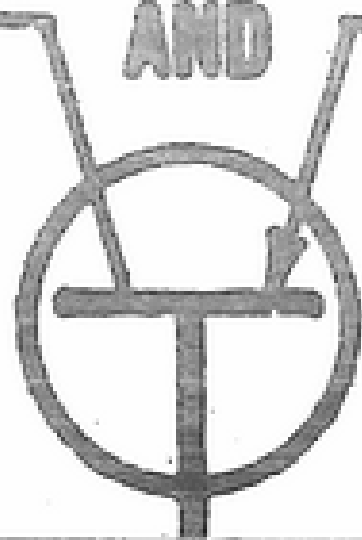


Central Oklahoma Radio Amateurs

COLLECTOR AND EMITTER



| 1976 | | JUNE | | | | 1976 | |
|------|-----|------|-----|-----|-----|------|--|
| SUN | MON | TUE | WED | THU | FRI | SAT | |
| << | << | 1 | 2 | 3 | 4 | 5 | |
| 6 | 7 | 8 | 9 | 10 | 11 | 12 | |
| 13 | 14 | 15 | 16 | 17 | 18 | 19 | |
| 20 | 21 | 22 | 23 | 24 | 25 | 26 | |
| 27 | 28 | 29 | 30 | << | << | << | |

Vol. 2 No. 17



JACK GANT, W5GM, OF ARDMORE, ARRL WEST GULF DIVISION VICE-DIRECTOR AND GUEST.

DOUG'S PRESENTATION WAS ON SOLID STATE VFO AND IT BROUGHT EVERYONE UP TO DATE ON THOSE INTRIGUING LITTLE DEVICES, ESPECIALLY THE OLD TIME TUBE TYPE DESIGNERS AND BUILDERS.

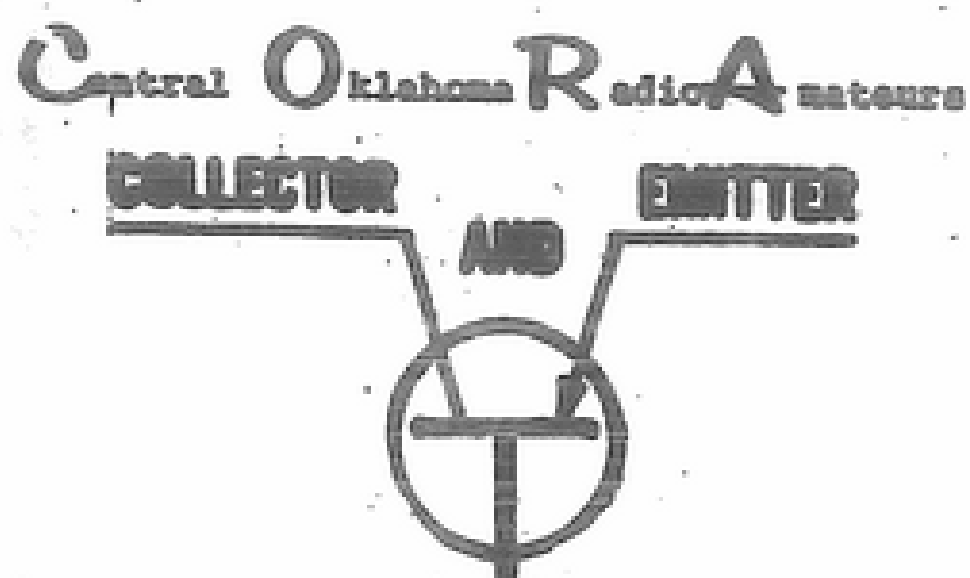
NOW THAT EVERYONE KNOWS "ALL" ABOUT THEM WE EXPECT TO SEE A RUN ON SUPPLIERS FOR PARTS FOR THOSE NEW SUMMER BUILDING PROJECTS.

THE MAY MEETING OF THE MID-OKLAHOMA REPEATOR CLUB WAS PROUD TO WELCOME MR. DOUG DEMAW, WICER, TECHNICAL EDITOR OF QST.



LÉONARD HOLLAR, WA5FSN, OF KINGFISHER, SECTION COMMUNICATIONS MANAGER FOR OKLAHOMA AND DOUG.

DO IT TODAY - PRE-REGISTER FOR HAM HOLIDAY



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AT OKLAHOMA CITY OK

Managing Editor Joe Harding, WA5ZNF 737-1044

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.

| | | | |
|----------------|----------------|--------|----------|
| President | Ken Kendrick | WB5ECJ | 751-4917 |
| Vice President | Gary McCormick | WA5ETV | 946-2898 |
| Secretary | Ellard Foster | W5KE | 789-6702 |
| Treasurer | Bob Williams | WB5LHR | 789-0987 |

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| OCVHF Editor | Joe Buswell | WA5TRS | 732-0676 |
| OKCAP Editor | Don Moore | WA5FFK | 787-5189 |

PARTICIPATING CLUBS FOR CORA COLLECTOR & EMITTER:

AERONAUTICAL CENTER AMATEUR RADIO CLUB

Postal Station 18, Okla City OK 73169

Meets: 8:00 PM First Friday each month
Flight Standards Bldg, FAA Aero Center
Club Station W5PAA

| | | | |
|--------|-------------|--------|----------|
| Pres | Al Prince | WB5KCU | 789-1160 |
| V-P | Bill Hulse | W5UGZ | 376-2125 |
| Sec/Tr | Bill Oliver | K5KDR | 329-6333 |

OKLAHOMA CENTRAL VHF AMATEUR RADIO CLUB

323 NW 10th, Okla City OK 73169

Meets: 8:00 PM third Friday each month.
American Red Cross Bldg 10th & Hudson
Club Station W5LOW

| | | | |
|-------|---------------|--------|----------|
| Pres | Tom Stinson | W50ZE | 942-3714 |
| V-P | Ken Ford | WB5KHU | 528-8770 |
| Sec | Joe Buswell | WA5TRS | 732-0676 |
| Treas | Ellard Foster | W5KE | 789-6702 |

MID-OKLAHOMA REPEATOR

Meets: 8:00 PM Tuesday of first full week
in month. Okla City EOC 4600 N Easter
WR5AJP 34/94 WR5ADF 07/67

| | | | |
|--------|----------------|--------|----------|
| Pres | H. O. Townsend | WA5MLT | 329-4426 |
| V-P | Chet Hazlewood | W5GDL | 427-1439 |
| Sec/Tr | John Huckaby | K5QDR | 672-4706 |

DUES: Sid Gerber, 829 E Bouse MWC 73110

OKLA CITY AUTOPATCH ASSOCIATION

Meets: 7:30 PM 3rd Tuesday, Bi-Monthly,
Oklahoma Military Academy 36th & Grand
WR5ACB 22/82 147.81/21

| | | | |
|--------|----------------|--------|----------|
| Pres | Frank McCollom | WB5JBL | 751-3577 |
| V-P | Larry Dillard | WB5CWB | 685-4065 |
| Sec/Tr | Jim Denman | WB5EOL | 681-6048 |

7705 S Charlotte Dr OKC 73159

OKLAHOMA UNIVERSITY AMATEUR RADIO CLUB

202 W Boyd, Room 219, Norman OK 73069

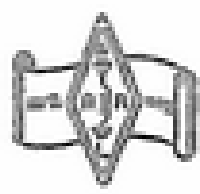
Meets: 7:30 PM Alternate Tuesday STUDENT
UNION Rm 161 (W5TC WR5AFW 146.28/88)

| | | | |
|-------|---------------|--------|----------|
| Pres | Paul Thompson | WB5EEY | 321-6265 |
| V-P | Wayne Smith | WB5FEX | 325-6391 |
| Sec | James Koerner | WA5JTJ | 634-3713 |
| Treas | Mike Salem | WA5EPK | 321-5453 |

EDMOND AMATEUR RADIO CLUB

Meets: 10:00 AM first Saturday of odd
numbered month, 3220 N. Santa Fe (GE)
WR5AHG 147.63/03

| | | | |
|--------|----------------|--------|----------|
| Pres | Larry Dillard | WB5CWB | 685-4065 |
| V-P | Bart Wortham | WA5JUJ | 751-9536 |
| Sec/Tr | W. H. Thompson | W5UVI | 348-1475 |



W5PAA

MINUTES OF 7 MAY 1976 MEETING
AERONAUTICAL CENTER AMATEUR RADIO CLUB

The meeting was called to order by President Al Prince at 8:20 p.m. CDST. There were 36 members and guests present. Each was asked to introduce himself and comment if so inclined. (Many interesting and humorous comments were made, but the acting recording secretary was so busy listening, he forgot to make notes.) Among those recalled were: Elmer Fields, W5BKN, suffered another rip-off. Bob Ashby, W5HXL, made a 3-week California trip. WB5KCU has modified his tower. Don Foster, W5TLL, from Tulsa told of new tower restrictions there and of K5LAD's attempt to defeat them. Ed Murta, K5LIL mentioned that the amateur who had many legal battles in Westchester County, NY is now K5OVC in Little Rock, AR.

The president called for old business. K5LIL reported that the Dayton Hamfest had an attendance of over 13,000 and over 2,000 attended the banquet. It was mentioned that Mr. Huntoon, W1RW has been hospitalized.

As new business, WB5KCU read a letter from "The Southwest Radio Council", a Dallas organization headed by W5EJ, WA5VJX, W5AIT, and W5OGZ, wishing to set up a calendar of coming events and a listing of clubs. One objective being to avoid conflicting dates. The Council wishes to be a clearing house for information. They requested comments and answers to a questionnaire. Questions included name of president, meeting date, and conventions planned.

Joe Harding, WA5ZNF, supplied information that the Oklahoma Ham Holiday cannot be an ARRL State Convention this year because of conflict with Director Albright's schedule.

Motion was made by Carl Drumeller, W5JJ, and seconded by W5HXL that the ACARC list itself as a participating club, but leave convention portion of reply to The Central Oklahoma Radio Amateurs, Inc (CORA). The motion passed.

Howard Ridgway, W5WSW, commended the CORA for its invitation to other clubs to use the Collector & Emitter. Discussion followed regarding the statewide implications.

President Al opened discussion of the advisability of buying a counter for use by club members. He gave a brief run-down on the Kay Enterprises counter and directional coupler--as one possible purchase. Motion was made by W5HXL that the station manager be authorized to look into and buy a counter in the \$300 price range from club funds. The motion was seconded and passed.

A two-part program was given by Charlie Greene, WA5JGU and Bob Ashby. Charlie told those present about the VHF Club Station at Red Cross (W5LOW) and something about the work done there, including response to a need to evacuate some people, just today, near Enid when an ammonia pipeline ruptured. Bob gave a brief, but interesting, talk about how to use the LM-380 integrated circuit to make an audio amplifier without add-on resistors or capacitors. He showed how two LM-380's could even eliminate the need for a blocking capacitor in the speaker lead. Then he demonstrated a home-made amplifier that made good music come from a pocket "transistor".

The meeting adjourned at 9:25 p.m. CDST for coffee and doughnuts.

About 10:00 p.m. Bob Ashby hooked up a slide projector and showed highlight pictures from his recent California trip plus some other favorite photos.

For Bill Oliver, Secretary/Treasurer
by Ellard Foster, W5KE

Congratulations, after a long 8 weeks and 2 days, we have another happy amateur. Gene, WB5SQC, who is a member of the Aeronautical Center Club, is active on two meters.



THE PRESIDENT'S CORNER

Thanks to Charlie, WA5JGU, and Bob, W5HXL, for the program and slides at the last meeting, we had a good turn-out with better coffee and donuts.

On Sunday the 10th, Daisy and I left Oklahoma City driving to Olathe, Kansas, where we were to spend the week while I attended a seminar at King Radio.

I took along the two meter and TR4 with a 40 meter resonator mounted on the rear bumper. We ran into light rain which created too much noise for the 40 meter band, so I used the 2 meter rig to work into Wichita, where we delayed in route for a couple of hours to visit friends, then on to Olathe where we checked into the Hallmark Inn late Sunday evening. With the luggage and radios all removed to the room, it was necessary to bring in the 12v power supply and home brew 5/8 wave antenna. I was able to key-up 34-94 in Kansas City (even though it wrinkled up the color TV in our room, just slightly) we were able to work the repeater very well, we were really invited to join in with the local group and find that many of the people knew amateurs in this area. We were asked to pass their greetings along to W5JJ as well as several instructors at the Aeronautical Center. As it turned out, Howard KØB4C was W5PZW, who lived here in OKC several years ago.

They also have a get together each Monday night at 9:00 p.m. local time on 28.750 and have asked us to join them, when the 10 meter band is open.

We enjoyed a tour of King Radio Factory as well as the other students in the class. One gentleman was from Sweden, who was also an amateur, so we gave him a turn at the two-meter mic, which the local K.C. group who happened to be on at that time was pleasantly surprised.

With all my antennas up and in working order now, and with the band conditions good, I have established some good contacts on 20 meters, this week.

So come out to the next club meeting, bring a friend and join us in a get together for whatever it may be. At least coffee and donuts. 73 A1, WB5KCU

* * * * *

DANGER!

DANGER!

DANGER!

The FCC proposal, Docket 20777, is as dangerous to amateur radio as a short-fused bomb. Should it be put into effect, there are some aspects fraught with grave danger to amateur radio as we know it.

These aspects have been pointed out by our West Gulf Division Director, Roy L. Albright, W5EYB, in the San Antonio Radio Club publication, BULL-ETIN.

For one thing, it would outlaw 6A3 ("AM") transmissions below 28.5 kHz. Now, before you say, "So what!", just pause and think about those many oldsters who have 6A3 transmitters....and not many more years of life. Would you deny them access to amateur radio at the period when it is perhaps of the most value to them?

Another item; How do you think you will be able to attest to the spectral purity of the emissions of your transmitter? A spectrum analyzer that could give more than the wildest guesses would cost you many times the price of all the other gear in your shack!

Maybe it'd be better to just let the FCC tell us we can have SSTV in certain frequency bands, 3F3 in others, 3A3J ("SSB") in some, and 0.1A1 ("CW") in others. That'd be better than buying a new rig that had been "type accepted" by FCC.... and don't think such acceptance tests haven't been given serious thought!

And how do you like the idea of copying a weak DX CW signal through legal (in the US) interference from a station using partially-filtered rectified AC on the plates of his finals?

Read the proposal carefully....and let Roy Albright know how you feel about it!

W5JJ



TECHNICAL REVIEWS

W 5 J J



ELECTRONIC-TECHNICIAN/DEALER, Apr, courtesy of W5KE, has a detailed and specific listing of the various VHF and UHF assignments for a wide variety of services. It also says that Breaker Corp., a manufacturer of CB antennas, has purchased Hallicrafters Communications Equipment Division from Wilcox and will continue the manufacture and sales of amateur gear.

QST, May, adheres to its new editorial policy of not low-rating amateur radio by calling it "ham radio". Its chief technical articles concern a low-power solid-state xmtx, transistor power amplifier design, and a 7-MHz triangle antenna.

IEEE Spectrum, Apr, has excellent articles on spectrum analyzers and conventional oscilloscopes.

OQ, Apr, talks of helically-loaded antennas, bandspread for the SP-600, an external oscillator for the FT-101-E, feeding multi-band antennas, and novice equipment. A new Editor has taken over; this was reflected by their paying me for an article accepted four years ago!

73, Jun, is high-lighted by articles on op amp applications, building an impedance bridge, a "glass arm," and Wayne's father's account of early day flying.

HAM RADIO, May, starts with an editorial on being kind to CBers (a good thought) and then slides into a whole raft of articles (all good) on antennas....just about a dozen of 'em. Two more good sections deal with VHF/UHF techniques and the radio amateur's notebook.

AMATEUR RADIO, Feb (boat mail from Australia is slow!), shows to put the FT-400/401/560/570 series on 160 meters, presents a DC amplifier for use with a VSWR indicator, gives info on building an unusual form of 14-MHz beam antenna, and quotes the CORA C&E!

RADIO COMMUNICATION, Apr, is not their best issue! Tops, but still under its average, is the Technical Topics section. Slickest in it is a scheme for using a 165-ft Marconi on either 1.8 or 7 MHz with no switching or tuning.

SHORT WAVE MAGAZINE, Apr, talks of SCTV, transistor switching, a horizontal full-wave loop, and VHF measurements by Lecher wires. Plus, of course, its superb Communications and DX News section.

RADIO-ELECTRONICS, Jun, is saved from being a zero by a fascinating article on some early experiments by Tesla, experiments just now being explored for possible duplication.

AMATEUR RADIO, Mar, describes two VXOs, a frequency synthesizer for 144 MHz, and a solid state transverter for 144 MHz. Lots of other interesting reading, too.

WORLDRADIO NEWS, May, has, in addition to regular news, much information passed on by FOC officials at amateur gatherings.

POPULAR ELECTRONICS, Jun, shows plans for a diode checker and expounds on applications for the TTL NAND gate.

IEEE Spectrum, May, reviews the technology associated with the design of new transceivers for the Citizens Radio Service. Let's hope some of this creeps over into equipment for the Amateur Radio Service!

SHORT WAVE MAGAZINE, Mar, has building instruction for an HF converter to go ahead of a MF receiver.

WORLDRADIO NEWS, Apr, tells of the use of underground antennas on 160 m. Both W7QID and K7LFY have been using them with good results.

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PHIL FRANKS, WB5PVL, IS THE NEW NET CONTROL STATION FOR THE 0LZ NET, SUNDAY. WE ARE PLEASED TO HAVE PHIL HELPING US OUT!

THE 0LZ NET HAD 197 CHECK-INS IN APRIL AND HANDLED 77 MESSAGES.

ALL NET CONTROL STATIONS WERE RECOMMENDED FOR OFFICIAL RELAY STATION APPOINTMENTS. W5FW, WB5NKD AND WB5PVL ALREADY HAVE THIS RECOGNITION. THE NEW STATIONS SCHEDULED FOR ORS ARE, MIKE, WB5HQX, CHAS, WA5JGU AND BILL, WB5NXO. HOPE YOU RECEIVE YOUR APPOINTMENTS IN THE NEAR FUTURE. DICK, WB5KVQ WAS ALSO RECOMMENDED. DICK IS FROM TULSA

STATIONS CHECKING INTO THE NET IN APRIL WERE AS FOLLOWS:

| | |
|----------------------------|------------------------------|
| W5ADC . . . REEDY . . . 22 | WB5NKC . . . ARLEY . . . 1 |
| W5BYC . . . ED . . . 3 | WB5NKD . . . PAT . . . 27 |
| WB5EAY . . . FAY . . . 14 | WB5NXO . . . BILL . . . 27 |
| WB5EEY . . . PAUL . . . 2 | WA5OGC . . . OLIVER . . . 15 |
| W5FW . . . DICK . . . 4 | WB5OYU . . . TED . . . 3 |
| WB5HQX . . . MIKE . . . 4 | WB5PVL . . . PHIL . . . 13 |
| WA5JGU . . . CHAS . . . 11 | W5EIU . . . LARRY . . . 1 |
| K5JOA . . . DON . . . 4 | W5YZA . . . RUSS . . . 1 |
| WB5KVQ . . . DICK . . . 17 | WB5KGU . . . ? ? ? . . . 1 |
| K5CCX . . . BILL . . . 2 | W5RB . . . GIL . . . 25 |

WHEN CHECKING INTO A CW NET, STATIONS SHOULD CHECK IN IN THIS ORDER: 1ST., STATIONS WITH TRAFFIC. 2ND., STATIONS FROM LOCATIONS FOR WHICH TRAFFIC WAS LISTED AND FINALLY STATIONS WITHOUT TRAFFIC. THIS PROCEDURE WILL HELP TO GET TRAFFIC MOVING RAPIDLY.

STATES REPORTING INTO THE FIFTH REGION NET, RN5 ARE AS FOLLOWS:

ALABAMA, ARKANSAS, LOUISIANA, MISSISSIPPI, OKLAHOMA, TENNESSEE, TEXAS AND WESTERN FLORIDA. FLORIDA ACTUALLY REPORTS INTO THE 4TH REGION NET BUT ALSO SENDS A REPRESENTATIVE TO THE FIFTH REGION NET AS THIS SAVES A DAY IN EASTBOUND TRAFFIC FOR FLORIDA.

