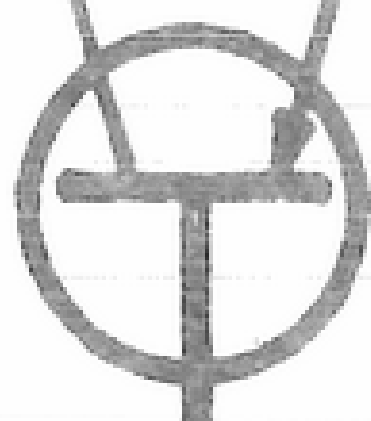


Central Oklahoma Radio Amateurs

COLLECTOR AND EMITTER

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25¢



AN INFORMATIVE MAGAZINE  
PUBLISHED MONTHLY BY AND  
FOR OKLAHOMA RADIO  
AMATEURS

AND ANYONE INTERESTED IN  
LEARNING ABOUT IT

Volume 3

SEPTEMBER 1977

Number 32

## REPEATERS

### Be careful when using autopatch!

The following represents excerpts from a letter written by the FCC in reply to one directed to them by Donald "Fleck" Fleckenstein, KØRXT.

"Third party traffic is defined as a communication by or under the supervision of the control operator at an Amateur Radio station to another Amateur Radio station on behalf of anyone other than the control operator.

"Third party traffic involving material compensation, either tangible or intangible, direct or indirect to a third party, a station licensee, a control operator or any other person is prohibited.

"Third party traffic consisting of business communications on behalf of any party is prohibited. Business communications would mean any transmission, the purpose of which is to facilitate the regular business or commercial affairs of any party. Emergency communications would be permitted for autopatch operation. Emergency communications is related to the immediate safety or life of individuals or immediate protection of property."

The above paragraphs are quoted from the FCC rules, part 97.

The FCC answered the following questions as being true or yes:

1. Through an autopatch, is a licensed amateur permitted to secure a grocery list for his home needs?
2. Through an autopatch, is a licensed amateur permitted to secure a personal appointment? (Qualified as being yes only so long as that appointment is with the spouse or friends only — no business.)
3. Through an autopatch, can a li-

censed amateur report an accident to the police?

4. Is dial-in operation permitted on an autopatch as long as the licensed amateur retains control off the repeater and autopatch?

5. Is it permitted to contact any licensed amateur by dial in capability of an autopatch in case of an emergency?

6. Can a licensed amateur operator contact law enforcement authorities through an autopatch in order to report cases of civil offenses and traffic offenses — robberies, fights, drunken driving, etc?

7. Assuming that a telephone line is tied up (party lines, etc.), can a licensed radio amateur contact a plumber or electrician in case of plumbing or electrical emergencies?

8. Is the use of autopatches permitted when helping with benevolent, non-profit organizations such as Lion Clubs, Heart Fund, Boy Scouts, etc.:

The following specific questions were answered no:

1. Assuming that a licensed amateur operator is also a licensed health care provider, can he be contacted through a dial-in capability autopatch in an emergency?

2. Through an autopatch, can a licensed amateur call in an order to a cafe?

3. Through an autopatch, is a licensed amateur permitted to call an electronics store to inquire about electronic needs for his amateur station?

4. Through an autopatch is a licensed amateur permitted to cancel a personal appointment (with a dentist, attorney, etc.)?

5. Can a licensed amateur at a sports event give scores or description of plays to another licensed amateur through an autopatch?

6. Through an autopatch can a licensed amateur make an airline, bus or train reservation for a personal trip?

— Trojan Harmonic, Colby, KS

□

From WORLD RADIO. At the suggestion of Mark, WD50YI with a note: This might help those of us who are new to amateur radio. (It applies to all of us, Mark. Ed.)

# Central Oklahoma Radio Amateurs

COLLECTOR AND EMITTER



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Central Oklahoma Radio Amateurs, Inc. (CORA) is a not-for profit association of radio amateurs, founded for the promotion of interest in amateur radio communication and experimentation, for the advancement of the radio art and of the public welfare and operates to enhance the cooperation of member clubs in sponsoring activities of mutual interest to the clubs and all radio amateurs.

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## PARTICIPATING CLUBS FOR CORA COLLECTOR & EMITTER:

AERONAUTICAL CENTER AMATEUR RADIO CLUB  
Poatal Station 18, Okla City OK 73169  
MEETS; 8:00 PM First Friday each month  
Flight Standards Bldg, FAA Aero Center

Pres	Dave Langley	W4YDY	722-0462
Assist	Lloyd Kirk	WB5HUP	685-6566
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MID-OKLAHOMA REPEATOR  
MEETS: 8:00 PM Tuesday, first full week  
in month. Okla City EOC, 4600 N Eastern

Pres	Chet Hazelwood	W5GDL	427-1439
V-P	John Huckaby	K5QDR	672-4706
Sec/Tr	Richard Zanni	WB6FYL	691-1809
Dues:	Sid Gerber, 829 E Bouse, MWC, 73110		

OKLAHOMA UNIVERSITY AMATEUR RADIO CLUB  
202 W Boyd, Room 219, Norman OK 73069  
MEETS: 7:30 PM Alternate Tuesday STUDENT  
UNION Room 161

Pres	Kim Elmore	WB5CLC	325-6717
V-P	Kenny Hutchison	WB5RXZ	364-3001
Sec	James Jones	WB5RKQ	
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MEETS: 3rd Tuesday each month 7:00 PM  
AIR National Guard, Will Rogers Airport

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V-P	John Oltmans	WB5PZG	525-6066
Sec	Jim Townsend	WB5VCB	632-5445
Treas	C Y Chandler	WB5TKG	232-9005

OKLAHOMA CENTRAL AMATEUR RADIO CLUB  
323 NW 10th, Okla City OK 73103  
MEETS: 8:00 PM third Friday each month  
American Red Cross Bldg, 10th & Hudson

Pres	T. Van Woody	W5FMX	942-2831
V-P	Ken Ford	WB5KHU	528-8770
Sec	Joe Buswell	WA5TRS	732-0676
Treas	Ellard Foster	W5KE	789-6702

OKLAHOMA CITY AUTOPATCH ASSOCIATION  
MEETS: 7:30 PM 3rd Tuesday, Bi-Monthly  
Oklahoma Military Academy 36th & Grand

Pres	Gary McCormick	WA5ETV	946-2898
V-P	Guy Liebman	K5GL	787-9547
Sec/Tr	Jim Denman	WB5EOL	681-6048
	7705 S Charlotte Dr OKC 73159		

CENTRAL OKLAHOMA RADIO AMATEURS,  
MEETS: 7:30 PM, fourth Friday.  
Red Cross Bldg., 10th & Hudson.  
Come to the alley entrance.

ALTUS HAM CLUB  
MEETS 7:30 PM, 2nd Thursday,  
North Main Fire Station (CD)

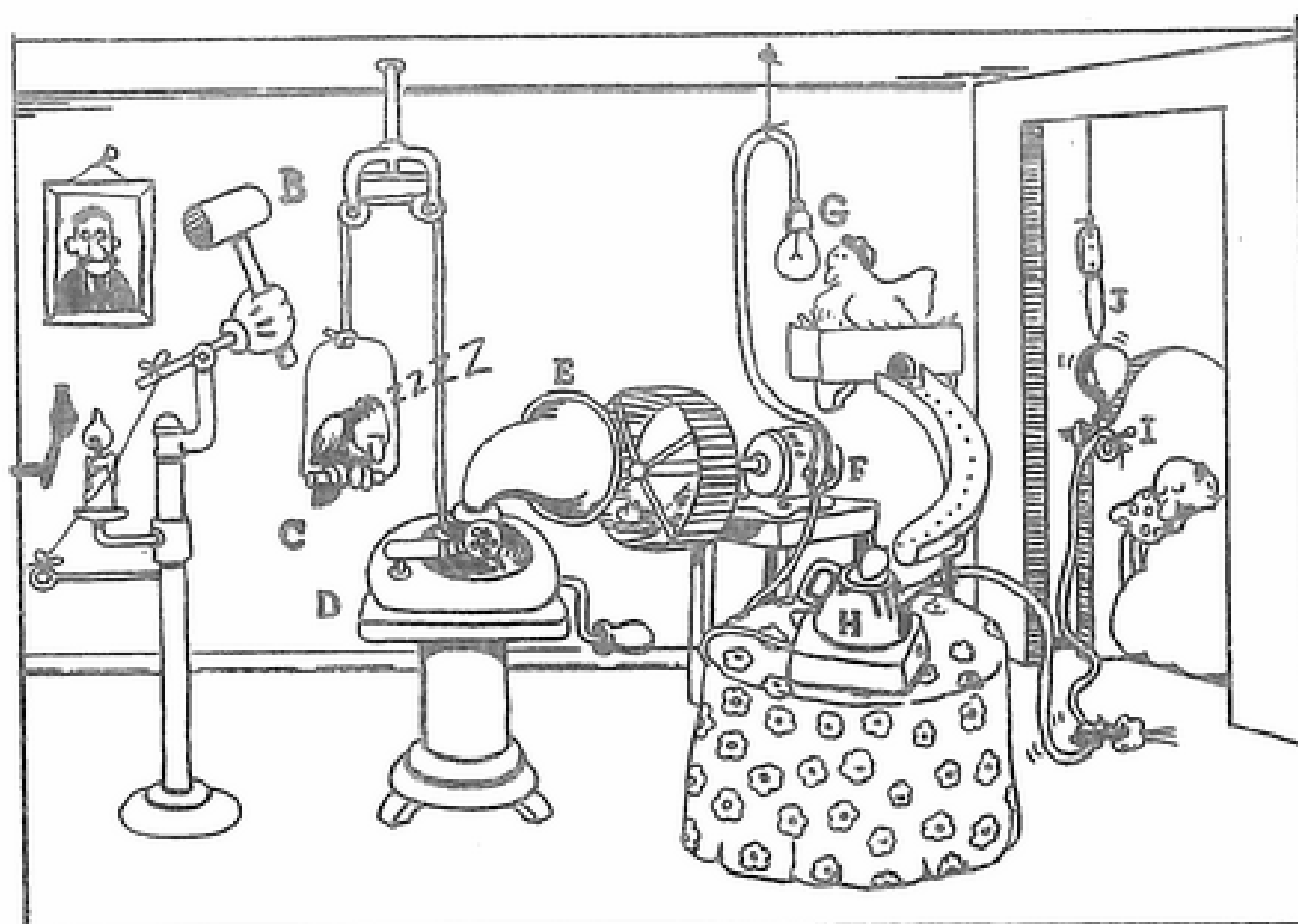
Pres	Loren Simms	WA5CBF
Sec/Tr	Deanna McEndree	WB5UMH



Amateur Radio News Service

## DELUXE TIMEOUT TIMER INSTALLED AT NORMAN REPEATER

The loneliest guy in town is not the Maytag repairman. It is, rather, the proprietor of a fully automatic repeater which has not needed much service lately. Neither I nor WA5JXX have had to make any mad dashes over to the site recently with VOM and PC cards in hand to effect emergency repairs. In fact the Mean Time Between Failures leaves a lot to be desired if such maintenance is to be a learning experience. As a result of those long lonely hours, I developed a monotonous monitor's monotone monitor as a substitute for our normal 3 minute timer, replacing an outmoded NE555 circuit and digital counter. From the new and straightforward design in Figure 1, it is clear that the design was done by a committee. The simplicity and revolutionary nature of the design attest to its multifunctional use as a combination "chicken fooler, egg boiler, and time out timer." For a technical discussion in detail, refer to the description in the next paragraph.



Pat.  
Pending.

FIGURE 1. Deluxe "Chicken Fooler, Egg Boiler, and Time Out Timer." Please refer to text for detailed technical discussion.

**TECHNICAL DISCUSSION** Beginning at the far left, a match can be seen attached to a wire. This wire (appearing off the schematic) is attached to the carrier operated relay which activates when the repeater is keyed. The match is ignited and lights the candle. The candle (A) is set to burn down for three minutes (the candles are field replaceable) and in turn light the string, breaking it. This allows the Hammer (B) to fall, knocking the sleeping bird (C) off its swing. The removal of the Bird's weight allows a phonograph arm to fall record (D) as record player (E) blasts out "JADA." The squirrel has been trained to respond, turns the treadmill attached to generator (F). The Generator lights bulb (G) and chicken, thinking it is sunrise, lays egg which rolls into teakettle on electric hot plate (H). Steam from the Teakettle travels through hose attached to Bed (I). As steam inflates rubber balloon, it presses against the point of the knife (J) and is punctured. The resulting noise awakens the trustee who then shuts off the repeater and retrieves the three minute egg from the teakettle for a snack. Detailed construction plans are available by sending SASE, 25¢ in coin to Merkle Press.

