

REGULAR MEETING DECEMBER 4th IN CITY EOC--CHRISTMAS RAFFLE SLATE

MID-OKLAHOMA REPEATOR INC.

Serving Central Oklahoma Amateur Radio Operators

MORI MEETING SCHEDULED--Christmas cogitation continues as the Mid-Oklahoma Repeater Association gathers around the tree, December 4th at 8 P.M. at the City Emergency Operating Center at 46th and North Eastern. Program plans include a Christmas Raffle in which we will be raffling off items of interest to all amateurs!! Needless to say it should be a real interesting program, so get your quarters ready. WA5EPK will also be showing the parts he has accumulated in order to construct an HT-100. You read about it in 73 Magazine, now see the real thing. The very latest in Handie-Talkie technology. Be there.

OKLAHOMA CRUD OR WHETHER WEATHER WHATEVER--Our unusual (not really the word for it) Oklahoma Weather strikes again this time in Blanchard and Moore as storms broke out across the state November 19, killing 5 persons and injuring 68 others. Heavy rains, large hail, and damaging winds pelted the state leaving in the wake downed power lines, smashed windows, and overturned mobile homes. In Oklahoma City a tornado swiped across the city's southeast side in the town of Moore causing damage to trailer houses and collapsing a warehouse killing a nightwatchman. A tornado also crossed Blanchard causing heavy damage to that small community of 1500. The Red Cross immediately deployed three mobile units to both areas. Because the communications capabilities of the areas were not seriously affected, amateur activity was attenuated from previous activities, but still several operators were in the field rendering assistance. K5HQP, Marvin and K3WGF, Clarke, made the trip down to Blanchard. Also joining them was W5MCJ from Norman. Joe, WA5TRS and Larry, WB5CWB, were among others who offered assistance in Moore. Holding down the command post at the Red Cross Center in OKC was WB5ECJ, KP4DJT, and K5VWQ. Ken, Chuck, and Mel maintained communications with the mobiles and activity continued from 8 p.m. until past two in the morning. Some traffic was handled from the areas, but in general, as mentioned, traffic and communication was not severely impaired. Surprisingly enough (and thankfully!!) the MORI Repeater was not affected by the storm (being located on the Southeast side of the city) but stayed in there swinging the entire time as the activity continued.

REPORTERS WANTED--Compilation of the above news item has made me acutely aware of the difficulty in obtaining complete information when trying to assemble data. No doubt, there are omissions and inaccuracies, but depending on the memories of a few good natured amateurs needs to be augmented by a reporting system. With that, we install the MORI REPORTING SYSTEM (pat. pend.) designed to help provide a complete public service record of our repeater. We are distributing with this newsletter (or the next one depending on whether we get the cards from the printers in time) post cards which we ask you to fill out and mail to the Secretary when you are a party to some type of emergency assistance. This doesn't have to be tornadoes or storm damage assistance, but any ordinary help rendered. Those of you who report conditions to the EOC are logged in by the operators at the center, but some times the EOC doesn't come into play such as the other day when KP4DJT and others helped a transient find a nearby garage equipped to repair his radiator hose. If you are party to such an assistance, let us know about it. If you mobile out to some disaster area, drop us a line. If it is in the nature of person to person assistance, let us know. Many times, those of us who compile this information just don't monitor enough to gather this info. When we talk to companies asking for assistance or try to get tower space, it would be nice to present a list of just this very thing. Reporting is easy. Keep the cards in a handy place. Those of you prone to this type of thing, write the Secretary for a 6 months supply letting him know how many cards you need. After helping someone, write us. Stamp it and mail it. A new card will be returned to you with the next newsletter. Ask for whatever number you feel you need. Those which are the most unusual will provide newsletter fodder for the next newsletter. Keep those cards and letters coming in.

KO Z CORNER - - Gee, not much to say this month except thanks to all MORI members who made it out to the meeting last month to participate in the elections. I especially want to thank all those present who expressed enough confidence in my abilities and past activities as president to reelect me to the office. I think that there are many goals that MORI can accomplish this year if we will work together. One primary objective will be to get more members involved in club activities. These specifically include more participation in club committees designed to take some of the load and spread it around when working on specific club projects. Your ideas and suggestions are solicited and will be given careful consideration. To recap some of the other races that were filled at the meeting, Carl Freeman WA4AQW was elected to the office of vice-president and Micheal Salem WA5EPK was reelected to the office of Secretary-Treasurer (Ed. Note: Over his absentee objections. Don't ever miss meetings, You might get elected to an office.) Let's hope for a real successful year and the construction of our new 07/67 machine. Incidentally for those of you who don't already know, the EOC has received its new license, WB5KMD. Of course, Frank, W5OJZ and Bill, WA5STC will be

manning the center every afternoon from 3:30 to 11:30 p.m. taking emergency calls from amateurs. They are standing by to receive reports from two meter addicts mobiling the city and who happen upon unsafe road conditions. At other times, the EOC operator can be reached by phone at 232-7121 or 681-3287. Of course, you can also call the Highway Patrol Dispatcher or the city police. Remember, a big part (and the biggest kick) of amateur radio is public service.