THE FIFTH REGION, NINTH REGION AND TENTH REGIONS CHECK INTO THE CENTRAL AREA NET. THE CANADIAN PROVINCES OF MANITOBA AND SASKATCHEWAN CHECK INTO THE TENTH REGION NET.

THE 0LZ NET MEETS DAILY AT 8:00 PM (0000 UT) ON 3382 KHZ ,READY FOR TRAFFIC. HOPE TO HEAR YOU CHECK-IN IN THE NEAR FUTURE!

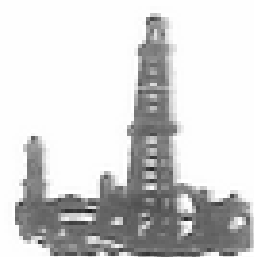
Harold A. Gilbertson
H A (GIL) GILBERTSON W5RB
RM, ORS, NET MANAGER

DEAR CORA:

I have recently built a new workbench in my garage and have equip- it with the following test equipment: Boonton VHF signal generator, RCA VT-VOM, Panalyzer SB-12A spectrum analyzer, Measurements HF signal generator, Bird wattmeter, HP 201C Audio osc, Dummy load (0-80W), HP 410B VTVM, HP 412A DC VTVM, Heath Audio VTVM, Heath Audio analyzer (lab), 12v Regulated power supply, Heath signal tracer (lab), 2 VOMs, Tektronix 515A scope, Darcy 330 Digital multimeter, Heath frequency counter, Ballantine 300 AC VTVM, plenty of test leads and cables.

I have been considering opening the shop to area amateurs, by appointment, (since I travel) for a nominal fee. They could then come in and work on electronics equipment or projects and have all the necessary equipment at hand. Also I have considered having a reputable technician do repair work for busy hams that do not have the time to do it themselves.

This of course all depends on the interest of the area amateurs, and the only way I'll know is for you to call. Please call anytime on weekends or after 6:30 Mondat thru Thursday. (Till things get organ- ized). Jerry Presley, W5TZG, Phone 354-6854 or 354-5929.



MID-OKLAHOMA REPEATER INC.

The LONG Wire

h. o. townsend, WA5MLT
President MORI

Through the years, Amateurs and would be Amateurs have been debating which of the various modes of transmission available to us are better than the next. Regardless of your personal preference, the apparent communications blackout that occurred the last day or so of March on HF has caused me to take a second look at one particular mode, CW.

My own opinion of CW over the years has largely been one of an appreciation of those who have really mastered the skill. Those who think nothing of leaning back with pipe, a cup of coffee and carry on for hours with bug or so in hand. Of course, it is a basic requirement for all of us to learn the code to some degree of understanding and speed proficiency.

Exposure to the Morse Code for me dates back to the early fifties and Cub Scouts. I suppose to some degree, I learned the alphabet by writing secret messages during my fifth class to a friend of mine about the teacher all in code. My interest has surfaced several times, once when I obtained my Novice license in 1965 and again last year while upgrading.

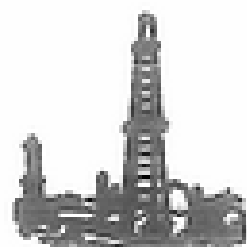
The point is, CW is a real asset to the Amateur Radio Operator. This was truly pointed out to all of us during the last week of March. Activity on Amateur bands during this time was really frightening. Seemingly, all communications had stopped. Some phone stations were operating, but very few. It was as if everyone's antenna had malfunctioned at once. A very empty feeling. Yet, as I tuned the CW portion of the bands, I did hear some stations' passing traffic. The whole incident was a reawakening for me and for two reasons. One very startling thought was, "what if something like this were to happen when we really had to depend on our type of communication" and the other was "what one force could effect our communications so much."

Certainly the answer is obvious to the first thought. If during an emergency our communications were such that phone operation was not getting the job done, we could change to CW. Which to me makes it a real asset to have.

The second thought I had may be explained by an atmospheric condition commonly known to us as an aurora. The text books say that an aurora consists of sheets, streams, or streaks of pale light often seen in northern (Borealis) or southern (Australis) hemispheres. This pale light is said to contain a certain amount of magnetic particles which form a type of cloud. Whatever the explanation, I hope it will be a while before we observe another communications blackout.

Our June meeting will be held on the 8th at the EOC at 8:00 p.m. We will have a representative from the Bell Telephone Company presenting the program and giving us some insights to new innovations in communications.

Hamholiday is just around the corner. Be planning to attend. Invite guests and get your registration in early!



MID-OKLAHOMA REPEATOR INC.

The LONG Wire

The ARRL National Convention is being held in Denver this year. The schedule looks very inviting. The XYL, harmonics, and I will be in that area on vacation during that time I think, we may try to make it. The convention is the 16, 17, and 18th of July.

I hope to see you at this months meeting, until then 73's.

* * * * *

Samuel F. B. Morse

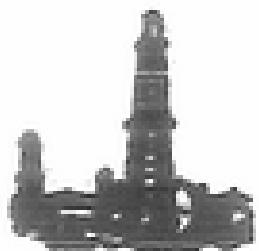
Samuel Morse was one of the most respected American painters of his day and also famous as the inventor of the electric telegraph. Born on April 27, 1791, in Charlestown, Massachusetts. From Phillips Academy, Andover, where he had been an unsteady and eccentric student, his parents sent him to Yale College. Although an indifferent scholar, his interest was aroused by lectures on the then-little-understood subject of electricity. To the distress of his austere parents, he also enjoyed painting miniature portraits.

After graduating from Yale in 1810, Morse became a clerk for a Boston book publisher. But painting continued to be his main interest, and in 1811 his parents helped him to go to England to study painting. During the war of 1812, between Great Britain and the United States, Morse reacted to the English contempt for Americans by becoming passionately pro-American.

But when, on his return home in 1815, Morse found that Americans did not appreciate his historical canvases, he reluctantly took up portraiture again to earn a living. He began as an itinerant painter in New England, New York, and South Carolina; after 1825, on settling in New York City, he painted some of the finest portraits ever done by an American artist. He combined technical competence and a bold rendering of his subjects' character with a touch of the Romanticism he had imbibed in England.

Although often poor during those early years, Morse was sociable and at home with intellectuals, the wealthy, the regligiously orthodox, and the politically conservative. In addition, he possessed the gift of friendship. Among his friends in his middle years were the French hero of the American Revolution, the Marquis de Lafayette, whose attempts to promote liberal reform in Europe Morse ardently endorsed, and the novelist James Fenimore Cooper. Morse and Cooper shared several traits: both were ardent American republicans, though both had aristocratic social tastes, and both suffered from American preference for European art.

Morse also had the gift of leadership. As part of a campaign against the licentiousness of the theatre, he helped launch, in 1827, the New York JOURNAL OF COMMERCE, which refused theatre advertisements. He also was a founder of the National Academy of Design, organized to increase American respect for painters, and was its first president from 1826 to 1845.



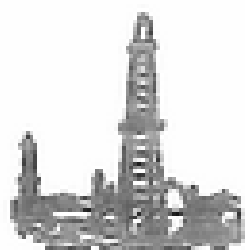
MID-OKLAHOMA REPEATOR INC.

In 1832, while returning by ship from studying art in Europe, Morse conceived the idea of an electric telegraph as the result of hearing a conversation about the newly discovered electromagnet. Although the idea of an electric telegraph had been put forward before 1800, Morse believed that his was the first proposal. He probably made his first working model by 1835. Meanwhile, he was still devoting most of his time to painting, teaching art at the University of the City of New York (later New York University), and to politics. But, by 1837, he turned his full attention to the new invention. A colleague at the university showed him a detailed description of an alternative model proposed in 1831, and a friend offered to provide materials and labour to build models in his family's ironworks. These two became partners in Morse's telegraph rights. By 1838 he had developed the system of dots and dashes that became known throughout the world as the Morse Code. In 1838, while unsuccessfully attempting to interest Congress in building a telegraph line, he acquired a congressman as an additional partner. After failing to organize the construction of a Morse line in Europe, Morse was finally able to obtain, without his partners' cooperation, financial support from Congress for the first telegraph line in the United States, from Baltimore to Washington. The next year he sent the first message, "What hath God wrought!"

Morse was immediately involved in legal claims by his partners and by rival inventors. He fought vigorously in this dispute as he had in controversies about art, religion, politics, and even over the new invention of the daguerreotype, an early photographic process, of which he had been one of the first practitioners in America. A series of legal battles culminating in a United States Supreme Court decision established his patent rights in 1854. As telegraph lines lengthened on both sides of the Atlantic, his wealth and fame increased.

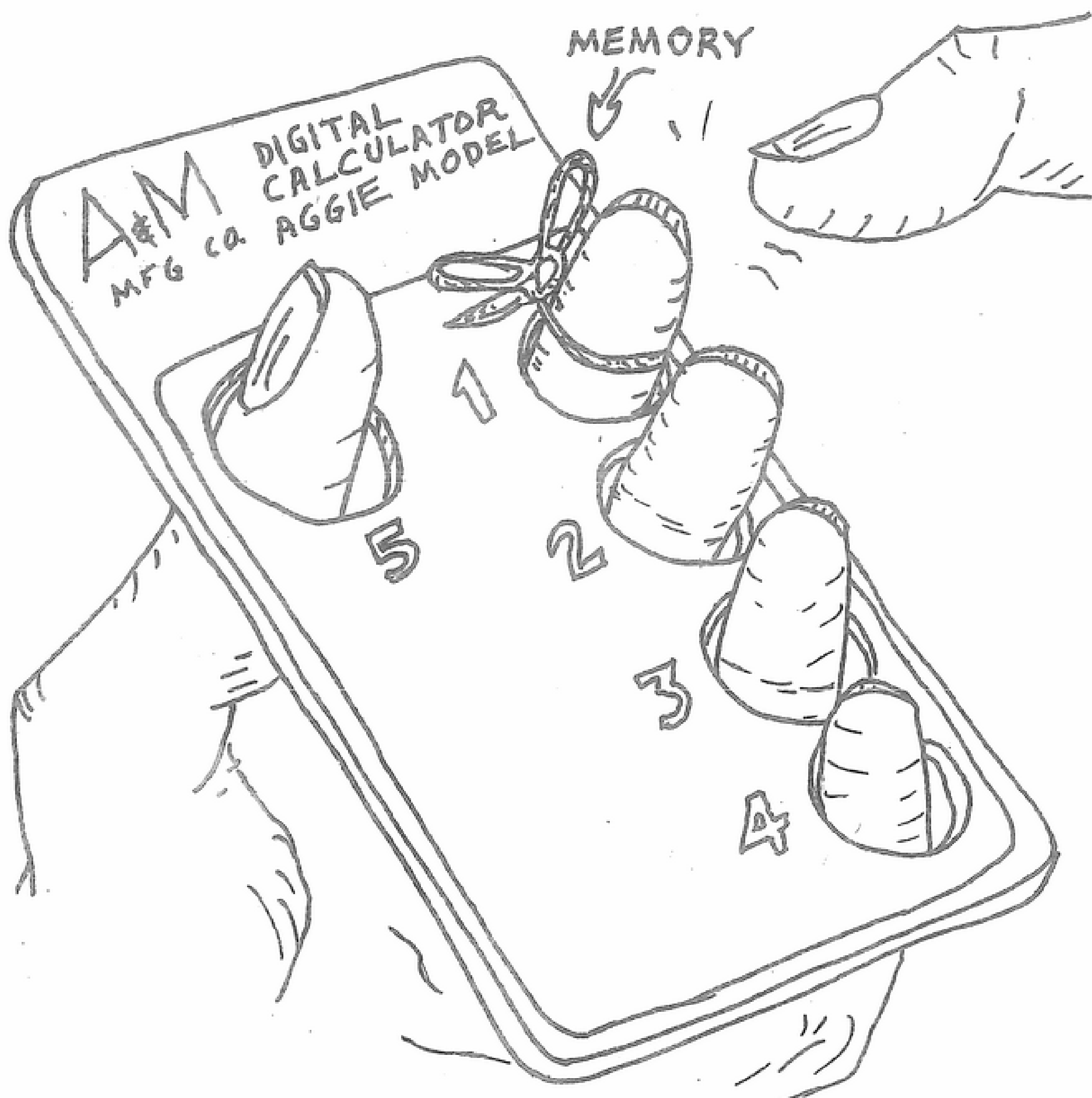
In his old age, a patriarch with a flowing beard, Morse became a philanthropist. He gave generously to Vassar College, of which he was a founder and trustee; to his alma mater, Yale College; and to churches, theological seminaries, Bible societies, mission societies, temperance societies, as well as to poor artists.

Even during Morse's own lifetime, the world was much changed by the telegraph. After his death, his fame as the inventor of the telegraph was obscured by the invention of the telephone, radio, and television, while his reputation as an artist has grown. At one time he did not wish to be remembered as a portrait painter, but his powerful and sensitive portraits, among them those of Lafayette, the American writer William Cullen Bryant, and other prominent men, have been represented in special exhibitions at museums in many parts of the country. The number of Morse telegraphic operators has decreased sharply, but his memory is perpetuated by the Morse Telegraph Club, which was organized in 1942 as an American and Canadian association of former telegraphers. His 1837 telegraph instrument is preserved by the United States National Museum of History and Technology in Washington, D.C., while his estate, Locust Grove, now designated as a historic landmark, has been willed to the federal government as a Morse memorial. Morse died on April 2, 1872, in New York City.



MID-OKLAHOMA REPEATOR INC.

5-FUNCTION DIGITAL CALCULATOR WITH MEMORY



Send check or money order to: R. Off, PO Box 1234, Austin, Texas. Just a dollar two ninety eight.

MORI MEETING will be 8 PM Tuesday, June 8 at the EOC, 4600 N. Eastern

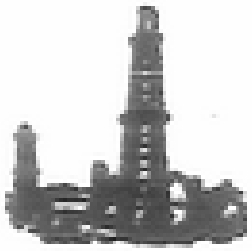
COMING EVENTS

●NO KIDDING

June 12, 13. Overholser camp-out and picnic.
June 26, 27. Field Day
August 7, 8. Ham Holiday

YOU GET "DOWN" TO WORK

No one lives on top of the mountain. It's fine to go there occasionally for inspiration, for new perspectives, for greater vision, and for just plain peace and quiet. But we all sometimes have to come back down to the valley. Life is lived here. The mountain is for dreaming while the valley is for working. That's where the farms and gardens and orchards are, where the plowing and the labor are done. That's where you apply the visions you have glimpsed from the peaks. - Gregg Sublic from CHEER. (P. S. But the repeaters are on the mountains - - Ed.)



MID-OKLAHOMA REPEATER INC.

FROM THE SECRETARY'S PEN

The meeting for May was held at Tinker Field on the 6th of May at the 3rd Mobile Communications group. We were invited to take a tour through the radar center and get an idea from them what kind of help they can give a plane even in zero visibility in the way of radar guidance to the runways.

There were only five members at this meeting. The rest of the people were from their own group of families. This was very disappointing to Chet, W5GDL after all the work he put out to get the tour set up.

Even at this, the ones who attended had a good time. Even my XYL and kids had a pretty good time watching the radars working.

Not much else going on this month. Hope to be seeing a lot of you on the next meeting nite at our regular meeting place and time. We have been missing a lot of you who haven't been coming.

I have been asked to give the report of our money situation. For the time being we have \$624.81 in the bank to take care of any business that might come up. And we are still looking for our new receiver to come in any day now.

Summer is coming up so we will be looking for some new faces at the mid-year's meetings and hearing you on the air.

73's for now, John Huckaby, Secretary, K 5 Q D R

HOW TO GET HELP

WOULD YOU BELIEVE that there are amateurs who monitor various repeaters, one of their objectives being to intercept calls from mobile stations seeking information and assistance? I do this occasionally during the daytime. Other home based amateurs monitor for this purpose also, judging from their responses. My observations over the last ten months convince me that a lot of mobile operators are missing contacts. Some suggestions are given below that are offered to help you complete your calls to fixed stations for information and assistance.

1. ALLOW A LITTLE MORE TIME FOR US TO RESPOND. Home-based operators are busy with other activities and can't respond as fast as a mobile can. I can monitor all over the house when I switch my receiver to the speakers that were originally installed for music distribution. See C&E for Oct. '75, Page 12. Often, I have heard some request, headed toward the rig, and get no response when I answer a few seconds later.

2. REPEAT YOUR CALL IN A FEW SECONDS. Noise sufficient to drown out a 2-meter receiver is generated occasionally by those who monitor at home, shop or office. I will be stirring up some racket and hear a repeater call through the din. I stop the noise and listen briefly. Hearing nothing from the repeater, I return to my work, wondering if that was an important call.

3. When needing information or assistance, STATE YOUR REQUEST SPECIFICALLY. This makes it easier to monitor, because an operator can mentally tune out chit-chat, but be alert for words like "landline", "accident" and "traffic light". Quite often I have heard calls made in such an indirect manner that half a dozen transmissions are made before it is revealed that assistance was needed. Some, in my opinion, were emergencies. Be specific on the first call.

You can help get your call through if you will allow a little time, repeat when warranted and state your need clearly. Stay with the repeater for a brief time, even if someone else initiates an unrelated call. I for one will break in if I hear an uncompleted call for help. It's been said that many 2-meter amateurs will not respond to assistance calls or calls from strangers. This is OK. It's what they want to do. However, many do respond to calls for assistance.

Bill, WA5RAQ



SPECIAL EXTRA CALL SIGNS. DOCKET 20092

THE FEDERAL COMMUNICATION COMMISSION HAS AMENDED ITS RULES TO MAKE SPECIAL CALL SIGNS AVAILABLE TO STATIONS LICENSED TO AMATEUR EXTRA CLASS OPERATORS.

IN A NOTICE OF PROPOSED RULEMAKING RELEASED JULY 2, 1974 THE COMMISSION PROPOSED AMENDMENT OF THE APPLICABLE SECTIONS OF PART 97 TO MAKE ANY AMATEUR EXTRA CLASS LICENSEE ELIGIBLE TO APPLY FOR AND RECEIVE ANY AVAILABLE STATION CALL SIGN OF HIS CHOICE.

THE CALL SIGNS WOULD INCLUDE 1X2 (SINGLE LETTER PREFIX, THREE LETTER SUFFIX) AND 2X3 (TWO LETTER PREFIX AND THREE LETTER SUFFIX) FORMATS, CONSISTENT WITH THE NUMERAL DESIGNATED FOR THE GEOGRAPHICAL AREA.

IT ALSO PROPOSED TO DISCONTINUE THE AVAILABILITY ON "IN MEMORIAM" CALL SIGNS - CALL SIGNS REQUESTED BY AMATEUR CLUB STATIONS TO HONOR A DECEASED MEMBER.

THE COMMISSION SAID THIS FIRST REPORT AND ORDER WOULD ADDRESS ONLY THE ISSUES OF 1X2 CALL SIGNS AND "IN MEMORIAM" CALL SIGNS. IT SAID THE 1X3 AND 2X3 CALL SIGNS WOULD BE CONSIDERED IN A LATER REPORT AND ORDER.

IT POINTED OUT THAT THE OVERWHELMING MAJORITY OF COMMENTS RECEIVED IN THIS MATTER SUPPORTED THE PROPOSAL REGARDING CHOICE OF SPECIFIC CALL SIGNS BY AMATEUR EXTRA LICENSEES.

ACTOPM BY THE COMMISSION APRIL 14, 1976 BY FIRST REPORT AND ORDER. COMMISSIONERS WILEY (CHAIRMAN), LEE, REID, HOOKS, QUELLO, WASHBURN AND ROBINSON.

WOULD YOU BELIEVE?

THAT THE NEXT 11 YEAR SOLAR CYCLE OF ACTIVITY IS BEGINING?

THAT THE SUN SPOTS ARE APPEARING WITH MAGNETIC POLARITY OPPOSITE TO THE CURRENT CYCLES?

