

PACK RATS'



PACK RATS

CLUB CALL: W3CCX

MT. AIRY VHF RADIO CLUB, INC.

CHEESE BITS



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

AFFILIATED CLUB: AMERICAN RADIO RELAY LEAGUE

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

VOLUME V

JANUARY 1971

NUMBER 1

THE PREZ SEZ

Well gang, this is a combination last message. It is the last message of the year, rather it is (by the time you get this issue) the first message of the new year. Holiday festivities are over and it's time to get back to the old grind. It's time to start the countdown for the January Contest. You're not ready to start the countdown? You never finished the new converter? Your antenna is still in the garage instead of on it? Well my friend, if you are that far behind, you have to react the same way that industry does when it falls behind:

1. Work Overtime - You can do with 1/2 hour less a night at the boob tube.
2. Put Some More Men on the Job - If you're completely stimed, ask for help. We have among our membership some of the best electronic talent that exists on the Eastern Seaboard.

"CONTEST, CONTEST, CONTEST! That's all I've heard for the past several months." (Sounds just like my XYL.) A true statement however. Most of the club effort in the past several months has been channeled in this direction. The January V.H.F. Sweepstakes is probably the only activity that includes every member of the club. Remember that we are currently No. 1. We intend to perform as No. 1. We intend to remain No. 1. You owe it to your club and yourself to be a part of this effort.

Best of luck to all of you.

K3JJZ, E1

DEADLINE FOR ARTICLES IS THE GENERAL MEMBERSHIP MEETING.

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

MONDAY NIGHT NETS:

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

OFFICERS - 1970-1971:

PRESIDENT: K3JJZ, ELLIOTT WEISMAN
VICE-PRES.: W3CJU, DONALD HAMPTON
TREASURER: K3GAS, DOC CUTLER
CORRES.SEC.: W3SAO, FRANCIS BRICK
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K3BPP, WALTER BOHLMAN
K3CIV, RALPH HERSH
(Ex-Officio)

PACK RATS' CHEESE BITS is a publication of the Mt. Airy V.H.F. Radio Club, Inc., Philadelphia, Pa., and is published monthly.

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DID YOU KNOW

W3FQD, Dick, is looking for the party who purchased the several regulated power supplies at the auction. If the owner would care to resell any of them, contact Dick.
WA3AXV, Ron, and his XYL became parents of a second daughter on Wednesday, December 16. That's a legitimate reason for missing a meeting.
K3WEU, Paul, and the Inglis House Radio Club was the subject of an article in the Evening Bulletin.

* * * * *

NEW MEMBERS

WA3DNC, George S. McCouch
2507 Springview Road
Norristown, Pa. 19401
275-5546

WA2UUV/3, Bill Fulling
Johnsville NADC
Johnsville, Pennsylvania

* * * * *

2 METER REPORT

Conditions have been very good at times on the 2 meter band. There have been several evenings (first week in December when WA4DUR, WA4WJP (North Carolina) were coming through on CW and SSB. Also VE3ASO, Dennis, of Toronto, who will be on 2 meters for the contest.

W2EIF, Jo

AN ORDINANCE?

The following was relayed to me via Eyeball QSO at our auction. I didn't believe that such an ordinance could possibly exist and asked to see a copy. The copy is printed below as well as some comments from a few of our more knowledgeable members.

An Ordinance Concerning Zoning and Amending and Supplementing Chapter 23 of the "Code of the Township of Princeton, New Jersey, 1968".

Sec. 23-22.9. Performance Standards

- (i) Electromagnetic Radiation. It shall be unlawful for any person, firm, or corporation to operate or cause to be operated for any purpose any planned or unplanned source of electromagnetic radiation which does not comply with the current regulations of the Federal Communications Commission regarding such sources of electromagnetic radiation.

Further said operation in compliance with the Federal Communications Commission regulations shall be unlawful if such radiation causes an abnormal degradation of performance of any electromagnetic receptor of quality and proper design.

The determination of "abnormal degradation in performance" and "of quality and proper design" shall be made in accordance with good engineering principles and standards of the American Institute of Electrical Engineers, the Institute of Radio Engineers, and the Electronic Industries Association.

