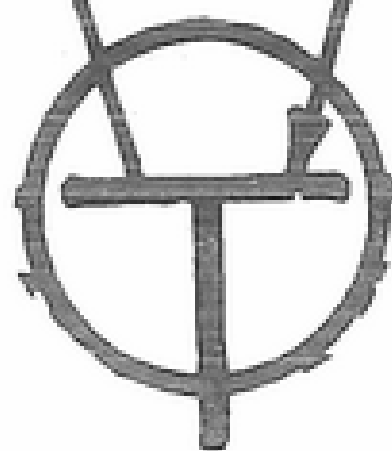
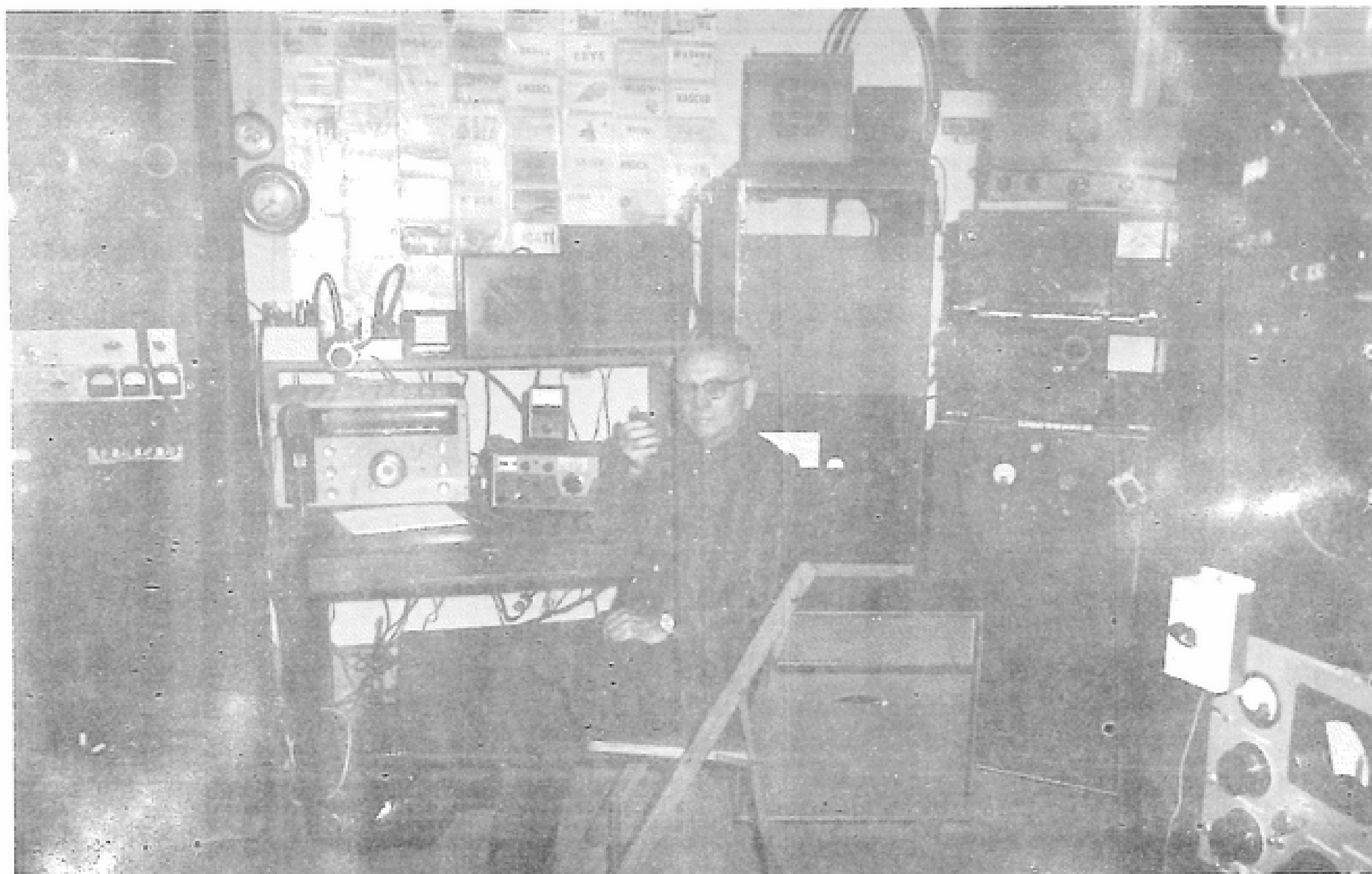


Central Oklahoma Radio Amateurs

COLLECTOR AND EMITTER



APRIL 1975



Who was W5LOW??...The call W5LOW, familiar to those who have worked the storm activities in recent years, is known to be the call of the Oklahoma Central VHF Amateur Radio Club Station, located at Red Cross Headquarters at NW 10th & Hudson.

