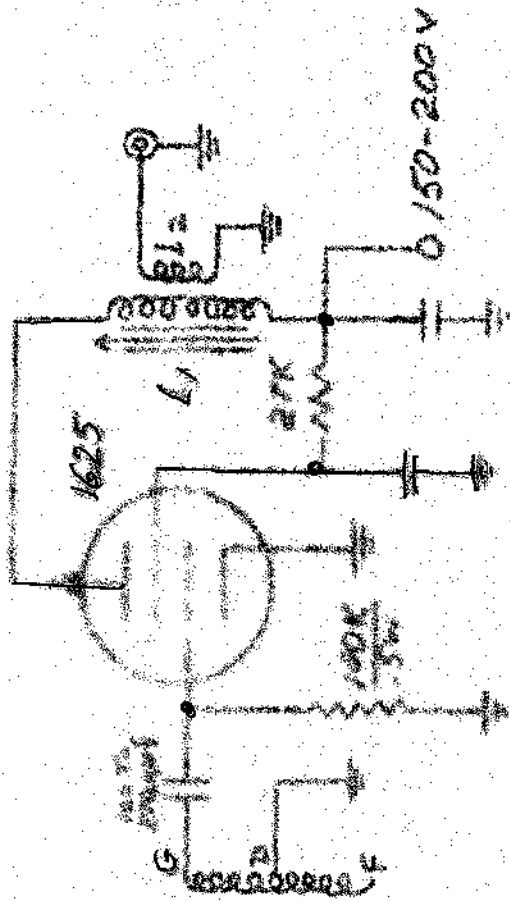
Price \$13.00 - \$15.00
Amperex
230 Duffy Ave.
Hicksville, L.I., N.Y.

A MESSAGE FROM

W3YA, Gilbert Crossley, Director,
Atlantic Division ARRL

The winter season is upon us, garden tools have been put away and snow shovels are ready for use. Clubs and amateurs are preparing for emergency service, contests and fields, while on the air are many remarks not always correct in fact.

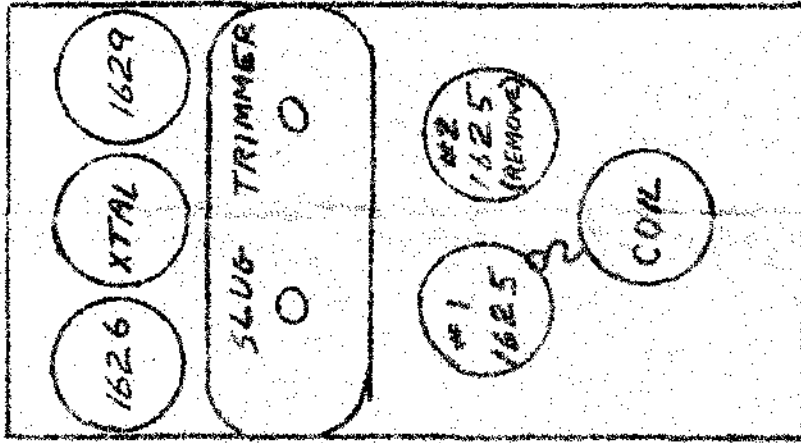
Will you allow me to make a few remarks concerning the Board action of
(next Page)



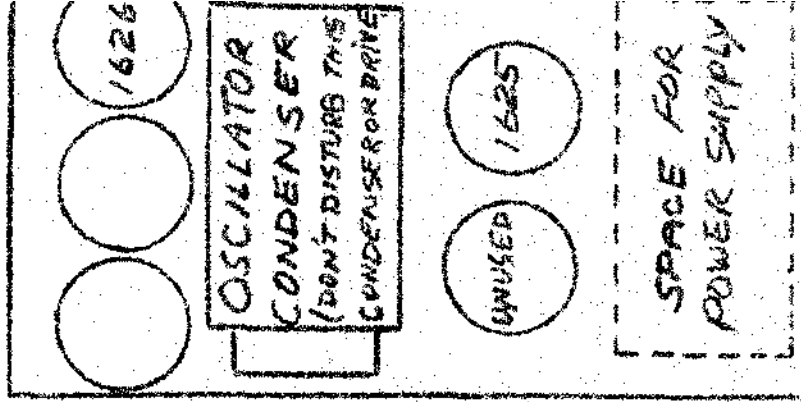
- L1 25 TURNS 28CAMEL COVERED ON MILLER #9446 OR EQUIV.
- L2 5 TURNS 28CAMEL COVERED WOUND ON COIL END OF L1.