NOT EVERYBODY'S A JOINER DEPT--Having missed the last meeting because of a death in my family, I understand from the minutes kept for me by KP4DJT that a lively discussion ensued regarding membership committees. As it boiled down, the decision was finally made to appoint said committee. While I realize that it is essential to have the support of the amateur population who use the repeater, it must be done carefully to keep it from becoming a prostelyzing, head-hunting organization. If someone insists on using the repeater and not paying dues, there is really not that much (in my opinion) that can be done. Docket 18803 makes it clear that the only fee that a ham has to pay to use the frequencies to which he is licensed is the \$8.00 fee he pays to take the test. Repeaters as organizational tools in the minds of the FCC have just not come in their own. MORI has a wonderful group of voluntary supporters. There are very few problems in this area in OKC. If someone objects to paying money to the club and wants to support the repeater in some other way by doing work or something, then I think that is fine too. The thing is that dues are encouraged and paid by a lot of members. Many of the members do their part in recruiting new members and encouraging them to join. I think that these informal structures do more to preserve the spirit of the club. The point of this article is that the appointment of a membership committee should not deter individual members from continuing their activities in recruiting. In general though, if someone doesn't want to join, then it will just have to stay that way. This is such a small segment of the population that it really borders on the insignificant.

DISCLAIMERS ANONYMOUS--By Anon Y. Mous. --A recent exception was taken to the club newsletter by WA7TCA that there might exist the possibility that material published here might be construed as official club policy. Don's argument was based on the idea that the paper is published and paid for by the club as a service to its members and in addition is distributed to several amateurs in the surrounding area and to national organizations and publications. Don suggests that we put By-lines on articles. The difficulty with that suggestion is that some articles are generated by more than one person. The inability or impracticality of separating and labeling each idea is really beyond the scope of our limited staff (one). Thus the proper solution is to attach a disclaimer to the newsletter denying that the views expressed in the paper are those of the writers and not club policy of MORI. Point well taken.

Opinions expressed in the MORI Newsletter are those of the writer and not necessarily those of Mid-Oklahoma Repeater Inc. unless otherwise represented. Equal time (within space limitations) will be offered to anyone sufficiently offended to write in about it. This newsletter is published by : Mid-Oklahoma Repeater Inc. as a service to its members. For information about the club contact the secretary-treasurer. or any member of MORI.

Sidney Gerber	W5KOZ	829 E. Bouse, Midwest City, Okla	73110	737-1050	President
Carl Freeman	WA4AQW	4833 Eric Dr. Oklahoma City, Okla	73135	672-5476	Veep
Wayne Hogan	WA5AOB	113 E. Morningside, Midwest City,	73110	732-1870	Trustee
Micheal Salem	WA5EPK	1324 Lincoln, Norman, Oklahoma	73069	321-5453	Secr-Treas

Don't forget to update you membership list, and check the chart of the month on the next page.

MID-OKLAHOMA REPEATOR INC.
1324 Lincoln
Norman, Oklahoma 73069

First Class

To Amateur Radio Station

Here is your December
MORI Newsletter!!!

Bell. His solution is to force the "only fone company in town" out of the equipment business and make them a service organization. If the argument that Bell must protect the integrity of their equipment is the reason, then why do they not require interconnects for service that goes overseas. Could a phone in France interfere with their equipment in America? This argument in substance has been made before. Tongue in cheek, I would say that's a lot of trouble just to get a phone patch.

MORI CHART OF THE MONTH

Lightning is quite a dangerous subject in Oklahoma. As many of you should remember, WA5YTI was hit by a bolt of lightning which temporarily incapacitated the repeater. Wayne said that he had to replace every tube in the front end of the receiver up to the IF or so. We were just lucky. It could have been much worse. Our chart this time is provided by Motorola from data compiled by the U.S. Weather Service. Checking the chart we see that we are in an area that has between 45 to 55 thunderstorms a year. That about one a week along the line going right the center of Oklahoma. Checking Figure 1, we see that we can expect WA5YTI to get it again in another year or so. Motorola (and other companies) offer various types of lightning arrestors, line surge protectors, and grounding clamps for protection. Is your station properly grounded?

Lightning Protection . . .
Make sure your base station is fully protected

Important Facts You Should know About Lightning

1. Lightning can deliver voltages of up to 1,000,000 or even more to any object that it hits.

2. Amperage can range from 1000 to 200,000.

3. There are an average of 40 electrical storms per year in any given part of the U.S. (See Fig. 1 for frequency in your area.)
4. 40 to 60 strokes of lightning bombard every square mile of the U.S. every year.