Micheal Salem WA5EPK /N5MS



Club  
NEWS

W5LOW  
The Elmer Gooder Memorial  
Station

## AUGUST MEETING DEPARTMENT

The August meeting was replaced by a watermelon feed. This should be a lesson to everyone that the club meetings can be inspirational and instructional. Since these minutes were prepared before that event, I can only suppose that everyone will have been properly stuffed with watermelon.

Joe, K5JB/WA5TRS, sec'y.

## HAM HOLIDAY '77 DEPARTMENT

I am relieved that Ham Holiday is over now. I have a much better appreciation of the efforts of those who work to pull this event off. This year is the first one that I have taken an active involvement from Holidayer position having spent all previous years as a Holidayee. It is somewhat a sacrifice to work on such events because instead of playing, the committee members are working. I, for one, didn't get to go through the commercial exhibits until Sunday during lunch. I also didn't get to sit down and visit with many people from out of town with whom I have regular contact on HF. I didn't even get to say "hi" to a few people whose name tags I saw and recognized, but have never met before in person. The ultimate comment is that my total expenditure for ham gear the whole weekend was \$1.50 for a log book! Not even the siren call of the Motorola Recon Sale beckoned any bucks from my pocketbook. I just didn't have time to go look! Saturday and Sunday were an extension of the work week for me and by Sunday afternoon, I was pretty pooped out. Participating as a Holidayer is lots of work! My work as program chairman was essentially over (I thought) a week before Ham Holiday even began. All the arrangements were set by then. The trivial problems that kept cropping up kept me 100% busy.

After this reflection on what I thought was a relatively simple job, I have a considerable understanding of the effort required by the Prize, Registration, Facility, and Ladies Committees; and, a good understanding of why it is difficult to get volunteers to take these jobs. For the people who put this Hamfest together, these jobs are a piece of cake so it is not the difficult problems which make their work undesirable, it is the sacrifice of working when everyone is playing. Well, I don't feel bad at all about working on the problems. I did nothing but play for several years and now I feel like I have contributed my dues. I feel satisfied about the job, but I may decide not to do it next year. It's too hard to resist the temptation to play. (Editor's note: "Say it ain't so, Joe!")

It is not too early to consider if it is about time to pay your dues, Ham Holidaywise. Only about one out of fifty amateurs is required to donate his or her fun filled weekend to pull these things off. You would be making it fun for forty nine others by volunteering for next year. Those are pretty good odds. Think about it.

Joe, K5JB

## HOME BREW IS ALIVE AND WELL DEPARTMENT

I was gladdened to see evidence that some amateurs are still actively homebrewing and tinkering with their equipment. The Flea Market at Ham Holiday was supplying gobs of raw material which was being carried all over the place. I heard of several antenna tuners being constructed from some fine business roller





Club  
NEWS

W5LOW  
The Elmer Goodwin Memorial  
Station

inductors that surfaced in the market.

I also saw a lot of new (actually old, but certainly new to me) Motorola Handie Talkies being sported about and handled like fine Ming vases. Only two kind of people go for HT's. The extremely affluent and the extremely ambitious. The former buys what he wants, the latter builds it. Very few HT's are satisfactory for 2 meters without modifications. As a minimum, some ex Government models of the VHF persuasion can have crystals installed and the units retuned without much difficulty, thank you. However, tuning of HT's is something that few amateurs attempt (if the quality of some signals that are heard is any evidence). Typically HT-220's used in commercial service need the addition of a few little "ticks" strategically placed to obtain respectable performance. Bringing a high split board down through a mid split to the amateur band can increase the number of padding capacitors to the point that the backside of the board looks like a terminal case of a bad skin rash. Juggling these factors is somewhat of a task and one has to be somewhat ambitious to tackle one of these minature devils.

In addition to tuning, these radios present a special challenge when being customized to include such goodies as multi-frequency channels, touch-tone R, antenna jack, scanner, synthesizer and other modifications.

I have one word of encouragement for these new owners of HT's. The only tools and test equipment I have needed includes a sharp pointed soldering iron, solder wick, solder sucker, hemostat, vacuum tube voltmeter (a VOM works for many measurements), antenna adaptor, wattmeter, dummy load, and a signal source. The most convenient signal source is a long winded repeater. The most reliable is a programmable scanning receiver. Just program up your bearcats or tennelec to the proper frequency to let the local oscillator do its stuff. Like any FM transceiver, some means of reading the frequency is necessary to allow netting transmit crystals.

If anyone comes up with problems and/or solutions on these things, let me know. We can disseminate it through the Collector and Emitter to all those new members of the "Brotherhood" of HT owners.

Joe K5JB

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## HAM HOLIDAY HOSANNAS

Accolades to them all, bless 'em. All those busy active people who put together this year's Ham Holiday. A well organized hamfest is a thing of beauty for both the beholder and beholdee. The beholdee derives the obvious pleasure from sampling the goodies in the flea market, perusing the commercial exhibitors and learning from the technical programs. His is a joyous lot, especially when the programs start on time with topics of great interest, prize giveaways seem to go on forever, expert burrowing in the flea market produces the ultimate joy of a rare component found. The beholder derives satisfaction in a more esoteric fashion, watching the hamfest tick away like a finely tuned watch, seeing overflow crowd at technical sessions, and watching hundreds of eyeball QSO's (mostly in full duplex), and delighting the crowd with prizes galore. Yes, there is truly a symbiotic relationship between those who put on hamfests and those who go to them. They both certainly need the other to survive. This year's Ham holiday was no exception to this rule. I didn't catch the final count on attendance, but it doesn't matter. There were enough people and it was an excellent opportunity to catch up with old friends. Ham Holiday is developing a reputation as a fine medium sized hamfest.

WA5JXX and myself decided on the proverbial early bird route (after recalling from last year that the Motorola Recon Sale snuck up on us and we almost missed it entirely. Luckily, the grapevine heated up just before they opened and we were among the first through the gates). This year, forwarned was forarmed, we found that Coyle Schwabe from the Recon Center would be speaking as a part of the program. Subsequent discussions and inquiries directed to a certain unnamed program chairman confirmed dates and times of arrivals of Recon and when the sales would begin. Parking early that morning was a stroke of pure luck, nothing else. A quick bat turn into the parking lot after exiting I-35 and we were less than 150 feet from the main entrance. Registration was simple (Gosh, H.O., it sure is embarrassing to have to stand in the line for those who didn't preregister, but you knew I was coming, didn't you? At least I don't have to worry about the anxiety of winning the preregistration prize). A quick perusal of the flea market showed a few goodies of some significance. Humm, many of the items were here last year. This was nothing more than further evidence of my theory of musical chairs in the flea market. I believe that there is a certain type of material which has no use other than trading material at flea markets. It is never rebuilt or repaired, but merely a medium of exchange to be used by succeeding generations of hamconventioneers. John Kenneth Galbraith must have a theory about this somewhere. This first check yielded a few key items that I quickly snarfed up. Cords with minature plugs on one end were gathered up at 10¢ each. A careful check of one table yielded a PC Card full of high speed mercury wetted relays. Some judicious bargaining and the original low price went even lower. Now, I just hope they run on 12 Volts! (They did, in fact they keyed down to less than 9 volts). These will be just dandy for an electronic Accu-Keyer I am building. I decided to come back the next day and grab the rest (Too late, they were gone). A quick sortie down the commercial vendors area revealed an old friend who had some extra equipment to sell. One of my priorities was to locate a 450 Mhz HT for WD5FVI. I found one, but it had a few problems in the receiver. A quick check of Motorola Recon revealed no exceptional bargains in el cheapo HT-200's, so it was back to grab up the radio. It was already on frequency on the MORI machine and I decided to take pot luck on fixing the receiver (we did no beer drinking that night as originally planned and spent a few hours tracing down an open choke in the 455 Khz IF and a bad output transistor. A quick check of the frequency and cranking up the deviation and the radio was as good as new). A nifty audio signal generator was hard to resist and the price was right. The Motorola Recon boys began unpacking, so we dashed down to see what would happen when they rubbed the magic lamp. Humm. a 35 watt mobile UHF transceiver with all solid state receiver for just \$125. Now this sounds like the beginnings of a

new set of goodies for the UHF Remote. Unfortunately, they had neglected to bring one of them with them. We searched the stacks in vain. Ah, not so! Veteran scrounger, WA5JXX, found one in the stacks (on the bottom, to be sure) and we drug it out for inspection. A quick phone call to K5HMD confirmed the quality of the radio and the price and the purchase was made. Joe had a busy evening that night when he split the radio apart in preparation for a repeater installation. As an aside, he discovered how Motorola cleans up this stuff for resale. At least that is one theory when he found several hundred little glass beads in various compartments used in an apparent glass blasting operation.

The first program was coming up, so I beat a hasty path to the seminar room. A quick hello to K5JB (program chairman) holding court outside the meeting room and then I snuck into the room, grabbed a seat and a ticket (for the giveaway goodies). Coyle Schwabe from Motorola was holding forth on such goodies as HT-220's etc. A few things I had seen before, but there was lots of information for the beginner. In addition, the boys from Recon had gather together a manual of info timely for the HT's. This was a goldmine and they gave one away with every purchase of an HT. After the program, the HT's went on the block back in the Recon room. There was a sudden vacuum in the meeting room as hundreds loped back to crowd in the two rooms where the HT's were displayed. Recon also showed a PT-400 (10 watt drag a talkie) that I hadn't seen before. I looked at it and it asked for a home. It had a ni-cad, charging sleeve and was only about 8 Mhz away from 28/88. Conversion would be very simple. I figured that the only way to get rid of temptation is to yield to it, so I bought it. It will make a fine single frequency base station. Experiments with the ni-cad brought it up to full strength and the radio measured 11.5 watts out. Such a deal. Tom Ballinger also told me that the radio was a TV star since they lent it to ABC for use in an upcoming movie on TV about the day that Kennedy was shot in Dealey Plaza in Dallas. He said that I should look for it when the program is aired. I didn't mind as long as it didn't increase the price. He said it didn't.

I loitered some more in the flea market and then visited with Glenn who came up to view the radio that I had purchased for him. Then more technical programs. The microcomputer seminars were stuffed with human bodies. It's a good thing that the fire marshall didn't walk by about that time. He would have seen a couple hundred enthusiasts in a voluntary sauna bath as the interest and temperature soared higher and higher. Clever people, these program committee members to concentrate all these people in the room while I made one final sweep of the flea market.

Home after that and the evening spent repairing the HT-200. The ni-cad on the PT joined the Pepsi generation (it came alive) and a quick check of the audio oscillator confirmed its usefulness and quality. The Oklahoma Repeater Society was the next morning at nine in the morning so I did a little work for that before retiring.

I was glad to see the crowd at the Repeater Society meeting. K5JB, myself, and the other members of the steering committee had dashed together a set of By-laws and Articles of Incorporation. Although one hour was not enough, the interest and discussion was at a high level and the group was formed. A few directors were elected in abstentia and WA5FSN promised to contact them and get back to me so we can get the Articles on file.

The next program was also too good to miss. WB5ISN and WB5ISO of the Bell mobile shop had thrown together a brief program on Bell's Improved Mobile Telephone Service, including an actual demonstration. It was at this program that I got back my registration fee plus some change when I finally (after all these years) won a door prize from Bits, Bytes, and Micros. It was a nifty book on Microcomputers from Scelbi and was about the most useful thing I could have won.

The prize drawings took a delightfully long time since there were so many of them to give away.

After this, I began milling around and checked again on the commercial exhibitors to see what I had missed. SD Sales was showing power supplies and other goodies including a "build em up" calculator. Radio Inc. had a lot of goodies, Derrick Electronics as well as a demonstration at Bits, Bytes, and Micros with a complete Digital Group computer. The new Apple portable computer was also being used along with a color television display.

The Grand prize drawings soon followed. However, before that, I made one more quick check before Motorola checked out. I also jawboned a manual to go along with my PT purchase. I won nothing at the prize drawing, but I can't say that I didn't know someone who did win something. Well, on to the city for an evening of work, but first a stop for breakfast (after all, it was my first meal of the day) with K5JB, WB6FYL and WA5EAI.

