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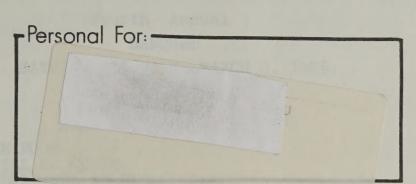
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(Affilliated with the West Link Radio Network, Inc.)





FIRST CLASS MAII





# NEWSLETTER

NOVEMBER

1984

# Barquet Time again 1 See Page ane 1

The Newsletter is a publication of the Holmesburg Amateur Radio Anything that is printed in this paper may be reprinted providing the proper credit is given.

Deadline for Articles: Delivered to the P.O.Box 6253 address by the 15th of each month.

Editor reserves the right to edit, reject, reduce, etc. all items to be published.

SUBSCRIPTION RATE: \$3.00 per year

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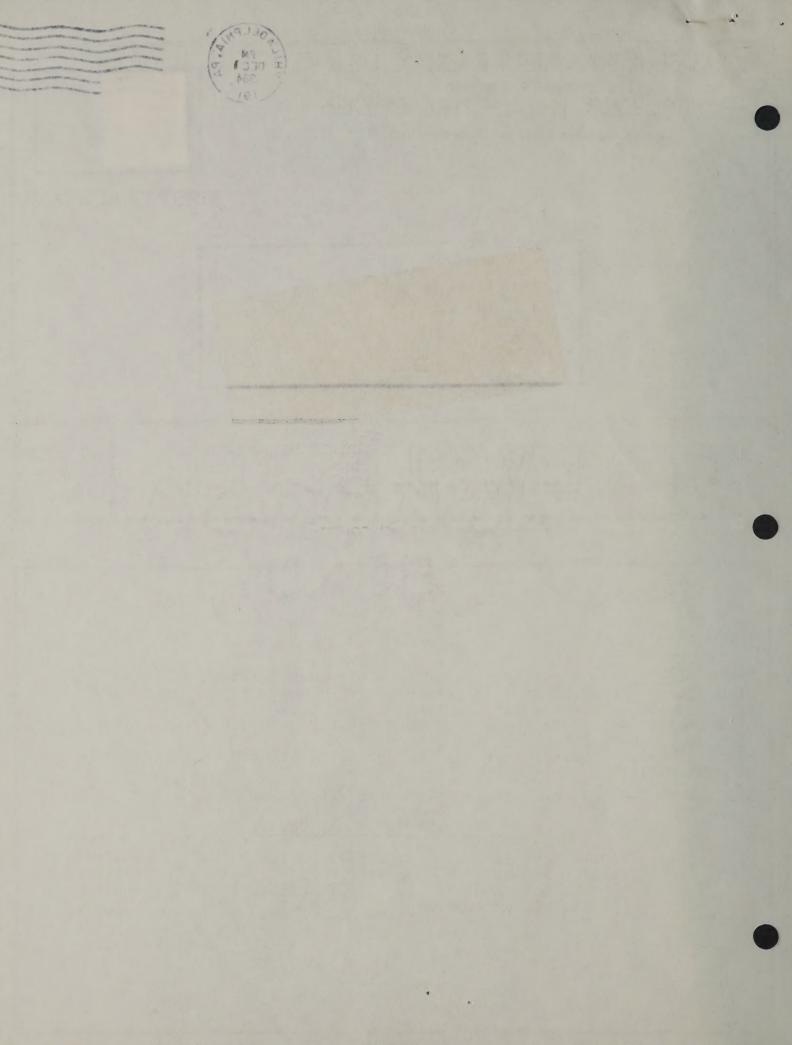
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Edith Rosner-W3AAU 645 Artwood Drive Phila., PA 19115



QST QST QST
HOLMESBURG AMATEUR RADIO CLUB, INC.
Proudly Announces Its

Fourth Annual BANQUET

SATURDAY EVENING, MARCH 2, 1985

at the

HOLIDAY INN, TREVOSE, PA

THERE WILL BE FOOD

THERE WILL BE MUSIC

THERE WILL BE ENTERTAINMENT

THERE WILL BE DOOR PRIZES

THERE WILL BE DANCING

THERE WILL BE FUN FOR ONE AND ALL

DON'T MISS OUT ON THE FUN. THOSE OF YOU WHO HAVE ATTENDED BEFORE KNOW WHAT YOU WOULD MISS IF YOU DON'T MAKE THIS GALA EVENING!!

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| 4th ANNUAL BANQUET AND SHIN-DIG | NC.      |        |
|---------------------------------|----------|--------|
| PUT ME DOWN FOR ALL THE FUN!!   |          |        |
| NAME                            | CALLMENU | CHOICE |
| Spouse/Guest                    | CALLMENU | CHOICE |

\*\*We must have first and last names for placecards.

