# T. AMAQUA A. MATEUR R. ADIO C. LUB

W3COW

3860 KC

SARDINE-WRAPPER

3700 KC

FEBRUARY 1957 VOLUMN 3 NUMBER 2 ARRL AFFILIATED

CLUB OFFICERS

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| PRESIDENT | W3ZRQ | Allen Breiner |
| VICE. PRESIDENT | W3RZV | Tex Dallas |
| SECRETARY | SWL | Joseph Lattanzi |
| TREASURER | W3FLJ | William Masaitis |
| ACT. MANAGER | WN3LDV | Joseph Blihar |
| CHAPLAIN | SWL | Doc. Flannigan |

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THE PRESIDENTS CORNER --- By W3ZRQ

From this corner we see that some of the ideas and statements made in my lil' speech at our banquet have taken root and sprouted. Too date, activity in the club has not been too fruitful but, I believe my ideas have been stressed to the point where the membership is becomming a little active. Like any organization, we must have activity to keep interest and the members comming around to the meetings. The same goes if you don't turn the plate switch on in the Xmtr final - No contacts; for the club, no activity, no members.

The younger set is eager to learn Amateur Radio and its up to the OT'S in the Club to try to teach 'em. Tech. Talks at meetings and on the air activity that teach them theory and operating procedure. And know how. Wat say you teachers, Tecknicians and know-it-alls, let's give the boys a hand.

Some of the future activity here-with listed will bring out some of the membership. (we hope). On April 8th, the club will present an exhibition on "Amateur Radio" in the Tamaqua High School for the Tri-Hi-Y and Faculty. A portable rig will be set up and operation from the High School Gymnasium will probably be on 75 foney and 80 C.W. also perhaps 2 meters. You the club member will be asked to help out this evening by giving them a call and working the portable station in front of the audience. Your QSO will be appreciated. Perhaps if we offered a years free dues to all who call, then we might get 100%. This of course is food for thought. Your QSO will be appreciated. (for details and more info. see next "Wrapper".)

Antenna raising is in the planning stage for the new ether buster Joe WN3LDV. Keep your ears and eyes open and help Joe get his sky-wire up so he can work more than just the locals. Info. on this can be had by checking the Sunday A.M. rag-chews on 3860 Kcs.

The Helping Hand Committee on Walter Adams Jr. reports very good progress bein made by the lad. Here too will be an antenna raising when the time is right. Also a rig will probably have to be built, since the boy knows little about construction I shall take it upon myself to build him a transmitter when he is ready for his Novice Ticket. BUT don't count on me for it all. We can build the rig but u fellas should dig down in your junk boxes and come up with the necessary materials. At some future date I shall publish a list of items needed and I'm sure that some where in the club the members hold a warm feeling for this Muscular Distrophy Victim. you get a bang out of working your 75 watter, lets share a little with Walt.

Our new Activities Mgr. is having a ruff time getting started with Club Act. This is due mainly to the past cooperation shown other Activities Managers. Wat say fellas??? Just 10 minutes for cooperation with us at the meetings. A little bit goes a long way.

By this time most of the membership will have known of my TVI case. An FCC investigation was held and I am very happy to say that I am still operating. Of course you don't need to worry about TVI if you don't operate or haven't a ticket.

I wish to thank the Clubs T.V.I. Committee for a job well done.....73's

Well follow's here we sit typing out another Wrapper. If you read the names of the Club Officer's you will notice W3FLJ listed as Treasurer, No that is not a mistake. Due to the Typist being half asleep last month we included W3EEK or should I say gave this job to W3EEK by mistake. Your elected Treasurer was William Masaitis W3FLJ - 240 West Broad Street, Tamaqua, Pa. - Phone 307 - - - Also you will note that I did not forgot to put in our Chaplain's name this month. Hi Doc. Flannigan

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## A TRANSMITTER SPEAKS

"BE it ever so humble thee's no place like home" - so they say. But believe you me, I'll be glad to get away from this shack and meet some girls -- MY --Chief O. keeps me hooked up here 24 hours a day - I tell you I never get out. My day is coming though - just listen to this.