- 13 -

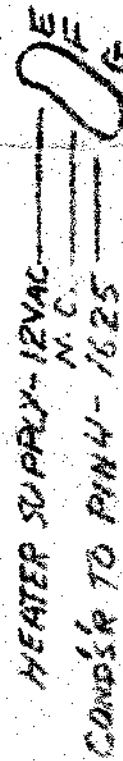
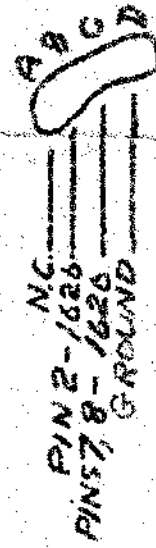
MODIFIED ARC/5 OUT PUT CIRCUIT



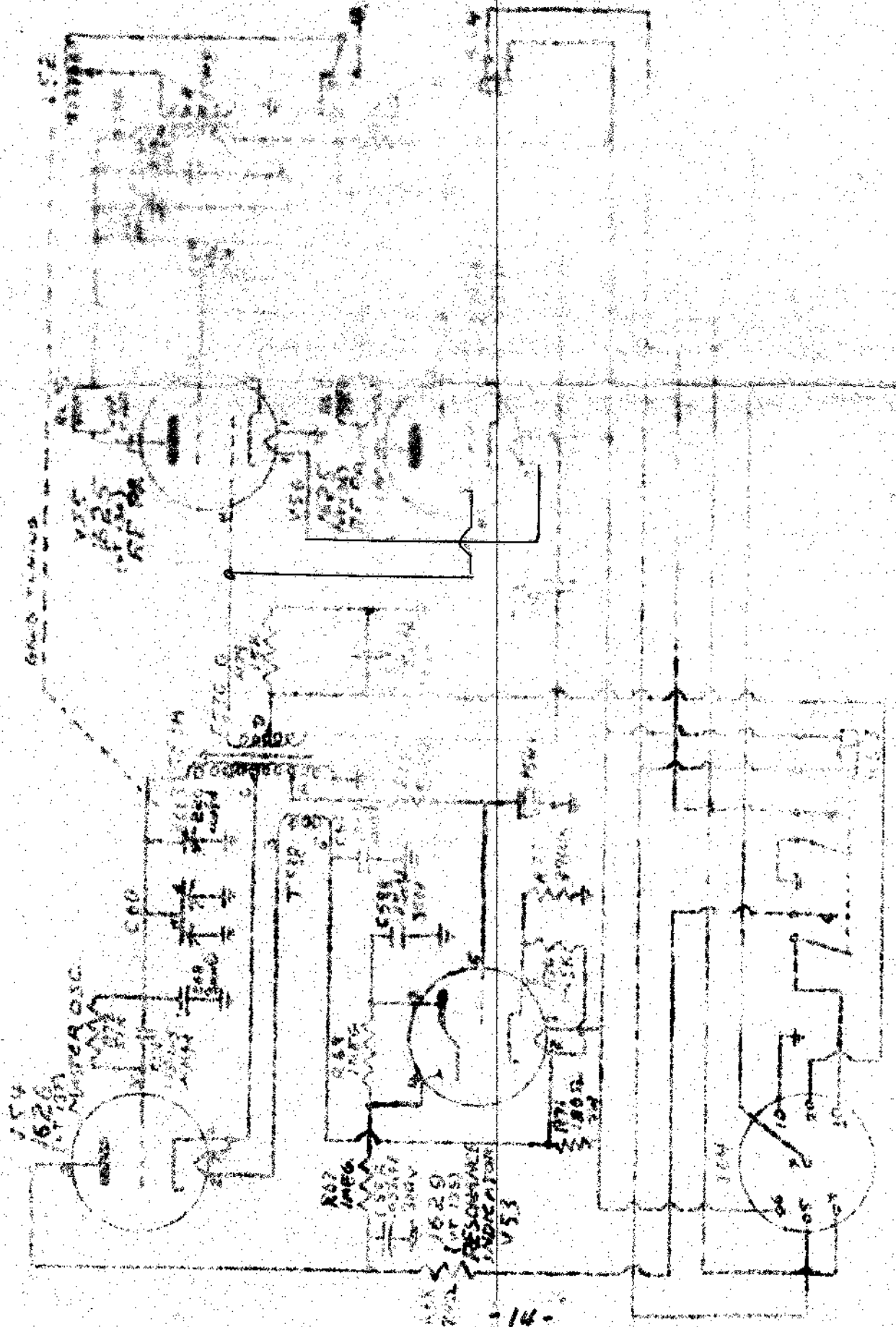
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BOTTOM