AM ENCLOSING \$..... for.....people.

SEE YOU AT THE BANQUET!!

73's

#### HARC NEWSLETTER STAFF

Editor -in-Chief, Pressboy and General Nag to Late Reporters-

Mark Rothstein-KC3JV

Layout ,Typing &Circulation...etc.

Clair Kuperman-KA3DNJ

Advertising Mavin -

Jay Kuperman -WA3IFY

#### THIS MONTH IN THE HARC NEWSLETTER

# PAGE SUBJECT GALA BANQUET -Lou, W2FVJ & Paul -K3RBO On the Take -Jay WA3IFY Operation Santa Claus- Harv, K3YLL & Paul, K3RBO Setting Up - Joe, WA3IJZ Twinkle Twinkle Little Twink Part I------ Mark, KC3JV FOR SALE BAND ALLOCATIONS AT A GLANCE from ARRL compliments of Lou-W2FVJ

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TELL THEM YOU SAW IT IN THE HARC NEWSLETTER.

## - HOLMESBURG AMATEUR RADIO CLUB, INC.-SLETTER

#### ON THE TAKE

Are there any circumstances under which an Amateur Radio operator can accept anything of value for his services as an Amateur Radio operator?

This question was posed to several attorneys at a recent get together of about 200 amateurs at the Legal Forum at Santa Clara, CA. The reply was that the one exception is the one established for W1AW.

If there is a regularly scheduled transmission, say code practice, the operator may be compensated during the sending of that scheduled code practice. Otherwise, an amateur cannot accept any kind of direct or indirect compensation for the use of his Amateur Radio equipment or his radio license.

When we talk about direct compensation, we mean no one can give you money for the use of your license or equipment, for sending a message to someone's son overseas or what have you.

Indirect compensation is a little more subtle. You may be performing a service for, say, the Red Cross or some other organization, and they bring you a sandwich or feed you a meal by virtue of the fact that you are there. This would be, in fact, indirect compensation for the use of your radio equipment or your radio license. Before you refuse to accept that sandwich the next time you work for the Red Cross, read Chris Imlay's answer to a question posed by an amateur who worked on the AT&T Olympic Torch Relay: The receipt of compensation depends on what the compensation was received for. As it was appropriatly said, if the compensation is for providing communications, using your Amateur Radio and your amateur license, that is prohibited by the rules. If the compensation is for something related but not directly or indirectly providing the communications, then you get into a matter of construc-

If you are providing your time and your services to an endeavor that includes but is not limited to amateur communications, and you can legitimately say that anything received is provided for the purpose of not compensating you but to enable you to provide these services, and because you are there and doing something in addition to providing those services, then you have got every right to receive that reimbursement or whatever it is. "It's a close one, but if AT&T worked it out with the FCC, who are we

to question it?"

What if a club - on a yearly basis - works a particular event, and it just so happens that 60 days after the event, the organization donates something to the club treasury? Steve responded that that would be considered compensation. The only reason the club got thedonation is because you utilized your equipment and license for the benefit of the organization.

Is there any way the radio club can protect itself by a letter or something? Steve answered, "I don't know of any; my advice is don't do it."

Worldradio

tion.

Jay WA3IFY

# NEWSLETTER

#### OPERATION SANTA CLAUS

It's time for the children!!! Once again, Harvey, K3YLL and Paul, K3RBO are planning to visit Children's Hospital in Philadelphia at Christmas to give out presents to each and every child there.

Harvey respectfully requests that all the members of HARC and their friends send their donations, toys and gifts to the following address:

> Harvey Bart, K3YLL 7968 Langdon St. Philadelphia PA 19111

We've always had a good response from the members of HARC and hope for an even better one this year. Please send your donations in promptly!

DON'T FORGET THE CHILDREN

#### SETTING UP

Greetings!! As many of you know, I have just purchased, fixed up and moved into my first house. I can't say that I've enjoyed all the hours of labor I've sunk into this project however, there is one extremely pleasurable part of this work that I am enjoying immensely... and that is setting up my radio shack.

For one thing, the shack is panel-ed with a rich black walnut which looks very tasteful for an amateur radio station. For another, since this is my first property, it is an incredible novelty to be able to hang up whatever I want, wherever I want, to drill holes any place I fee like pointing a drill and, since I don't have a family living here, I don't have to compromise the functions of a well laid-out radio shack for laundry facilities, storage or any one of a dozen other things that

many hams have to put up with. Another nice thing is setting up equipment, that for one reason or another, has been in storage for 6 or 7 years. It's a real treat to see the SB-200 amplifier, the transmatch, receiver preamp and all the other accessories that I haven't had the space for a number of years.