The T.A.R.C. was contacted last week by the Sr. Hi -- Tri Hi Y faculty advisor who would like a "Ham Radio" demonstration at one of the Club Meetings in the High School Gyms. Since it is the policy of the T.A.R.C. to encourage interest in Radio I have been chosen, lucky me, to help my Chief Op. perform before this group. Imagine that I'll be the center of attraction. Some of the girls will ask questions - I hope the O.M's can answer them - but all eyes will be on me. Maybe some of them will even talk to me. Happy day! Girls! How strange it will seem to have the soft tones of YL's voices pouring into my mike -- You O.M's better come around to the Hi School April 8th and give me support. I feel gooso pimply already. I'm sure I'll over modulate or burn up my (6 L 6's) if you don't keep a close check on me.

The Y.M's will be at their own QTH's and all the Y.L's will be anxiously waiting to QSO with them thru MY MIKE. Don't be bashful Y.M's tune me in. Remember your cooperation is needed to make this an educational as well as an interesting demonstration. It can be lots of fun too. (If you get what I mean)

Help me out lads and maybe next time your transmitter will have the same opportunity I'm having now. -- Girls! WOW!

Our reputation is at stake. Never let it be said that the T.A.R.C. falls down on a job. If we are interesting enough to encourage just one YL in "Ham Radio" I say a job well done and again it is well worth the effort.....W3 C M A....

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## CONSTRUCTION — Final installment

After heater wiring is in place it is time to wire in the high voltage d.c. first, however, lets take a look at the heater wiring once more. Is the shield braid grounded well and in more than one place?? Do you have the disc ceramic by-pass condensers wired in, to help prevent T.V.I. ?? Your schematic diagram will show you where these should be. When you put these in place remember to make the leads as short as possible. Even a condenser pigtail has appreciable inductance at the higher frequencies. If you feel that you have this part of the job done correctly now is the time to prove it. Test the line for any possible short circuits. Soldering these by-pass condensers in with such very short leads can sometimes create a serious short circuit.

The high voltage wiring does not have to have heavy conductors, but it does require good insulation. If you make a connection to a plate or screen resistor or a by-pass or blocking condenser, make sure you use a good tie-point, insulated from ground of course. Never leave a resistor or condenser physically floating, that is, just soldered to a running wire and with-out the benefit of a solid tie-point.

Let's get on to the R.F. wiring. This can be bare tinned wire. The wire should be heavy enough to stay in place an not droop around. # 14 will do nicely. Make the leads short. If you have to go through a shield, use a ceramic feed-through or a ceramic bushing. All ground leads for a given circuit should be grounded at a common point. If you have a steel chassis, solder and bolt a lug on the chassis for this ground. If you have an aluminum chassis, use a bolt and lock washer to hold the ground lug. Rivets sooner or later loosen so stick to the bolt and lock washer. If you have a connection on top of the chassis that must be grounded, don't make the connection on the top of the chassis to the bolt that holds the ground lug on the botton of the chassis. If you do this you are increasing the length of your ground lead unnecessarily with a possibility of T.V.I. and lowered efficiency. Look at it this way: If you make such a connection in the very center of a 17 X 13 X 3 chassis, your ground lead would be at least 20" long, because that R.F. if not going through the bolt, but is going from the bolt across the chassis, down the outside edge, up the inside edge, and back across the bottom of the chassis to the ground lug. It is much better to drill a hole and drop an insulated wire through the classis and solder directly to the ground lug.

In your RF wiring, keep your circuits tidy. All the components in any given circuit should be grouped around the socket for the tube in that circuit.

If you are unable to obtain a resistor or condenser of the proper size remember that you can use another size that is available if it is within 10% of the recommended value. Do Not, however, under any condition, use any component that has a lower voltage or current rating than the one recommended.

If you have now completed the chassis wiring, it is time to bolt the panel to the chassis. If the chassis is light you may not need brackets. If the chassis is heavy by all means use the brackets so that you do not tear the panel and chassis apart if you happen to try and lift the unit by the panel.