Overall, it was a fine show. This is one of the first years that I actually attended several of the technical programs. The program committee is to be commended. Prizes and accomodations were all good and it appeared to me that the rate of return of the registration dollars was very high indeed. This is in comparison to other hamfests that rip you off for a \$6.00 registration fee, then give you back books and other small junk, reserving a healthy portion of the fee as profit for club activities. Ham Holiday is shaping up.

Micheal Salem WA5EPK /N5MS

#### MICROCOMPUTERS AT LARGE

Everybody is getting into the act now that the appearance of a successful market is in the offing. The microcomputer market is expected to hit about 4 billion in 1979 and 6.1 Billion dollars in 1981. Heathkit has entered the market with an 8080 based system and some offspring from DEC. Radio Shack has jumped in with the new TRS-80 System consisting of a Z-80 based processor, 53 keyboard ASCII Keyboard, Video Display, Memory, Input/Output Cassette interfaces and Basic Software support. The Basic is the usual stuff in basic, but does neglect transcendental function. The Microcomputer alone is priced at \$399.95 and the entire system is \$599.95 complete with video display monitor and data cassette recorder. Delivery is expected to begin in September. By December, they expect to begin marketing a disc drive, printer and a few other items to expand the capability.

This information (provided to me by Tom Huff of the Norman Radio Shack) shows indeed that this new computer system could be a real "radio snack" exclusive. Marketing will begin in selected stores and Tom informed me that he could arrange to have one of the systems brought up to this area soon after it becomes available if he could get 10 or more interested persons to watch a demonstration. If you are interest, contact Tom at 321-5524.

Micheal Salem WA5EPK / N5MS

#### APPLIED MICROPROCESSING TECHNIQUES SEMINAR IN NORMAN

Tom Rhymes, a member of the OU Radio Club, dropped by the other day to tell me that he would be teaching a course in Applied Microprocessing Techniques September 12 through 16 at the University of Oklahoma. The program is sponsored by the Department of Physics & Astronomy and the Professional Development Programs of the Oklahoma Center for Continuing Education. The Course

can be taken for Graduate or Undergraduate credit and will be conducted from 9 a.m. to 4 p.m. each of the five days. It is expected to teach you how to design and implement microprocessor based systems and will give hands on experience with a widely used 8080 microprocessor system. Each student will have his/her own system for the duration of the course and alternate lecture/lab sessions will be used. Design, implementation, modification and documentation are all a few of the techniques and areas of concentration.

You should first realize that this will not be a course that requires you to have advanced work in computers or other systems. No direct experience with microprocessors is required, but a knowledge of logic circuits would be helpful in the initial stages of the course. Registrations can run up until the first day of class, but no refunds on the \$300.00 tuition can be made after August 29th. However, participant substitution can be made at any time prior to the start of class. The tuition may be a little bit steep, but this course is designed for professionals who will probably take the course at company expense. If you have a hankering to learn about these types of goodies, contact Ted Raley, the Director of Special Training Programs at 106 Constitution Avenue, Norman, Oklahoma 73037 or phone at 405 325-3931. He will send out a brochure describing the the course and schedule.

Micheal Salem WA5EPK / N5MS

#### PUBLIC DISSEMINATION OF INFORMATION

In terms of improving our public image and luring prospective new members, nothing succeeds like advertising an event such as Ham Holiday through the local press and broadcast media. There were several programs up and running around the OKC Metropolitan area during Ham Holiday about amateur radio. I understand that H.O., WA5MLT and Robert Halperin, K1XA from the ARRL spent about two hours on KOMA Sunday morning and fielded phone calls and discussed amateur radio.

I got a phone call from Joe K5JB concerning a panel that he was getting up for the WKY Radio Program "Speaking of Everything." Joe later also cornered Hobe, WB5MLN and we established a date for the program to be recorded for later (Sunday nite) playback. I haven't been out to the new WKY Studios so I welcomed the opportunity to take off on a frolic to the City in the middle of the week. We met Jim Palmer, the host for the show, for lunch and went over a few topics. Jim was very easy going, yet intense about learning enough about our interests so that he could ask good questions. In anticipation, I had prepared a short summary of topics and suggested questions for Jim. I am happy to say that he didn't need to refer to it until he asked us about particular interests such as moonbounce, scatter, RTTY, FM, etc. The show was taped in two parts and it was surprizing how much information occurred to us later as having been omitted. We tried to work very carefully on discussing selected topics, covering the explanation, then moving on to pace ourselves so that we could cover all the important matters. No doubt time flies when your having fun and the program was indeed fun. Joe got a cassette to send to the ARRL. I didn't listen on Sunday evening, but heard a few comments that were favorable. The program gave our addresses for information and I am expecting that there will be at least a few responses. Haven't checked with Hobe or Joe yet, but I think that something will eventually surface.

Public Affairs programming by radio and television stations is an untapped resource of active public dissemination of information concerning amateur radio. The FCC requires a certain amount of time to be devoted and occasionally programs go begging for interesting topics and discussions. I hope that this will not be the last effort in the OKC area.

Micheal Salem WA5EPK / N5MS

# MID-OKLAHOMA REPEATER INC.

A NON PROFIT ORGANIZATION  
OF RADIO AMATEURS DEDICATED TO PUBLIC SERVICE

## MID-OKLAHOMA REPEATER, INCORPORATED Business Section

### SEPTEMBER MEETING

The next MORI meeting will be September 6 at the EOC, 8 PM local time. Get there about 7:30 and join in the lively informal discussions that take place before (and after) each meeting. VISITORS ARE WELCOME - See below for info on how to get to the EOC.

### SEPTEMBER PROGRAM

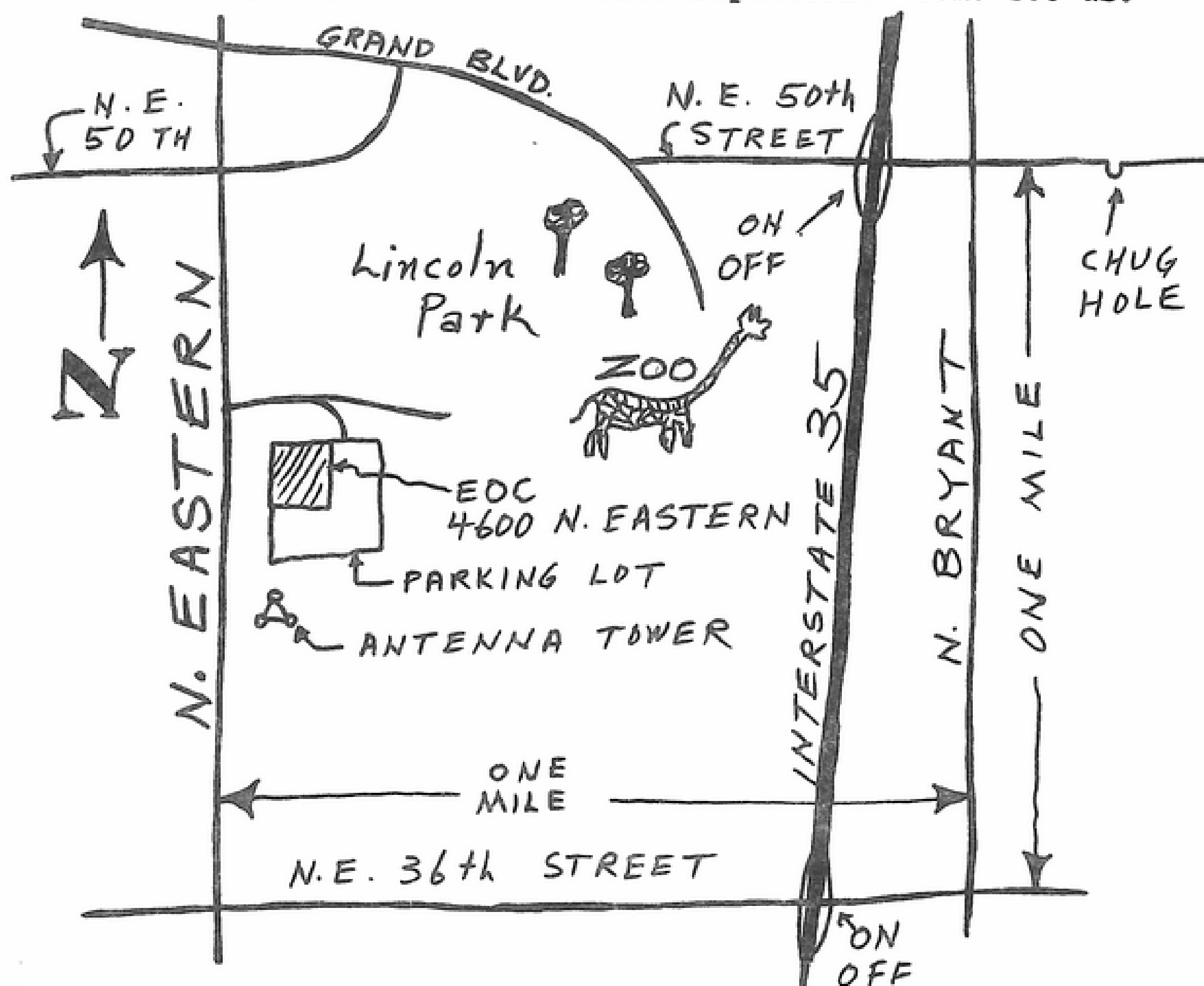
Application of computers to amateur radio by Jeff Kearns, WA5LFM

### AUGUST MINUTES

There are no minutes since there was no meeting in August of 1977 due to the close proximity of Ham Holiday held August 6 and 7. The Ham Holiday was well attended and there was fellowship, education, fun, etc. for everyone.

### HOW TO GET TO THE EOC

The EOC is the Emergency Operating Center located in the North East part of Oklahoma City at 4600 N. Eastern. See the map below. The streets shown extend on across the city and provide good access. The building is mostly underground, but a prominent above-ground structure is the tower loaded with an assortment of antennas. Any further information should be available on 34/94 or the other area repeaters. Come see us.





## PERSONAL SKETCHES

### CARL C. DRUMELLER, W5JJ

Carl started his radio activity in the summer of 1921. The transmitter was a Model T Ford spark coil. The receiver was a crystal detector with single slide tuning coil. Contacts were made with other kids in the local area. Carl didn't get a license. His first receiving tube was a UV-200 which was a soft type and had one ampere plate current. Two variometers and a varicoupler were also employed. A transmitter, also with a tube, had a 201A in a Hartley oscillator. The plate modulation transformer was a modified Ford coil. Unlicensed operation was beginning to be frowned upon, so Carl dropped out of his transmitting activities in 1923.

After graduation from college in January of 1932, Carl got his first call - W9EHC. Upon moving to Oklahoma City in 1946 the new call became W5EHC. The Extra Class license became available in 1952, so he immediately applied for and passed this test. Later he got his present two-letter call - W5JJ.

Working with the ARRL organization has been one of Carl's major amateur radio activities. He served two terms in W9 land as SCM. He was twice Vice Director of the West Gulf Division. He has been appointed to Assistant Director by three West Gulf Division directors. His is an Official Phone Station. In the '30's he was a member of the Transcontinental Trunk Line B. He is a member of the Quarter Century Wireless Association and the Old Old Timers Club. The latter publishes the magazine, SPARK GAP TIMES.

Another major activity in amateur radio and communication is writing. Carl began writing in the '30's for QST. Since WWII he has been writing for CQ, 73, HAM RADIO, POPULAR ELECTRONICS, BREAK IN (New Zealand), SHORT WAVE MAGAZINE (England), INTERADIO (Switzerland) and some lesser known magazines. He wrote a story about a marine rescue for INTERADIO in which the Aeronautical Center Amateur Radio Club station, W5PAA, played a part.

Secretary-Treasurer of the Aeronautical Center Amateur Radio Club and trustee of this club's station were two of his club activities until his retirement from the FAA in January of 1971. In fact, he held these positions while the club was still in Fort Worth.

Carl received his Radiotelephone License in 1933 and worked for broadcast stations until the end of 1940, when he was employed by Civil Service as a Radio Shop Foreman. In 1942 he entered the Army as Second Lieutenant where he was in charge of the Signal Corps Training School in Philadelphia. Carl was transferred to the Pentagon where he lined up a job in Fort Worth with the CAA, later to be known as the FAA. He started here in January of 1946 with the Signals Training Center. He came to Oklahoma City in June of 1946 as instructor. He taught just about every equipment the CAA had. Carl went to Aircraft Services Base in 1962 where he was Technical Assistant to the Branch Chief, then he became Supervisory Production Controller. Carl retired from the FAA in January of 1971.