THAT THE GRADUAL TRANSITION TO THE NEW CYCLE BEGAN ABOUT 1975?

THAT THE NEXT PEAK IS PROJECTED AROUND 1980?

THAT THE MAGNETIC FIELDS WITHIN THE SUN USUALLY DEVELOP IN PAIRS OF OPPOSITE POLARITY?

THAT WHEN THE EASTERN SPOT OF A PAIR IN THE SUN'S NORTHERN HEMISPHERE SHOWS "NORTHERN" POLARITY, THE WESTERN SPOT OF THE PAIR SHOWS "SOUTH" MAGNETICALLY?

THAT THE LAST SHIFT STARTED IN 1971?

THAT FOR ABOUT A YEAR BOTH POLES HAD THE SAME MAGNETIC POLARITY?

IN 1971 THE SOUTH POLE SWITCHED TO BECOME OPPOSITE IN POLARITY TO THE NORTH POLE.

SO GET READY TO SWING YOUR DX DIAL OF FORTUNE



A NEWS BRIEF ABOUT MARS USING ARMY MARS AS AN EXAMPLE.
WHAT IS MARS?

THE MILITARY AFFILIATE RADIO SYSTEM IS AN ORGANIZATION OF FEDERAL COMMUNICATIONS COMMISSION LICENSED AMATEUR RADIO OPERATORS WORKING WITH MILITARY STATIONS, WHO ARE INTERESTED IN MILITARY COMMUNICATIONS AND ELECTRONICS. MARS CREATES INTEREST AND FURNISHES A MEANS OF TRAINING MEMBERS IN MILITARY COMMUNICATIONS PROCEDURES. IT PROVIDES A POTENTIAL RESERVE OF TRAINED RADIO COMMUNICATIONS PERSONNEL TO PROVIDE AUXILIARY COMMUNICATIONS FOR MILITARY, CIVIL AND DISASTER OFFICIALS DURING PERIODS OF EMERGENCY COMMUNICATIONS ON A LOCAL, NATIONAL AND INTERNATIONAL BASIS AS AN ADJUNCT TO NORMAL COMMUNICATIONS. MARS PROVIDES A VOLUNTEER MANNED COMMUNICATIONS SYSTEM FOR HANDLING MARS ADMINISTRATIVE TRAFFIC, MORALE AND QUASI-OFFICIAL RECORD AND VOICE COMMUNICATIONS TRAFFIC FOR U.S. ARMED FORCES AND AUTHORIZED U.S. GOVERNMENT CIVILIAN PERSONNEL STATIONED THROUGHOUT THE WORLD. FINALLY, IT OFFERS TRAINING DESIGNED TO STIMULATE INTEREST IN MILITARY COMMUNICATIONS AND ELECTRONICS CAREER FIELDS.

MARS IS "OFFICIAL"

THE MILITARY AFFILIATE RADIO SYSTEM IS AN OFFICIAL DEPT. OF THE DEFENSE AND DEPARTMENT OF THE ARMY SPONSORED COMMUNICATIONS SYSTEM. THEREFORE, IT HAS OFFICIAL STATUS, IS ASSIGNED MISSIONS AND FUNCTIONS AND AUTHORIZED THE USE OF ASSIGNED MILITARY RADIO FREQUENCIES.

ARMY MARS IS DIRECTED AND MANAGED BY THE DEPT OF ARMY THROUGH THE US ARMY COMMUNICATIONS COMMAND AND MAJOR ARMY COMMANDS WORLDWIDE. IT IS COMPRISED OF BOTH MILITARY AND CIVILIAN PERSONNEL. IN FACT, THE MAJORITY ARE CIVILIAN VOLUNTEERS EACH VOLUNTEER ARMY MARS MEMBER IS REQUIRED TO HOLD A VALID AMATEUR RADIO LICENSE FROM THE FCC. THESE VOLUNTEERS ARE UNDER NO SERVICE OBLIGATION, BUT MUST MEET A 12 HOUR PER CALENDAR QUARTER MINIMUM PARTICIPATION REQUIREMENT. A VOLUNTEER MAY RESIGN FROM ARMY MARS AT ANY TIME WITHOUT DIFFICULTY OR PREJUDICE BY SIMPLY SUBMITTING A WRITTEN RESIGNATION.

MARS HISTORY:

FIFTY YEARS AGO, IN NOVEMBER 1925, THE ARMY AMATEUR RADIO SYSTEM WAS INITIATED BY A FEW DEDICATED PIONEERS IN THE UNITED STATES ARMY SIGNAL CORPS. THIS ORGANIZATION CONTINUED UNTIL THE UNITED STATES ENTRY INTO WORLD WAR II, AT WHICH TIME RADIO AMATEURS WERE DENIED THE USE OF THE AIR. THEREFORE, THE ACTIVITIES AARS, AS IT IS KNOWN, WERE SUSPENDED UNTIL 1946, WHEN ONCE AGAIN ARMY AMATEUR RADIO WAS ALLOWED TO GO BACK ON THE AIR.

DURING THE YEARS 1925 TO 1942, THE AARS FUNCTIONED MORE OR LESS AS AN EXTRA CURRICULAR ACTIVITY OF THE US ARMY SIGNAL CORPS, ITS SCOPE BEING NECESSARILY LIMITED BY THE MEAGER BUDGET OF THE PRE WORLD WAR II DEPRESSION YEARS. THE BEST AVAILABLE FIGURES INDICATE THAT AS OF 7 DECEMBER 1941, THERE WERE APPROXIMATELY 60,000 LICENSED AMATEURS WITHIN THE UNITED STATES AND ITS POSSESSIONS. SOME 5,600 OF THOSE AMATEURS WERE MEMBERS OF THE ARMY AMATEUR RADIO SYSTEM. ABOUT 20% OF THE PRE WORLD WAR II AARS MEMBERS EVENTUALLY REACHED THE SERVICE OF THEIR COUNTRY, EITHER IN THE ARMY OR IN A CIVILIAN CAPACITY. SOME MEMBERS WENT ON ACTIVE DUTY WITH THE NAVY BY VIRTUE OF THEIR BEING IN THE US NAVAL RESERVE. THE US ARMY RECOGNIZED THE GREAT IMPORTANCE OF REACTIVATING THE AARS TO TRAIN VITALLY NEEDED COMMUNICATIONS PERSONNEL AT A RELATIVELY INEXPENSIVE DIRECT COST TO THE US GOVERNMENT; THEREFORE IN 1946, THE ARMY AMATEUR RADIO SYSTEM WAS REACTIVATED AND FUNCTIONED AS SUCH UNTIL THE CREATION OF THE MARS IN 1948. (continued next pg)



(CONTINUED FROM PAGE PRECEDING) WHAT IS MARS?

ORIGINALLY, MARS WAS AVAILABLE IN THE US ARMY AND US AIR FORCE, BUT IN EARLY 1963 THE US NAVY AND US MARINE CORPS ALSO ESTABLISHED MARS IN THEIR SERVICES. MARS HAS GROWN IN ALL OF THE SERVICES THROUGHOUT THE WORLD AS WE NOW HAVE OVER 14,000 VOLUNTEER MEMBERS. WE RELY ON OUR CIVILIAN AND MILITARY SERVICES OF MARS MEMBERS TO BE AVAILABLE IN CASE OF EMERGENCY OR DISASTER TO PROVIDE COMMUNICATIONS SUPPORT. THE MILITARY SERVICES HAVE NEVER HAD ADEQUATE COMMUNICATIONS RESOURCES TO FULFILL ALL OF OUR REQUIREMENTS; THEREFORE, THEY NEED ALL OF THE SUPPORT MARS CAN PROVIDE. AMATEUR RADIO HAS MADE ITS MARK IN AMERICAN HISTORY. EACH YEAR PROVIDES NEW EVIDENCE OF THE IMPORTANT ROLE AMATEUR RADIO PLAYS IN THE SERVICE OF THE NATION.

WHAT ARE THE BENIFITS OF MARS?

- *ADD TO THE ENJOYMENT OF YOUR AMATEUR RADIO HOBBY THROUGH THE EXPANDED HORIZION OF MARS.
- *BECOME PART OF THE MARS WORLD WIDE COMMUNICATIONS SYSTEM IN BEING OPERATIONALLY READY. THERE ARE MARS STATIONS IN JAPAN, KOREA, TAIWAN, OKINAWA, THILAND, HAWAII, ALSKA, CANAL ZONE, THE VIRGIN ISLANDS, PUERTO RICO, GERMANY, ABOUT ALL AIR BASES, AND NAVY SHIPS.
- *INCREASE YOUR COMMUNICATIONS SKILLS AND CAPABILITIES. LEARN MORE ABOUT YOUR AVOCATION. EXTENSION COURSES IN COMMUNICATIONS ELECTRONICS SUBJECTS ARE FREE TO ALL MARS MEMBERS.
- *OPERATE AND EXPERIMENT ON SPECIALLY ASSIGNED MILITARY RADIO FREQUENCIES IN VOICE, TELETYPE AND CW MODES OF COMMUNICATIONS.
- *JOIN A GROUP OF DEDICATED FELLOW RADIO AMATEURS PARTICIPATING IN MEANINGFUL PUBLIC SERVICE.
- *AFFILIATE WITH THE UNITED STATES MILITARY AND BECOME PART OF THE PROFESSIONAL MILITARY COMMUNICATIONS FAMILY.

MARS A TRI SERVICE PROGRAM.

THE MILITARY AFFILIATE RADIO SYSTEM, WHILE BEING A DEPT OF DEFENSE DIRECTED PROGRAM, IS ESTABLISHED AS SERVICE MANAGED AND OPERATED PROGRAMS, THUS WE HAVE ARMY, NAVY, MARINE CORPS AND AIR FORCE MARS PROGRAMS. RADIO AMATEURS WITH FORMER MILITARY SERVICE TIES WIL PROBABLY JOIN THE SERVICE THEY ARE MOST FAMILAR WITH OR PARTIAL TO. USUALLY AROUND ARMY, NAVY MARINE CORPS AND AIR FORCE INSTALLATIONS A STRONG MARS PROGRAM EXISTS. THE SAME IS TRUE IN MANY OF OUR LARGER CITIES. THERE IS NO DOUBT THAT ONE OF THE SERVICES HAS A MARS PROGRAM WHICH WILL INTEREST YOU. MARS NEEDS YOU.

IF YOU WOULD BE INTERESTED IN JOINING THIS AREA ARMY MARS DISTRECT CONTACT TODD, WA5VAQ.

Roster
Of
Central Oklahoma Radio Amateur
Members

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May 1976

| | | | | |
|--------|------------------|-------------------------|-----------------|----------|
| | MIKE BUCKPITT | 2341 N W 12TH | OKLA CITY OK | - |
| | ROBERT LEDBETTER | 5208 N BILLEN | OKLA CITY OK | 842-1719 |
| | ORVILLE HALLEY | RT 2 BOX W31 | TUTTLE OK | - |
| A | ALAN JONES | 1421 OAKCREST | NORMAN OK | 364-7642 |
| A | RALPH MOULTON | 2601 ATWOOD DRIVE | NORMAN OK | 329-5602 |
| A | CHARLES MCCOWN | 226 MIMOSA DRIVE | NORMAN OK | 321-1061 |
| A | RON MILLS | 428 S SHEPPARD DRIVE | MUSTANG OK | 376-2716 |
| A | JESS MCKINZIE | 2632 TRENTON | NORMAN OK | - |
| A | JIM IMMEL | 5704 MACARTHUR BLVD N | OKLA CITY OK | 789-1138 |
| A | WILLIAM VLAMING | 11400 BLUFF CREEK DR | OKLA CITY OK | - |
| A | DONN STORCH | 5343 RAWLINGS | TINKER AFB OK | 732-3208 |
| A | FRANK HENDRICK | 4316 N STERLING | OKLA CITY OK | 789-6023 |
| A | RICHARD ZANNI | 719 SCOTT ST APT 1 | DEL CITY OK | 677-8193 |
| WSAA | RALPH REA | 2213 S W 69 | OKLA CITY OK | 685-0898 |
| WSAAR | FRANK WILDEBOOR | 1533 PECAN AVE | NORMAN OK | 364-0812 |
| WB5AAY | LARRY BUGG | 7620 N W 20 | BETHANY OK | - |
| WASACB | WAYNE HOGAN | 113 E MORNINGSIDE DRIVE | MIDWEST CITY OK | 732-1870 |
| WB5ADN | DEEDS BIGELOW | ROUTE 6 BOX 8 | EDMOND OK | 341-0556 |
| WSAEF | EUGENE HARRIS | 4301 N W 15TH | OKLA CITY OK | 946-7023 |
| WB5AGX | RICH SINCLAIR | 9901 NICHOLS ROAD | OKLA CITY OK | 528-3136 |
| WB5AGZ | MARTIN MCCORMICK | 3401 BAIRD DRIVE | EDMOND OK | 341-2620 |
| K5AHU | BOB LUTZ | 4000 W LIBERTY | OKLA CITY OK | 942-3077 |
| WSAIC | DENZIL CRIST | BOX 6 | GEARY OK | 965-2641 |
| WSAIP | FORD MICHAEL | 833 S FLOOD | NORMAN OK | 321-4301 |
| K5AJW | MAURICE HOLDING | 2736 S W 53 | OKLA CITY OK | 685-3803 |
| K5AMI | CLARK MARLER | 4820 BYPASS TERRACE | OKLA CITY OK | 681-7229 |
| WB5ANA | STEVE RICHERT | 5212 S E 46 | OKLA CITY OK | 672-0453 |
| K5AOT | ROBERT CARLILE | 117 E MARSHALL | MIDWEST CITY OK | 737-8469 |
| WA4AQW | CARL FREEMAN | 4833 ERIC DR | OKLA CITY OK | 672-5766 |
| W6ATC | HARRY GARTSMAN | 9921 SUNSET BLVD | BEVERLY HILL CA | - |
| WSATO | RAYMOND WILLIS | 401 N MAIN ST | GRANITE OK | 539-2184 |

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|--------|------------------|-----------------------|-----------------|----------|
| W5AVK | JOHN NELSON | 2001 TEXAS ST | NORMAN OK | 321-8566 |
| K5AWD | WILLIAM F JONES | 5021 BUDDY LANE S | OKLA CITY OK | 685-9842 |
| WB6AWM | C J APPEL USCGD | 14/ECE/ 677 ALA MOANA | HONOLULU HI | - |
| K5AYL | ROBERT LYON | 4409 WOFFORD ROAD | DEL CITY OK | 677-7200 |
| W5AYO | HORACE MARRINAN | 312 WILDWOOD TERRACE | OKLA CITY OK | 842-8959 |
| WB5BCR | JIM WORTHY | 5935 N W 43RD | OKLA CITY OK | 789-6954 |
| WB5BCZ | BRUCE STEVENS | 437 E MOHR LANE | MUSTANG OK | 376-2501 |
| WA4BDY | RON HATTON | 8513 E RENO APT 9 | MIDWEST CITY OK | 733-2040 |
| K5BJJ | CLARENCE ENG | 7900 N W 14 | OKLA CITY OK | 787-0060 |
| W5BKN | ELMER FIELDS | 3811 N LINDA | OKLA CITY OK | 943-4979 |
| WA5BNZ | ROBERT MADOLE | 2640 S W 57TH | OKLA CITY OK | 685-9659 |
| WB5BRX | JIM SNOW | 1908 SHEFFIELD ROAD | OKLA CITY OK | 848-2946 |
| WB5BTT | RAY PETERS | 208 N JACKSON | MIDWEST CITY OK | 732-6498 |
| W5BUX | GEORGE STEED | 2309 W 37 | PINE BLUFF AR | - |
| K5CBA | PRESTON GEORGE | 1812 S RANKIN | EDMOND OK | 341-0751 |
| W5CBX | REX PROCTOR | 9105 E RENO | MIDWEST CITY OK | 732-2387 |
| W5CDG | PAUL KOVAR | ROUTE 1 BOX 108 | CHOCTAW OK | 769-2828 |
| W5CEP | CARL STEPHENSON | 9 RED ROCK ROAD | SHAWNEE OK | 273-1336 |
| K5CFM | ANTHONY MERRITT | 11417 GREYSTONE | OKLA CITY OK | 755-0820 |
| W5CGH | RUSSELL JOHNSON | 10317 N MCKINLEY | OKLA CITY OK | - |
| W5CHE | H C FORD | P O BOX 296 | GRANITE OK | 539-4710 |
| WA5CJG | ROBERT L PACE | 3016 S W 64 ST | OKLA CITY OK | 681-4455 |
| WB5CPA | CLYDE WARD | BOX 117 | WASHINGTON OK | 527-6180 |
| WB5CRX | DAVID GIBSON | 103 W VIDA WAY | NORMAN OK | 321-3985 |
| WB5CTS | STEVE HUTCHERSON | P O BOX 20216 | OKLA CITY OK | 787-5968 |
| WA5CWB | LARRY DILLARD | 2624 S W 69 | OKLA CITY OK | 685-4065 |
| WA5CZN | DOC GOODHEAD | 5004 N BEAVER | BETHANY OK | 787-6013 |
| K5CZU | JOHN HAYNIE | 5 PINEBROOK ROAD | GUTHRIE OK | - |
| WA5DGL | P K READ | 1401 N TUCKER | SHAWNEE OK | 273-1598 |
| WB5DJQ | CARL LESLEY | BOX 202 RT 2 | HARRAH OK | - |
| KP4DJT | CHUCK HAST | 443 WEST BOYD APT 1 | NORMAN OK | 364-6551 |

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|--------|------------------|------------------------|-----------------|----------|
| W5DNG | JULIUS BURTCCHI | 1628 CHICKASHA AVE | CHICKASHA OK | - |
| WA5DTL | KEN GODDARD | 1021 N TABOR DRIVE | OKLA CITY OK | 946-4973 |
| WB5DUC | LARRY MARKS | 2008 MILL CREEK ROAD | EDMOND OK | - |
| W5DVY | JAMES HARMON | 3224 N RIDGEWOOD | MIDWEST CITY OK | 732-6303 |
| K5DZV | TRAVIS HARRIS | 3840 N W 31 ST | OKLA CITY OK | 942-3797 |
| WA5EAI | RON CRON | 2428 S W 46 | OKLA CITY OK | 681-0896 |
| WB5EBX | FRANKLIN CARTER | RT 2 BOX 338 | CHOCTAW OK | 627-3394 |
| WB5ECJ | KEN KENDRICK | BOX 20567 | OKLA CITY OK | 751-4917 |
| WB5EEY | PAUL THOMPSON | 701 CHAUTAUGUA | NORMAN OK | - |
| WA5EEZ | ROBERT L ROGERS | RT 2 BOX 366 | TUTTLE OK | - |
| W9EGG | HERB BRIER | 409 S 14 | CHESTERTON IN | - |
| WB6EGU | WALTER HART | 956 PEBBLESHIRE ROAD | GLENDALE CA | - |
| W5EHR | N P JESSUP | RT 1 BOX L50 | PIEDMONT OK | 373-2408 |
| W5EJ | L F HEITHHECKER | 1409 COOPER DRIVE | IRVING TX | - |
| WA5EJU | C T SHEFF | BOX 233 | NICOMA PARK OK | - |
| WB5ELG | DOROTHY DIRIKSEN | 2201 S W 49TH | OKLA CITY OK | 681-3707 |
| K5ELL | MERWIN ADLER | 314 SUNNYSIDE | EDMOND OK | 341-5605 |
| WB5EMI | JIM TRUELOVE | 2345 W KATHLEEN | PHOENIX AZ | - |
| W5EMP | JOSEPH CARTER | 7021 N W 48 | BETHANY OK | 789-5512 |
| K5ENL | ED BLOCK | RT 4 BOX 127 | GRANDVIEW TX | - |
| W5EOD | HUGH REYNOLDS | RT 2 BOX 103H | NORMAN OK | 329-3861 |
| WB5EOL | JIMMY DENMAN | 7705 S CHARLOTTE DR | OKLA CITY OK | 681-6048 |
| WA5EPK | MICHAEL C SALEM | 1324 LINCOLN | NORMAN OK | 321-5453 |
| WB5ERN | RANDY MULLINAX | 111 LARRY ROAD | SHAWNEE OK | 275-2994 |
| WA5ETV | GARY L MCCORMICK | 5012 N W 25 | OKLA CITY OK | 946-2898 |
| WB5EVO | PAUL C ADAMS | 1105 NORTHGATE TERRACE | EDMOND OK | 751-5996 |
| WA5EYZ | LEROY SCHULTZ | 4509 S E 20TH | DEL CITY OK | 677-2216 |
| WA5FFG | CHARLES YORK | 3700 N W 64TH | OKLA CITY OK | 842-3918 |
| WA5FFK | DON MOORE | 6602 N W 30TH TERRACE | BETHANY OK | 787-5189 |
| WB5FJI | JAY REID | RFD 10 BOX 248 | MOORE OK | 794-4733 |
| WA5FLT | JOE GARLAND | BOX 204 | CALUMET OK | 354-8286 |