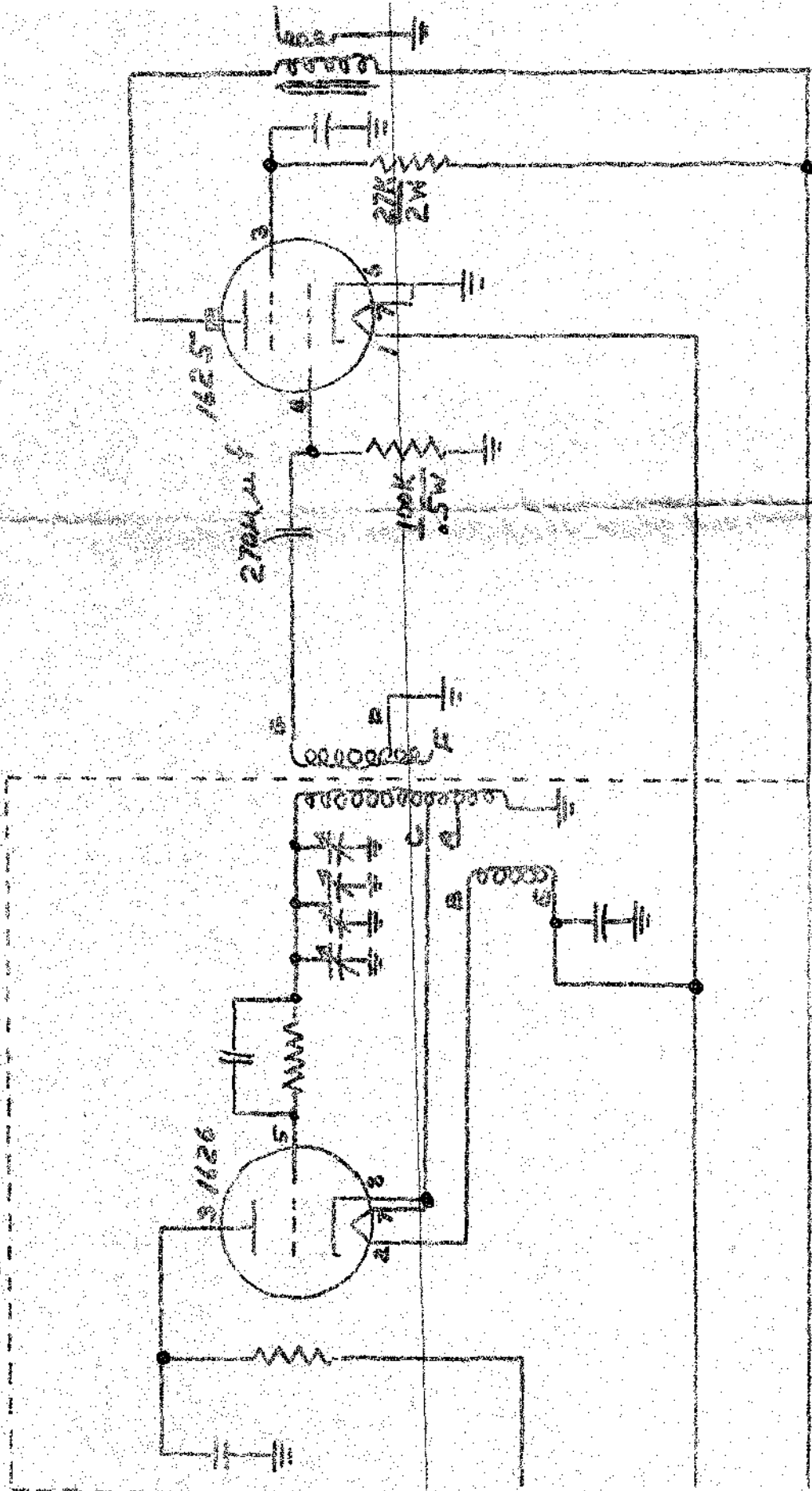


OSCILLATOR COIL TERMINALS



ARC 5 TRANSMITTER

OSC. CIRCUIT - NO CHANGE



CONVERSION ARC TO VFO

last May, now so much discussed. On January 20, 1963, I received a letter from President Herbert Hoover, Jr. calling attention to the February editorial on "incentive licensing". He indicated that it was quite important and asked all directors for their reaction by letter. I asked my Vice-Director and all of my (16) assistant directors for comments from their areas. Their comments indicated a slight edge in favor. On February 28, I sent a letter to President Hoover objecting, using all the reasons received later from the members and a lot of arguments not mentioned by them. Up to the time of the Board meeting, I received 684 letters which were as balanced in views pro and con, as they could be -- so much so I would have had to weigh them on a postal scale to determine a difference.

I went to the Board meeting against the incentive program as then known to me, but I did not know the true facts which were later presented by President Herbert Hoover, Jr., Legal Counsel, Robert Booth, and General Manager, John Huntoon. Information they presented to us was not just "hand writing on the wall," to be interpreted by us, but actual facts, not a result of amateur observation but given by officials of various organizations who are in the know of what is going on and what is likely to come. Conversations were held with regional ITU officials of several regions, State Department, Defense Department, F.C.C. and others.

They presented facts that cannot be denied by anyone. With the letters received from my constituents so nearly balanced and the facts so overwhelming, I felt it to be my responsibility to use my own judgement. This I did hoping to preserve as near as possible the "Amateur Radio Service," for not just American Amateurs but as an assistance to the International Amateur at the next Geneva Conference.