Carl's wife, Mildred, enjoys going with him to hamfests and conventions. He says her cooking is superb. Mildred is active in her church, enjoys gardening, crewel and embroidery. They have two sons, a daughter and eight grandchildren. Clarence, one of the sons is W5TKC, who is active in VHF at the present time. He is a career Air Force Major. There was another amateur in Carl's family, his brother, W9FXQ, now a Silent Key.

The operating position in the shack is a large desk with Drake HF



## W5JJ PERSONAL SKETCHES Continued

gear and other modern equipment. In stark contrast was a 1929 transmitter and receiver - separate units in one box. The transmitter is a Hartley oscillator and the receiver is a detector with two stages of audio. Carl worked his first DX, a ZL in 1932 with this rig. He fired up the transmitter a couple of years ago and received good reports on it. A prominent feature in the shack is a large collection of communication and electronic books and magazines including QST bound copies from January 1923. Also there is a De Forest receiver of 1921 vintage covering 150 meters to 30,000 meters.

+++ From an interview by Bill, WA5RAQ ---

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### REPORTING SEVERE WEATHER

Most of us are familiar with the Severe Weather Reporting Net on 22/82 or an alternate Central Oklahoma repeater. However, if you go into some other area, there may not be a net, in which case you might follow the advice of Merle G. Kachenmeister, WA8EWW given in QST for August, 1977, page 73. He says that the National Weather Service (SKYWARN) is interested in four kinds of severe weather:

1. Tornadoes
2. Funnel clouds
3. Hailstorms
4. Damaging winds

"It makes no difference if you are mobile or fixed, if you see a severe--weather happening, report it. To report severe weather give the following information:

1. Location of the severe storm and/or tornadoes (nearest city)
2. Time it is happening
3. Direction of movement and speed, if possible
4. Call it into your nearest National Weather Service office, Civil Defense or law-enforcement agency.

Never give interstate routes or county roads. Always give location to nearest city or town. It is easier to locate on a map."

In the Oklahoma City area, the Severe Weather Reporting Net is called when necessary on 22/82 or alternate repeater. When reporting into this local net, use the procedure set up for it.

Bill, WA5RAQ

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Mid-Oklahoma Repeater, Inc. has immediate openings in its technical and administrative departments. The pay is the joy and pleasure you get from doing a good job and the satisfaction in knowing that you are helping to keep the club operating. Contact an officer or your editor.

+ + + + + BILL, WA5RAQ - - - - -

FOR SALE New 2-Meter vertical antenna, Cush Craft 4 Pole.  
Model AFM-4D. 146 to 148 MHz. 9 DB Gain. Bill  
Rogers, WA5RAQ. Phone 632-4375.

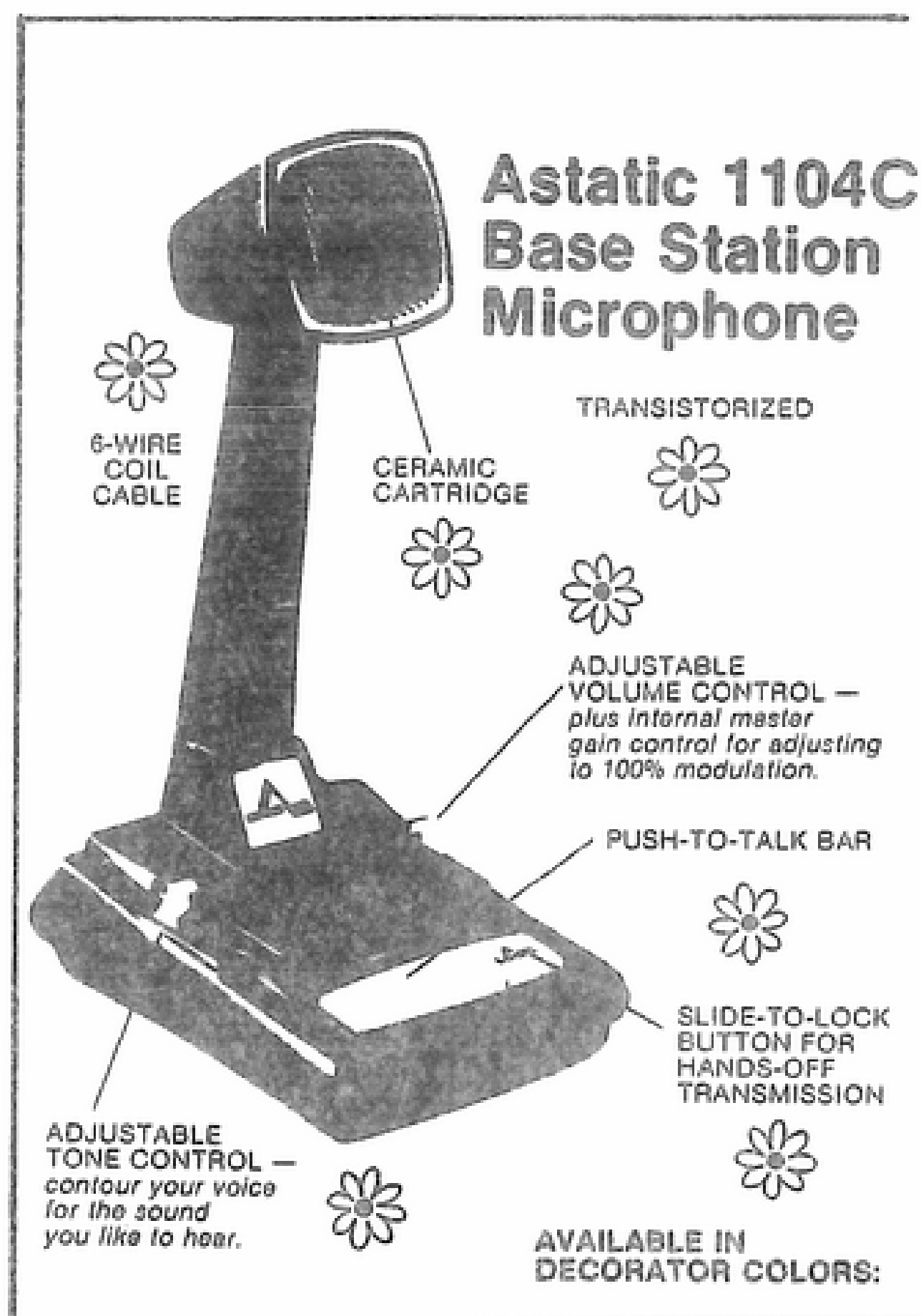
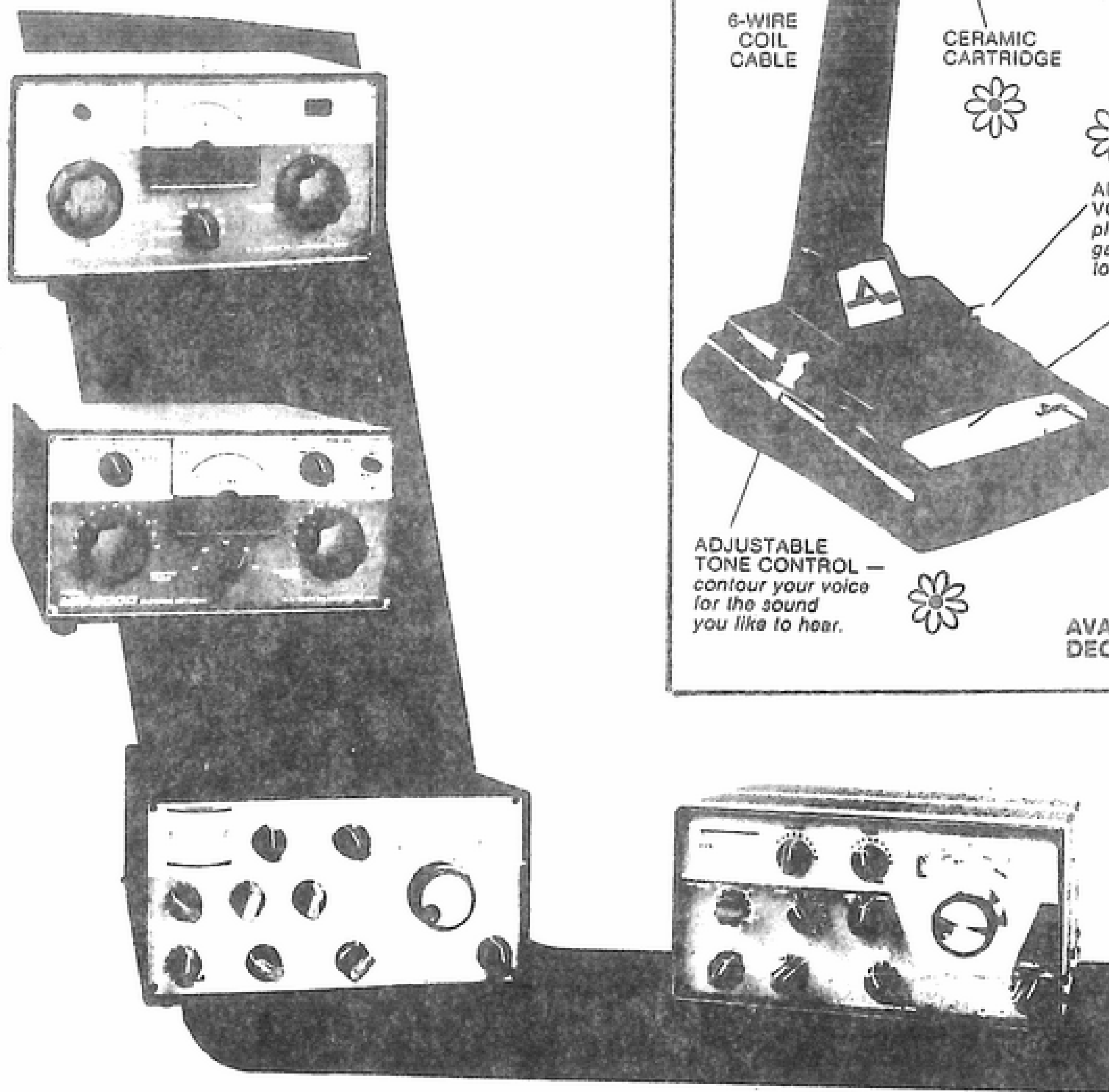
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# NOTABLE ISSUES FROM THE PRESIDENT:

I hope you enjoyed the HAM HOLIDAY as much as I did. Although the YF and I did not stay at the motel this time, we were still able to attend all the presentations and visit with friends. The presentations were well planned and executed, and many worthwhile prizes were given out. The prize committee did a very good job, and since Murphy's law was working well I missed out on all of them. I was sorry to hear about the gentleman from Texas who could not get here for the antenna program due to an auto accident, we all wish him a speedy recovery from any cuts and bruises and maybe he can come up later on. Thanks to H.O. Townsend, Bob Halprin, Joe Buswell, Hobart Bergen, and Mike Salem for some excellent public relations work on the KOMA and WKY radio stations. I think the whole affair can be considered a big success.

The September meeting promises to be very interesting. George Lagaly will present a technical program on the frequency counter he has built and some of the problems he has encountered along the way. George is very knowledgeable in the workings of the counter and will be able to give us some very good information concerning the construction of counters. We, as Amateurs of Radio, should be interested in extending our knowledge in the newer areas, such as solid state and integrated circuitry. This will be an excellent opportunity to do just that, so don't miss out!!! I'm starting to build this counter myself, and it appears to be a fine unit. For those interested in constructing it, George can tell you about that, too.

Be thinking about some code and theory classes, and bring some ideas to the meeting with you. Any volunteers would be appreciated. There have been several requests around the Aeronautical Center for this service, so I think there is enough interest to be worth considering.

That's all from this end, so I'll see you at the meeting in September.

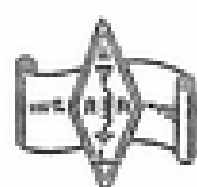
73, Bill W5NI

\*\*\*\*\*

There was no meeting of the ACARC this month, therefore, no minutes to report. However an error in the minutes for last month was brought to my attention. I misread Bill's notes, and reported that Abe, WBSAUF was having equipment problems with the slo-scan system, and would be unable to demonstrate at Ham Holiday. Apologies to Abe; the equipment was not the problem, Sorry Abe, I'll try to report more accurately in the future.

From what I saw of Ham Holiday, it was a huge success, and have heard many good comments since returning to OKC. Orchids to all who worked so hard to make it a success. Y'all done gud!!!