W5LOW is the call of Elmer Goekler who became a Silent Key several years ago. He was known to all the area amateurs who worked any of the several nets, HF through VHF. He was known by many youngsters who got their initial training & help through his patient tutorage. He was known by several "homebrewers" who got advice and inspiration from Elmer's building experience. A casual glance at the equipment surrounding Elmer in the cover picture will reveal that there wasn't any kind of project he wouldn't try. You'll notice that he was smart enough to acquire that little Drake rig setting on his desk, when SSB threw "King AM" out on his ear!

Elmer was summed up one way by those who knew him. There may have been some people he didn't like but you never would know it. He never had a bad thing to say about anyone...

The CORA Collector and Emitter is published monthly by CORA for the participating Amateur Radio Clubs in the Central Oklahoma area. Material contained herein may be reprinted without prior permission with credit given this publication. Address all correspondence to CORA Collector and Emitter, Box 15013, Oklahoma City, OK 73115.

Managing Editor	Jim D. Stanberry	K5TZS	341-3391
Editor for ACARC	Don Templeman	WN5NIY	787-7174
Editor for MORI	Jim Williams	K5VRL	942-0536
Editor for OCVHF	Joe Buswell	WA5TRS	732-0676
Editor for OKCAP	Larry Dillard	WB5CWB	685-4065

Central Oklahoma Radio Amateurs (CORA) Inc. was organized to enhance the cooperation of Oklahoma Amateur Radio Clubs in sponsoring activities of mutual interest to the Clubs and Radio Amateurs. Participation in specific CORA activities is optional with the individual Clubs. CORA officers are:

President	Ken Kendrick	WB5ECJ	751-4917
Vice President	Gary McCormick	WA5ETV	946-2898
Secretary	Ellard Foster	W5KE	789-6702
Treasurer	Jim Jones	K5PER	634-5235

Participating clubs for CORA Collector and Emitter:

AERONAUTICAL CENTER AMATEUR RADIO CLUB, INC.

Postal Station 18, Oklahoma City, OK 73169

Meetings: 8:00 p.m. on first Friday each month, Flight Standards Building, FAA Aeronautical Center. Club Station W5PAA.

President	Bob Ashby	W5HXL	942-5375
Vice President	Al Prince	WB5KCU	789-1160
Secretary/Treasurer	Bill Oliver	K5KDR	329-6333
Asst to President	Ken Ford	WB5KHU	528-8770

OKLAHOMA CENTRAL VHF AMATEUR RADIO CLUB, INC.

323 N. W. 10, Oklahoma City, OK 73103

Meetings: 8:00 p.m. on third Friday each month, American Red Cross, 323 N. W. 10. Club Station W5LOW.

President	Carl Drumeller	W5JJ	789-3788
Vice President	Tom Stinson	W5OZE	942-3714
Secretary	Jef Casey	WB5GWB	528-0252
Treasurer	Ellard Foster	W5KE	789-6702

MID-OKLAHOMA REPEATOR, INC.

Meetings: 8:00 p.m. Tuesday of first full week each month, Oklahoma City EOC, 4600 N. Eastern. WR5ADE 34/94
WR5ADF 07/67

President	Bill Noland	WA5FWD	354-5018
Vice President			
Secretary/Treasurer	Don Graham	WA5TAW	733-3044
Mail dues to Sid Gerber, 829 E. Bouse, MWC, 73110			

OKLAHOMA CITY AUTOPATCH ASSOCIATION, INC.

Meetings: 8:00 p.m. on third Monday each month. WR5ACB 22/82
147.81/21

President	Frank McCollom	WB5JBL	751-3577
Vice President	Larry Dillard	WB5CWB	685-4065
Secretary/Treasurer	Jim Denman	WB5EOL	681-6048
7705 S. Charlotte Drive, Oklahoma City, OK 73159			

Subscription Price: \$3.50 per year to non-affiliated club members



THE PRESIDENT'S CORNER

Oklahoma's severe weather got off to an early start this season with the tornadoes striking Duncan and Altus. Loss of power in some areas and demolished antennas left two meter FM as the only amateur communications with these locations during the early part of the emergency. Stations in Lawton were relaying Altus traffic, while stations in Marlow were relaying Duncan traffic on 3900 kHz. The Oklahoma severe weather net was active most of the weekend, March 1/2, with various net controls and a lot of traffic, mostly health and welfare, moving in and out of both locations. In all, Amateur radio performed very well during this emergency. With a certainty of more tornadoes and severe weather to come this season, it is a good time to prepare your station for them. Do you have emergency power available? Do you have portable antennas that can be erected where needed? Have you brushed up on your net operating and traffic handling procedures?

At the last CORA meeting, assignments for next August Ham Holiday were parcelled out to the participating Clubs. We have the Publicity and Registration. Al Prince, WB5KCU, will chair this committee. He has some assistance promised and can use some more as the time gets closer to August. Give him a call and offer your help.

Don Templeman, WN5NIY, has agreed to accept the appointment as Editor for our input to the CORA Collector and Emitter. Please give Don your support and some news items that he can include to make the C & E more interesting reading for all our members. While on the subject of appointments, George Lagaly, W5NTL, has agreed to serve as our Emergency Coordinator for ACARC.