It shall be unlawful for any person, firm or corporation to operate or cause to be operated, to maintain or to cause to be maintained, any planned or intentional source of electromagnetic energy the unshielded radiated power from which exceeds 1,000 watts.

de W3CL - "They have taken the prerogative of the FCC."

de W3ZD - "After I finished laughing, here is my opinion:

1. A township or a state for that matter cannot make laws concerning interstate commerce and since the electromagnetic radiation will probably cross state lines, it falls within this category.
2. The Federal Government has already reserved for itself the powers to govern in this area through the FCC and so the township is usurping powers that it does not enjoy. (I think there is already a supreme court decision on this.)
3. The terms described in the ordinance such as "abnormal radiation" and "unshielded radiated power" and a few others are too vague and they would probably find enforcement of this ordinance difficult if not impossible.
4. Does the township plan to hire a staff of electronic engineers to police the airways, or are the local magistrates qualified to pass on the technical violations upon complaint of a violatee?"

THE BOOK RACK

de Paul R. Behrmann, K3WEU/AREA*

1970 POPULAR TUBE/TRANSISTOR SUBSTITUTION GUIDE (TAB BOOKS No. 525)
\$4.95 leatherette bound; \$2.95 paperbound

Now, a brand-new updated edition of this famous guide, containing 40% more material, including the newest popular tube and transistor types.

No longer does one have to refer to one substitution manual for tubes and another for transistors - everything is here in one quick-reference guide. Designed to fit into a tiny slot in the tube caddy or on the workbench, this guide lists 99% of the tubes and transistors ever needed to be replaced. Moreover, only readily-available AND comparably-priced substitutes are listed - no longer is it necessary to search through lists of tubes and transistors rarely seen in use, or search through pages of irrelevant material to find a substitute.

This brand-new volume contains 8 big sections - four devoted to tubes and four to transistors. Section 1 provides a cross-reference of popular American receiving tubes, listing substitutes which have similar or superior characteristics and which require no mechanical changes or circuit modifications. In each case the best substitute is listed separately from others that can be used. Section 2 lists substitutes for popular tube types found in commercial and industrial equipment. Again, the most appropriate substitute is identified. American substitutes for popular foreign types are presented in Section 3, while Section includes base diagrams keyed to the tube listing in each section.

The transistor portion begins with Section 5, which contains a complete listing of popular American types and the most readily-available, popularly priced substitutes. Section 6 lists American substitutes for the most often encountered foreign transistors, and with the increasing variety of imported gear being sold in this country, transistor substitution is often the only answer to a repair problem. Section 7 is a listing of general-purpose replacements for popular original equipment types. Here are substitutes chosen from the general "all purpose" types offered by leading manufacturers. For the purpose of lead identification, Section 8 includes base diagrams which are keyed to the original type listings, thus enabling the proper identification of emitter, base and collector terminal leads.

CONTENTS: Popular Receiving Tubes - Industrial and Commercial Tubes - American Substitutes for Foreign Tubes - Tube Circuit and Base Diagrams - Popular Transistors - American Substitutes for Foreign Transistors - General Purpose Transistor Substitutes - Transistor Base Diagrams and Manufacturer Abbreviations.

* Amateur Radio Editors Association

AN ORDINANCE? (Continued)

de W3HK - "Ham radio is in accordance with FCC rules and regs. The abnormal degradation has been defined by FCC for our most sensitive receptor!! (The TV set). Any receiver with an IF freq in or on any multiple of a Ham Band is considered to be of poor design by FCC, also any one who is attempting to copy stations outside of the normal receiving area is considered to be a TV DXer and he takes his chances."

NEW PRODUCTS OF INTEREST TO HAMS

- 1. Antenna Hardware - Kirk Electronics, 116 Westpark Road, Dayton, Ohio 4545

A wide range of fittings for various types of ham antennas are available from the company above. These include element to boom clamps for yagi beams, coaxial reactance gamma match units for 6 meters, mast to boom mounts, and insulated driven element clamps. Hardware like this is getting very hard to come by in the ham market and is causing many amateurs without machine shops, to give up and buy ready made antennas.

- 2. Reversible Ratchet Handles - Xcelite Inc., 142 Bank Street, Orchard Park, New York 14127

One of those "why did they wait so long to do this" items. Both regular 99-1R and "T" 99-4R handles are now available for this popular line of nut driver and reamer blades. The mechanism is fully enclosed and has a recessed reversing shift on the handle top.