The annual watermelon feast put on by the VHF Club, and ACARC was excellent...there was a good crowd, and we all had some fine fellowship. Thanks to the VHF Club for putting it on, and inviting us all. Representation from the ACARC was a bit meager, but these two organizations are historically so closely allied, that with a few exceptions, they have more-or-less parallel memberships, so in effect,



W5PAA

both memberships were well represented.

One item of discussion at the bash centered on the need for getting some fall training sessions started. Volunteers were asked for, and reponse was good. The idea is to combine forces, and try to get started in mid-September with ACRAC, and VHF Club instructors. The classes are not meant to compete with other clubs in the area who have excellent training efforts going. It is meant to fill a real need for training. An organizing meeting will be held at a date to be announced. Think about helping the cause fellers, your support is sorely needed.

Robby, W5JES

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For Sale: ICOM 230 with mobile bracket & Mike, and magnet mount antenna. \$350.00 for the package. Dwane Rice W5SEX 677-6472

For Sale: Yaesu FT-101 w/ext. VFO, Ext. Spker w/phone patch, Mobile mt., extra finals, etc., complete pkg. \$600. New TH3-MK3 \$175, HW-2036 w/micoder mike & AC supply \$250. Electronic keyer \$40 & Coax switch (4ants.) \$12. Bob, W5QFH 528-6461.

For Sale: Drake Tr4-Cw Mint Condx, Includes Drake Noise Blanker, Remote VFO, and AC-4 power supply, and MS-4 speaker. \$825.00 for the entire package. Joe Schilling WB5YKD, 681-5884.

For Sale: Icom Model 215 like new condx, with 7 xtals on local repeaters. \$200.00 Joe Schilling WB5YKD, 681-5884.

\*\* \*\* \*

#### TECHNICAL REVIEW -W5JJ-

CQ, Aug, has mods for the HW-8 xcvr, basic info on RTTY, good info on 160-m antennas, and a good editorial about the FCC's lack of funding by Congress.

QST, Aug, has a number of good ones, the leading being "Using a Frequency Counter as a Capacitance meter," "Designing Solid-State RF Power Circuits," "A Crowbar-proof 12-V Power Supply," and "Know Your Receiver."

HAM RADIO HORIZONS, Sep, Explains (for newcomers) repeaters, chasing DX, old-time broadcasting (interesting to me, as I was a BC opr in those days), standard time sigs, and how to pass exams.

IEEE SPECTRUM, Jul, is not amateur-oriented but has info on fusion power systems that'll appeal to all who are technically-minded.

73, Aug, has "Antennas" as its theme. Some of the antenna articles are fairly good, some not so good. So read carefully. In addition, theres a wide variety of other articles, just too many to comment on each.

HAM RADIO, Aug, describes a 2-m synthesizer; even if you don't intend to build it, read the last paragraph! For dedicated ex-



perimenters, there are articles on Yagi antenna design, Y and Z circuit analysis, teleprinter converter. For the ordinary builder, try "CMCS Frequency Standard," "Logarithmic Speech Processor," and "Touch-Tone Encoder."

AMATEUR RADIO, Jun, revives an old circuit of an AF 90° phase-shift network for phasing-type SSB exciter, tells the effect of different types of soil underneath 14-MHz beams, and describes a neat trick for increasing the illumination of the S meter on a FRG-7 receiver.

HAM RADIO HORIZONS, Oct(!), compares the ARS and the CRS, describes a VOX, and shows how to build simple dummy antennas.

ELECTRONIC COMPONENT NEWS, Aug, has an interesting bit on the lithium voltaic cell. How does this sound? A primary cell with a shelf life of ten years, 2.8 volts per cell, and will operate well anywhere between minus 65° F and plus 165° F !!

POPULAR ELECTRONICS, Sept, shows construction details for a transformerless DC-to-DC voltage doubler (well, almost double). Another article tells you how to make plastic cases.

IEEE VEHICULAR TECHNOLOGY, Aug, courtesy of W5KE, is devoted to maritime communications, a field that has many factors in common with certain aspects of amateur radio.

WORLDRADIO, Aug, in addition to its usual good info on traffic, on clubs, and on radiotelegraphic operating, has a guest editorial you shouldn't miss. Catch it on page 29. K6EA really tells it as it is!

CQ, Sept, has W6SAI trot out a whole flock of ideas concerning antennas. Most of them are old, but all of them are well worth your consideration.

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#### SO YOU'RE A HAM?

Here's a quote from the March 1935 issue of R9 magazines, by way of Dots and Dashes, a magazine for old-time wire telegraphers.

"When the first 'Plug' operator lugged a typewriter into a telegraph office and tried to copy messages on it by literally 'hammering' them out with two fingers, some facile old pen artist glanced at him dubiously and sarcastically dubbed him 'ham,' and that has been the name of inefficient operators ever since."

One notes that Dots and Dashes never refers to radio amateurs as "hams".

\*\*\*\*\*

FOR SALE: Ameco Type PT FR preamplifier, 6 thru 160 meters; \$35. Waters coaxial filter model 373-2, 144-148 MHz (keeps TV signals from saturating rcvr input), \$15. 450-V power supply plus 6.3-V, \$5. Drake MN-4 matching network, good as new; \$75. Also a few thousand small items at bargain prices. W5JJ, 789-3788, 5824 N.W. 58th St., Warr Acres.



W5PAA

FOR SALE: Variable capacitor, looks as if it came from a National receiver, complete with "Velvet Vernier" gear reduction. Three section, unknown capacitance. \$2.00 from W5JJ, 789-3788.

FOR SALE: Meters, not the unit of linear measurement but indicating devices. All sorts, AC and DC, voltmeters, ammeters, milliammeters, microammeters, dB meters, RF ammeters. A 50-year collection of a meter-miser. W5JJ, 789-3788.

FOR SALE: Gladding "25" two-meter rig with 6 channels. Fred Wright K5HFN 737-8784

FOR SALE: Millen No. 90651 GridDip Meter with complete set of coils \$65.00 Excellent condx. BC-221AA Freq. Meter w/o power supply, excellent condx. \$30.00. Touch tone pad, xtal controlled, with Motorola 14410 chip, insmall size case \$30.00. Robby Runyon W5JES 373-1818.

### STOP THE PRESSES!!!

The August 19, 1977 HR Report arrived Monday morning 22nd with the following grand news:

"AMSAT NEWSLETTER - G3ZCZ/W3 Editor - took top honors in the Amateur Radio News Service's 1977 Publications Contest with 91.1 out of a possible 100 points. Runners in the "multiple club" category were CORA Collector and Emitter, WA5ZNF Editor, with 90.0; and the Hamateur, Editor WA9JMO, with 87.8."

CONGRATULATIONS TO US ALL!!! And an especial vote for Joe, and his valiant efforts keeping the whole thing on-track, and organized. C&E once again travels in high falutin' company.

Robby W5JES

FOR SALE: Working fine, TT-100 Kleinshmidt KSR Teletype, 60/100 WPM gears. \$50.00 FIRM. BILL K3TGY 794-0406.



## Pizza Planet... a Pieceful Place.

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Palatable Pocketbook  
Pleasers

**\$100**

off any Large or Giant Pizza  
(Limit one to a customer)

Bring this coupon

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### AUGUST MEETING HIGHLIGHTS

The August 16, 1977 meeting was called to order by Gary - WA5ETV at 7:55 PM. After clearing the normal business portion, the meeting was turned over to Frank - WB5JBL, chairman of the nominating committee, to present the officer nominees for 1977-78. No additional candidates were submitted from the floor and the committee's recommended slate was elected by unanimous acclamation. The club officers for the next year are:

Jim Denman - WB5EOL, President  
Joe Hustak - WA5ZNQ, Vice-president  
Hobe Borgan - WB5MLN, Secretary-treasurer

President Denman appointed the following standing committees:

#### CORA Representatives

Marshall Williams - K5MB	Hobe Borgan - WB5MLN
Frank McCollom - WB5JBL	Zack Zachry - WB5QPI

#### Technical Committees

##### 2-Meters

Bob Williams - K5PJU  
Dennis Orcutt - WB5ISN  
Ron Cron - WA5EAI

##### 6-Meters

Frank McCollom - WB5JBL  
Bob May - WB5NYR

##### 450 MHz

Gary McCormick-WA5ETV  
Dennis Orcutt -WB5ISN

The retiring officers were given a resounding vote of thanks for a job exceptionally well done.

### WINNERS' CIRCLE

The following attendees were winners in our door-prize drawing:

Jim White - WA5GWH	D-104 microphone
Zack Zachry - WB5QPI	Low-pass filter
Larry Dillard - WB5CWB	Six-meter pre-amp
Bob Pric - Visitor	Coax switch

YOU might be a winner at the next meeting.

### NOVICE THEORY AND CODE CLASSES

Frank McCollom - WB5JBL is completing plans to hold classes for potential novices at the Covenant Presbyterian Church, 10100 Ridgeview Drive, in the Village, beginning September 9, 1977. Theory sessions will start at 7:00 PM and extend to 9:00 PM. Bob May - WB5NYR will take over at 9:30 PM for the code practice sessions.

Those interested can contact Frank at his office on 947-6603 or his home phone 751-3577.

### SPECIAL ANNOUNCEMENT

EFFECTIVE AUGUST 15, 1977, THE SIX-METER SIDEBAND NET WAS DISBANDED UNTIL  
FURTHER NOTICE.....





### F C C S A Y S

An ARRL bulletin advises that in those call areas where the supply of 1 x 2 calls have been exhausted, the block of callsigns from AA1AA through AA0ZZ will be opened July 29th for extra class licensees. This presently will only affect the 4th and 6th call areas. Looking to the future, the block AB through AL will be made available if needed.

Egypt and Israel have okayed third-party communications for W7FPX/SU and for K4SQT/SU at the Sinai Field Mission. These stations only.

The FCC says they are out of license forms and it will be at least mid-August before their printing service makes delivery on new ones. If you are waiting for a license you will have to wait a little longer.

### D X i n g W E G O

Plans are being formulated by Marshall Williams, K5MB, for an EME expedition to beautiful KH6 land. This trip will be a first for EME work from Hawaii. The actual date is not at this time firm but will be in January or February 1978.

If you are interested in participating either in person or with equipment contact Marshall. Plans are to take a new four element twenty meter beam to maintain and coordinate operations back to the mainland.

The islands are truly one of the most beautiful places in the entire world. The weather is perfect all year and in January or February would be a real relief from our cold north Oklahoma wind.

### C O N T E S T R E S U L T S

Results are out on the 1976 CQ World - Wide DX contest and I am happy to report yours truly has a tenth place finish in the Fifth District with 222 contacts, 60 zones and 129 countries. Not bad for a one weekend effort in a year of minimum sunspot activity.

Speaking of the sunspots - they are definitely on the rise - a bit slow but they are there. East coast stations are working Europe on Ten on a regular basis now. By fall we should have some good opening into Europe and also on Ten. So don't wait any longer, get that ten meter beam up now, KH6's were in very strong on July 27th.

### R F I L E G I S L A T I O N

There has been a companion bill to the Goldwater RFI measure introduced in the House of Representatives. The bill, HR 8079, has been introduced by Congressman Adam Benjamin of Indiana. This was done towards the end of June.

The Congressman's office has already requested that the House Subcommittee on Communications plan for an early hearing on the measure. A few letters from interested constituents.....of any Congressman.....might help get something moving on RFI legislation.

### 1 8 - Y E A R - O L D G E N E R A L C L A S S

18-year-old general class, or higher, Amateur license holders will be permitted to administer Novice exams effective June 13th. The amendment to Section 97.28 (b) of the rules came about as a result of a Petition for Rule Making filed by WB4EKC.

NEVER BUY ANOTHER CRYSTAL.  
FOR SALE CLEGG FM 27 B, PERFECT CONDITION  
\$225.00, GUY, K5GL, 787-9547



FROM THE RETIRING-VICE PRESIDENT

"FOR THE PAST YEAR I HAVE HAD THE OPPORTUNITY TO SERVE THE AUTO-PATCH CLUB AS VICE-PRESIDENT AND AS THEIR EDITOR FOR THIS PUBLICATION. IT HAS BEEN AN ENJOYABLE, EDUCATIONAL, AND REWARDING EXPERIENCE; AND I THANK THOSE WHO PLACED THEIR CONFIDENCE IN ME.