With Spring just around the corner, hopefully we will be having some good weekend weather for travel to the Oklahoma Lakes and Parks to enjoy some outdoor recreation and loafing. This is also a good opportunity for checking out the gear for portable operation. The "porta-shak" is ready to go as soon as the weather gets with it. I used up the one good Saturday we had in early March to check the brakes and install a new refrigerator. Needless to say, but I will anyway, I'm ready to head out on the next good weekend.

73
Bob W5HXL

OKLAHOMA AMATEUR RADIO PICNIC/CAMPOUT

This has become an annual affair at the Lake Overholser Picnic Shelter. It is scheduled for June 21/22, 1975, one week before field day. This is a completely informal affair, with no planned activities other than a covered dish dinner at noon on Sunday. Overnight camping is permitted, so plan on bringing your trailer, camper or pup tent and spend a weekend of leisurely loafing and "eye ball" QSO's, or come out and visit as your time permits.

NEEDED 813's

Homebrewers run out of 813's. Please help - call K5SAM - 341-2457 or 737-6128.



MINUTES OF MEETING HELD 7 MARCH 1975

The meeting was called to order by President Bob Ashby, W5HXL, at 2010 CDST. There were approximately 25 members and guests present. President Ashby advised that Leonard Hollar, WA5FSN, regretted he would be unable to attend. W5HXL introduced himself, commented that his recent activity has been devoted to getting his "port-a-shack" ready for the road, and called for other self introductions. Comments recorded included: Don Templeman, WN5NIY, has his -102 going and working on a keyer. J. W. Word, WA5KFT, got some net control experience during the recent Altus-Duncan tornado sweep. W5KE has been "working on" the world's largest mobile transmitter. Cleo Waddle, WA5SUD, is waiting on WA5JGU for transmitter servicing. Bill Noland, WA5FWD, is also on WA5JGU's waiting list. Carl Drumeller, W5JJ, is experimenting with oscillators using old tubes like 6J6 and 6AC7. Bill Hulse, W5UGZ, has been working on an SB-102, and having parts problems with Heath. Jerry Broudy, W5MCJ and Jay Kelso, W5QC, would not admit any activity in Norman. Ken Ford, WB5KHU, is still recuperating from recent tornado activity. Has been trying to make a filter, but it "rings". Ed, WN5OGJ has taken the general exam two times. Jerry Allison is a new associate member and working on his Novice. Al Prince recalled that last meeting he left early because twin grandsons had arrived. He has reworked a surplus linear and enjoyed some 40 meter mobile operation. Fred Morgan, WB5HQE, attended for first time, he is putting a HW-202 together. Harold Todd, WA5VAQ, got in on the tornado activity late. Bob Lyon, K5AYL, is working on counter and scanner for HW-202. He has trap trouble in his Hi-Gain vertical. Lloyd Kirk, WB5HUP, has traded off his TR-22. He picked up a free 7-element beam. Gene Halley was a visitor. He is working toward becoming an Amateur. Bill Oliver, K5KDR, is just busy. Bill de Mand, K5SKA, arrived a little late, but was still welcome.

W5JJ reported on the condition of Bill Todd, W5UZX, our past president.

W5HXL announced: Don Templeman will be club editor, George Lagaly, W5NTL, will be our Emergency Coordinator. Al Prince will head a committee to take care of Publicity and Registration at the next Ham Holiday, under the CORA assignment of that phase of ACARC. A list was circulated for volunteers for Al's committee and to do emergency operating at W5PAA.

President Ashby passed out copies of the MORI questionnaire on Amateur attitudes to those who did not have previous opportunity to complete one.

A handbook of ARRL Special Communications Techniques was given away on a drawing. The book had been left by Lew McCoy, W1ICP during his recent visit. The handbook was won by W5MCJ.

It was announced that the next joint MORI-OCAPA meeting will be a Flea-market at the new National Guard building NE 35th and Grand.

The meeting was turned over to Charley Greene; WA5JGU told of recent activity in emergency readiness. He reported on the SET, which had 35 to 40 participants and was rated "best yet". He showed slides of that activity.

Charley also recounted events of the recent tornado disaster.

Howard Ridgway reported that Altus and Duncan people now recognize the value of amateur radio.



MINUTES (Contd)

Harley was given a big hand for his work and report. He also advised that since he has resigned, at close of one year, the position of Oklahoma County 3C is awaiting a volunteer.

WA5FWD advised that MORI has appointed Jef Casey, WB5GWB, and WB5HUP to represent MORI in field day activities.

W5HXL announced that the picnic shelter at Lake Overholser has been reserved for a amateur picnic on the weekend before Field Day.

The meeting adjourned for doughnuts and coffee at 2103 CDST.

For Billy J. Oliver, Secretary-Treasurer by Ellard W. Foster, W5KE

CONTINUATION OF THE INFORMATION ON CW RADIO NETS

Communication by CW is not as natural as talking over a microphone, but it is a skill that can be developed. The feel for radio net operation comes with listening to established nets. Net operating skill is developed by being active in a net.

To start a net, the NCS (Net Control Station) would send CQ followed by the net call (OLZ for the Oklahoma net), followed by his call and QNZ (tune to zero beat with me) QNI (stations check into the net) and AK (meaning go ahead).