Much information received by our League Officials is what is called by newspaper men, politicians, and lawyers "privileged information." What equal source can those shouting to the winds against the League program produce. Of course, I cannot divulge names as they were not given to the Board, to do this would dry up the source. I am enclosing a copy of President Herbert Hoover Jr.'s speech at the Atlantic Division Convention, September 1, 1963. Please read this seriously. I understand this is to be reprinted in January 1964 Q.S.T.

As your director, I have always considered the opinions of all my constituents most important, but when the facts show that compliance with their wishes will work against rather than for the "Amateur Radio Service", in the long run, it is my responsibility to take all facts into consideration and act accordingly. It would be a disservice to the membership of my division to act

otherwise. Of course, I must then justify my position if called upon to do so.

May I suggest that all clubs enter into an extended educational program in proper operating techniques and the technical fields. This would be good for the old timers (they could help) as well as the new amateurs to help get them into the proper groove. As an affiliated club you are eligible to borrow films and other training aids from the League library. Why not make use of this service? (Refers to club re-affiliation)

Since I was first elected director in 1953, I have been proud of my record in visiting club meetings and hamfests over the Division. However, most club meeting visits have been the result of an invitation from the club. I, of course, welcome invitations and seldom is it necessary to decline. (Refers to N.Y. club schedules)

We are approaching the Christmas Season. My XYL and I wish all Clubs and amateurs the best of Seasons Greetings and a Happy and Prosperous New Year.