After the panel is mounted, there is still work to do. If a meter is to be used on the panel, remember to shield that back of the meter, where the connections are made. It may even be necessary to complete the shielding by screening the front of the meter. Both of these steps are good insurance against T.V.I. If it is necessary to drill and tap the panel to secure any components, use more that the usual care if the panel is aluminum. Aluminum is soft and if you allow the drill to wobble even slightly, the hole willbe out of round. If you tap the hole, run the tap slowly in and before you try to withdraw the tap, make sure it is clear of any aluminum particles, since these will join the tap on the way out and probably damage the threads you have just cut.

When you being shafts out through the panel, make sure the shaft is at ground potential. If it is not, use aninsulated coupling between component and panel.....

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Well fellow's the above is the last of a construction article that began three issues ago.

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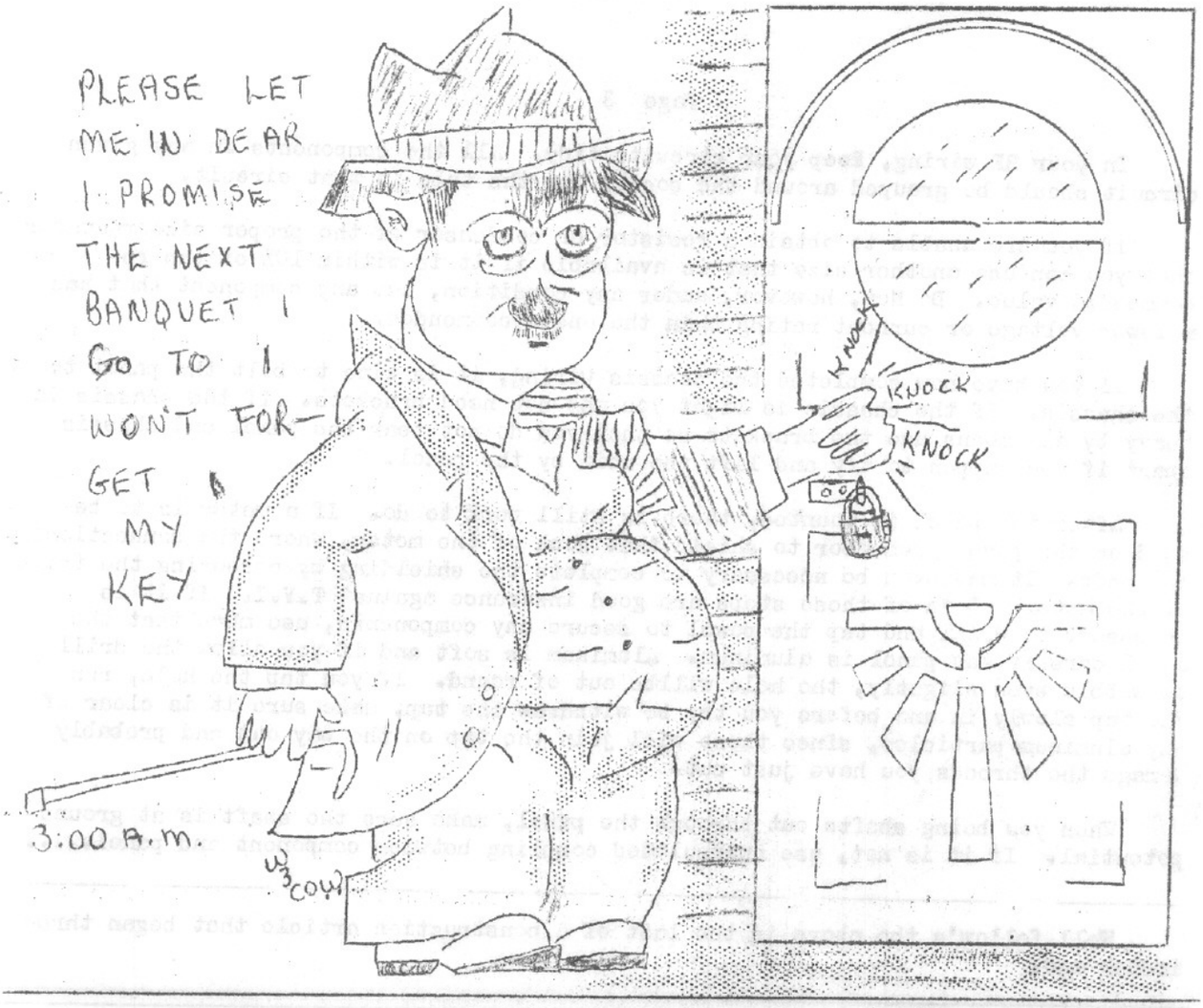
Mr. & Mrs Roscoe J. Bensinger
request the pleasure of your company
at a reception in honor of the marriage
of their daughter
Mary Louise
to
Mr Le Roy K. Bridygham
Son of Mr. & Mrs Kenneth L. Bridygham
on Saturday the sixteenth of March
Nineteen Hundred and fifty seven
at six o'clock in the evening
at the Lewistown Social Hall.