EXAMPLE: CQ OLZ CQ OLZ CQ OLZ DE W5NCS QNZ QNI K

A station with traffic wishing to check into the net would send a dash, two dots or some signal to get the attention of the NCS. The NCS would give permission to transmit by sending the same signal. Following this, the station desiring to check in would send:

W5NCS DE K5TUL QNI QTC OKLA CITY 1 K

This means K5TUL has one message for Oklahoma City. The net control station would reply with:

K5TUL DE W5NCS R AS (Meaning received, wait)

WB5OKC in Oklahoma City, hearing a lull in the procedure would send:

(After sending an M and receiving an M for an answer)

W5NCS DE WB5OKC QNI QRU K NCS would answer:

WB5OKC DE W5NCS R AS.

After deciding that no other station was calling him, NCS would send:

K5TUL DE W5NCS QNV WB5OKC DWN 5 OKC 1 K.

This means for K5TUL to establish contact with WB5OKC on the net frequency and if OK to move down 5 kHz and send the Oklahoma City message. K5TUL would then call WB5OKC and send: DWN 5, meaning QSY down 5 kHz. WB5OKC would respond with GG meaning "going".

INFORMATION ON CW RADIO NETS (Contd)

When the message was sent both stations would return to the net frequency and send the last letters of their calls. NCS would send the last letters of their calls and R, to acknowledge.

When all stations had checked in and all traffic was handled, the NCS would close the net. He would do this by sending:

OLZ OLZ OLZ DE W5NCS QRU QNX QNF SK.

This means I have nothing for you. You are excused from the net, and the net is free.

Ordinarily, stations with messages should check in first. Then a station from some city for whom traffic was listed should check in followed by other net members without traffic. This is modified by circumstances and when there is a lull in the procedure any station might check in. State and local nets are open to any station wishing to check in. Region and area nets are generally reserved for state and region net representatives. Representatives are designated by the net manager. However, stations with traffic are generally cleared in region and area nets.

It is hoped that a better understanding of net operation will be provided by the above information. A smoothly operating net can handle many messages in a short time. Developing net skill is a challenge to anyone desiring an objective for their amateur operating. Thanks for your attention and good luck.

Fellow Members of CORA,

GIL W5RB
Harold A. Gilbertson

As some of you may know, Carl, WA4AQW, has submitted his resignation as President of CORA, INC.. On March 14 at our regular monthly meeting, an election was held to fill this vacancy and Yours Truly was chosen to fill that office. Gary, WA5ETV was elected to the office of Vice-President.

CORA's primary function in the beginning was to promote an annual "Ham Fest" in the Oklahoma City area. This has been accomplished with a great deal of success.

Earlier this year the birth of the "CORA-COLLECTOR-EMITTER" newsletter, which in my estimation has been a big success, thanks to the efforts of many members from the major clubs in the Oklahoma City area, has begun to unite the member clubs to a closer relationship toward the goals of "Amateur Radio". These goals can only be accomplished through your support and continued help.

Sometimes I've asked myself, as I'm sure many of you have, "Why don't I get more out of Amateur Radio?", I, for one, have found that I must get more involved in what's going on behind the scenes. If you have this feeling, I ask that you get more involved, support your club and it's many functions with something more than your money and presence.

Well, so much for the "Soap Box" bit. Sincerely though, I'm looking forward to working for you and with you through this year and ask for your help and support in whatever tasks CORA may embark on.

Ken, WB5ECJ



Club
NEWS

VILLO
The Club's Ground Station

FROM THE PRESIDENT...GOALS

WITHOUT GOALS, A PERSON OR AN ORGANIZATION JUST DRIFTS ALONG IN AN AIMLESS FASHION. THE OCVHFARC NEEDS A SET OF WELL DEFINED GOALS. NOT IDEALISTIC, UNATTAINABLE GOALS, BUT REALISTIC GOALS THAT CAN BE ACHIEVED. ONCE ACHIEVED, PERHAPS THE AIM SHOULD BE READJUSTED TO A HIGHER LEVEL.

SUCH GOALS SHOULD BE DEFINED AND ESTABLISHED BY THE CLUB'S MEMBERSHIP. IN DEFINING THEM, EACH MEMBER SHOULD BEAR IN MIND, "WHAT CAN I, AS AN INDIVIDUAL, DO TO ENSURE THE ATTAINMENT OF THIS GOAL?" IF YOU RUN THAT THROUGH YOUR COMPUTER AND REACH THE ANSWER, "OH, HECK, THERE'S NOT MUCH I'M WILLING TO DO," THEN YOU'D BETTER OPPOSE THE ADOPTION OF SUCH A GOAL. BE REALISTIC BUT NOT PESSIMISTIC.

SO WHY DON'T YOU TAKE A FEW MINUTES OFF, RIGHT NOW, AND JOT DOWN A NUMBER OF THINGS YOU'D LIKE TO SEE THE CLUB UNDERTAKE FOR 1975? LET'S TOSS THESE IDEAS INTO THE BASKET, REVIEW THE LOT, AND SEE WHAT THE MEMBERSHIP DEEMS FEASIBLE.