5. Any object which projects appreciably higher above the ground than other objects nearby is much more vulnerable to being struck by lightning. (See Fig. 2 for specifics.)

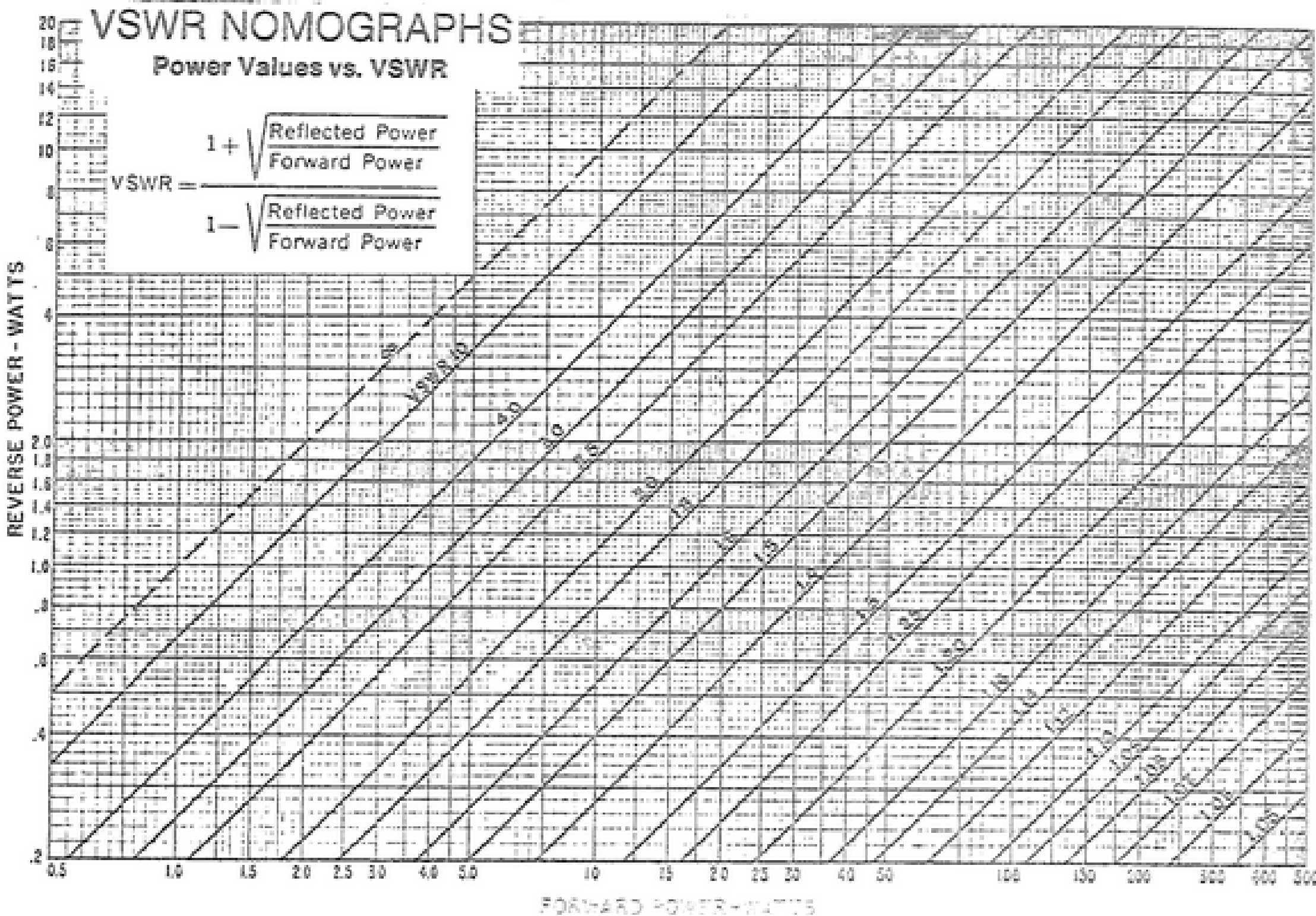
INCIDENCE OF THUNDER STORMS IN THE U.S.



Fig. 1. US Weather Bureau's Map of the United States, with zone-lines showing number of days per year having thunder storms. Locations between lines can be interpolated—for example, if you live in Hartford, Conn. you have about 25 thunderstorm days per year; Philadelphia, Pa., 35; Kansas City, Mo., 55; Dallas, Texas, 52; etc.