THE AUGUST MEETING IS OUR ANNUAL ELECTION OF OFFICERS AND A 'CHANGE IN COMMAND. I ENCOURAGE EACH OF YOU TO JOIN BEHIND THE NEW OFFICERS AND GIVE THEM YOUR FULL COOPERATION AND SUPPORT."

GUY, K5GL

S P E C I A L A N N O U N C E M E N T

EFFECTIVE AUGUST 15, 1977, THE SIX-METER SIDEBAND NET WAS DISBANDED UNTIL FURTHER NOTICE.....

FROM HR REPORT

FCC'S AMATEUR RADIO RULES, updated through March 1, 1977, are now available from the Government Printing Office. One valuable new feature of the revised edition is a comprehensive word index to aid in finding rules pertinent to a specific question.

Not Included in the revision are changes adopted since March 1; notably, lowering the volunteer examiner's age to 18 and the tightened spurious and harmonic specifications of the first Report and Order and Docket 20777 (HRR 138 and 144). Price of the new edition is \$1.30 from the Superintendent of Documents, Government Printing Office, Washington D.C. 20402. Specify stock number 004-000-00338-1 on your order.

FOR SALE: Robot Model 70 SSTV monitor and Robot Model 80 camera with micro lens. \$495.00. Guy - K5GL, Phone 787-9547.

E D I T O R I A L

The Auto-Patch Club officers assume their responsibilities with the August meeting.....and, in an instance or two, perhaps with a bit of apprehension.

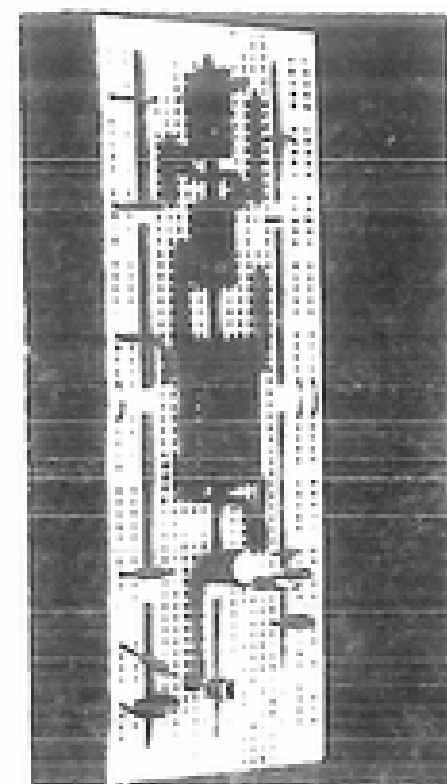
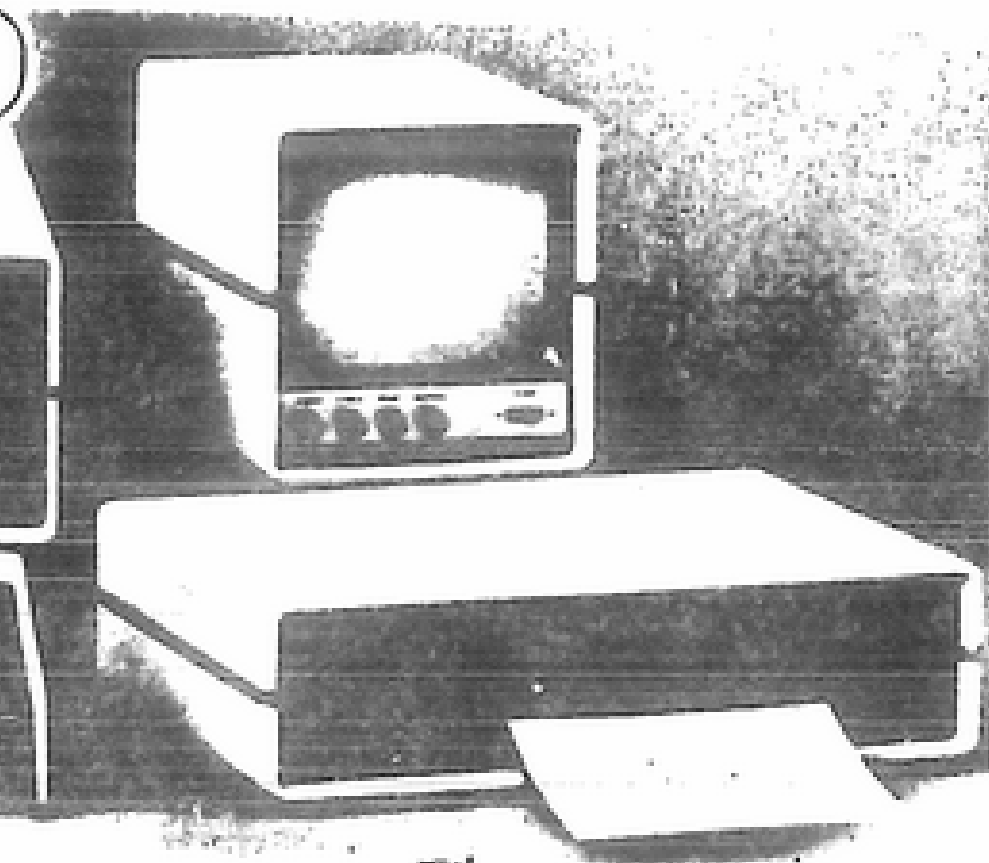
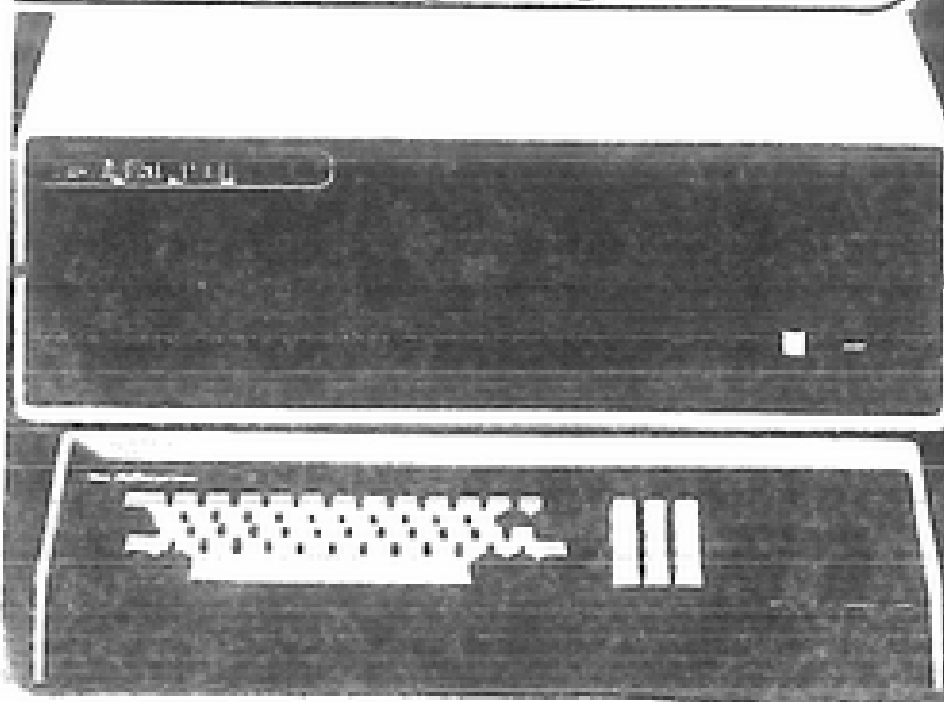
We commend the officers who served so admirably this past year. Certainly they experienced a trying moment or two, but never-the-less, they came through with flying colors. We tip our hats to them!!

With the new year ahead of us, we sincerely solicit your help, guidance and suggestions. Input for this publication would be welcomed. A club is only as effective and effervescent as its members. In this regard, there is no reason why we shouldn't have a great year.