Please reply before
March 9, 1957.

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Follow's the above invitation was sent to us February 14th, I know we didnot do a very good job in writting it out but that is besides the point. The invitation was addressed to -- THE MEMBERS OF THE TAMAQUA AMATEUR RADIO CLUB --

So lets show Roy and Mary Louise just how many members the TARC really has. Hi Hi. (Guess Roy will be starting club again) Hi. Hi.




The poor unfortunate one above actually did forget his key the night of our Third Annual Banquet. The way I got the Story he was a little worse for wear & thought he could sneak in but inso doing lost his key and his XYL had to let him in. A very good neighbor of yours Roy. So let this be a lesson to you Roy.

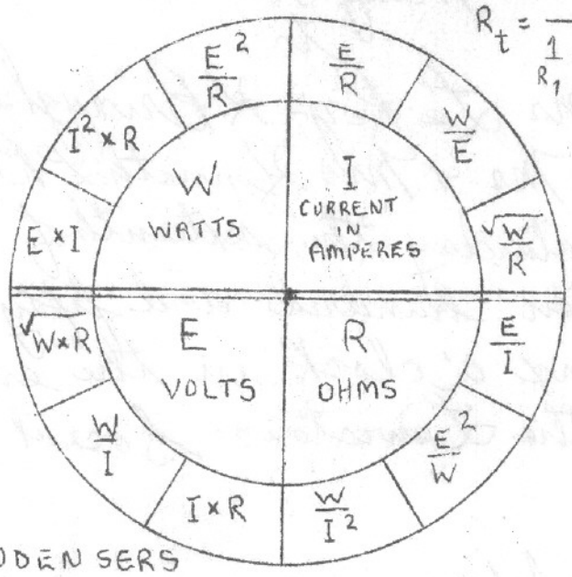
SERIES RESISTORS

$$R_t = R_1 + R_2 + R_1$$

PARALLEL RESISTORS

$$\frac{1}{R_t} = \frac{1}{R_1} + \frac{1}{R_2} + \frac{1}{R_3}$$

$$R_t = \frac{1}{\frac{1}{R_1} + \frac{1}{R_2} + \frac{1}{R_3}}$$




SERIES CONDENSERS

$$C_t = \frac{1}{\frac{1}{C_1} + \frac{1}{C_2} + \frac{1}{C_3}}$$

PARALLEL CONDENSERS

$$C_t = C_1 + C_2 + C_3$$

Nope the above is not a new way to cut up an apple pie. Nor was it put here to fill up space. Our friend and learned Professor W 3 C M A intends to explain the above at our next monthly meeting Monday February 18th at 8:00 PM in the Borough Hall, Tamaqua, Pa.

HOPE TO SEE YOU ALL THEIR AT THAT TIME AND YOU SHALL BE ENLIGHTENED.