Fig. 2

Height of Object in feet	Probability of Being Struck by Lightning in an area having 30 storms per year
50	Once every 4 years
100	Once every 2½ years
200	Once every 1½ years
400	3 times every 2 years
600	3 times per year
800	5 times per year
1000	10 times per year
1200	20 times per year
1500	40 times per year



MORI MEMBERSHIP UPDATE--A lot of activity among the membership since we published the list last month. Amazing. We should hold an election every month if this is the result. Well, we're not going to retype the entire list, so if you'll get out you sharpened pencils, we'll catch you up to date.

RENEWALS: WA5FLT, WB5EMI, WA5ZAJ, WA5DGL, K2GKK, WB5ERN.

NEW MEMBERS					
WB5JBL	Frank McCollom	Route 2, Box 149	Edmond, Okla	73034	
K5URT	Perry McWhorter	3418 NW 29	Okla City, Okla	73107	
WA5EJU	Carl Sheff	505 Ercoupe Dr.	MWC, Okla	73110	733-2966
K5AYL	Bob Lyon	4409 Wafford	Del City, Okla	73115	
WB5DOH	Mike Burger	525 West Guy, Apt. 4	Pauls Valley, Ok		

MAKE THE FOLLOWING CORRECTIONS TO THE LIST:

Address change for WB5GSZ to P.O. Box 8777, Corpus Christie, Texas 78412

For W5IQL, change address to RR4, Box 206 and add phone number 273-8831

For WA5LFJ, misspelled name, should be spelled Russell.

For WA5ZAI, error in call sign. Should be WA5ZAJ.

These were the errors or changes that were pointed out at the last club meeting. In our efforts to keep current, please notify the secretary-treasurer of any changes that you make.

REPEATER HELP ON THE WAY--For those of you who are contemplating the construction of a repeater and the eventual licensing of same, the ARRL has printed up forms to be used as supplements to the Amateur Radio Repeater Station Application. They seem to take care of many of the basic problems encountered by many potential repeater licensees. The ARRL effort appears to be some headway toward the eventual finalization of some type of informal nonarbitrar procedure for repeater licensing. If you want a set, drop Lew McCoy, W1ICP/WR1ABH a line at the ARRL Headquarters and include a SASE (Large envelope).

BARGAIN BILLBOARD

WANT TO BUY--Magnetic mount mobile antenna or some type of portable antenna to use on car that doesn't belong to me. Am also looking for a mobile transistorized power supply to power a two meter mobile radio capable of delivering at least 200 mils at 400 volts. Contact Stephen Budensiek WB8SJM, 4808 North College, Bethany, Oklahoma 73008. Phone 789-5818.

FOR SALE--Motorola Motrac two-meter transceiver, complete with control head, speaker, mike cables, and xtals for 34/94 and 52/52. WA4AQW, Phone 672-5476.

FOR SALE OR TRADE--Complete teletype outfit consisting of Model 15 keyboard and printer, TD, Chadless reperferator, receiving converter and keyer. 19" rack for equipment included. WA4AQW, Phone 672-5476.

MORI NEWS LINES. . . . Apparently Collins Radio has achieved a needed merger with Rockwell International hopefully Providing capital and resources to help them get back on the financial track. Let's hope that Collins gets back on the track in the expanding Amateur Market. . . . MCI Telecommunications has joined a growing list of corporations suing Ma Bell (Oops! Ralph Nader suggests we shouldn't call Bell, Ma. Bell because they don't act like our mother) in Federal Court . . . to order Bell to comply with FCC Rulings calling for Bell System Telephone companies to provide companies and individuals with interconnection service without couplers just like they provide to their own subsidiaries and Western Union (including their own Long Lines Division). It is inherent discrimination to require certain couplers on lines used by some companies and not require them on all interconnections. This comes under the heading of unfair business practices. . . .

. . . . Service rules have been requested by the FCC in a notice of inquiry. The Commission invited comments on the types of stations or functions that should be provided in the space station service: Comments are invited on the following, The requirements for station licenses, privileges, and the representations to be made in applying for licensing, and the class of amateur radio operators licenses that should be a prerequisite for station licenses. Send your suggestion for amateur satellite usage in to old Federal Charlie. . . .

. . . . Fonetron has introduced a cordless phone which permits operation up to several hundred feet from a base station. The unit uses FM and permits calls to be dialed out and received with the specified area. So what else is new? Anyone who has seen the HT-220 and Standard Model Talkies with those Touchtone pads attached know that this is old hat. Most Hams would sneer at the hundred foot range. Ring a ding ding. . . .

. . . . Recent FCC rules have authorized the use of vehicular radio units as mobile repeaters in the Public Safety, Industrial, and Land Transportation services. Hmmm. To bad its not that easy in the amateur service. It can be done, but. . . .

. . . . What is the real HANG UP with regard to the Bell Telephone system and the difficultie in obtaining interconnects to their system for phone patches, autopatches, control and etc.? Ronny Harlow, President of Private Tele-Communications Inc. sez that it is the fact that most of the products that Bell requires interconnects for compete with the equipment produced by