CARL, W5JJ

REPORT ON THE NEW ATLAS 753

THE MOBILE SHACK OF WA5TRS IS SPORTING A NEW PIECE OF EQUIPMENT, A SOLID STATE VERSION OF THE VENERABLE OLD EICO 753, AFFECTIONATELY KNOWN BY THOSE WHO KNOW, AS THE SEVEN DRIFTY THREE. MANY AN AMATEUR, OPERATING ON A LOW BUDGET, GOT HIS FIRST SET OF ULCERS TRYING TO CORRECT THE DRIFT OF THE OLD EICO.

ATLAS RADIO INC., NOT INSENSITIVE TO THE CURRENT NOSTALGIA FAD, PREPARED A SPECIAL VERSION OF THE ATLAS 180, 160 THROUGH 20 METER RIG FOR ME. THE VFO HAS A POSITIVE TEMPERATURE DRIFT COEFFICIENT OF 8 TO 25 PARTS PER MILLION PER DEGREE CENTIGRADE, DEPENDING ON THE BAND. ON THE 40 METER BAND IT HAS AN OUTPUT FREQUENCY DRIFT OF 6 KHZ FROM 40 TO 70 DEGREES F. DURING AN EIGHT HOUR TEST OF WARM-UP DRIFT, IN A CONSTANT ROOM TEMPERATURE ENVIRONMENT, THE THING DRIFTED OVER 2 KHZ AND NEVER STOPPED SLIDING.

SERIOUSLY, I'M ONLY KIDDING, AT THIS TIME. I RAN THROUGH THE CALCULATIONS, USING THE DATA ON THE SCHEMATIC, AND THE FINGER OF GUILT KEPT POINTING AT A 27 PF CERAMIC THAT NEEDED ABOUT 150 PPM LESS COMPENSATION. HOWEVER, WHEN I OPENED UP THE VICTIM FOR SURGERY, I FOUND THAT THE VFO DIDN'T MATCH THE SCHEMATIC. I FIRED A LETTER OFF TO ATLAS FOR AN UPDATE. I HAVEN'T HEARD ANY DRIFT COMPLAINTS FROM OTHER OWNERS OF THIS RIG SO I DON'T ANTICIPATE ANY REAL PROBLEMS. IN FACT, MY PIDDLING AROUND IN THE THING MAKES ME FEEL A LITTLE LESS GUILTY ABOUT GETTING A STORE-BOUGHT RADIO, PLUGGING IT IN AND ENJOYING MYSELF BY TALKING ON IT.

A FURTHER REPORT WILL COME NEXT MONTH IF I FEEL LIKE TALKING ABOUT IT. HI.....JOE, WA5TRS

GOOD DEAL DEPT....HOSS, WA5ZAI/8 HAS SUPPLIED ME WITH A SUPPLY OF TICKETS FOR THE FIRST PRIZE AT THE DAYTON HAMVENTION, AN IC-230. SEE ME IF YOU WANT IN ON IT. THREE FOR \$1.00.....JOE, WA5TRS



Club
NEWS

VILLOT
The Radio Hobby Magazine

MINUTES OF MARCH 21 MEETING

THE MEETING WAS CALLED TO ORDER AT 8 PM BY VICE PRESIDENT TOM STINSON, W5OZE, IN THE ABSENCE OF THE PRESIDENT. SEVENTEEN MEMBERS AND ONE VISITOR WERE PRESENT.

THE PROGRAM PRECEDED THE BUSINESS MEETING. MARSHALL WILLIAMS, WA5UNL, MADE AN EXCELLENT PRESENTATION ON TWO METER MOONBOUNCE.

THE MINUTES OF THE FEBRUARY MEETING WERE APPROVED AS PRINTED AND THE MEETING WAS ADJOURNED AT 9:45 PM.

JEF CASEY, WB5GWB, SECRETARY

WANT ADS

RECEIVER, ALLIED-RADIO SHACK, SX-190. COVERS 80, 40, 20, 15 AND THE FIRST 500 KHZ OF THE 10 METER BANDS. GENERAL COVERAGE, DUAL CONVERSION, ETC. \$150.00 KEN, WB5KHU, 528-8770

ANTENNA, HUSTLER 4BTV VERTICAL, WITH 75 METER RESONATOR. 1 YEAR OLD. \$35.00 KEN, WB5KHU, 528-8770

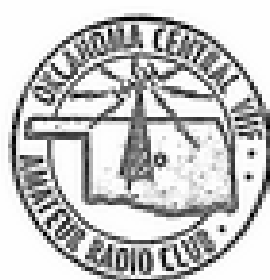
PRESTIGE JOB, VHF CLUB HAS A VACANCY IN THE POSITION OF PROGRAM CHAIRMAN. INCUMBENT GETS TO TAKE CREDIT WHEN WE HAVE REALLY GREAT PROGRAMS, LIKE THE ONE PRESENTED LAST MEETING BY MARSHALL, WA5UNL. ONE OF THE LESS TIME CONSUMING AND MORE REWARDING JOBS IN THE CLUB. SEE CARL, W5JJ, OR, TOM, W5OZE FOR CONSIDERATION OF YOUR APPLICATION.