C U L 73

Gil

DID YOU KNOW

That in the CQ Magazine Summer VHF Contest, K3IPM, Stan, was No. 1, K3LOM, Harry was No. 3 and K3ACR, Rich was No. 4?

That in the ARRL September VHF QSO Party, K3IPM, Stan was No. 1, K3LOM, Harry was No. 2, K3IUV, Bert was No. 4, W3CLQ, Walt was No. 5 and W3CCX, Club station, operating only 6 and 220, was No. 8 in the Atlantic Division?

The United States Information Agency is forming an exhibition on Communications which will tour the Soviet Union next spring and summer?

Amateurs holding a General ticket or better and have some knowledge of the Russian language will join the tour? All expenses will be paid as well as regular salary?

In order to conserve time, interested amateurs, who feel they may qualify should call Mr. Flynn collect at Washington, D.C., exchange DUDLEY 3-4452 Please call only if your business will permit your leaving the country for a few months.

(from CQ Magazine)

That the Central Virginia Six Meter Net meets daily on 50,250 mcs at 1900 hours, and they also handle traffic?

That they also issue a certificate?

That stations, both fixed or mobile, outside of a 20 mile radius need only work five (5) stations two way?

For further information contact; K4MLY, Lt. Col. John H. Hill P.O. Box 3278, Ben Air, Virginia, 23235

LATE SWAP & SHOPPE

- FOR SALE: 4 4-125A Tubes (new) \$10 @
- 2-Sockets for above Johnson \$1 @
- 1-Jennings Variable Vacuum capacitor with turning and mounting hardware capacity 10 to 200 uuf \$25
- 2-Helipot Duodial turns counting dials Model 903 \$3 @
- 6-National FXTB-IF coil forms w/shields and mounted variable capacitors \$.50 @
- 5-National sockets for above \$.10 @
- 2-Vacuum antenna change-over relays (28.0 V DC) \$5 @
- 4-250TH tubes \$5 @
- 1-Penta Laboratory type 6580 tube. Grounded grid triode 400 watt plate Disappation with chimney Cost \$51 sell for \$25
- 3- 4-400A tubes \$10 @
- 1-Johnson Variable Inductor No. 229-201 10 micro Henries total \$6.50
- 1-Johnson variable Inductor No.229-202 18 microHenries total \$7

CONTACT: W2AXU, John Power
25 Van Duyn Drive,
Trenton, N.J. 08618
609-882-1040

- FOR SALE: GSB 100 SB Xmtr \$230.00
- Gonset Twins \$200.00
- Gonset 2 meter Communicator with xtals \$100.00
- Gonset 2 meter BDCST \$20.00
- Gonset 10-15-20 BDCST \$20.00
- SCR522 2 meter Xcvr \$50.00

The above articles are from the estate of W3DJ, Ray Glemser.

CONTACT: K3KPA, John
215- NE. 4-5078

OR
W3AGI, Doc Bradford
215- BA. 5-3797

HIGHLITES DEC. 18 MEETING

HAPPY BIRTHDAY TO: W3NSI, Lyn; K3BPP, Walt; K3EPB, Howard; K3EOD, Al; W3GEW, Sid and W3CLQ, Walt.

K3HWZ, Grandpop Bill, suggested that the members send letters of encouragement to K3IOP, Charles A. (Dutch) Seaman, Elizabeth, Pa., and let him know that you are behind him in his battle with the FCC.

The weather was far from "a balmy spring day" for a ride, but the following Pack Rats braved the snow and made it to the meeting: W2SXQ, Bill from North Plainfield, N.J.; WA2QCQ, Don, from Hillside, N.J.; K3GAY, Don from Allentown, Pa.; W3BRU, Frank from Park

asie, Pa, and W2AXU, Jack, K2QDS, Mike and WA2JNA Jim, all from Trenton, N.J. If you weren't there, what's your excuse!