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|--------|-------------------|-----------------------|-----------------|----------|
| W5FMX | T VAN WOODY | P O BOX 12725 | OKLA CITY OK | 942-2831 |
| WA5FSN | LEONARD HOLLAR | 710 S 10 | KINGFISHER OK | 375-4411 |
| WB5FTE | TOMMY KESSLER | 2632 BUTLER DRIVE | NORMAN OK | 364-9308 |
| WA5FWD | BILL NOLAND | 608 KINGSTON PLACE | YUKON OK | 354-5018 |
| WB5FZD | JOHN FAGAN | 2329 BLUE CREEK | NORMAN OK | 364-3447 |
| K5GBF | HAROLD PLUNK | 2801 CAMELOT DRIVE | OKLA CITY OK | 751-4677 |
| K5GBN | JOHN FISH | BOX 131 | CALUMET OK | 893-2227 |
| W5GC | GENE TAYLOR | 2520 S W 68 | OKLA CITY OK | 685-1118 |
| WB5GCX | O K STAUDT JR | 1414 N OAK | GUTHRIE OK | 282-6508 |
| W5GDL | CHESTER HAZELWOOD | 4900 COLTRANE ROAD | OKLA CITY OK | 427-1439 |
| W5GEZ | GUY F STRATTON | 6404 STERLING DRIVE N | OKLA CITY OK | 721-3521 |
| WA5GHK | JOE HYATT | 914 S MAIN | KINGFISHER OK | 375-3783 |
| K2GKK | D C MACDONALD | 5120 S E 49 | OKLA CITY OK | 672-4947 |
| W5GM | JACK GANT | 521 MONROE N W | ARDMORE OK | - |
| CP1GM | RAFAEL J ELIAS | 7513 N W 29TH | BETHANY OK | 787-3421 |
| WA5GOF | BILL SHARP | 510 E BOEING | MIDWEST CITY OK | 733-1352 |
| WB5GSZ | JIM STEMEN | P O BOX 8777 | CORP CHRITI TX | - |
| WB5GWB | JEF CASEY | 4612 N W 32ND PLACE | OKLA CITY OK | 528-0252 |
| WA5GWH | JAMES WHITE | 7900 S LINN AVE | OKLA CITY OK | 681-5894 |
| WB5GZU | CHARLIE SOWERS | 517 HARWARD COURT | EDMOND OK | 341-9492 |
| WB5HAK | DON CUNNINGHAM | 301 LAKEWOOD | DUNCAN OK | 525-7361 |
| W5HAZ | SAM PERRY | 2605 N W 14TH | OKLA CITY OK | 524-0400 |
| WA5HDG | MAURICE WOODS | 6420 N HILLCREST | OKLA CITY OK | 842-1436 |
| K5HFN | FRED WRIGHT | 8822 S E 25TH | MIDWEST CITY OK | 737-8784 |
| W5HFL | IVAN MILLER | 4513 N W 31ST | OKLA CITY OK | 942-4160 |
| WB5HIJ | SAL ABBADESSA | 4 SIERRA DRIVE | CHELMSFORD MA | - |
| W5HLZ | LEE FORREST JR | 6208 S E 8TH | MIDWEST CITY OK | 737-2316 |
| K5HMD | JOE CHRISTIAN | 339 WOODCREST DRIVE | NORMAN OK | 360-2128 |
| K5HMI | JOHN C MCGINTY | P O BOX 332 | OKLA CITY OK | - |
| W5HMT | EARL SHAFFER | P O BOX 10552 | MIDWEST CITY OK | - |
| WB5HOE | FREDERICK SEEGER | 4912 N W 62ND | OKLA CITY OK | 721-8112 |

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|--------|--------------------|-----------------------|-----------------|----------|
| W5HQM | CHARLES MAUPIN | 2124 S W 68 | OKLA CITY OK | 685-6768 |
| K5HQP | MARVIN WHITE | 2108 S POST ROAD | MIDWEST CITY OK | 732-8133 |
| WB5HRC | CLYDE NELSON | 1104 S W 65 | OKLA CITY OK | 634-6079 |
| WB5HST | RON BRAGG | 11104 W 115 | YUKON OK | 373-2824 |
| WASHTL | PAUL ASPLIN | 2440 S W 54 | OKLA CITY OK | 685-6590 |
| WB5HUP | LLOYD KIRK | 4021 S W 28 | OKLA CITY OK | 685-6555 |
| K5HXX | JAMES RUSSELL | 222 S MUSTANG ROAD | MUSTANG OK | 376-3479 |
| W5HXL | ROBERT ASHBY | 2837 N W 19 | OKLA CITY OK | 942-5375 |
| W5HXR | BILL HUBBARD | 3300 N E 36 | OKLA CITY OK | 521-1721 |
| W5HZD | SAM STEPHENS | BOX 550 | EL RENO OK | 262-4872 |
| WB5HZC | JOHN WORTHAM | 813 HUNTERS HILL ROAD | OKLA CITY OK | 789-6123 |
| WB5IBC | BILL HAYNIE | 777 S E 15TH APT 432 | EDMOND OK | 348-4799 |
| WB5IBW | TONY PRYOR | 2641 S 54 PLACE | OKLA CITY OK | 681-1222 |
| K5IBX | RON GORDON | 4135 N W 19TH | OKLA CITY OK | 942-0797 |
| W4IDW | HAROLD BOWCOCK JR | 11325 6TH ST E | TREASURE ILE FL | - |
| WB5IEK | DON BRUNER | RT 1 BOX 89B | ARCADIA OK | 396-8861 |
| WA5IFN | JIM KEARNS | 14421 WILSON ROAD | EDMOND OK | - |
| WB5IMF | STAN LISMAN | 3320 HAMPTON DRIVE | DEL CITY OK | 672-3004 |
| WB5IMT | DAVID NELSON | RT 2 BOX 160 | TUTTLE OK | 376-2542 |
| WB4IOF | ROBERT AVE | 1800 PERDUE | OKLA CITY OK | - |
| WB5IPE | VAN EVANS | 216 W BYRD DRIVE | MIDWEST CITY OK | 737-6052 |
| W5IQ | RAY BRYAN | P O BOX 246 | KINGSTON OK | 564-2177 |
| WA5IQH | BILL BLAKELY | 3925 N W 12 | OKLA CITY OK | 942-0281 |
| WB5ISN | DENNIS ORCUTT | 3201 S RANKIN | EDMOND OK | 341-4200 |
| WB5ISO | WENDALL COCHRAN | 4308 N W 26TH | OKLA CITY OK | 943-4308 |
| WB5IXJ | LLOYD HARGROVE | 6112 S E 10TH | MIDWEST CITY OK | 732-3841 |
| WB5IYI | JOHN PRATHER | 6721 N W 30 | BETHANY OK | 789-0565 |
| KG6JBH | NORMAN CRAWFORD JR | 7320 KINGS RIDGE ROAD | OKLA CITY OK | 721-8895 |
| WB5JBK | GARY SHIDELL | 328 MOHR LANE | MUSTANG OK | 376-2832 |
| WB5JBL | FRANK MCCOLLOM | 2421 N W 118 | OKLA CITY OK | 751-3577 |
| W5JCB | ELMO BLACK | 413 N E 38 TERRACE | OKLA CITY OK | 528-6467 |

| | | | | |
|--------|-------------------|------------------------|-----------------|----------|
| W5JCJ | O B RAMSEY | 2238 LINDENWOOD LANE | NORMAN OK | 329-0794 |
| W5JCQ | RALPH WOOD | 4740 ELM VIEW DRIVE | DEL CITY OK | 672-2747 |
| WB5JDZ | BERNARD MCCARTY | 8719 N E 47TH | SPENCER OK | 771-3625 |
| K5JEA | KERMIT KRUGER | 4328 N W 43RD | OKLA CITY OK | 946-3417 |
| WA5JES | ALTON R SMITH | 2610 RIDGECREST DRIVE | EL RENO OK | 262-1250 |
| K5JFE | WILLIAM WORTHAM | 2733 ABBEY ROAD | OKLA CITY OK | 751-8643 |
| WB5JGO | MARTIN VOSS | 6225 NORMAN ROAD | OKLA CITY OK | 721-4526 |
| WA5JGU | CHARLES GREEN | 3028 N W 33 | OKLA CITY OK | 943-5631 |
| WA5JHB | MARVIN STOKES | RT 1 BOX 3 | CALUMET OK | - |
| W5JJ | CARL DRUMELLER | 5824 N W 58TH ST | OKLA CITY OK | 789-3788 |
| WB5JML | HOWARD W DINGES | 11204 N VICTORIA PLACE | OKLA CITY OK | 751-0148 |
| K5JOH | STEWART C KENNEDY | 1109 S 1 ST | CHICKASHA OK | 224-4362 |
| WBOJRE | FRANK CORNETT | 2301 W MULBERRY | FT COLLINS CO | - |
| W7JTG | VIRGIL RIDGWAY | 6449 N PENIEL | OKLA CITY OK | - |
| WA5JUJ | BART WORTHAM | BOX 14305 | OKLA CITY OK | - |
| K4JWZ | RICHARD GILLILAND | 3627 BELLWOOD | NORMAN OK | 364-9679 |
| W4JXI | WALTER E TODD | 435 BACARDI DRIVE | MERRIT ISLE FL | - |
| WA5JXX | ROGER RYAN | BOX 97 | LINDSAY OK | 364-6848 |
| WB5JYK | PAT SHERRILL | 3721 N W 27TH | OKLA CITY OK | 943-3219 |
| W5JZN | DAVID STUART | 3133 STONYBROOK DRIVE | OKLA CITY OK | 751-4410 |
| WB5KAK | DOUG BROWN | 5813 N W 31 ST | OKLA CITY OK | 947-2836 |
| W5KBB | DR SAM COLLINS | 1211 N SHARTEL | OKLA CITY OK | 272-0703 |
| WB5KCU | ALFRED PRINCE | 5950 N W 43 | OKLA CITY OK | 789-1160 |
| WB5KDC | ROYDEN FREELAND | 8044 BROCKSHIRE | OKLA CITY OK | 721-5447 |
| K5KDR | BILL OLIVER | 2210 IOWA | NORMAN OK | 329-6333 |
| W5KE | ELLARD FOSTER | 5905 N W 42ND ST | OKLA CITY OK | 789-6702 |
| WB5KFL | MIKE LEATHERS | 2229 MAPLE DRIVE | MIDWEST CITY OK | 732-7909 |
| W5KFT | J W WORD | 3700 N SHANNON | BETHANY OK | 789-1865 |
| W5KGV | ED PECK | 2616 CLERMONT PLACE | OKLA CITY OK | 842-6863 |
| WB5KHU | KEN FORD | 1918 N W 22ND | OKLA CITY OK | 528-8770 |
| W5KHW | MIKE WHALEN | 1434 S W 52ND | OKLA CITY OK | 681-3755 |

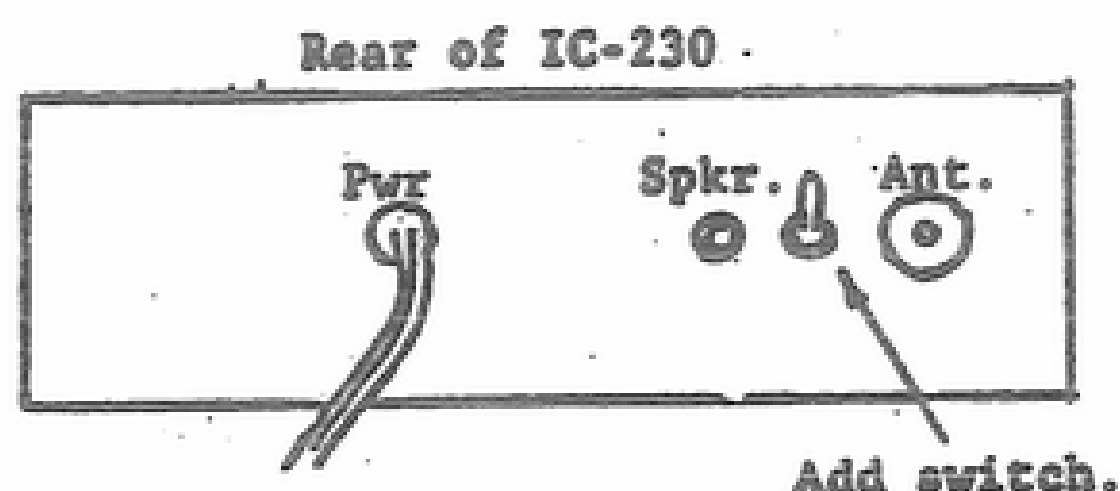
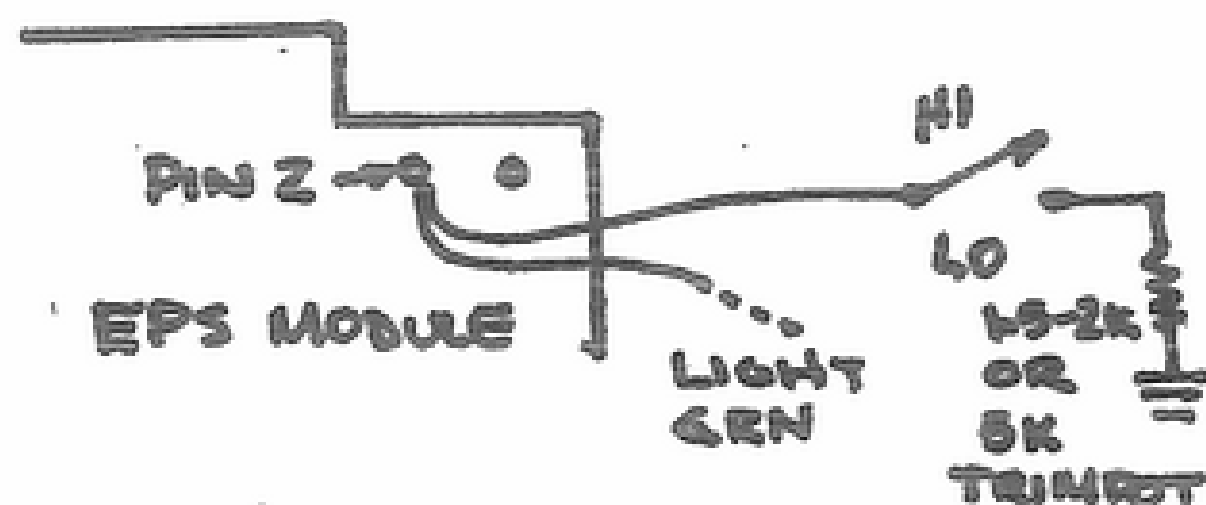
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|--------|--------------------|--------------------------|-----------------|----------|
| WOKKX | ROBERT HAYES | P O BOX 144 | RANDOLPH MN | - |
| W5KOZ | SID GERBER | 829 EAST BOUSE | MIDWEST CITY OK | 737-1050 |
| WA5KQB | HERMAN DAVIS | P O BOX 101 | LEXINGTON OK | 527-6344 |
| WB5KRD | FRED MORTON | BX 5033 332 CATE CNTR DR | NORMAN OK | - |
| WOKUJ | CLARENCE HERRON JR | 3417 BELT AVE | ST LOUIS MO | - |
| WA5LBK | ROBERT GREENE | 3028 N W 33 | OKLA CITY OK | 943-5631 |
| WB5LGJ | EDWARD WILLIAMS | 4005 BISMARC DRIVE | DEL CITY OK | - |
| WB5LHR | BOB WILLIAMS | 7613 N W 29TH | BETHANY OK | 789-0987 |
| K5LIL | EDWARD MURTA | 4408 N W 47 | OKLA CITY OK | 946-9200 |
| WB5LJO | MIKE MCCRARY | BOX 32559 | OKLA CITY OK | 751-4052 |
| WA5LKS | JIM KELLY | 4603 S E 29TH | DEL CITY OK | 672-2272 |
| WB5LLT | MIKE PADBURY | BOX 604 | ADAMS OK | - |
| K5LMB | JIM CRUSE | RT 1 BOX 140C | MUSTANG OK | 376-2848 |
| K5LMG | COY DAY | 2321 S W 92 | OKLA CITY OK | 691-1194 |
| WB5LNX | ODIS WILSON | P O BOX 6280 | MOORE OK | 794-4616 |
| WB5LPJ | JACK SMITH | 3028 CHETWOOD | DEL CITY OK | 677-1816 |
| WB5LTI | LARRY KEUN | 4200 N REEDER | OKLA CITY OK | 789-6097 |
| WA5LTM | TIM MAULDIN | 3033 S W 60 | OKLA CITY OK | 681-0660 |
| WA5LVG | DIANA STOKES | RT 1 BOX 3 | CALUMET OK | - |
| K5LZF | ROBERT ALMAND | 711 N 1ST STREET | TECUMSEH OK | 589-5148 |
| W5MCJ | JEROME G BROUDY | 1920 WESTBROOKE TERRACE | NORMAN OK | 329-0262 |
| W5MCM | BOB SINGLETARY | 2830 N W 22 | OKLA CITY OK | 946-6840 |
| W5MCN | LELAND E BLACK | 726 WOODS | NORMAN OK | 329-3222 |
| WB5MEA | BRUCE STAFFORD | 3112 S W 72 | OKLA CITY OK | 685-8926 |
| WB5MLN | HOBE BURGAN | 2504 N W 119 | OKLA CITY OK | 751-8388 |
| WA5MLT | H O TOWNSEND | 2346 LOUISE LANE | NORMAN OK | 329-4426 |
| WB5MLX | GLEN COCHRAN | 1925 STERLING DRIVE | OKLA CITY OK | 942-7148 |
| W5MPA | JAMES FLETCHER | ROUTE 1 | NEWCASTLE OK | - |
| WB5MPS | TOM JENSEN | 5505 12 AVE N W RT 5 | NORMAN OK | 364-9193 |
| K5MTC | TED NICEWARMER | 421 E KEE | WEATHERFORD OK | - |
| W6MUG | MARION NEARY | RR #2 | NEW PLYMOUTH ID | - |



Club
NEWS

US107
The Ham Radio Magazine

Hi-Lo Power MOD TO IC-230



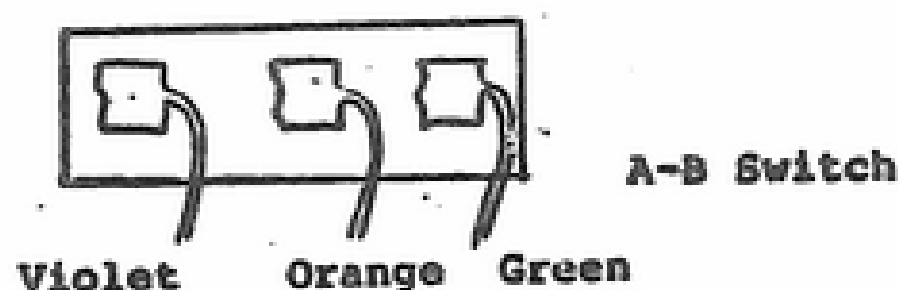
USING THE IC-230 FOR OSCAR

THE IC-230 SYNTHESIZED FM TRANSRECEIVER IS VERY VERSATILE, BUT EVEN THE BEST OF US CAN LEARN NEW TRICKS.