GOSSIP, TRIVIA, AND ETC. DEPT.

BILL DEMAND, K5SKA, CAME TO LAST CLUB MEETING AFTER A LONG ABSENCE, HAS MOVED BACK TO OKLAHOMA CITY AND, WHEN HE GETS HIS ACT TOGETHER, WILL BE HAVING A TOWER AND ANTENNA PARTY. HIS ADDRESS IS 2317 NW 121, PHONE NUMBER-751 5137. GOOD TO SEE YA BILL!

BILL, WA5FWD, IS FINALLY GETTING WITH THIS HOME BREW THING. SAW HIM DOING SOME RESEARCH ON HIS RECEIVER PROJECT-A QUAKER OATS CRYSTAL SET. THE CATALOG HE WAS USING IS THE LATEST FOR THE "RADIO MAN OF THE FAMILY". EVERY HOME BREWER SHOULD HAVE ONE. THE CATALOG IS PUBLISHED BY MODERN RADIO LABS., PO BOX 1477, GARDEN GROVE CA 92642. SEND 25¢, WHICH IS REFUNDABLE.

HAVE YOU HEARD OF VARIABLE SPEECH CONTROL, OR VSC? THE IDEA IS TO SPEED UP RECORDED SPEECH WITHOUT INCREASING PITCH OF THE RECORDED SOUNDS...LIKE PLAYING THE 33 RPM RECORD AT 45 RPM. THE IDEA GOES BACK TO 1924, BUT IT WASN'T UNTIL THE LATE 50'S THAT VSC WAS ACCOMPLISHED BY ROTATING HEAD RECORDERS. NOW IT IS BEING DONE WITH SOLID STATE DEVICES. ONE GOOD APPLICATION IS RECORDING INFORMATION FROM PERIODICALS, SPEEDING IT UP TO NORMAL READING SPEED WITH VSC, AND PLAYING IT BACK TO THE BLIND. IT COULD BE USEFUL FOR CROWDING MORE INFORMATION INTO VOICE COMMUNICATION CHANNELS, IF THE USER COULD THINK FAST ENOUGH TO MAKE PRE-RECORDED REPLYS! JOE, WA5TRS



Club
NEWS

V5108
The Elmer Goodwin Memorial
Station

SILLY MILLIMETERS

FROM ELECTRONICS, AUGUST 22, 1974. HERE IS A HANDY-DANDY METHOD FOR CONVERTING FRACTIONS OF AN INCH TO MILLIMETERS.

PRETEND THAT ONE INCH EQUALS 2.56 CM. NOW, 1/16 INCH EQUALS 1.6 MM. NOW WORK IT UPWARDS OR DOWNWARDS BY FACTORS OF TWO. 1/8 INCH EQUALS 3.2 MM, 1/32 INCH EQUALS 0.8 MM, AND SO ON.

THIS IS OKAY IF YOU ARE WRITING AN ARTICLE FOR A MODERN AMATEUR RADIO PUBLICATION, BUT, WHAT IF YOU HAVE TO GO THE OTHER WAY? ...FROM MM TO INCH? HMM...LETS WORK ON THAT NEXT MONTH.

ANY IDEAS? JOE, WA5TRS

JUNIOR MEDIC DEPARTMENT

ANYBODY INTRESTED IN WHAT TO DO WITH A HEART ATTACK VICTIM WHILE WAITING FOR MEDICAL HELP?

A FREEBE SHORT COURSE IS BEING OFFERED TO INTERESTED GROUPS BY THE OKLAHOMA HEART ASSOCIATION, THROUGH PRESBYTERIAN HOSPITAL. THE COURSE IS TO TRAIN PERSONS IN METHODS OF MOUTH-TO-MOUTH RESUSCITATION AND EXTERNAL CARDIAC MASSAGE. IT ALSO TEACHES BASIC KNOWLEGE ABOUT HEART DISEASE AND PROPER CARE TO AVOID HEART ATTACKS.

THE COURSE TAKES THREE HOURS AND AT THE COMPLETION, A CERTIFICAT-ION CARD IS ISSUED TO ATTENDEES. IF YOU ARE INTERESTED, LET ME KNOW BY APRIL 15 AND I WILL MAKE ARRANGEMENTS. JOE, WA5TRS

HOW'S THE WEATHER?

FROM THE WALL STREET JOURNAL, KINDLY SUPPLIED BY KEN, WB5ECJ... THE NATIONAL WEATHER SERVICE IS EXPANDING THE NETWORK OF RADIO STATIONS OPERATING ON 162.40 AND 162.55 MHZ, TRANSMITTING CONTINUOUS, FIVE MINUTE WEATHER REPORTS. THERE ARE NOW 73 STATIONS SERVING HALF THE U.S. POPULATION. FIFTY THREE ADDITION-AL STATIONS ARE PLANNED BY JULY 1976. ULTIMATELY, THERE WILL BE 331 STATIONS SERVING 90% OF THE POPULATION.