We know why our new member, K3QFD, George, wasn't there. He is recovering from a recent spinal operation. Speedy recovery, George.

We also know that K3RCV, Jack, is in bed with a cold. Get better soon, Jack.

Once again it is time to remind you to listen on Net Frequencies from 6:30 to 7:30 P.M. on meeting nights when the weather is inclement for any announcement of meeting cancellation.

W3CL, Harry, Membership Chairman, presented the following applications for membership for a vote of acceptance: K3FDH/WA2WAM, Dr. Lawrence Halpern and W3DHY, Thomas Jones. The vote was in the affirmative. Information for your membership book on the last page.

Harry also received a landline call from K3KMN/5, George, our son in Texas.

The Summer Callbook, a box of goddies and meters were auctioned off.

The rule for the VHF SS, governing the use of one or more calls was explained. "One call per transmitter. Family calls permissible only if the proper person gives his/her call."

The meeting was then truned over to K3IUZ, John, the Contest Chairman.

W3CL, Harry, gave a Pep talk on the Contest.

W3SAO, Frankie, explained how to keep score.

W2EIF, Jo, told how to make a high score and explained the data sheets.

W3IGH, Charlie, explained how to make a high score on 2 meters only.

Our guest, K3UJD, Mario Fontana, entertained to group by playing the Uke and making up songs about the members.

Here's a little "Tid-Bit" from K3IUU, Bert.

CB IN STIR IS SPRUNG BUT unauthorized users stay inside, in solitary, in fact. FCC Denver men nosing around on an illegal radio transmission wound up at Utah State Prison. The good-hearted spouse of an inmate, a CB license, had smuggled radio gear into him to amuse himself on state time. He sold the rig to another con (no license). The call letters were thrown in. The antenna was made from prison junk yard parts. The warden took away the play-toys whereupon the deprived went into solitude for 30.

PHILA. COUNTY ARPSC

The members once again took part in distributing the Type II Sabin Oral Vaccine December 8 and 15. Business was slow as not as many people turned

The officials seem to think that it was because of the cold weather, but they forgot to take into consideration that quite a number of people were sick in bed with either a very bad cold or the Flu.

On December 15, Frankie was unable to participate as he was in bed with a cold. About 8:00 P.M. we had a five alarm fire just one block from the house. (I know the paper said three, but the firemen told me it was five.) Poor Frankie, he "died the death of a rag doll" because he couldn't get out. Using my AREA Press Card, I managed to get through the police lines right up to the policeman in charge and offered the services of the ARPSC for communications, if needed. At the time, you couldn't see a thing for the dense-black smoke, and they were under the impression that three businesses were on fire. I returned home and alerted W3ELI, Van, the EC, and told him that if I called him again they would be needed. I also alerted K3WEU, Paul, of the American Red Cross Disaster Service. Thank goodness none of them were needed, but they were ready.

I spent the rest of the time out front directing traffic, as the fireman in front of the house had to watch the pumper. They were supposed to send him a fire policeman to do it, but they didn't.

Around 10:00 P.M. I went in to make coffee for him, and he asked me to please put his gloves on the radiator as they were frozen. The Jr. Dp gave him his gloves to wear.

He said to me, "They put steel tips in our boots so we don't hurt our toes, but we wouldn't feel anything anyway, they're frozen."

As it turned out there was only one business place on fire, a beverage co. and soda and 807's were popping all over the place.

The fire was caused by an overheated, overhead gas heater.

No one questioned my directing traffic, but if they had, I would have put on my Civil Defense Arm Band, then they couldn't stop me.

One driver asked me how he could get to 11th and Somerville. He had to go 4 blocks east to 5th St., 3 blocks north to Tabor Rd., 6 blocks west to 11th St and 1 block south to Somerville Ave., because of the railroad behind the house. To get 3 blocks from my house he had to 14 blocks.