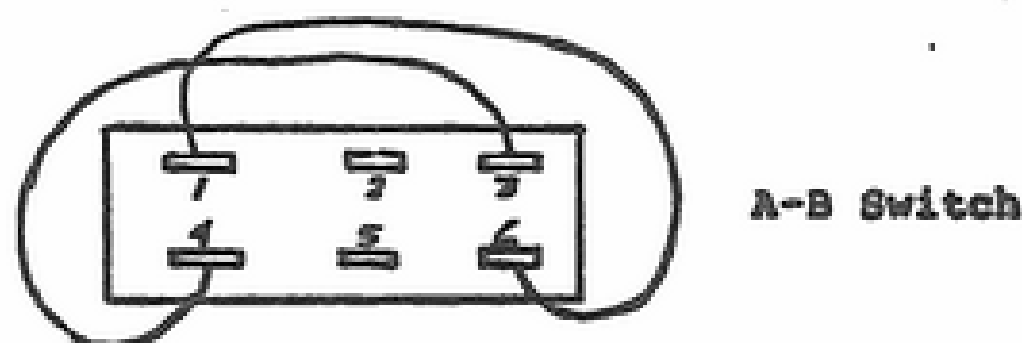
IN HUNTING AROUND FOR A GOOD 2 METER CONVERTER FOR LISTENING TO OSCAR ON MODE-B DAYS WE CAME ACROSS THE IDEA OF LISTENING TO THE FIRST I.F. AT 10.7 MHZ ON OUR COLLINS 51J4 GENERAL COVERAGE RECEIVER. AN 8 TO 10 PF CAPACITOR WAS SOLDERED TO THE OUTPUT TERMINAL OF THE R.F. MODULE (U-1A) AND RUN TO THE BACK PANEL VIA RG-174 COAX CABLE. SINCE THE HELICAL RESONATOR IS ABOUT 3 TO 4 MHZ WIDE AND THE HIGH I.F. 10.7 FILTERS ARE ABOUT 300 KHZ WIDE AT THE 6DB POINTS, A 145.7 MHZ AUXILARY CRYSTAL CAN BE INSTALLED OR SETTING THE UNIT TO RECEIVE ON 146.01 AND TUNING THE GENERAL COVERAGE RECEIVER DOWN FROM 10.7 MHZ MAY BE DONE. IN OTHER WORDS, 146.01 WOULD APPEAR AT 10.7 MHZ AND 145.7 WOULD APPEAR AT 10.39 MHZ. THE QUIET FRONT END OF THE IC-230 MAKES FOR FINE QSO'S.

AUTOMATIC OFFSET SWITCHING

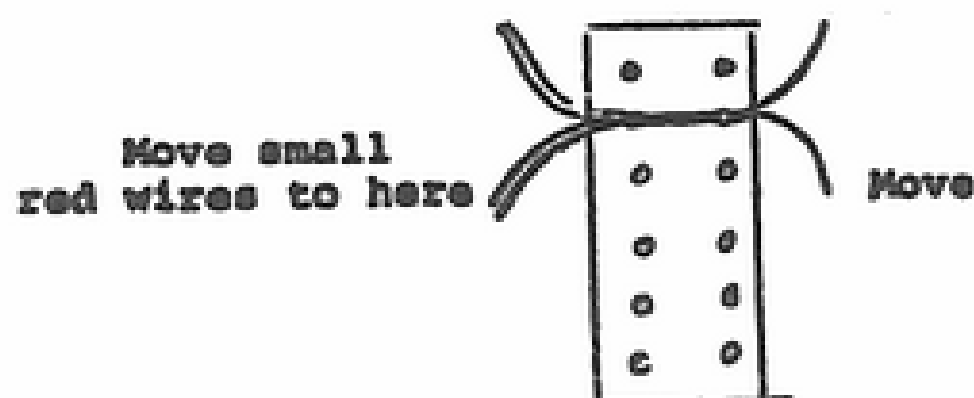
1. REMOVE THE CASE FROM THE IC-230.
2. LOCATE THE A-B SWITCH.
3. REMOVE THE TWO (2) SCREWS FROM THE A-B SWITCH BRACKET AND REMOVE IT FROM THE CHASSIS.
4. UNSOLDER THE ORANGE, GREEN AND VIOLET WIRES FROM THE SWITCH; CLEAN TERMINALS.



5. SOLDER TWO JUMPERS TO THE A-B SWITCH AS SHOWN IN THE SKETCH.



6. AT THE MHZ SWITCH (146-147) REMOVE THE TWO SMALL RED WIRES AND MOVE TO THE OPPOSITE SIDE OF THE SWITCH AND SOLDER TO THE SAME TERMINAL AS THE TWO LARGE RED WIRES, THUS REMOVING THE JUMPER BETWEEN THE TWO TERMINALS.



| | | | | |
|--------|---------------------|------------------------|-----------------|----------|
| K5MYS | FLORIAN SMITH | 100 E MAIN | ADA OK | - |
| WB5MZX | ROBERT SCHERTLER | P O BOX 624 | GRAND ISLE LA | - |
| WB5NCU | TOM RHODES | 5017 N W 62 ST | OKLA CITY OK | 721-3557 |
| WB5NHZ | HENRY BALL | 524 CLEARVIEW | NORMAN OK | 321-5852 |
| WB5NIY | D L TEMPLEMAN | 8329 N W 38 TERRACE | BETHANY OK | 787-7174 |
| N5NJB | WALTER SCHNIEDER JR | 925 W SILVER MEADOW DR | MIDWEST CITY OK | - |
| W5NL | FRED BOARDMAN | 2900 BIRD DRIVE | OKLA CITY OK | 427-2505 |
| W5NQF | WILHELM WESENICK | 3204 N W 16 | OKLA CITY OK | 942-3101 |
| WB5NSV | ROBERT E GRAHAM JR | 3317 S E 24 ST | DEL CITY OK | 677-8685 |
| W5NTL | GEORGE LAGALY | 7920 N W 18 | OKLA CITY OK | 789-4073 |
| WB5NTQ | STERLING ALLEN | 6717 S HARVEY PL | OKLA CITY OK | 634-6590 |
| WB5NVF | MELVIN LYNN | BOX 430 | LEXINGTON OK | - |
| WB5NYR | BOB MAY | 1208 N W 122ND | OKLA CITY OK | 751-2048 |
| WB5NYX | LARRY GRIFFIN | RT 1 BOX 114A | MEEKER OK | - |
| W5NZS | LARRY HAZELWOOD | 700 N W 48TH | OKLA CITY OK | 848-6400 |
| WB5OBV | BOB VOTAW | 7213 GALAHAD CIRCLE | OKLA CITY OK | 721-8983 |
| K5OCX | BILL TUCK | 3201 S WESTERN | OKLA CITY OK | 634-6628 |
| WA5OEA | JACK COCHRAN | 204 W MARSHAL DRIVE | MIDWEST CITY OK | 732-8029 |
| W5OEC | EDWARD DUCLOS | 8025 N W 27TH ST | BETHANY OK | 495-2797 |
| W5OH | LEO BARTLEY | 1801 ROGERS ST | LONG BEACH CA | - |
| W4OHA | BOBBY CANUP | 111 FAIRWAY DRIVE | VALDOSTA GA | - |
| W5OHH | BUZZY BROOKS | 2809 MOCKINGBIRD LANE | MIDWEST CITY OK | 732-1127 |
| K5OHU | JIM CALDWELL | 3120 N W 61ST TERRACE | OKLA CITY OK | 842-7280 |
| WB5OIL | D L COLBURN | RT 4 BOX 377-1 | CHOCTAW OK | - |
| WB5OJH | BRUCE WHEELER | 2400 MACARTHUR BLVD S | OKLA CITY OK | 685-1402 |
| W5OLX | LEE SCHILLER | 908 N MARSHAL DRIVE | MIDWEST CITY OK | - |
| WA5OPP | MELVIN ZUCK | BOX 526 | HARRAH OK | 454-2125 |
| K5OQD | CARL BOWER | 107 E PULASKI | SHAWNEE OK | 273-8653 |
| W5ORH | JAY LIEBMANN | 3801 MACARTHUR BLVD N | OKLA CITY OK | - |
| WB5ORL | DANNY CLENDINING | 1200 W ELM APT 102 | EL RENO OK | - |
| WB5ORW | BRADY M PAMPLIN | 7847 EL PENSADOR | DALLAS TX | - |

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|--------|-------------------|--------------------------|-----------------|----------|
| WB50RY | KENNETH BURDICK | 1419 S 78 TERRACE | OKLA CITY OK | 232-3416 |
| WB50UF | STEVE ROBINSON | 7901 N E 28TH | SPENCER OK | - |
| WA50UO | DR E A ABERNATHY | 409 E CHEROKEE | ENID OK | - |
| WA50UU | DICK WOKATY | 3709 N SHANNON AVE | BETHANY OK | 789-1899 |
| W50XJ | EVERETT COX | 9624 CASTLE ROAD | OKLA CITY OK | 721-4617 |
| W50YW | ED MURAR | 3100 N W GRAND BLVD | OKLA CITY OK | 842-5444 |
| WA50YY | LEON JOHNSON | 2400 S MACARTHUR LOT 239 | OKLA CITY OK | 681-4366 |
| W50ZE | TOMMY STINSON | 2721 LYONS BLVD | OKLA CITY OK | 942-3714 |
| WB5PCW | LARRY STEWART | 4138 N W 62 ST | OKLA CITY OK | 946-1961 |
| W5PDH | FRANK ARNOLD | 608 HOLLOWAY DRIVE | MIDWEST CITY OK | 737-2582 |
| K5PER | JAMES JONES | 1021 S W 61 | OKLA CITY OK | 634-5235 |
| WA5PHJ | JAMES DAWSON | 1005 PINE OAK DRIVE | EDMOND OK | 341-6287 |
| K5PJU | BOB WILLIAMS | 13 SOUTH EASY STREET | EDMOND OK | 341-5529 |
| WB9PJV | HAL INGRAM | 3729 S SYCAMORE | SANTA ANNA CA | - |
| WA4PLG | CHARLES KENNAMER | 1225 S W 35TH | OKLA CITY OK | 634-7369 |
| W5PML | CECIL CASH | 1802 SMITH AVE | LAWTON OK | 355-6337 |
| WB5PNH | TONY HOLZMAN | RT 2 BOX 326 | CHOCTAW OK | - |
| WA5PPA | LLOYD WILLIAMS | P O BOX 266 | WASHINGTON OK | - |
| WB5PTJ | ROGER RYLOTT | 6400 KENSINGTON COURT | OKLA CITY OK | 721-7790 |
| WB5PTG | MERRILL SCOTT | 4410 N WHEELER | BETHANY OK | 789-6331 |
| WB5PWO | FRED SWOPE | 1316 S W 71 | OKLA CITY OK | 685-6045 |
| WA5PWX | EDWIN RANSON | P O BOX 736 | GRAND ISLE LA | - |
| WB5PWZ | ROBERT WHITE | RT 2 BOX 165 | NEWCASTLE OK | 387-5105 |
| WB5PYN | KEN NEWBERRY | 2824 S W 55 | OKLA CITY OK | - |
| WB5PZG | JOHN L OLTMANNS | 2232 W EUBANKS | OKLA CITY OK | 525-6066 |
| K5ODR | JOHN HUCKABY | 4344 SUNTANE ROAD | DEL CITY OK | 672-4706 |
| K5QHM | HOWARD GOULD | 2208 S W 57TH | OKLA CITY OK | 685-4805 |
| W5OLL | CHARLES TUCKER | 1421 REBECCA LANE #261 | NORMAN OK | - |
| WB5QMB | CURTIS P MCGRATH | 9020 S E 25 ST APT #14 | MIDWEST CITY OK | - |
| W5QMJ | KEN ISBELL | 306 KESTERFIELD RD | ENID OK | 233-2327 |
| W5OMP | BILL GARTHOEFFNER | 1520 N W 3RD | OKLA CITY OK | 239-2791 |

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|--------|-------------------|-------------------------|-----------------|----------|
| WB5QNU | GEORGE GARBETT | 7536 EMBASSY TERRACE | OKLA CITY OK | 745-2832 |
| WA6QWQ | CHUCK DEJOHN | 5005 RYAN DRIVE | OKLA CITY OK | 670-3276 |
| WB5QXU | JAMES CURRY | 3133 S MADOLE | OKLA CITY OK | - |
| WB5RAG | JOE SATTERWHITE | 4336 S E 43 | DEL CITY OK | 672-0409 |
| WB5RAP | FRED L BECK | 508 TAYLOR ST | PURCELL OK | 527-3032 |
| WA5RAG | WILLIAM ROGERS | 1121 S W 53RD ST | OKLA CITY OK | 632-4375 |
| WB5RAX | DON SULLIVAN | 7420 N W 19 | BETHANY OK | 787-0092 |
| W5RB | HAROLD GILBERTSON | 4515 S SANTA FE #4 | CKLA CITY OK | 634-4822 |
| W5REY | RAY JANKA | 2708 WINDSOR BLVD | OKLA CITY OK | 942-4146 |
| WN5RKQ | JAMES JONES | 123 N 2 | MOORE OK | 794-7601 |
| W5RLJ | GEORGE BITTROLFF | 7449 N W 6 TERRACE | OKLA CITY OK | 787-1783 |
| WA5RPP | SAM BARRATT | 10205 FINLEY ROAD APT H | OKLA CITY OK | 751-1170 |
| WA5RSC | BILL MORRIS | 4419 77TH ST | LUBBOCK TX | - |
| WN5RUN | DARRYL WELCH | 418 S LEWIS LANE | MUSTANG OK | 376-2766 |
| WA5SBP | MARTHA SHAVER | 443 N W 44TH | OKLA CITY OK | 528-6429 |
| K5SCY | WARREN DIMICK | 8 BURK WAY | DEL CITY OK | 677-2511 |
| W5SIH | MARVIN JOHNSON | 3409 PRESTON DRIVE | OKLA CITY OK | 946-4367 |
| WB5SIK | JAMES KERR JR | 4109 N W 31 ST | OKLA CITY OK | 947-7098 |
| K5SKA | BILL DEMAND | 2317 N W 121 ST | OKLA CITY OK | 751-5137 |
| K5SQJ | WILLIAM O COOK | 4808 TATE DRIVE | DEL CITY OK | 672-9964 |
| WA5STC | BILLY ATKINS | 321 N POST ROAD | MIDWEST CITY OK | 737-6984 |
| W5STN | RALPH OHLER | 8316 PICNIC LANE | OKLA CITY OK | 789-6255 |
| WA5TAR | SIDNEY ROSE | 3812 N W 27TH | OKLA CITY OK | 946-5719 |
| WA5TAW | DON GRAHAM | 1208 ALAN LANE | MIDWEST CITY OK | 733-3044 |
| WA5TDJ | DON BADGETT | 2200 MAPLE DRIVE | MIDWEST CITY OK | 737-6521 |
| K3TGY | BILL BRODIE | 2537 EDGEWOOD | MOORE OK | 794-0406 |
| K3TJD | JOE NELSON | 2269 DOWNING | OKLA CITY OK | 755-0544 |
| W5TJL | A L HOGUE | BOX 162 ROUTE 10 | MOORE OK | 794-0030 |
| W5TKC | MAJ C C DRUMELLER | DET 13 16WS | FT EUSTIS VA | - |
| W5TKS | GUY LIEBMANN | 3128 LAKEVIEW MANOR DR | BETHANY OK | 787-9547 |
| WA5TOO | DARRYL LEDDEN | 3009 DELVIEW DRIVE | DEL CITY OK | - |

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|--------|-------------------|-------------------------|-----------------|----------|
| K5VWG | MELVIN HOOD | 5512 N DONALD | OKLA CITY OK | 789-3156 |
| W5VZU | ROBERT KELLEY | 3400 BROCK DRIVE | OKLA CITY OK | 632-8433 |
| W5VZY | LEE LASH | 1403 N PURDUE | OKLA CITY OK | 942-0177 |
| WA5WEU | JAMESON | 3113 ORLANDO ROAD | OKLA CITY OK | 751-3962 |
| K3WGF | CLARKE DIEKMANN | 10014 BROADWAY APT 1810 | SAN ANTONIO TX | - |
| WA5WHO | SAM GOVER | 5400 S LEE | OKLA CITY OK | 634-2510 |
| K9WIC | JOHN ZIETLOW | 4708 WOODVIEW DRIVE | DEL CITY OK | 672-2425 |
| W5WL | CHARLES SHEAFFER | 2336 N W 46TH STREET | OKLA CITY OK | 848-5062 |
| K5WHY | DAVID BALLEW | 617 FAIRLANE DRIVE | MIDWEST CITY OK | 737-0702 |
| KOWNL | DON BEAHM | 2901 SHADY BROOK DRIVE | MIDWEST CITY OK | 733-1985 |
| WA5WNV | EUGENE WOKATY | 220 GAYLE DRIVE | MIDWEST CITY OK | 732-6268 |
| W5WSW | HOWARD RIDGWAY | 2400 N W 33 | OKLA CITY OK | 946-7610 |
| K5WUF | DALE DIEHL | 3912 N W 59TH | OKLA CITY OK | 943-5438 |
| WA5WXE | GENE BINEU | 119 S 13TH ST | TECUMSEH OK | 598-3822 |
| WA5WYO | BOB LEINAU | 303 PARK AVE | PRESCOTT AZ | - |
| W5WZM | O G MCCLURG | 309 WEST STREET | HARRAH OK | 769-3178 |
| K5YBP | CECIL SHELTON | 1212 S W 92 | OKLA CITY OK | 691-3632 |
| W4YDY | DAVID LANGLEY | 5712 N W 112 | OKLA CITY OK | 722-0462 |
| WA5YFI | STAN BOLIN | 812 S ST PAUL | MIDWEST CITY OK | 733-2239 |
| K5YGM | JOHN SPIVEY | 1210 N W 39TH | OKLA CITY OK | 528-1467 |
| WA5YGX | BILL BEAMER | 5813 CHEYENNE | OKLA CITY OK | 721-9796 |
| WA5YIJ | BILL MILLER | 4408 WOODEDGE | DEL CITY OK | 677-2053 |
| K5YKD | EARNEST WOLF | 611 N W 94TH ST | OKLA CITY OK | 848-3425 |
| K5YPK | AL JAKUBOWSKI | ROUTE 2 | HARRAH OK | - |
| WA3YPV | CARL HORWITZ | 1801 LOGAN DRIVE | NORMAN OK | - |
| K5YTW | LLOYD BENTON | 402 N MARSHALL | MIDWEST CITY OK | 732-4987 |
| K5YXF | TOMMY BOND | RT 13 BOX 136B | OKLA CITY OK | 721-5706 |
| K5YYI | ARCHIE LYNCH | RT 2 BOX 220 | EL RENO OK | 262-6303 |
| WA5ZAJ | LEONARD AINSWORTH | BOX 2 | SPENCER OK | 771-4391 |
| WA5ZAN | WALLACE MCCRAY | P O BOX 151 | SEMINOLE OK | 382-3474 |
| WA5ZCB | RICHARD OGG | 1500 S W 68 | OKLA CITY OK | 685-6440 |

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|--------|-----------------|--------------------|-----------------|----------|
| WASZEC | AUSTIN BRUMMETT | 869 N W 14 | MOORE OK | 794-1036 |
| WASZGM | JOHN KEELING | 300 N FRETZ | EDMOND OK | 341-4496 |
| WASZJE | WAYNE HOPKINS | 2933 S W 65 PLACE | OKLA CITY OK | 681-3175 |
| W5ZKJ | HAROLD BRAY | 1309 S W 67 | OKLA CITY OK | 685-0688 |
| W5ZL | MERVIN HILL | 1600 N W 43 | OKLA CITY OK | 524-3728 |
| WASZNF | JOE K HARDING | 1020 ARTHUR DRIVE | MIDWEST CITY OK | 737-1044 |
| WASZNG | JOE HUSTAK | 6821 N W 27TH | BETHANY OK | 789-8587 |
| WASZRU | GEORGE GLASS | 2933 BERKSHIRE WAY | OKLA CITY OK | 751-5063 |
| W5ZZG | CLINT GRIFFIN | 2313 MICKEY ROAD | DEL CITY OK | 677-1758 |

NEW MEMBERS

NOTES

THE WRIGHT PLACE AT THE RIGHT TIME, OR A WILD WEEKEND IN DAYTON

Though there will probably be several versions of "How I spent the Weekend in Dayton," in this issue of C&E, I thought that I would add just one more to the heap along with a description of the trip and a few personal observations. Dayton is no small trip and just arranging transportation can be a big effort by itself. It also isn't cheap. WA5TRS told me he spent \$75.00 in gasoline alone to drive his bus to Ohio. This wasn't bad, but the time factor takes a toll also. K2Gkk drove for 17 hours.