OF SPECIAL INTREST IS A TONE ALERT FEATURE INCORPORATED IN THE SYSTEM. RECEIVERS CAN BE MUTED UNTIL SIGNALLED WHEN THE FORE-CASTER HAS SOME NEWS OF SIGNIFICANCE-SUCH AS A TORNADO-

THE OKLAHOMA CITY OFFICE OF THE WEATHER SERVICE IS NOT SURE OF A FIRM SCHEDULE FOR A STATION HERE BUT IT FELT THAT PRIORITIES ARE PRETTY HIGH AND THAT ONE MAY BE INSTALLED IN THE NEXT FISCAL YEAR...

NEW EQUIPMENT REPORT

FOR YOU WHO DIG PORTABLE AND EMERGENCY POWER SUPPLIES, AND MAY HAVE NOTICED THE NEW LIFETIME GUARANTEED AUTOMOBILE BATTERY SOLD BY JC PENNEY. FORGET IT. IT'S AN ORDINARY BATTERY WITHOUT FILLER CAPS. IT HAS VENTS COVERED WITH A PLASTIC STRIP...WA5TRS

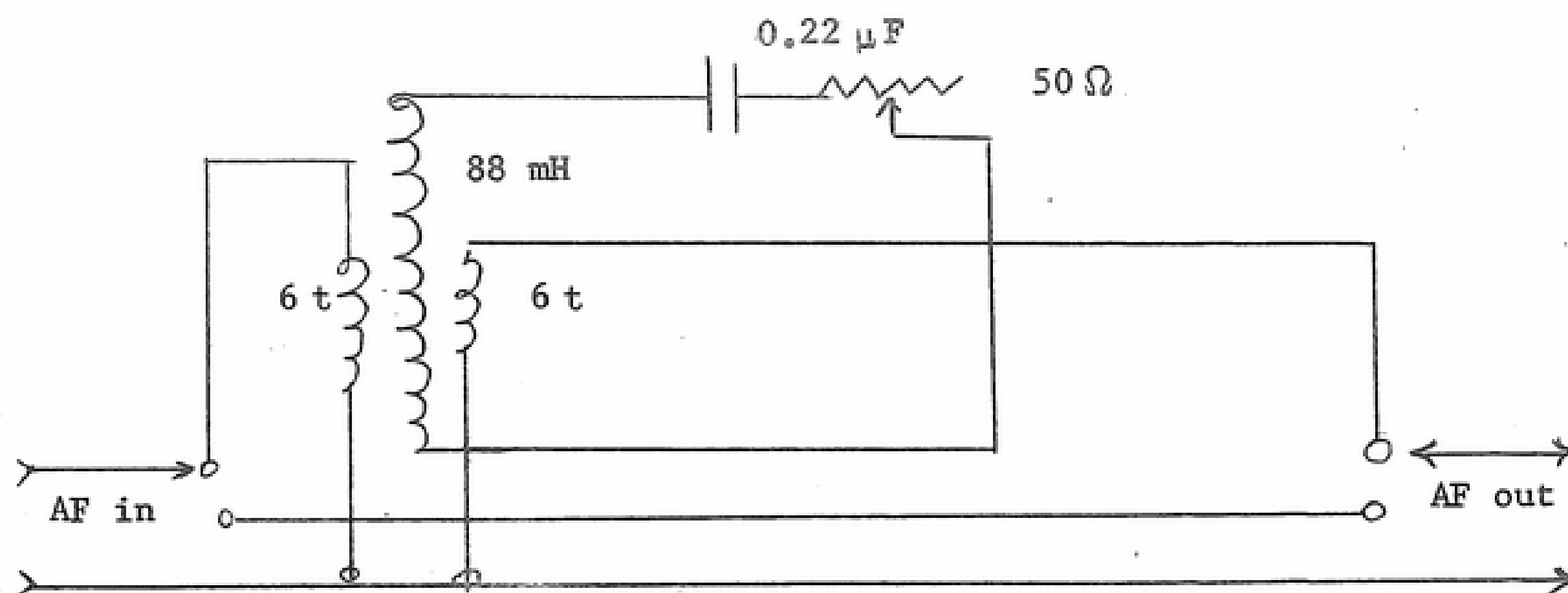
HOME MADE REMOTE VFO FOR TR-4

From "Sara Slip", one of our exchange papers, we learn that one of their club members has built a remote VFO for his Drake TR-4 from a military surplus Command Transmitter, variously known as SCR-274N or ARC-5, depending upon whether your background is Army or Navy.

Interested? If so, send a large stamped and addressed (to you) envelope to Bill Johnson, W9ERI, 502 W. Kenicott, Carbondale, Illinois, 62901.

PASSIVE AUDIO FILTER

"Sara Slip" presents a simple circuit for an audio filter suitable for improving the reception of either radiotelegraphy or SSB 'phone. They credit it to page 60 of the January 1972 issue of "Ham Radio". Just in case you missed it, the diagram follows.