Jim - WB5EOL  
Joe - WA5ZNQ  
Hobe - WB5MLN

P L A N N O W F O R T H E O C T O B E R M E E T I N G

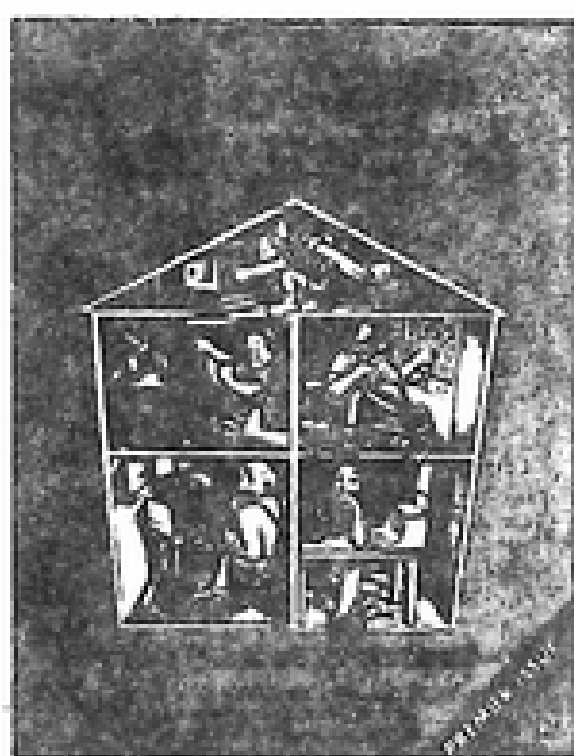
the digital group



INTERFACE<sup>TM</sup> Magazine

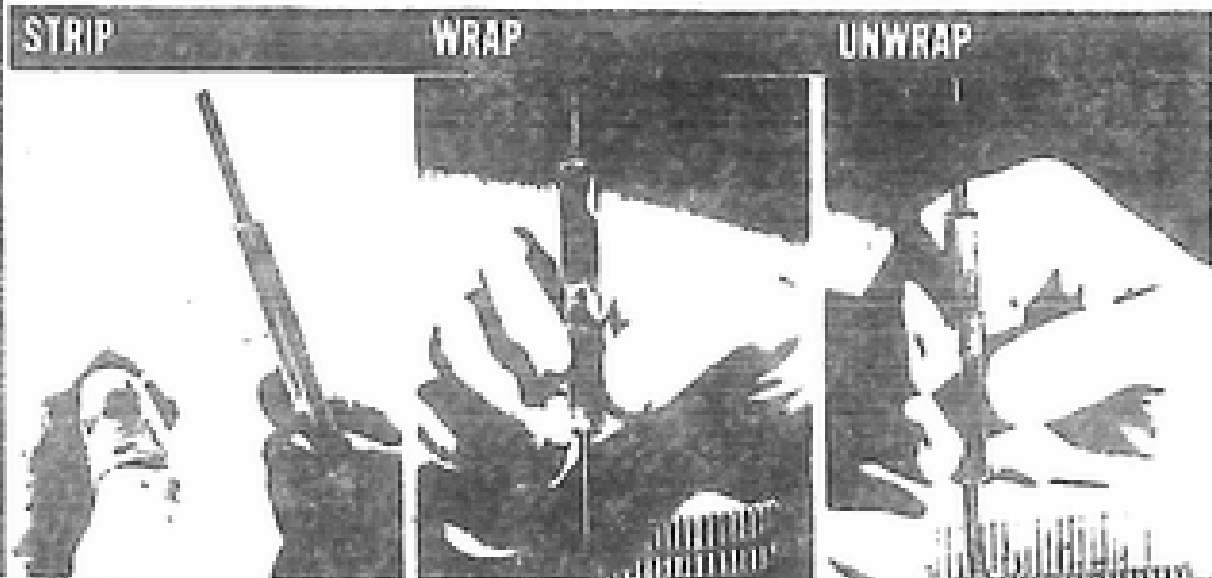
kilobaud

BYTE



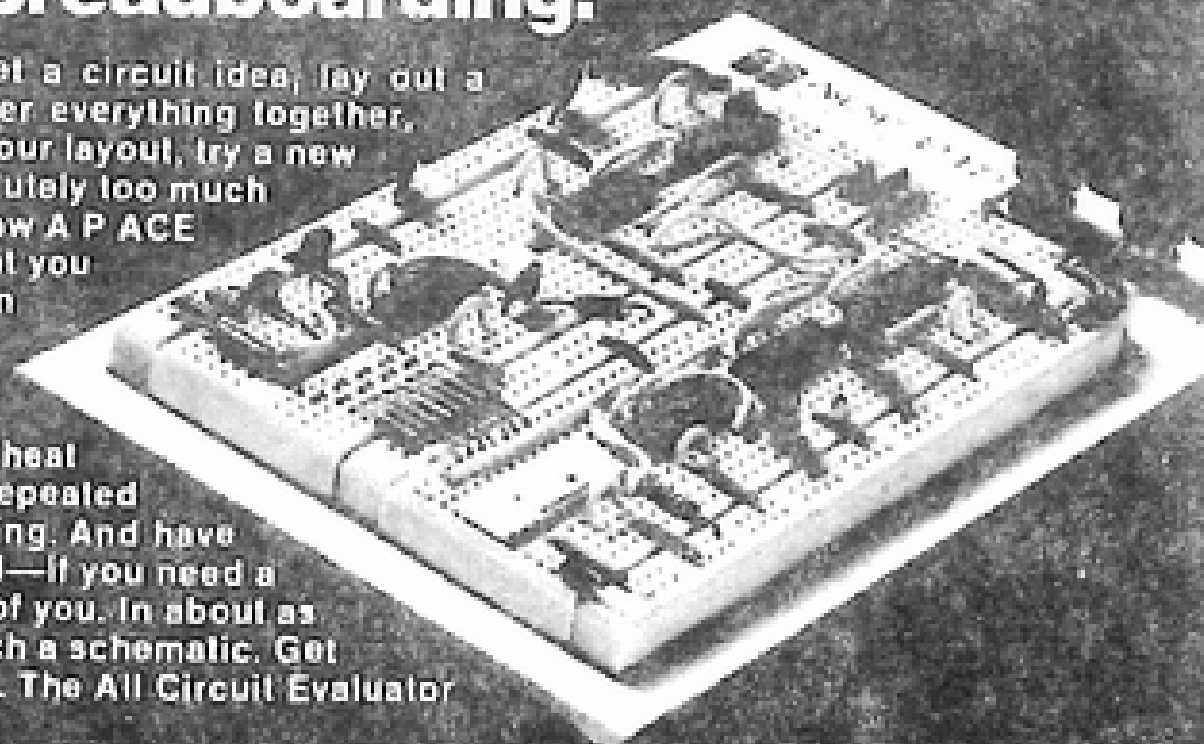
### Hobby-Wrap-30 \$5.95

Strips, Wraps and Unwraps 30 ga. wire on standard wire wrapping pins



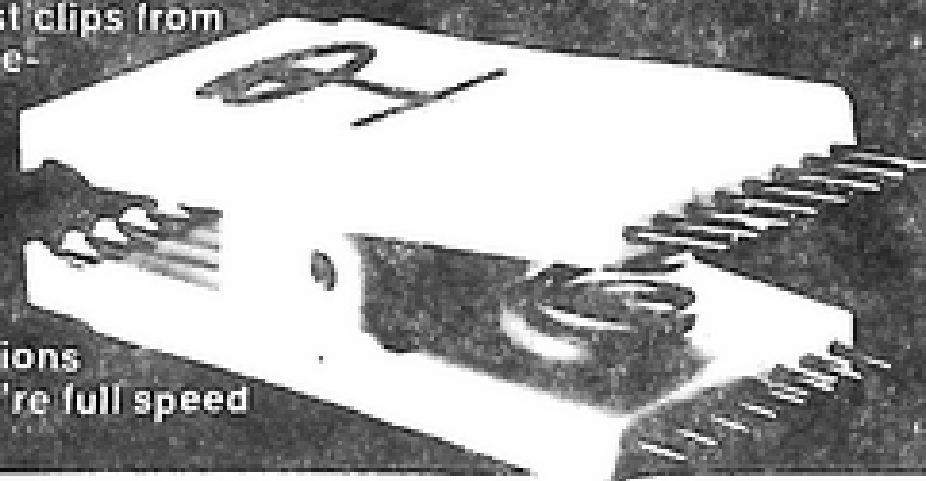
## Nothing is Faster and Easier than ACE for circuit breadboarding.

Used to be you'd get a circuit idea, lay out a pc board, print it, solder everything together, troubleshoot, change your layout, try a new board, and spend absolutely too much time breadboarding. Now A P ACE All Circuit Evaluators let you breadboard in a fraction of the time. Make your changes immediately. Keep full leads on your components. Avoid the heat damage possible with repeated soldering and desoldering. And have a pattern for your board—if you need a board—sitting in front of you. In about as long as it takes to sketch a schematic. Get cooking with ACE. ACE. The All Circuit Evaluator from A P Products.



## Let our fast clipper speed you out of troubled waters.

Troubleshooting DIP ICs can be a pain in the probe if you can't get at their pins. But you can make the job faster and easier with Super-Grip<sup>TM</sup> IC test clips from A P. Our "contact comb" design prevents shorting while our superior gold-plated phosphor bronze terminals make contact. Then your probe is welcome aboard its handy topside pins. And this gutsy little spring clip is perfect as an IC puller, too. So use it for its connections or use it for its pull. Either way, you're full speed ahead with A P.



## BITS, BYTES & MICROS

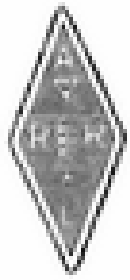
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Charles Gibson  
David Kearns  
Jeff Kearns



ALTUS  
HAM  
CLUB

President: Loren Simms, WA5CBF  
Sec./Tre.: Deanna McEndree, WB5UMH

The Altus Ham Club met 11 Aug. 77 at 1930 hrs. at the city park for an ice cream social. Loren, WA5CBF, called the meeting to order and welcomed everyone. Bud, WA5ZAR, made a motion to disperse with the regular meeting. It was seconded by Richard, WB5LUF, and carried. Everyone introduced themselves and their families. 46 persons attended. Home-made ice cream, cakes and cookies were furnished by club members. Good weather was promised by Bud, WA5ZAR; however no Eskimoos attended to appreciate it. Who would believe 60° in August? Keith, WA5ZFI, provided entertainment by braving the rain clouds and showing off his new toy, a Rambler convertible. We had one sneaky camera nut, Sherwood, WA5TXG. Dwight, WB5KRH, alias the cookie monster, had a dream come true, a 10 inch chocolate chip cookie baked by Mundy Bryan.

Congradulations to Chuck Smith, WB5MJS, and his new wife Ilene and double harmonics. Seems the uncatchable got caught. They tied the knot Aug. 3.

The 5th annual Ham Fest will be held Saturday, September 17 at Lake Altus. Details to be decided at the next club meeting.

Anyone interested in Amateur Radio classes should contact the instructors; Chuck Smith, WB5MJS or Richard Spencer, WB5PUF.

Next club meeting Sept. 8. Try to attend as this is the last meeting before the Ham Fest.

Shaw in Gotebo has a new call W5VQS. Dues paid by D.L. Hinkle, WB5SOH and Deanna, WB5UMH.

73's

Deanna, WB5UMH

HAM HOLIDAY REPORT (from Enid A.R.C. Light) + + +

Those who were so unfortunate as not to be able to attend HAM HOLIDAY held at Southgate Inn in Oklahoma City on August 6 & 7 really missed a beneficial and fun-filled meeting. There were 760 reported as registered with loads of entertainment for the ladies and commercial exhibits, flea markets and forums galore for interested amateurs.

Yours truly found the ARRL forum very informative with H. O. Townsend, WA5MLT, SEC, Oklahoma, encouraging all amateurs to become active amateurs always prepared for possible emergency action. It was suggested that such ARRL publications as the Public Service Communication Bulletin, etc., be carefully read and, after reading, put into practice. All amateurs should register their capabilities with their Emergency Coordinator.

Leonard Hollar, WA5FSN, SCM, Oklahoma Section, gave some interesting statistics for the state. Out of 77 counties, (with one per county) Oklahoma has 26 ECs. Out of 1,317 Official Relay Stations, Oklahoma has 15. Out of 500 Official Bulletin Stations, Oklahoma has 10. Out of 443 Official VHF Stations in the nation, Oklahoma has 7 people reporting with 2 of those 7 reporting VHF activities faithfully. Oklahoma has 28 Official Phone Stations and 1 active Official Observer.

Jack Gant, W5GM, West Gulf Director, gave a short report on Docket 20271, Fifth Notice of Inquiry. He especially stressed the importance of all amateurs letting their representatives know how they stand on various issues since, without intelligent, comprehensive opinions, the hands of any representative are tied.

Obscene phone calls entered the forum discussion. Several steps to be taken were outlined. First, unplug your microphone, do not answer the call. Carefully detail the frequency and call your monitoring station. (Phone numbers are in last month's C&E, Ed.) If you do not know your area monitor, call any monitor. If possible, tape the call and forward it to your monitor for his availability and use. Watch forthcoming issues of QST for more pointers regarding handling of this offensive behavior.

W5GM reported certain insurance programs in the works, among which is a club liability policy which will run about \$30 per year per club. There will also soon be offered to amateurs a policy for the protection of radio equipment with a premium based on \$1 per \$100 replacement value with a 10% deductible clause and \$50 minimum deductible.

The youngest novice in attendance was 10 years old and the oldest novice in attendance was 67 year young.

Gary Shane, WB5PZD of Tulsa, walked away with the big one: A Kenwood TS520. The Rahn tower pre-registration prize was taken by an amateur from Mosselshoals, Alabama, and Judy, XYL of K2GKK, carted off a Kenwood 2-meter, as did Les, WA5VHN. There were also antennas, watt meters, antenna rotors, scanners and scads of lesser loot up for grabs.

Mary Jane, WB5WNP

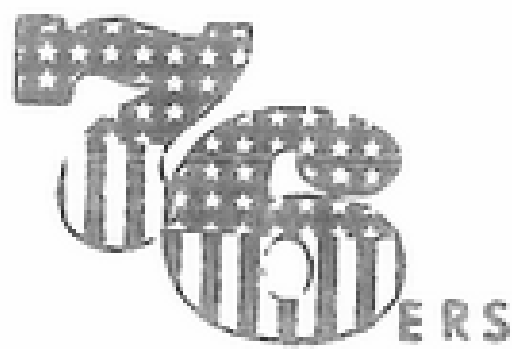
FOR SALE: Heath IM-2202 Digital Multimeter - \$130. Heath IO-4530 Oscilloscope - \$250. Yeasu external VFO FV-101-B - \$75. Yeasu SP-101-B phone patch w/external speaker - \$45. Bob McClain, W5QFH at 528-6461.

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## THE BICENTENNIAL AMATEUR RADIO CLUB



Meeting was called to order by President Ken Newberry, WB5PYN, at 7:10 PM.

There were several people who have upgraded their license and classifications. All were congratulated on their receiving their new calls and tickets.

New members were given their receipts and membership cards.

Discussions were opened up for the Club to have a fall school. A motion was made and seconded that the Club have an Amateur Radio school. Motion carried.

A committee was set up from the original constitutional committee to set up the classes, find instructors and set up a program in general.

A starting date in early September and on thursday nights was more or less decided upon by the Club for the committee to act on. A vote was taken and thursday night was chosen. The first day of September was decided on by vote of the Club. Seven O'clock was decided on as a starting time.

A motion was made that a \$ 5.00 fee be charged for the school. If the person passes his license test or upgrades his existing license, he gets his money refunded. Motion carried.

A nominating committee was appointed to nominate the officers for the future terms at the next meeting of the Club.

This committee consists of Coy Day, Ken Newberry, Bill Tuck, Cecil Shelton and Bob Kelley.

Ken Burdick, K5UAB, gave a report on C.O.R.A. and the Ham Holiday program. Ideas from the members were given for their program and plans for future meetings were presented.

Volunteers were asked for members to the C.O.R.A. committee as more help is needed for this committee from our club.

President Ken Newberry, WB5PYN, recognized the visitors and made all visitors welcome and new memberships applications were taken.

Meeting adjourned for coffee break at 8:15 and reconvened at 8:30 for the showing of movies.

The showing of the M.A.R.S. film was of interest to all members and guests. The second film was about moving up to Amateur Radio.

Field day reports are not complete all over the area. Our Club reports that 1,405 contacts were made.

Meeting was adjourned at 9:05 PM.

Jim Townsend, WB5VCB

SECT.



For different reasons we have all been drawn together in a common bond, amateur radio. Some like to build equipment, some operate, some repair, some experiment. Others chase DX, rag chew, chase satellites, moon bounce, RTTY, traffic, on and on. After all it is a many faceted hobby.