Somethings, however, can be very difficult to handle. For example, when a friend helped run a 220 line for the linear amplifier, I tried to convince him that instead of putting holes in the walls, maybe it would be OK to drop an extension cord out the window!

Honestly, though, I really cannot wait to get up the tribander and tower this Spring and finally get back to what I like best about this hobby - communicating with fellow amateurs all over the world!!!

Joe Pearlstein, WA3IJZ

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# NEWSLETTER

#### "Twinkle Twinkle Little Twink E=IR I Think"

PART I

Many HAM's know that when resistors are in series you add their values (Fig. 1) and when they are in

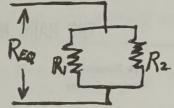
R WWW ROWN

Resistors in Series (Figure 1)

$$R_{\text{total}} = R_1 + R_2 + R_3$$
 (Eq.1)

parallel they use the formula in Figure 2.

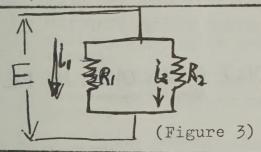
Requivalent =  $\frac{R_1 R_2}{R_1 + R}$  (Eq.2)



Parallel Resistances (Figure 2)

If you understand where this formula Jomes from, there is a much simpler method of getting resistances in parallel.

Let us consider the same two resistances in parallel that was shown in Figure 2. If we place a voltage (E) across these resistors as shown in Figure 3 there is a current that flows; let's call it "i".



Since there are two resistors, the current "i" must be split between two resistors:

$$i = i_1 + i_2$$
 (Eq. 3)

We all remember OHM's LAW: E=IR or (Eq.4) DIR

Since the voltage is the same across each resistor:

$$i = \frac{E}{R_{eq}}$$
  $i_1 = \frac{E}{R_1}$   $i_2 = \frac{E}{R_2}$ 

we can substitute for i's in Eq. 3

$$\frac{E}{R} = \frac{E}{R_1} + \frac{E}{R_2}$$
 (Eq.4)

Remembering our high school algebra, we can divide both sides of Equation 4 by E

$$\frac{E}{R}_{eq} \cdot \frac{1}{E} = \frac{E}{R_1} \cdot \frac{1}{E} + \frac{E}{R_2} \cdot \frac{1}{E} \quad (Eq.5)$$

Since  $\frac{E}{E}$  is the same as 1 (one) we have:

$$\frac{1}{R_{eq}} = \frac{1}{R_1} + \frac{1}{R_2}$$
 or  $R_{eq} = \frac{1}{\frac{1}{R_1} + \frac{1}{R_2}}$  (Eq.6)

By the way, Equation 6 is exactly equivalent to Equation 2 but in a different form.

If you own a calculator, either a simple four function plus memory or a scientific, you can solve Equation 6 for any number of resistors in parallel

First, we will discuss how to do it with a four function calculator.

1. Press clear and clear memory. 2. Enter the number 1, then divide (:) enter the first resistance and hit equal (=).

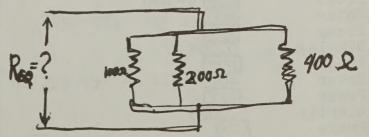
3. Press +M or add to memory.

4. Repeat Steps 2 and 3 for as many resistors that you have in parallel.

5. Enter the number 1, press divide and recall memory, then equal.6. The result is the equivalent para-

llel resistance.

Example: given three resistors in parallel



(AC) CM Press Enter Press all clear Enter = clear memory Press Display 0.01 +MPress Enter 1 Press 200 Enter Press Display 0.005 Press +M Enter Press [ Enter 400 Press (=) Display 0.0025 Press (+M Enter Press Recall Memory (RM) Display 0.0175 Press = Display 57.142857 or 57.14 ohms With a scientific calculator, the procedure is even simpler: Clear memory Enter Press Display Press SUM or +M Enter Press Display Press Enter Press Display

Press

Recall Memory

Display 0.0175
Press 1/X
Display 57.14 ohms
Simple!! Yes! Try it, you'll like it!

Mark Rothstein, KC3JV

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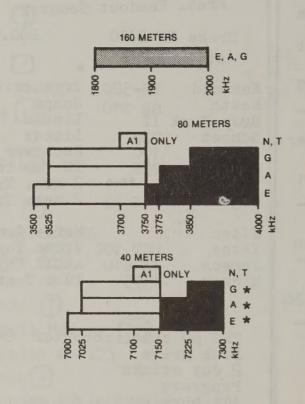
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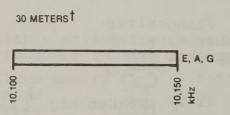
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