Anticipating these difficulties and after huddling with a big Dayton Conventioneer, Joe, K5HMD, who lived in Dayton during the salad days, we decided that flying was the only way to go. Getting a pilot was no problem. Joe is a CFI, and Roger, WA5JXX, also a pilot, could ride "shotgun." I intended to hold down the back seat while holding down lunch at the same time. This would be no small trick! A few previous flying experiences with Roger had ended with a quick landing and a silent oath to never venture into the friendly skies in a private plane. Personal assurances from Joe and Roger plus a healthy assist from Searle Laboratories (makers of Dramamine) did truly make it an uneventful flight.

Neither Roger or Joe are IFR, so as Dayton approached we watched the weather with more than a passing interest. The original plan called for a quick sortie up to Dayton on Thursday morning so as to have the afternoon for a visit to investigate the legendary electronic surplus stores which Joe has been telling us about. Then a brief run out to Wright-Pat AFB to cop a quick look at the Air Force Museum. This went by the road fast when Joe and Roger were delayed in Flying (private) to Fort Stockton for an equipment installation. They didn't get off to Wednesday and I could see our early start dissolving rapidly. A quick recovery with an installation with no hitches and Joe and Roger called me on the 63-03 autopatch on thursday afternoon to let me know that they would be back in an hour or so. We decided to delay the start until Friday morning. Joe and Roger had already been in the air for more than 5 hours in the last two days. Another five hours to Dayton might have resulted in a terminal case of bucketitus (i.e. inability to sit in cramped airplane seats). We were out at six the next morning, checked and gassed the plane, and got in the air about 6:20. Now to set up the IC-230 for a little DXing. We took an inventory and found that Roger had left the power cord in car. Oh well. We still still had two HT-220s chocked full of various crystals plus a 450 HT-220 for ground work at Dayton. Still the 230 would have been nice for going reverse of the repeater. In addition, I wanted to call a friend as we were passing over Little Rock. Roger earned his mea culpas later by purchasing the necessary elements for a power cord at the convention. Its now in use in his car.

Flying a small plane is like playing bridge. You need four. We had a few early nibbles, but no takers for the fourth place. That's OK. Just that much more stuff to haul and more goodies we can bring back (heh, heh). Weight in the plane for cargo was no problem. The flight took a little over 5 hours with one short stop in Farmington, Missouri. Weather was great and the tail winds chopped an easy hour off the flight. Arriving in Dayton and a quick arrangement to pick up our rental car and we were off to the convention site. This was the afternoon to get in all the manufacturer's exhibits because the flea market was Saturday. Everybody was there. ICOM had a gigantic display. It was here I made my first coup of the weekend. I picked an info sheet on improving the IC-230 (parts are elsewhere in this issue and should be a continuing feature of C&E for a few issues) and got one of the few available. Data Signal was showing their products including a new TT pad for HT's. The trouble they have had with Chromerics was incredible. VHF Engineering had their new synthesizer there. Wacom Products, North Shores Technology, Sinclair, and others were showing Duplexers and Cavities. The most popular items for display were digital clocks. Everybody had them. Memory keyers and telephone autodialers were next. TPL, Bird, Collins, Heathkit, Mostek, Swan (they had their new SS-747 transceiver, incredible), Tektronix, Yaesu, Hy-gain, KLM, R. L. Drake, Larsen and Clegg were all there. And why not? There were more than 13,000 wandering milling amateurs buying up thousands of dollars worth of stuff. The prizes totaled up to a tidy sum also. Joe said that it has been the policy to return as much money to the attendees as they could with just enough held over for start up next year. Quite a contrast to other conventions where a local club tends the convention as a fund raiser for their various projects.

The range of exhibitors was amazing. Spectronics (the house that Motorola built) did a land office business selling their Motorola goodies and just about everything else. "Squeak had his "Drinkatalkie" a cute Motorola HT-200 case which he had sealed up for the ultimate radio hip flask. His latest prank for Dayton was a tiny transmitter inside a Pageboy II case. He would ask you to put your radio on 76, then talk to you with the pager. Outrageous. I bought one of the S. D. Sales time base kits for a digital clock for eventual installation in a clock in my car. The Portable Clinic offered custom Motorola HT installations that had you panting by the time you left the booth. Bob Hicks had worked up a few new goodies including a complete six channel scanner inside an HT! They also had a 12 channel modification for those who want a Mercedes for their Mercedes. HT's were in abundance and buying and selling was amazing. A group of us were standing around with about 7 HT's on us collectively. A WB2 came up and asked if any of the radios were for sale. In one case the answer was yes. Then the dickering began: "Seller-I'll take \$350. Buyer-Jeez, isn't that a bit much? Seller-Take it or leave it. I'll sell when I get back home for \$400. Buyer-I got to buy shoes for my kids. Seller-They can wear sandals. Buyer-I'll give you \$300. Seller-Not enough, How about \$325. Buyer-OK, I'll take it. And this is the way it went. I bought several things and sold them before even getting off the convention center grounds. One other item of note was Dennis Trimble's display of color VTR systems which he had purchased from a discontinued idea that Sear or somebody had had. A person could own a Color VTR and playback unit for under \$300. The picture looked great.

The FM Bash that night was OK, but the drinks were expensive. My usual Seven-up cost 50¢. I had to drink a beer in self defense. Oh well, got to see Hoss Karima, WA5ZAI/8. We decided early to bed and up at six the next morning for the flea market festivities.

Well, six came just a little early, but we did make it out for breakfast at about eight and out to the flea market at nine. This is even bigger than I thought. It takes up the entire parking area behind the convention center which is about four times bigger than the exhibition hall. The next few hours I began running up and down the aisles, scanning the mountains of goodies. It was a process of stopping, looking, then either buying or putting the item down and running to the next exhibitor. Wow, look miniature capacitors for 450 HT work. How much? 50¢ each. Yee gods, these are regularly \$5 each. I'll take ten. Moving along, I see coaxial connectors still in the new amphenol package. Whatayougetforthese? 75¢ each or 10 for \$5. I'll take 20. And on and on. Everything you could possibly want in amateur radio flea markets (with the exception of Bird Wattmeter slugs) was there. Anything you could possibly want to sell could probably be sold there. All those rare components are there. There are lots of surplus dealers who set up in the market and sell across the counter. I saw new SR52 calculators for just \$300 and similar discounts on smaller models. The Motorola reconditioning center was there with stuff you wouldn't believe. They had brand new 450 Mhz HT-100's for just \$225. I considered it for awhile, but finally manage to hold off from what I felt was the buy of the year. It would have been just a little more than I could spend.

There were forums galore. The FCC forum wasn't much. But then again, with the way that deregulation has been going, there really wasn't much to talk about. The commission is once again much more responsive to the self regulatory nature of amateur radio. I went back into the exhibition hall and talked briefly with Wayne Green and sneaked a peek at the latest issue of 73 which Wayne had airfreight bring in. He still remembers his trip to Norman before Dayton several years ago to talk to the OU Radio Club. I moved over to the Motorola Semiconductor booth and talked to K7YAM, the author of the Ham Radio Article on the new Motorola touchtone encoder. I picked up one of each of their advance products info including a new gain block (19 db) for 450 Mhz and VHF. These dudes take about 100 mw in and produce about 14-20 watts out. Motorola had already set a complete minicomputer based on their 6800 chip. They were offering copies of a compiler for a Morse Code/ASCII Send/Receive program. You send the code, it copies and prints. You type your message, it sends the code. Fantastic. Minicomputers were the new exotica of the convention and Motorola, KIM, CompuMart, Byte, and others were there.

There was more of the same on Sunday although the flea market had tamed down somewhat. Commercial exhibitors were doing a landmark business. But then again with prices and supplies like they were, this was no surprise. K2GKK came back with

a new Swan transceiver at an unheard of low price. K3TGY bought a Genave Walkie Talkie, and on and on. We had anticipated that the weather would act up so the original plan was to get out of Dayton on Sunday morning. No luck. We enjoyed another day at the convention and went out to the Air Force museum that afternoon. This is a super exhibition. Everything of significance in the history of aviation is presented on a continuum from the Wright Bros. original flight. There were audio visual displays all over the place which told little stories about the display aircraft. The museum is housed in a gigantic building and needs it. They had a complete B-36 inside. Also included is the plane that dropped the bomb on Nagasaki (BoxScar). There was an X-15 and other experimental planes. The only walkthrough exhibit was a cut down B-29. I spotted an old ARC-3 among the ruins of the plane. While looking at an exhibit of emergency equipment for downed flyers, I noticed that they had a wooden mockup of an emergency flasher. What was that? I think that I will send them one of mine that I bought on the surplus market. After walking out past one of the actual Apollo command modules, the tour is over. A most impressive show.

Up early again the next morning and found we had beautiful conditions for the flight back. To save time, we had taken the precaution of staying at the Airport motel. Nice, but expensive. Out to the airport, turn in the rent car and load up the plane. Humm, ice on the wings. A nice warm hanger was located and Roger taxied the Tiger inside. 15 minutes later we were on the runway with clearance for takeoff. We flew lower coming back to take advantage of the winds. It was a bit more bumpy, but I had fortified myself with a Dramamine cocktail (one part milk and two parts Dramamine). The flight back took less time than the trip up. We had a total airplane time of less than 11 hours. This made the trip less expensive than I thought. We had originally planned on about 14 hours.

To anybody who is even remotely thinking about Dayton, the suggestion is go ahead. Without a doubt this is one of the finer conventions you could attend. The guys in Ohio do a great job of assembling the show and the program. They have had a lot of experience since this was the 25th anniversary. Ohio is a nice place to visit and not really as dull as you might think (Especially since the convention isn't during the football season). All of which reminds me, I haven't checked with the Ohio Lottery Commission to see if the ticket I bought was a winner. You have a year to turn it in. I might check it out next year (Heh, heh). During the Dayton Convention for 1977 perhaps.

WA5EPK

FOR SALE MOTOROLA 41V, 34/94, 94/94, 10 WATTS OUT. SOLID STATE POWER SUPPLY, HOME BREW CONTROL HEAD. NOW INSTALLED AND OPERATING. TRY IT BEFORE YOU BUY IT. \$50.00. STAN, WA5YFI, 733-2239

WANTED SOMEONE TO TEAM UP WITH TO WORK THE VHF QSO PARTY JUNE 12-13. DANNY CLENDENNING, WB5ORL, 262-6671 AT HOME, 239-2466 AT WORK.

WANTED A GOOD 450 MHZ RECEIVING PREAMP. PREFER COMMERCIAL EQUIPMENT. JOE CHRISTIAN, K5HMD, 360-2128.

FOR SALE GALAXY 300 SSB HF TRANSCEIVER, 20, 40 AND 80 METERS. ALSO AC POWER SUPPLY WITH 24 HOUR CLOCK. BELONGS TO W5TKC AND HAS BEEN IN STORAGE FOR FIVE YEARS. HAS BEEN TESTED AND WORKS FINE ON ALL THREE BANDS. SEE AT, AND BUY FROM, W5JJ, 5824 N.W. 58 ST., WARR ACRES, OK 73122. PHONE 405 789-3788.

Hy-Gain Tri-Band Quad, excellent, new \$150, make offer. Johnson "Invader" 200", Xmtr, make offer. Two pretty, indoor only, cats, neutered and had shots, 3 years old, need good home and preferably together. FREE. Dale, K5WUF, phone 943-5438

EICO 753, Tri-Band Xcvr, 20-40-80, 200w PEP, matching AC power supply and speaker, \$125. Chuck, WA6QWQ, 5005 Ryan, OKC, phone 670-3276.

NEED a cathode ray tube, 5 amp for a HP 150 scope, Ed, W5OYW, 842-5444.

FOR SALE: 20 w audio amplifiers, speakers, tape decks, endless tapes, vibraflex & case, 3 general coverage receivers, RCA 7" scope, RCA 3" scope and a garage full more call Elmer, K5BKN at 943-4979

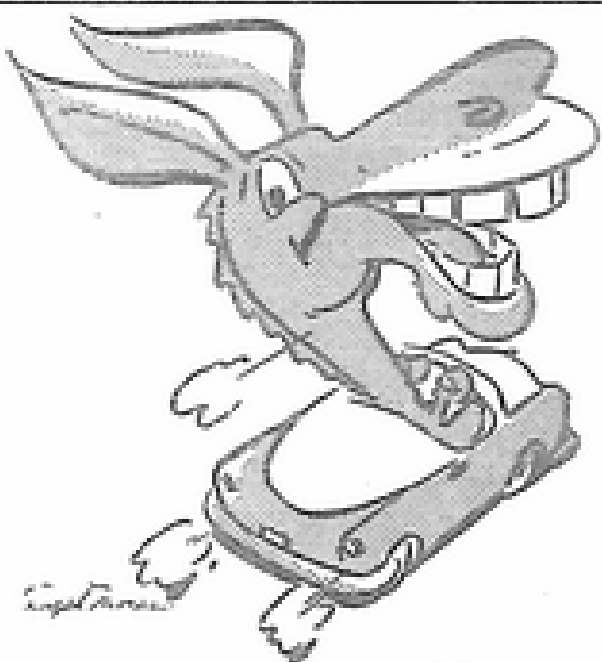
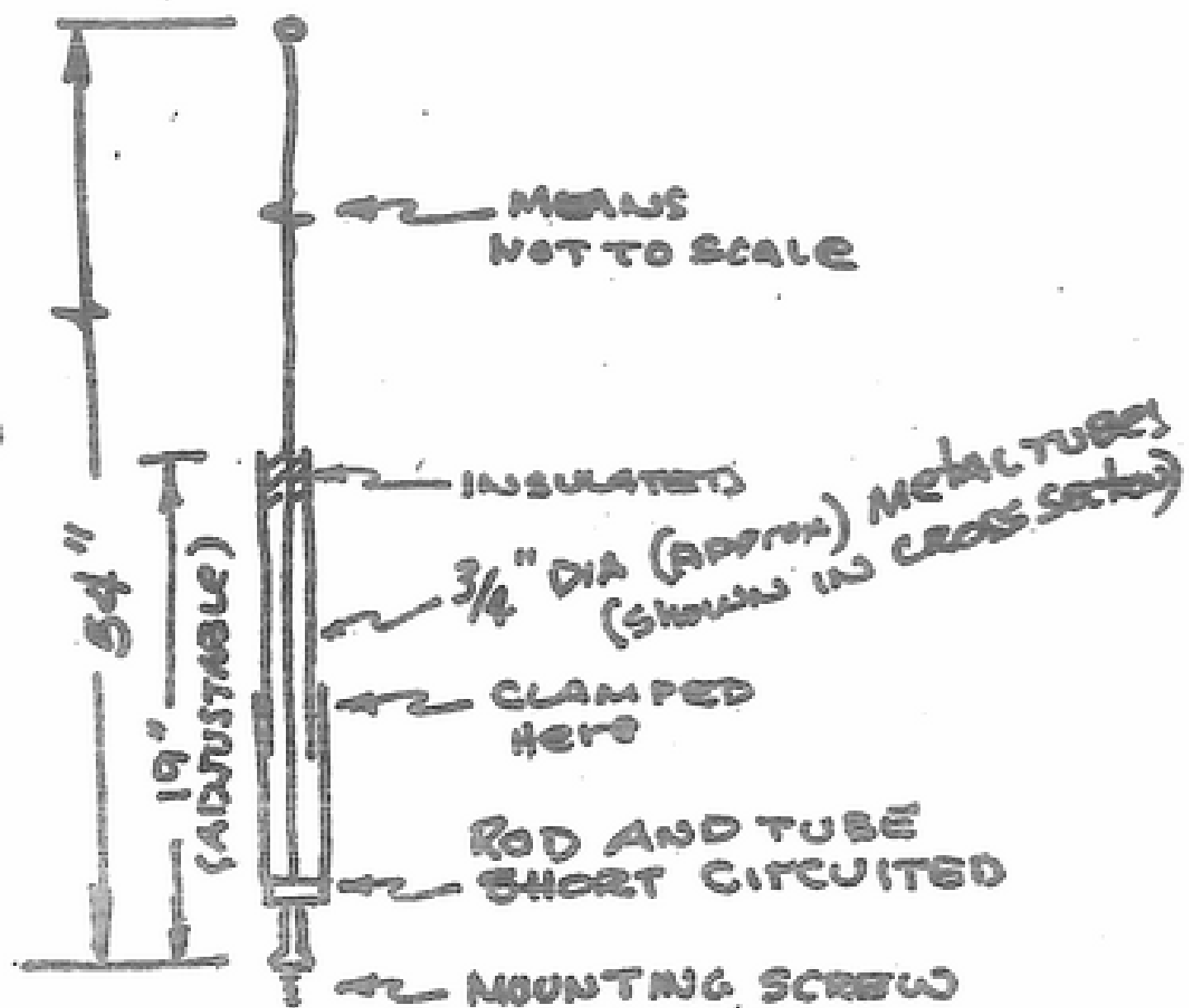
WHAT IS IT DEPT

FROM THE DAYTON
HAMVENTION FLEA MARKET.
GOOD DEAL ANTENNA?

LOOKS LIKE AN UP-SIDE-DOWN
MOBILE COAXIAL.

BARGAIN OR RUST?

JOE WAS TRC



The JACKASS

This is the showoff who risks his own neck and everybody else's by speeding and weaving. Or he may turn up as the stupid oaf who just doesn't savvy modern driving. In fact he is most any driver on the highway except you and me!

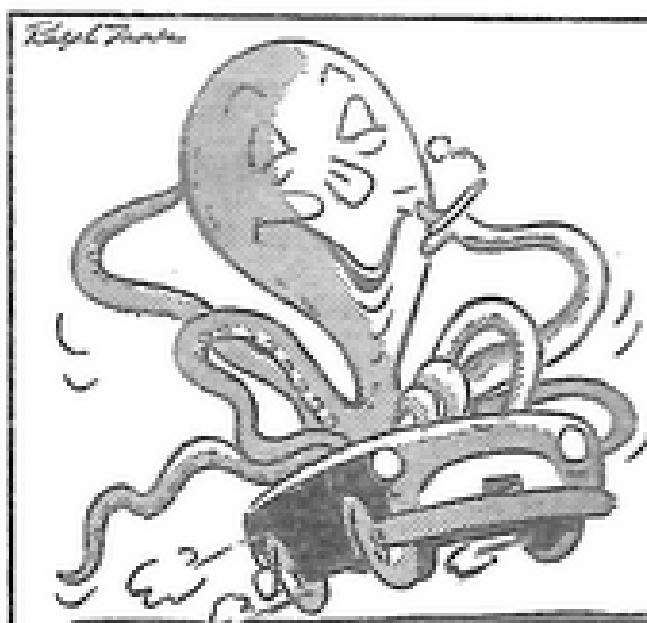
NATIONAL SAFETY COUNCIL



The JACKRABBIT

This is the scotch type who zigs and zags through traffic like a frightened bunny. He may be a fat, puffy old geezer who couldn't waddle 100 yards in 10 minutes. But behind the wheel of his car he's the shiftest, most swivel-hipped jerk on the road.

NATIONAL SAFETY COUNCIL



The OCTOPUS

This is the busy boy who is always reaching for something while he drives — the car roof, a cigarette, the lighter, the road map, the coat on the back seat, the popcorn bag and, at times, even the steering wheel. This big fish is all arms, and needs more.