- 3. Antenna Rotator - Radio Shack Stores

This unit is supposed to handle a three element 20 M beam so it should be of interest to many VHF types who are going to put up stacked arrays. Rotar will accept masts from 1 1/2 to 2 1/8 in diameter. The control box uses a solid state amp. control circuit that compares actual antenna direction with the heading at the control box, and corrects any errors, by rotating the antenna. There is a built in brake and clutch, and indicator lights show the turning direction. (\$40)

W3NSI, Lyn

1971 JANUARY CONTEST
January 9-10

By now everyone has looked over their contest package. The committee hopes there are a few items you will find helpful. None of the items will make a very big difference but they should make operation a little smoother.

The very important thing is that you get on the air and work as many stations as possible. Also, it is important to work as many Pack Rats as possible. Let's all try to get the "Worked 50 Pack Rats" certificate.

Be courteous as well as keep your transmitter on the air - that is what wins contests. Don't be afraid to work an SSB station if you only have AM, but this must be done with great care.

Let's all hope for good band conditions and warm weather. Have fun and work hard.

All of the best,

K3BPP and W3CJU

CALENDAR OF COMING EVENTS
Syllabus by Lee, K3MXM

January is named after Janus, the God of Beginnings, so let's make it a good one in all ways.

January 9 (2 p.m.) until January 10 (midnight) - a 34 hour period

Big doings on V.H.F. - a lot of activity on all bands - get in and help make QRM - yes, the contest, and all predictions show that this will be the biggest and best contest of all years. Skip should be in. The committee's overall goal is a 10% increase in everyone's score. A couple more days to go, so get prepared, some spare tubes and parts, a nice comfortable chair, plenty of coffee and an understanding XYL and family. Let's go and good luck to all.

January 13 (no it's not a Friday) - Board of Directors Meeting - 8 p.m.

QTH of K3JJZ, Elliott Weisman, 8533 Algon Avenue, Philadelphia. Directors and interested parties invited.

January 20 - General Club Meeting - West Oak Lane Jewish Community Center

CRYING TOWEL SESSION. Each member will have the opportunity to explain how he thwarted Murphy's Law - or maybe he didn't. Come on out and hear all the sad, sad stories. Sorry, we can't offer you beer to cry in but we have coffee. Guests are especially invited. Should be a real fun evening.

February 10 - Board of Directors Meeting

QTH of K3KTY, John Tate, 520 Larkspur Street, Philadelphia at 8 p.m.

February 17 - General Meeting - West Oak Lane Jewish Community Center

HOME BREW NIGHT. Many new categories have been added such as direction finding equipment, instrumentation and gadgets. Search around and put that dream project together and bring it in. Maybe it will win a prize. More details in next issue.

May 8 - 15th Anniversary Dinner - Buck Hotel, Feasterville

The committee among it's jobs is contacting as many of the past club members as possible. We want to make this anniversary dinner a reunion of the past 15 years as well as the active present and the future. Should you know of ex-member contact John and help him with his work. Many surprises will be in store as well as an excellent meal, congenial bar and dance-able music. KEEP THIS DATE OPEN!

SWAP SHOP

FOR SALE

- HB 2E26 6-M xmt. with modulator and power supply \$15
- Ameco Nuv. 6M conv. New 7-11 IF \$20

CONTACT: W3GEW, Sid
2036 Disston Street
Philadelphia, Pa. 19149
DE 2-8655

WANTED

- Cables and power supply for RBB receiver

CONTACT: W2HF, Herbert L. Brown
Ninham Road, Farmers Mills
Carmel, New York 10512

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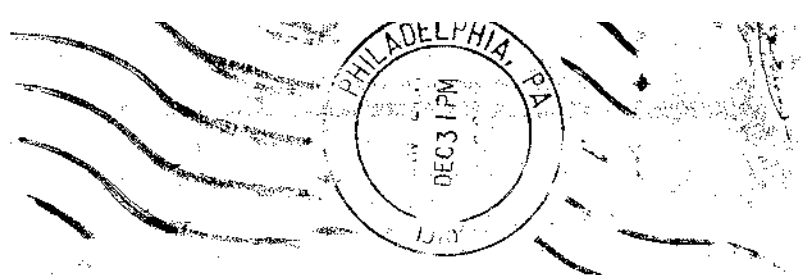
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