One part of the hobby we don't usually say much about is the "policeman". We do have policemen, some official and some not, but nearly all serve amateur radio in some way. The self appointed policemen come in two varieties. One is the casual listener that breaks in to say "Hey buddy your signal is bad." This is the healthy old self police of the bands that has helped to keep us out of trouble. The other is the one that lies in wait for some poor unsuspecting sole to violate their pet peeve and then descend upon him with fervor. How proud they are when they have completed their task. "Boy did I tell that lid. He'll think twice before he gets on the air again." Probably true, I'm sorry to say. How many promising young amateurs have been driven back to their dark room by some nut on an ego trip?

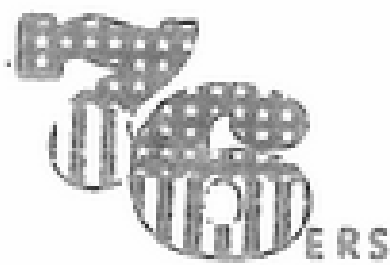
Each of us have recollections of such happenings. My favorite, I heard one morning a couple of years ago on one of the fine repeaters in Tulsa. Several old timers were having their regular Saturday morning rag chew. They were enjoying themselves. They must have been. They were coming back to one another with such eagerness that no one could break them. Someone had tried to a couple of times unsuccessfully and finally did get their attention by screaming out a quick break break break. Wow! Did he get their attention. The gentleman that took the frequency for the next five minutes had nothing at all nice to say about anyone brash enough to yell out a break break break in the middle of a QSO. He was very precise in his instructions on the only time to use such a break. He even read from some literature he happened to have at hand. When he finally turned the frequency to the breaking station, the breaker simply stated "I'm sorry. I just thought you might report this garage fire for me. Never mind though, I've found a pay phone now. Thanks a lot for the help. 73" He signed with a nine land call mobile five. Needless to say, the frequency was quiet for the next few minutes. I thought that I might have to pull the car over for a few minutes until I recovered. That ego trip turned out to be a trap.

I get a kick out of those that are always trying to keep the new guy from sounding like a lid. "Who determines what is right or wrong in any language at any time except the speakers of that language." One of my old pros used to say. Some of us remember when you were considered a lid on 40 meters A.M. if you spoke of yourself as I, when the common usage was we. It wasn't very long ago when it was improper to call CQ on 2 meters F.M. and proper to use break to enter a QSO. I'm sure we all know examples of this.

What's the purpose of all this yak? Only this, if you're a new "ham" and you are suddenly descended upon by some pious policeman, belching forth the wrath of God, shrug it off and go your own way. Don't let it bother you. Just remember it's his way of enjoying our many faceted hobby.

73      Coy N5OK





## THE BICENTENNIAL AMATEUR RADIO CLUB



FROM THE 76'ERS TO ALL THOSE WHO WORKED SO HARD ON THE HAM HOLIDAY: A BIG PAT ON THE BACK FOR A JOB WELL DONE. ALL OF THE COMMITTEES HARD WORK PAID OFF IN A BIG WEEKEND. A JOB WELL DONE.

I WOULD LIKE TO ASK ALL MEMBERS TO ATTEND THE NEXT MEETING, SEPT. 20, IF POSSIBLE. THE NOMINATION COMMITTEE WILL MEET TO NOMINATE MEMBERS FOR CLUB OFFICERS FOR NEXT YEAR. IT IS ALSO DUES PAYING TIME AGAIN.

SEPT. 1, OUR NEW LICENSING SCHOOL STARTS. ANYONE WISHING TO GET INTO AMATEUR RADIO SHOULD TRY TO ATTEND.

73, KEN, WB5PYN

### CALLBOOK ERROR:

IF YOU TALK TO THE SOUTHPOLE STATION, KC4AAA, AND LOOK IN THE 1976 OR 1977 CALLBOOK UNDER QSL MANAGERS, YOU WILL FIND W6MAD. THAT IS WRONG. THE CORRECT QSL INFO IS W6MAB.

KC4AAA HAS BEEN HEARD LATELY ON 7225 KHZ, SOMETIME BETWEEN MIDNITE AND 4 AM, THURSDAYS.

73,  
C.Y. WB5TKG

## IMPORTANT CORA MEETING

Election of Officers, September 23, 7:30 PM at Red Cross. Each participating Club should reaffirm their three Directors for the coming year and have them at this meeting. With the very successful "Ham Holiday 77" behind us, we need to get the new Officers elected so they can get rolling on plans for "Ham Holiday 78".

A special thanks from all of us who enjoyed "Ham Holiday 77" to the dedicated hard working people who made it possible. I won't try to recognize all of them, only the Committee Chairpersons, but remember, they had a lot of good help.

Publicity & Reservations:	H.O. Townsen, WA5MLT
Programs:	Joe Buswell, W5JB(WA5TRS)
Ladies Programs:	Helen & Jim Williams KSVRL
	Dee Glass
Prizes:	Bill Riddles, WA5MZW
Facilities:	Joe Harding, WA5ZNF

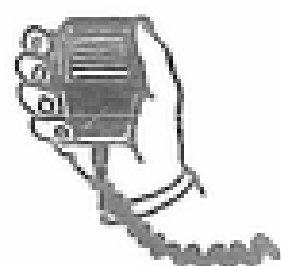
73

Bob Ashby, W5HXL / Vice President CORA

Ham Holiday 1977 is now an item of history. I for one will remember it for a long time. Overall, it was outstanding and showed a lot of good planning and genuine hard work and sweat! I met a lot of people there who had helped me out on the air after I became a Novice. What a "Greenhorn" I must have seemed to them in my early days as I struggled with my code or accidentally broke into their conversations or otherwise disrupted the airways!

What patience these people had. Without exception, they would stop and help me and straighten me out. I've learned a lot and am now studying for my Advanced license. I haven't stopped learning from these fine folks. I said a lot of "Thank yous" to friends at the Ham Holiday--friends that I had only met on the air before that time. This was my first Ham Holiday, but you can be sure it won't be my last!

Greg Peck WB5PNV



# THE ZANY NEWS FREQUENCY

By JOE, WA5ZNF

I CAN'T REMEMBER HOW TO TAKE A DEEP BREATH ON PAPER - - but that is what I was able to do. HAM HOLIDAY '77 was over and while there was a lot of time and work involved it was worth it because every one that I talked to enjoyed themselves and there was only one complaint, more prizes were awarded to pre-registrants than those that registered at the door - the pill bottles weren't mixed enough - but when I pointed out that there was a 7:1 ratio involved, those who didn't pre-register got a real good "shake", he then agreed with me. By the way there are other reports in other areas this month so I will just give you a few numbers and move on. The total registration was 768, with 640 being pre-registered. They were the ones who insured that a nice grand prize of the Kenwood would be available.

I guess we will have to have HAM HOLIDAY '78 since we have already received three pre-registrations for next year.

\* \* \* \* \*

A LETTER LIKE THIS PAYS FOR SOME OF THE 40-PLUS HOURS A MONTH I SPEND MANAGING C & E:

First I must tell you how much I enjoy CORA, after being off of 2 meters so long, sure hope to be back soon. My IC 245 with SSB adapter and TPL 720 was lifted from my van, along with a new Drake mike.

I have licensed 56 Novice in the last 20 some odd years. But I must confess that it makes my heart feel glad to hear WA5ZNF on the band. Joe was one of my star pupils quite some time back (Joe, I am not going to give our ages away.) And it is this kind of amateur that makes it all worth your time, Joe I am proud of you, keep up the good work.

I was licensed over 20 years ago. As a novice my first contact was with W5JJ. Shortly after I received my Tech my first contact was W5JJ. Within a year I received the General ticket, first contact W5JJ. Then I upgraded to Advanced, first contact, W5JJ, all without any pre-arranged schedules.

It has been my pleasure to know Carl all of these years, and I have a word for the newcomers: If it is your pleasure to meet Carl remember one thing, disengage your mouth and engage your ears, you will learn more in 10 minutes, listening to Carl than you can get out of any book. If you can get him to talk ??.

Ben, K5IRO

P.S.: I need a model 15 TTY w/60 WPM gears for my son.

(Thanks for helping me and the others, Ben. It has been fun./Joe/ And you still give good advice)

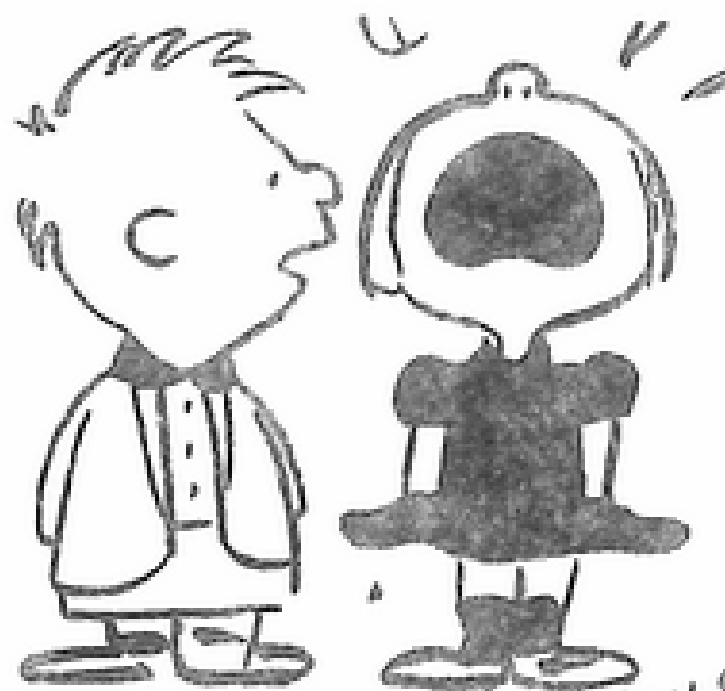
\* \* \* \* \*

MY "PLEA" FOR HELP IN SELLING BUSINESS CARD ADS - - apparently fell on deaf ears. One amateur came through, that only leaves 29 more to go. It's a serious matter, go back to last month's C & E and take another look.

\* \* \* \* \*

LAST MONTH THOSE 25c RETURN POSTAGE FEES cost CORA about half again as much as it cost to mail the regular 753 copies out originally.

If you move: Call me at 737-1044 or send a post card or letter to Box 15013, Okla City OK 73115.



You'd cry, too, if hundreds of persons moved and it cost you 25¢ each time to get the new address. When you move, please send us your new address, immediately.

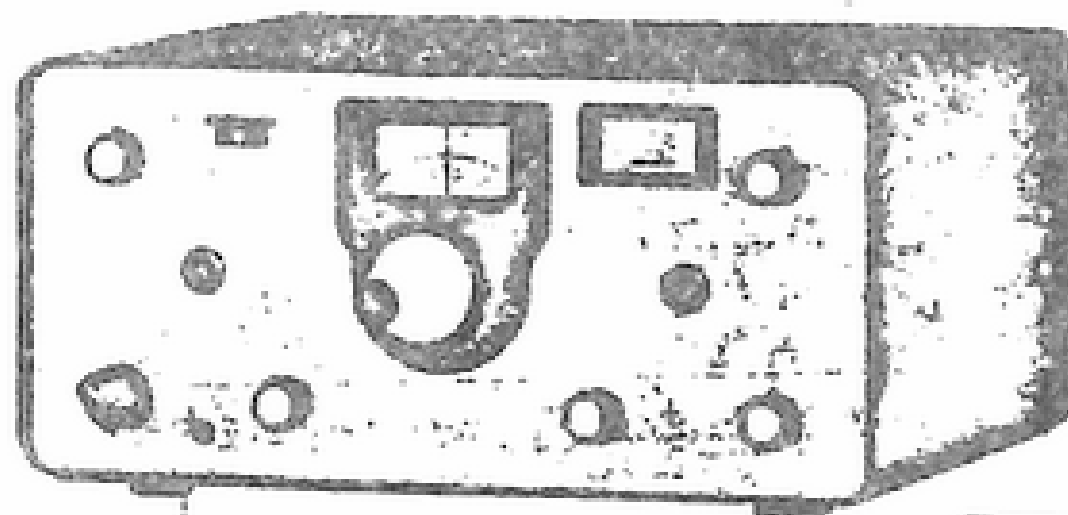
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SEPTEMBER 77 HAM HAPPENINGS						
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
				1	ACARC MEETS 2	3
4	LABOR DAY 5	MORI MEETS 6	7	ALTUS HAM CLUB 8	9	10
11	12	13	14	15	VHF MEETS 16	17
18	19	76ers meet 20	21	22	23 CORA SCE PAGE 23 26 23	24
25	EDIT C+F 26	27 ASK JOE	28	76ers MAIL C+F 29	30	

See page 2 and/or individual club sections for details

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