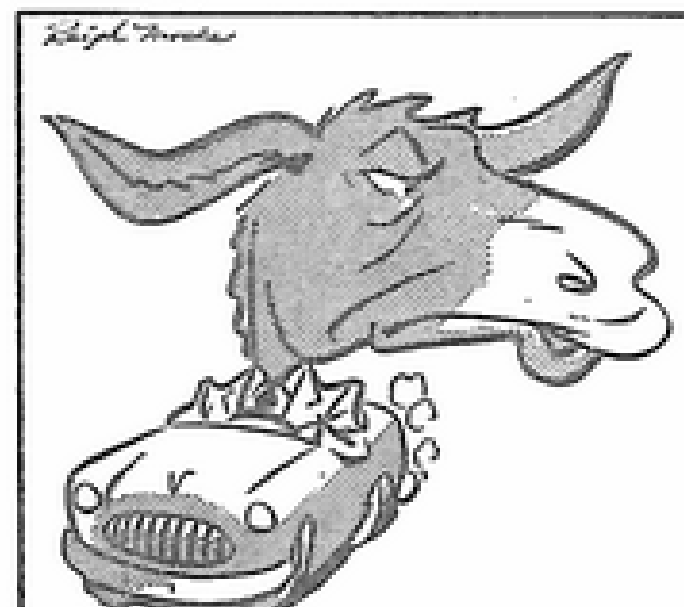
NATIONAL SAFETY COUNCIL



The ELEPHANT

This is the big, stalwart, unpassable type who plants himself in the middle of the road and slowly plods along. Accused of being a traffic hazard, he looks hurt and surprised and says, "Who me? I was only going 20!"

NATIONAL SAFETY COUNCIL



The MULE

This is the stubborn, immovable clod who deliberately double parks on a busy street while the wife or kid runs an errand. Only an oldtime artillery sergeant knows the right way to deal with a knothead like this.

NATIONAL SAFETY COUNCIL



The WOLF

This is the prowler, the rogue of the road, the cruising Casanova. He may be middle-aged, bald and a little winded. But he's giving every babe the eye, regardless. If he'd react to a stop light like he does to a doll, he'd be a dream driver instead of a traffic nightmare.

NATIONAL SAFETY COUNCIL

Every time you get into your automobile you run the risk of meeting up with one of these highway hazards. For your best protection, we suggest you drive defensively at all times, and, of course, carry adequate insurance to cover all eventualities.



Club NEWS

W5LOV
The Elmer Goodier Memorial
Station

MINUTES OF MAY MEETING

MEETING WAS CALLED TO ORDER 8:05 PM. MAY 21 1976 BY PRESIDENT TOM. W5OZE, WITH 14 MEMBERS AND GUESTS PRESENT.

IT WAS MOVED AND PASSED THAT THE MINUTES FOR THE APRIL MEETING BE ACCEPTED AS PUBLISHED IN THE CORA C&E.

TOM STINSON, W5OZE, AND BOB ASHBY, W5HXL, WERE ELECTED TO SERVE, WITH J. W. WORD, W5KFT, AS REPRESENTATIVES OF THE CLUB TO CORA.

ANNUAL PICNIC AT LAKE OVERHOLSER IS SCHEDULED FOR THE WEEKEND OF JUNE 12 & 13. THE DATE REPORTED IN LAST MONTH'S C&E IS INCORRECT. THE LOCATION IS UNCHANGED FROM PREVIOUS YEARS. IT WILL BE AT THE SHELTER LOCATED SOUTH OF THE DAM, ON THE EAST SIDE OF THE LAKE. BEST WAY TO FIND IT IS TO GO WEST ON 16 TH ST, FROM NORTH COUNCIL RD. ONLY SCHEDULED EVENT IS COVERED DISH DINNER AT NOON ON SUNDAY.

THE WATERMELON MEETING WILL BE IN AUGUST, REPLACING THE REGULARLY SCHEDULED MEETING. LOCATION WILL BE ANNOUNCED.

MUCH SURPLUS EQUIPMENT WILL BE TAKEN TO THE FIELD DAY SITE FOR SCROUNGERS TO LOOK AT. THINGS OF OBVIOUS VALUE WILL BE NEGOTIATED, THINGS OF LESS OBVIOUS VALUE WILL BE GIVEN AWAY.

I GAVE A MEDIOCRE TALK ON THE 555 TIMER INTEGRATED CIRCUIT AND THE MEETING WAS AJOURNED AT 9:15 IN FAVOR OF COFFEE, DONUTS AND FB EYE BALL QSO'S
JOE, W5TRS, SEC'Y

CONGRATULATIONS

ONE OF THE FINE YOUNG AMATEURS IN THE AREA DESERVES A PAT ON THE BACK, THOUGH HE WON'T ADMIT IT. LLOYD, W5HUP, GRADUATED FROM HIGHSCHOOL THIS SPRING AND BROUGHT HOME SIX AWARDS. THE ONLY ONES I COULD WORM OUT OF HIM WERE: SILVER LETZISER MEDAL FOR SECOND HIGHEST GRADE POINT AMONG THE BOYS, ENGINEERING AWARD CONSISTING OF A SCIENTIFIC CALCULATOR, MATHEMATICS AWARD, ETC. 'SHUCKS 'T WAS NUTHIN', HE SAYS.

NOVICE LICENSING

THE FCC IS STARTING, ON A TRIAL BASIS, A NEW LICENSE PROCEDURE FOR NOVICES CONSISTING OF ISSUING LICENSES TO THOSE INDIVIDUALS WHO SUCCESSFULLY COMPLETE AN APPROVED TRAINING COURSE. DETAILS CAN BE OBTAINED FROM THE FCC ON HOW TO QUALIFY AS AN APPROVED TRAINING INSTITUTION.

IC-230 MODIFICATIONS

THE FOLLOWING ITEMS WERE CONTAINED IN A PAMPHLET PREPARED BY ICOM EAST AND DISTRIBUTED AT THE DAYTON HAMVENTION.

HI-LO POWER MODIFICATION

THIS IS A SIMPLE MODIFICATION TO PROVIDE FOR A LOW POWER POSITION FOR THE IC-230. PIN #2 OF THE EPS MODULE CONTROLS THE VOLTAGE TO THE P.A. MODULE. BY LOWERING THE VOLTAGE TO THE P.A., DECREASED OUTPUT FROM THE RADIO RESULTS. THE MODIFICATION CONSISTS OF ADDING SPST SWITCH TO THE REAR OF THE CHASSIS BETWEEN THE COAX CONNECTOR AND THE SPEAKER JACK. WHEN ADDING THE SUB-MINIATURE SWITCH, MAKE SURE IT CLEARS THE SUB CHASSIS INSIDE THE RADIO. SOLDER A WIRE TO THE LIGHT GREEN WIRE ON THE EPS MODULE (PIN #2) AND RUN TO THE SWITCH. RUN THE RESISTOR FROM THE OTHER TERMINAL OF THE SWITCH TO GROUND. THE VALUE OF THE RESISTOR WILL VARY WITH EACH RADIO, BUT WILL NOMINALLY RUN BETWEEN 1500 AND 2200 OHMS. WHEN THE SWITCH IS OPEN THE OUTPUT IS 10 WATTS, AND WITH THE SWITCH CLOSED THE OUTPUT IS 1 WATT OR WHATEVER LEVEL YOU CHOOSE TO MAKE IT.

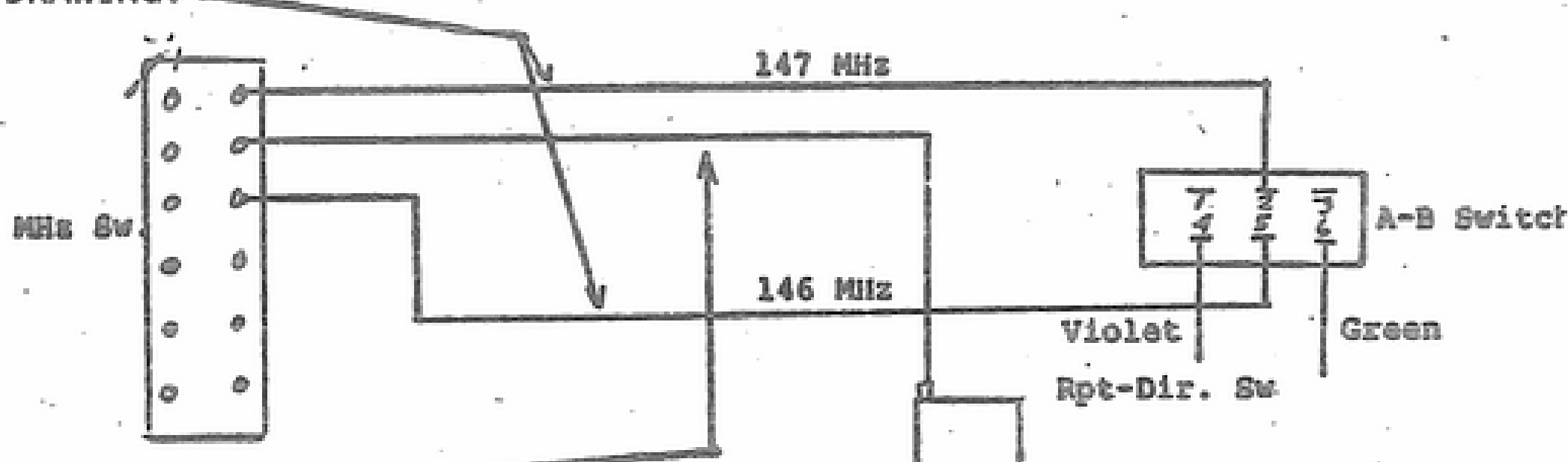
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|-------|-------------------|------------------------|-----------------|----------|
| W5TPJ | W T CRONNENWIT | 2566 CYPRESS | NORMAN OK | 329-0095 |
| W5TQB | PETE HOWARD | 1521 LESLIE LANE | NORMAN OK | 321-7634 |
| K8TQC | JOHN PENDLETON | 205 W JARMAN | MIDWEST CITY OK | - |
| W5TRS | JOE BUSWELL | P O BOX 10674 | MIDWEST CITY OK | 732-0676 |
| W5TSJ | TOMMY TODD | 1300 S W 62 | OKLA CITY OK | 685-3685 |
| W5TSL | MONTIE FISHER | BOX 19607 | OKLA CITY OK | 685-8334 |
| W5TUB | WM HODGSON JR | 3519 CCGDAL | ENID OK | 745-2643 |
| W5TY | RAY LONG | 3207 N W 47TH | OKLA CITY OK | - |
| W5TZG | JERRY PRESLEY | 612 VICTORIA DRIVE | YUKON OK | 354-6854 |
| K5TZS | JIM STANBERRY | 1925 EDGEWOOD DRIVE | EDMOND OK | 341-3391 |
| W5UCK | LEROY GRIMES | 2707 GRIMES AVE | EL RENO OK | - |
| W5UDY | JIM KENNEDY | 5808 N W 87TH ST | OKLA CITY OK | 721-5803 |
| W5UEG | BILL SOUTHERLAND | P O BOX 32465 | OKLA CITY OK | 721-3872 |
| W5UGZ | WILLIAM HULSE | 447 E CARSON LANE | MUSTANG OK | 376-2125 |
| K5UHZ | GEORGE MOORE | 1219 CCLORADO | CHICKASHA OK | 224-3861 |
| K5UIN | WOODROW WELLING | 274 E 3RD | LOGAN UT | - |
| W5UUK | WALTER DAVIS | P O BOX 689 | WARNER ROBIN GA | - |
| W5UNL | MARSHALL WILLIAMS | 7724 N W 12TH | OKLA CITY OK | 787-9292 |
| K5URJ | PERRY MCWHORTER | 3418 N W 29 | OKLA CITY OK | 946-1532 |
| W5USW | K L MCCOLLOUGH | 1529 HOLLYWOOD | NORMAN OK | 329-3907 |
| W5UVI | W H THOMPSON | 2505 STILL MEADOW ROAD | EDMOND OK | 348-1475 |
| W5VAG | HAROLD TODD | 1300 S W 62 | OKLA CITY OK | 685-3685 |
| W5VCJ | STEVE STEVENS | BOX 976 | EDMOND OK | 341-8486 |
| W5VHN | LESTER ROBERTS | CEDAR HILL RT BOX 249 | NEWALLA OK | 964-5164 |
| W5VIL | CLYDE JOHNSON | 9 E JANICE | YUKON OK | 354-1657 |
| W2VQS | FRED HOWELL | 3901 ROSEWOOD DRIVE | MIDWEST CITY OK | 733-1341 |
| W5VRE | TED GOULDEN | RT 1 BOX 276 | YUKON OK | - |
| K5VRL | JIM WILLIAMS | 6400 N W 30 TERRACE | OKLA CITY OK | 789-0769 |
| K5VRL | JIM WILLIAMS | 6400 N W 30 TERRACE | BETHANY OK | 942-0536 |
| W5VUK | DON WILLIAMS | 1815 PETER PAN | NORMAN OK | 364-6475 |
| K5VVZ | KENNETH EASON | 7132 N W 21 | BETHANY OK | 789-2200 |



Club NEWS

WSLOW
The Elmer Goodier Memorial
Station

7. INSTALL A NEW PAIR OF WIRES FROM THE A-B SWITCH TO THE MHZ SWITCH AS SHOWN IN THE DRAWING.



8. SOLDER A NEW WIRE FROM THE REPEAT CONTACT OF THE DIRECT-REPEAT SWITCH (WAS ORIGINALLY THE ORANGE WIRE FROM PINS 2 AND 5Y ON THE A-B SWITCH) TO THE SECOND TERMINAL FROM THE REAR OF THE MHZ SWITCH.
9. SOLDER THE GREEN WIRE TO PIN 6 AND THE VIOLET WIRE TO PIN 4 OF THE A-B SWITCH.
10. MOUNT THE A-B SWITCH BACK IN ITS ORIGINAL POSITION ON THE CHASSIS.
11. ENERGIZE THE RADIO.
12. TRANSMIT ON A 146 MHZ REPEAT CHANNEL WHILE COUNTING THE OUTPUT. TRANSMIT FREQUENCY SHOULD BE 600 KHZ BELOW RECEIVE FREQUENCY.
13. TRANSMIT ON A 147 MHZ REPEAT CHANNEL WHILE COUNTING THE OUTPUT. IT SHOULD BE 600 KHZ HIGHER THAN THE RECEIVE FREQUENCY. CHANGE THE A-B SWITCH AND OBSERVE THE REVERSE.
14. REPLACE THE CASE ON THE IC-230.

THE IC-230 WILL AUTOMATICALLY TRANSMIT 600 KHZ LOWER IN THE 146 MHZ POSITION AND 600 KHZ HIGHER IN THE 147 MHZ POSITION WHEN IN THE REPEAT POSITION AND A POSITION. IF YOU WANT TO REVERSE THIS, SLIDE THE A-B SWITCH TO THE B POSITION. THIS SWITCH WILL NOW NORMALLY BE LEFT IN THE A POSITION.

THE A-B SWITCH NOW BECOMES NORMAL IN THE A POSITION AND REVERSE IN THE B POSITION.
ICON EAST

AUTOMATIC BATTERY CHARGER CONTROL

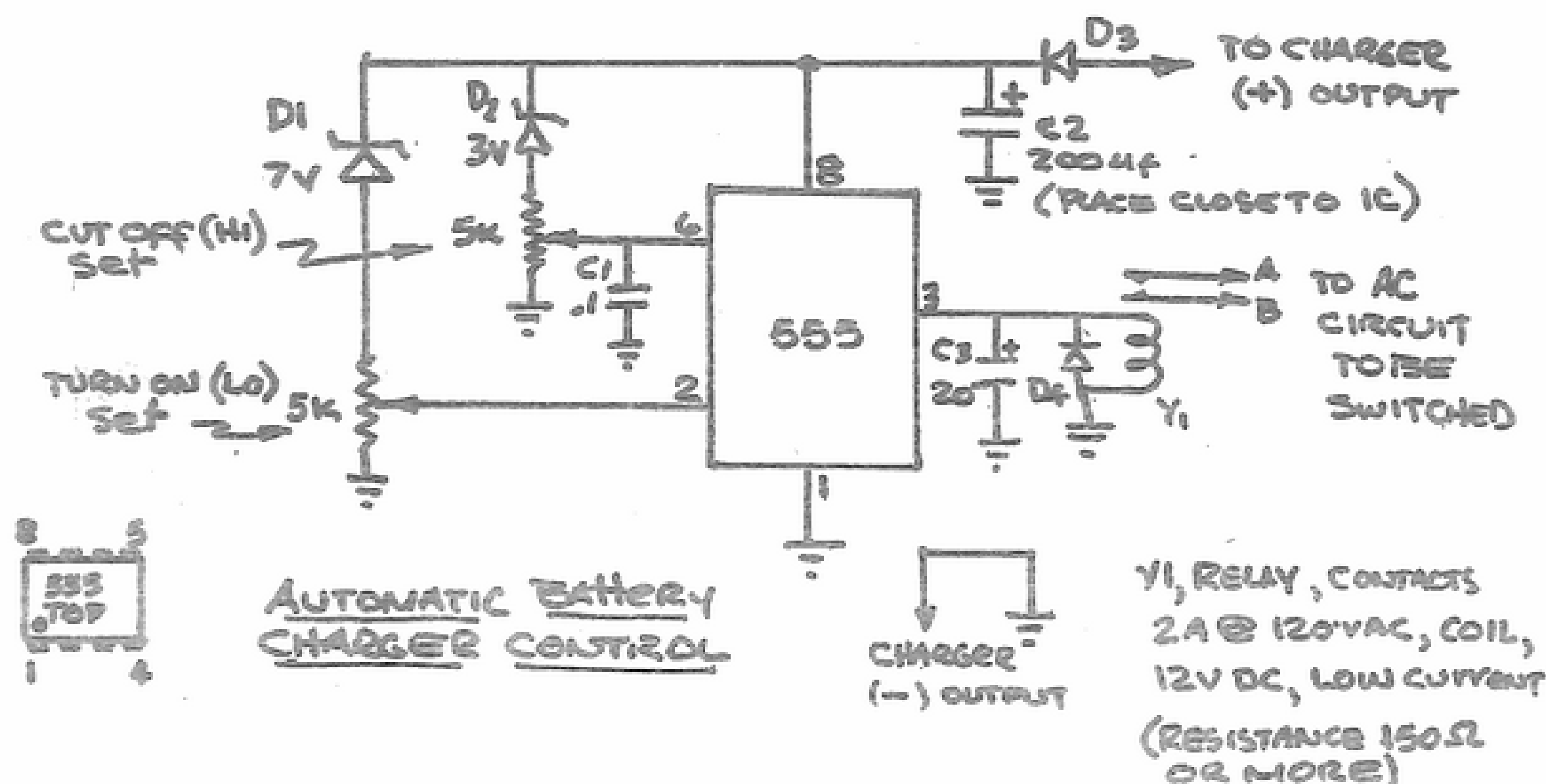
THIS IS A CIRCUIT WHICH CAN BE ADDED TO AN AUTOMOTIVE TYPE BATTERY CHARGER OR INCORPORATED INTO A HOME BREW CHARGER CIRCUIT FOR LEAD-ACID TYPE BATTERIES.

UNDER MY RADIO BENCH IS A LEAD ACID BATTERY THAT PROVIDES HIGH CURRENT AND FAIRLY WELL REGULATED SOURCE OF POWER FOR SOLID STATE TRANSMITTERS, INCLUDING THE ATLAS 180 WHICH REQUIRES 16 AMPS ON VOICE PEAKS. I HAD BEEN HOOKING VARIOUS CHARGERS TO THE BATTERY ON AN OCCASIONAL BASIS AND OBSERVING TERMINAL VOLTAGE TO KNOW WHEN TO DISCONTINUE CHARGING. ON A COUPLE OF OCCASIONS, I LEFT THE LARGE BATTERY CHARGER ON A LITTLE TOO LONG, CAUSING A CERTAIN AMOUNT OF OUTGASSING FROM THE BATTERY.