ELECTION RESULTS AREA OFFICERS AND DIRECTORS FOR 1964 AREA NEWS RELEASE

CHAIRMAN OF THE BOARD: W3KPJ, Henry Schneider, Wesleyville, Pa.
PRESIDENT: W3ZXV, Eugene Pressler, Norristown, Pa.
1st VICE PRES.: K4URX, Stephen McCallum Owensboro, Ky.
2nd VICE PRES.: W1GAD, William Welsh,

Burbank, California.(WA6VTL)

3rd VICE PRES.: W4ID, Col. Alfred Marcy, Eau Gallie, Florida
4th VICE PRES.: W8CTZ, Warren Sladky, Cleveland, Ohio
SEC., TREAS. & EXEC. V-P: W8BAH, Harry Tummonds, Cleveland, Ohio
HISTORIAN: Arthur Lynch, Fort Myers, Florida.

DIRECTORS:
K8MZT, Mrs. Shirley Rex, Canton, Ohio
K9VIE, Richard Kinnett, Indianapolis, Mrs. Helen Brick, Phila., Pa.
VE3EXF, Richard Curzon, Toronto, Ontario, Canada
WA6AWY, William Gray, Redondo Beach, California
W1GVT, John McNassor, Southington, Conn.
K7KBY, Frank Prina, Idaho Falls, Idaho
W9YZE, Harry Turner, Alton, Illinois
K5FVB, Harold Mayes, Marshall, Texas

MEETING NOTICES

JAN. 2 PHILA. COUNTY ARPSC

The regular meeting of the Phila. County ARPSC will be held on Thursday, January 2 at 8:00 P.M. at the Gilbert Spruance School, Horrocks & Levick Streets.

8 DIRECTORS MEETING

The Directors Meeting will be held on Wednesday, January 8 at 8:00 P.M. at the QTH of K3HWZ, Bill McCutcheon, 124 Orchard Lane, Feasterville, Pa. If unable to attend, please call 215- EL. 7-4972

15 GENERAL MEETING

The general meeting of the club will be held on Wednesday January 15 at 8:00 P.M. at the West Oak Lane Jewish Community Center, Sedgwick & Thouron Sts.

This will be the Annual Crying Towel meeting. Come and tell of the troubles you had in the VHF SS.

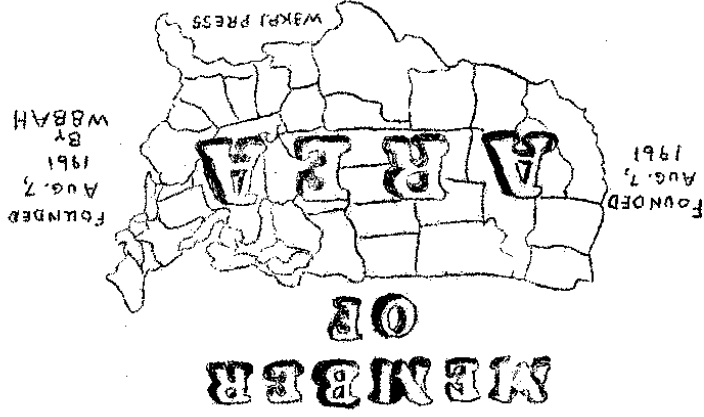
FOR YOUR MEMBERSHIP BOOK

NEW MEMBERS

K3FDH/WA2WAM, DR. LAWRENCE HALPERN, XYL, FRANKIE
101 White Oak, RD #1,
North Wales, Pa.
215-699-5142
W3QHY, THOMAS JONES, XYL, ISABEL
Kirkland Avenue,
Exton, Pa. 19341
215- FO. 3-6230

We offer our sincere sympathy to K3LBT, Al, and his son Bud; on the passing of his daughter-in-law, Hannah, on Friday December 20. God grant you peace and comfort.

AMATEUR RADIO EDITORS' ASSOCIATION



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 829 W. FISHERS AVE.
 PHILA. PA. 19144



DEC 27 1963

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

MEMBERING NOTICE