AFTER OBSERVING THE METHOD OF AUTOMATICALLY MAINTAINING CHARGE ON EMERGENCY LIGHTING UNITS, I DECIDED TO CONSTRUCT AN AUTOMATIC CONTROL FOR MY CHARGER SO IT COULD BE UNATTENDED. THE CIRCUIT WOULD BE EQUALLY WELL ADAPTED TO A TRICKLE CHARGER THAT WAS USED TO KEEP A BOAT BATTERY ALIVE AND WELL DURING THE WINTER MONTHS.

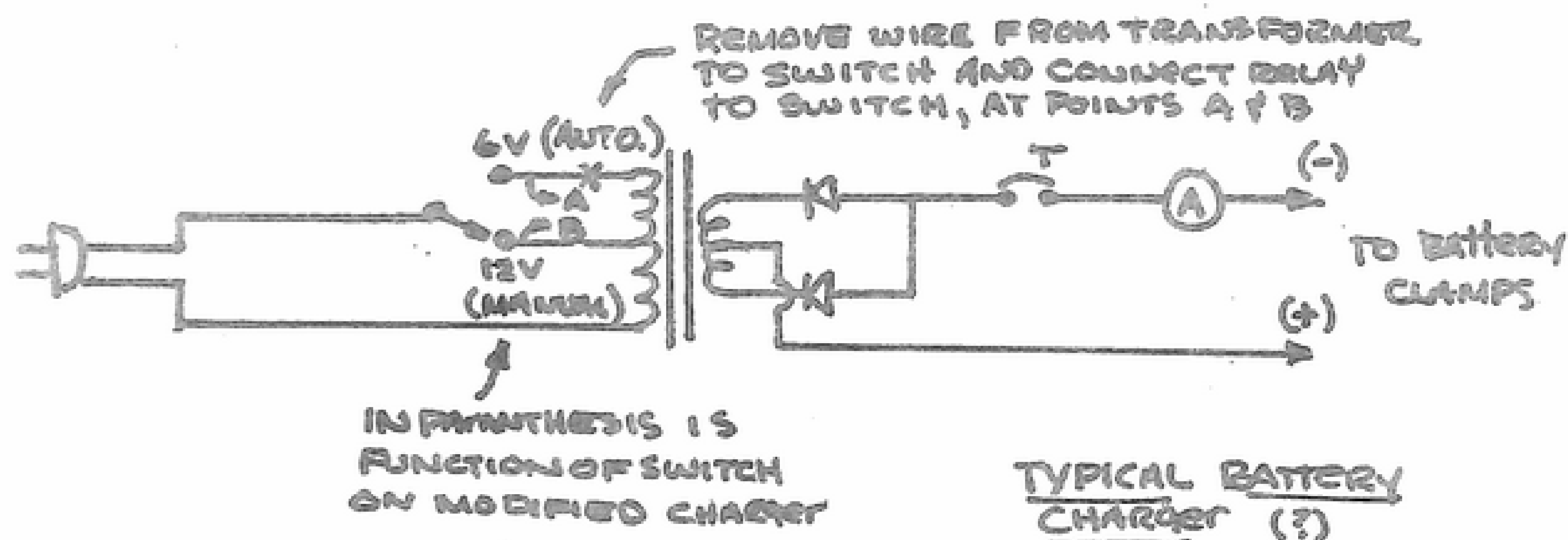
MY FAVORITE INTEGRATED CIRCUIT, THE 555 CONTAINS TWO VOLTAGE COMPARATORS. EACH ONE COMPARES VOLTAGE ON AN EXTERNAL PIN TO AN INTERNAL REFERENCE VOLTAGE DERIVED FROM A RESISTIVE VOLTAGE DIVIDER. SEE THE SCHEMATIC. VOLTAGE ON PIN 2 IS COMPARED TO A REFERENCE VOLTAGE OF 1/3 OF THE SUPPLY VOLTAGE PLACED ON PIN 8. PIN 6 VOLTAGE IS COMPARED TO 2/3 OF THE VOLTAGE ON PIN 8. FOR EXAMPLE, IF PIN 8 HAS 12 VOLTS ON IT, PIN 2 IS BEING COMPARED TO 4 VOLTS AND PIN 6 IS COMPARED TO 8 VOLTS.

THE OUTPUTS OF THE COMPARATORS GO TO SOME DECISION MAKING LOGIC. HOOKED UP IN THIS CIRCUIT, PIN 3, THE OUTPUT, GOES HIGH WHEN PIN 2 DROPS BELOW 1/3 SUPPLY VOLTAGE. WHEN PIN 6 GOES ABOVE 2/3 SUPPLY VOLTAGE, PIN 3 GOES LOW. THE ZENER DIODES ARE ADDED TO THE CIRCUITS TO PINS 2 AND 6 TO MAKE THEIR RESPECTIVE VOLTAGES VARY QUICKER THAN THE INTERNAL REFERENCE VOLTAGES. THE POTENTIOMETERS ARE TRIM POTS THAT ADJUST THE TURN-ON AND TURN-OFF POINTS. IN OPERATION, AS THE SUPPLY VOLTAGE DECREASES-



ES, VOLTAGE ON PIN 2 DROPS QUICKER THAN THE INTERNAL REFERENCE VOLTAGE. WHEN THEY ARE EQUAL, THE 555 "TURNS-ON." WHEN THE SUPPLY VOLTAGE RISES, THE VOLTAGE ON PIN 6 RISES QUICKER THAN THE INTERNAL REFERENCE VOLTAGE. WHEN THEY ARE EQUAL, THE 555 TURNS OFF.

THE ONLY PROBLEMS I HAD WERE WITH THE RELAY CONTACT STICKING BECAUSE OF UNDERRATING. WHEN THE RELAY WAS REPLACED WITH A HEAVIER ONE, THE 555 BEGAN TO ACT UP AND OSCILLATE. IT WAS NECESSARY TO ADD THE DIODE, D3 AND CAPACITOR C2 TO CLEAN UP THE TURN-OFF FUNCTION. IT APPEARED THAT THE RIPPLE FROM THE CHARGER WAS CAUSING THE 555 TO OSCILLATE DURING TURN-OFF. CAPACITOR C1 WAS ADDED FOR THE SAME REASON. CAPACITOR C3 AND DIODE D4 WERE ADDED BECAUSE THE INDUCTIVE KICK FROM THE RELAY WAS CAUSING INSTABILITY. THE 555 IS CAPABLE OF PUTTING OUT 200 MA SO THERE SHOULD BE NO PROBLEM FINDING A 12 VOLT RELAY THAT WOULD WORK. MY RELAY DRAWS ABOUT 60 MA AT 13 VOLTS.



I SUPPOSE MY CHARGER IS A TYPICAL ONE, HAVING PROVISIONS TO CHARGE 6 OR 12 VOLT BATTERIES. A SWITCH ON THE PANEL WAS CONVERTED FROM 6-12 VOLT FUNCTION TO AUTOMATIC-MANUAL FUNCTION BY DISCONNECTING THE TRANSFORMER WINDING PROVIDED FOR 6 VOLT BATTERIES. THE RELAY CONTACTS WERE CONNECTED TO THE SWITCH CONTACTS AS SHOWN IN THE SCHEMATIC. THE MANUAL FEATURE WAS RETAINED BECAUSE SOMETIMES A WEAK SULPHATED BATTERY WILL NOT CHARGE UNLESS THE VOLTAGE IS HELD ABOVE THE NORMAL CUT-OFF VOLTAGE.

THE TRIMMERS WERE EXPERIMENTALLY ADJUSTED SO THAT CHARGE WOULD START WHEN THE BATTERY DROPPED TO 12.4 VOLTS AND STOP WHEN THE VOLTAGE REACHED 14 VOLTS. ANOTHER BATTERY WITH A DIFFERENT LIFE HISTORY MIGHT REQUIRE DIFFERENT SET POINTS BUT GENERALLY THESE VALUES SHOULD BE SATISFACTORY FOR A GOOD BATTERY. JOE, WA5TRS

FOR SALE: COMPLETE HAM STATION, Drake t-4Xc, R-4C w/noise blanker, AC power supply, spkr, CW filter, C-4 station console, IC-21 2m Xcvt, Yaesu FT-101 w/ complete set extra circuit boards. FD-101, SB-101, new Ham -M rotor. new TH3-MK3 antenna, 4 mikes, Yeasu Y-350 freq counter (0-265 mHz) + misc. \$2500. Will split. Norm Crawford, phone 721-8895.



EDMOND AMATEUR RADIO CLUB, Inc.

PROBLEMS IN MAKING A REPEATER WORK GOOD:

In case you are not aware of it, there is a repeater on the 147 band here in Oklahoma City. 147.63 in 147.03 out has been on the air for 537 days except for minor repairs and three moves from which you can minus about 5 days total off the air since Dec. 2nd. 1974. I put the repeater on at my house on that date after much frequency coordination and moving. It started as 146.01/61 in June 1974, went to 146.37/97 in Sept. 1974, and settled at 147.63/03 Dec. 2nd. 1974, as the most compatible freq. for the least amount of interference to other frequencies. On April 26, 1975 it moved to 105 W. 3rd. Edmond, Oklahoma on the grain elevator where at 175 feet and a 12 DB gain antenna proved to be a good rural rpt. In Dec. 1975 it was moved again to 3555 N.W. 58 on the west building. 155' high on a big hill it should have covered Oklahoma City great. Guess Murphys Law is still working because this location stinks. Our coverage dropped by 1/3. So on again we moved.

From the first day we dreamed of a great system for all hams to use with no charge to maintenance. Well at last I believe we have it. Thanks to KOCO TV and my 2 years of bargaining we now enjoy a repeater which transmits and receives (full duplex) at 1,000 feet. In case you are not aware of it 7/8 inch heliax costs \$2.80 a foot. and for a minimum of 1,000 feet that is \$2,800.00 on the spool. Our system is in the Motorola Hut at the bottom of KOCO tower. This is very handy for repairs, and helps clearing time when the system goes down.

WR5AHG is licensed to Dennis Orcutt, WB5ISN and the repeater receiver, transmitter, autopatch, duplexer, 1,050 ft. 7/8 heliax belong to Dennis Orcutt WB5ISN, Bart Wortham WA5JUU, & Larry Dillard WB5CWB. Only the antennas and R.X. power supply belong to the Corp. The three of us lease the equipment for \$1.00 a year to the club.

The club is open to all to use, but it is supported by a closed membership of 30 people who have autopatch privileges.

We have the equipment and are going to put on a repeater on 146.01/61 receiving on the grain elevator at 175' and transmitting at my house at 100'. Also we are going to put on a repeater on 449.2 in 444.2 out.

Dennis Orcutt WB5ISN

There will be a special meeting of the edmond amateur radio club on thursday evening june 10 at KOCO TV studio at N.W. 63 and Portland at 8:30 P.M. I hope to see all of the members at the meeting.

Procedure for signing off with the repeater after autopatch calls is use disconnect sequence first and then sign out with the repeater: WR5AHG -WB5ISN CLEAR. It is not necessary to call it Repeater because it doesn't know what it is and the "R" in the call means repeater. TRY if you can to keep the patch calls down to two minutes because of the summer heat in the hut and the heat of the transmitter is too much, and I don't think the T.X. can stand it. Also please try to let the T.X. drop out before you start to trans. this will give the plates and other members a break. ANY QUESTIONS OR COMPLAINTS 341-4200 or 4283.

DENNIS ORCUTT WB5ISN WR5AHG

FROM HR REPORT

The FCC has approved ARRL's training concept to be tried as an experimental one-year program.

A new VHF Power Mosfet, by Siliconix, announced publicly for the first time at the West Coast VHF/UHF Conference in Santa Clara May 1 and 2, is another highlight. The device provides 15 db gain at 144 MHz, has power dissipation of 35 watts and will withstand infinite VSWR. A two meter linear amplifier using the device will appear in September HAM RADIO.

The most unusual Amateur Radio Newspaper of 1976 Award has to go to Pueblo Ham Club's April issue of GRID LEAK - printed by teleprinter, it's 27 feet long and took four hours to transmit.

FCC study guides for Amateur licenses are available from the FCC. Call nearest FCC Office or write Washington for the one you need.

FCC FORM 610, the application for an Amateur license, is not currently available from the FCC in Washington. Their supply is exhausted and won't be replenished until a revised Form 610 that is currently being developed receives final OK and can be printed -- and that's probably three months off!

Both Ham Radio and ARRL do have some stocks of Form 610 and Ham Radio plans another printing "just in case". A photocopy or other reproduction of Form 610 may also be used -- the only stipulation is that reproductions must be the same size as the FCC original.

EMERGENCY PUBLIC SERVICE PHONE PATCH is now available on 07/67 which is WR5ADF. With this facility, you will be able to call the Oklahoma City Police, the Oklahoma City Fire Department and the Emergency Operating Center (EOC) 24 hours a day. The traffic signal repair may be called between 8 AM and 4:30 PM Monday through Friday. For traffic signal problems at other times, call the EOC.

The numbers are:

| | | |
|-----------------------|---------|----------|
| Oklahoma City Police | - - - - | 231-2121 |
| Oklahoma City Fire | - - - - | 235-1313 |
| EOC | - - - - | 231-2255 |
| Traffic signal repair | - - - | 231-2649 |

This is not intended to be an open autopatch. Because of this, you will be restricted to the "231" and "235" exchanges. Also you are responsible for logging a public service call that you make since it is third-party traffic. We urge you also to report such calls to the editor of C&E or the MORI editor for possible publication and use in public service records.

PROCEDURE.

1. Get the exact location of the trouble and nearest intersect street.
2. Give your call and push the # and the 6. Listen for the dial tone.
3. Dial 2 and listen. If you hear the dial tone, try the 2 again. The first number the system will accept is the 2. If the dial tone stops, dial the remainder of the number.
4. Deliver message. Time is 30 seconds which is reset each time you key the repeater. If party talks longer than 30 seconds, just key it up again.
5. After your message is delivered and before you disconnect, give the date and approximate time. Give your call and say "clear of WR5ADF".
6. Then disconnect by pushing #.

-- -- Ken, K5VVZ



TEAR ON THE DOTTED LINE, OR SEND THE WHOLE PAGE, TODAY

PRE-REGISTRATION FOR OKLAHOMA HAM HOLIDAY
SOUTHGATE INN - OKLAHOMA CITY - 7 & 8 August 1976

NAME _____ Call _____ Lady _____

Street _____ City _____ State _____ Zip _____

Mail check (\$3.00 per person registered) to HAM HOLIDAY, Box 20567, Oklahoma City OK 73120.
Letter must be postmarked NO LATER THAN 2 August to be eligible for the pre-registration award for which you are eligible whether you are in attendance or not. Register as many people as you wish. Just list and enclose \$3 for each.

FREE Fleamarket tables will be reserved by number. Non-Commercial only. RESERVE ME A FLEAMARKET TABLE. ☐

We will stay at Southgate Inn. Reserve (Single) (Double) for me. Dates _____ ☐

We expect to utilize the BUFFET Saturday evening. _____ ☐

We WILL make the BUFFET Sunday before the awards. _____ ☐

YOUR TICKETS WILL BE HELD AT THE RESERVATION DESK UNLESS YOU SEND s.a.s.e.!

OKLAHOMA

HAM HOLIDAY

AUGUST 7 & 8, 1976

IN THE "TROPICAL MALL" AT THE
BEAUTIFUL SOUTHGATE INN -
I-35 SOUTH IN OKLAHOMA CITY

FUN FOR EVERYONE

BRING THE ENTIRE FAMILY FOR
A MINI VACATION

REGISTRATION FEE:
\$3.00 IN ADVANCE
\$4.00 AT THE DOOR

LOTS OF GOODIES

MEN'S GRAND PRIZE

LADIES' GRAND PRIZE

ADVANCE REGISTRATION PRIZE

(You need not be present to win,
but your ticket must be.)

Following each program, atten-
dance prizes will be awarded.
YOU MUST BE PRESENT TO WIN.

The MAJOR PRIZE AWARDS will
be SUNDAY at 1:00 p.m.

THE ZANY NEWS FREQUENCY

Joe, WA5ZNF

I SUPPORT A R R L - - In fact I became a member before I had a novice ticket. I also "support" Ma Bell because that's the only phone company in town but that's not the kind of support I am talking about even tho the league is the only one around - - so -- last year when CORA was planning HAM HOLIDAY and it was suggested that it be combined with a state ARRL convention I was in favor of it and it worked out so well that "everyone" said let's do it again next year, thus the first publicity and pre-registration forms carried the logo - HAM HOLIDAY AND state ARRL convention since those who did the work last year thought they had the concurrence of the West Gulf Director for another state ARRL convention this year.

To make a long story short, the Texas VHF Society pre-empted the plans to have the Director's Approval by scheduling their meeting, which is not an ARRL function to my knowledge, the same time as ours so when CORA meets Friday night, 28 May it is expected that they will vote to drop all reference to ARRL - - BUT THERE WILL STILL BE A HAM HOLIDAY - in fact the pre-registration forms are rolling in. There is another one printed in this issue so turn to it, tear it out, write your check and mail it in. If you want a table, free, in the fleamarket you had better do it soon since they will be reserved by number and when those available are gone you may have to swap and trade from the trunk of your car.

* * * * *

I RECEIVED A COMPLIMENT - - well, sort of. John, W5A/K, dropped a note calling my attention to the fact that his addressograph plate had his call and Zip code wrong (Norman is in the process of changing Zips) but he has never met me and apparently hasn't seen a photograph or he wouldn't have added "you young ones - - -". Somehow he seemed to know that although I am over Social Security age that I'm still "young in heart".

He used the insert from the May issue - wish he and a lot of others would use it to send in news, at least notes or an invitation to call them and get the outline and facts of a story. They have been coming in, five or so, so far but mostly ads which by the way are free to you unless you are in business.

* * * * *

WANT TO CHECK UP ON AN AMATEUR FRIEND? - - If he is a member of CORA, and everyone who belongs to one of the six affiliated clubs is a member, you will have a roster that will give you his call, address and telephone number, that is you will have it if you remove the center section, pages 11 thru 26, of this issue and keep it handy. It is designed to be removed and not ruin your copy of C&E. One of our editors who uses autopatch pretty regularly plans to carry his in his car. The roster was furnished at no cost to CORA by Harold Plunk, K5GBF, and since it was computer prepared the cards will be maintained and when significant changes are made a new one will be issued, in the meantime I will try and keep your copy up to date by publishing changes and new listings as they occur or are reported to me. Probably next month there will be a lot of corrections so if anything is wrong with your listing call me (737-1044) and let me know.

* * * * *

WRITTEN CW TESTS are likely to be with us for some time to come despite the recent relaxation of the rules to permit code "comprehension" exams (HR Report 85). The new procedures still haven't been firmed up, and even after they are it will take a while before new tapes and matching examinations can be produced and distributed. The change should take place some time this year, though -- late fall seems likely.

hr Report

| JUNE HAM HAPPENINGS | | | | | | |
|----------------------|----------------|----------------------|-----------|----------|-----------------------------|------------------------------|
| SUNDAY | MONDAY | TUESDAY | WEDNESDAY | THURSDAY | FRIDAY | SATURDAY |
| | MEMORIAL DAY | (BLUE MONDAY) 1 | 2 | 3 | ACARC MEETS 8:00PM 4 | 5 |
| 6 | 7 | MORI EOC 8:00PM 8 | 9 | 10 | 11 | PICNIC LAKE OVERHOLSER 12 |
| MORE PICNIC 13 | 14 | 15 | 16 | 17 | VHF CLUB MEETS 8:00PM 18 | 19 |
| 20 | EDIT C&E 21 | 22 | 23 | 24 | 25 | FIELD DAY 26 |
| MORE FIELD DAY 27 | 28 | 29 | 30 | | | |

SEE PAGE 2 &/or CLUB SECTIONS FOR TIMES AND PLACES

amateur radio



NEW & USED EQUIPMENT

Open Monday--Saturday 9-6
682-2929

RADIO STORE

59th & South Penn, Oklahoma City, Oklahoma