The 88 mH, of course, is in the form of the readily-available toroid coil. It has room for the two six-turn windings to be added. Selectivity can be varied by the 50-ohm rheostat; less resistance, higher Q, greater selectivity. You might want to crank in the whole 50 ohms for SSB 'phone reception.

HELP WANTED

YES, HELP IS WANTED. CHARLES GREENE, WA5JGU, HAS ASKED THAT HE BE REPLACED AS THE ARRL EMERGENCY COORDINATOR FOR OKLAHOMA CO. CHARLES HAS SERVED US WELL IN THIS CAPACITY AND I KNOW THAT HE WILL CONTINUE TO HELP AS MUCH AS POSSIBLE.

THERE IS NO SECRET THAT THIS APPOINTMENT DOES TAKE SOME TIME AND EFFORT, ACCOMPLISHING THE AIMS OF THE AMATEUR RADIO EMERGENCY CORPS, AS SPELLED OUT IN THE BOOKLETS, OPERATING AN AMATEUR RADIO STATION AND PUBLIC SERVICE COMMUNICATIONS.

IN AN AREA AS LARGE AS OKLAHOMA COUNTY, THIS CAN BE A MONUMENTAL TASK. BUT, IT CAN BE TEMPERED BY THE APPOINTMENT OF ASSISTANTS TO COVER SPECIFIC AREAS OF RESPONSIBILITY, SUCH AS RED CROSS, CIVIL DEFENSE, ETC.

I WILL BE GLAD TO DISCUSS THIS WITH ANYONE INTERESTED.

INCIDENTALLY, THE SAME APPOINTMENT IS OPEN IN CANADIAN COUNTY.

LEONARD HOLLAR, WA5FSN, SECTION EMERGENCY COORDINATOR

"PUBLIC SERVICE AWARD"

Bob Williams-K5PJU received a "Public Service Award" from ARRL in conjunction with tornado activity in the Okla. City area June 8th thru June 11th 1974 as related in the September 1974 issue of QST, page 70.

As all of us recognize, Bob has spent many hours working Weather Watches never complaining even when they have been all night vigils. Truly a credit to Amateur Radio and an Amateur we all should be proud of. Congratulations Bob, a much deserved award for a very deserving Amateur.

WB5CWB

SPEAKING OF WEATHER

Spring is here and with it tornado season. I think it would be wise at this point to review the procedures and uses of the various repeaters in our area. Direction of information is very important during an alert and should be channeled through the proper system. Example, Monday night, March 17, we had an alert. Although the Autopatch Emergency Coordinator was standing by at Radar Control, the net was not activated. Regardless of this weather traffic was being handled by our EC. At the same time weather traffic was being handled by 07-67. Radar Control has direct communication with EOC, County, Civil Defense as well as the other nets that are activated during an emergency. We must realize that it is difficult enough to monitor only the necessary frequencies during these times such as EOC, County and Civil Defense. Let's not compound the effort needed by directing information through the wrong channels. Keep it simple. We have a well planned system-let's keep it that way and avoid much needed information being lost by misdirection.

1. 22/82 for Weather Nets only.
2. 34/94 and 07/67 for Health and Welfare and damage reports.

After the weather net has been deactivated, 22/82 is to be used as a back up for H & W and Damage as needed. Emergency Coordinators and Net Control operators as well as reporting stations be sure that information is handled properly. Be brief and accurate with your reporting. Don't stutter or make a story out of it.

WB5CWB

2M SSB

Looking for contacts on 2-SSB at 145.100
WB5ADN, WA5WYO, WB5CWC, WB5CWB, all of Okla. City. Also,
W5USM-Bill Smith at McKinney, Texas, WA5SMA-J. D. at Vernon,
Texas, W4NUL/5 at Altus, Oklahoma, WB5KGB-Dave, Area Mobile

The Autopatch Association had its first meeting at the OKLA. MILITARY ACADEMY this month, and is now the regular meeting place for the club. To those of you who have not been out there, we really have a great place to meet with outstanding facilities. Be sure and make the next one and look it over.

The following text was written by Marshall Williams, WA5UNL, who holds an Extra Class license. Marshall, I'm sure, gave much thought to this, his proposal to FCC docket no. 20282. It does not necessarily reflect the opinion of the Autopatch Ass'n, or this editor:

SUBJECT: Individual Comments and Suggestions Regarding Docket 20282.

Dear Sirs,

I desire to make the following comments and suggestions on your Docket 20282.

1. I find the concept of a series A and a series B license structure to be very appealing. Such a structure is inovative and would provide avenues into the Amateur Radio service for individuals of varied interests. I am therefore firmly in favor of the basic structure as outlined.
2. It is recognized by the Commission as well as the public, that the Citizens Radio Service, taken as a whole, has ceased to be a disciplined service. Docket 20282 recognizes that the Amateur Service however, is a disciplined Service whose members do provide a wide range of public service and are interested in technical advancement.
3. The incentive system must be the cornerstone of any restructuring of the Amateur Service. To do otherwise would reverse the hard won progress previously made by the Commission and the Amateurs themselves. This principal is affirmed by paragraph 6 of Docket 20282.

SUGGESTION: (HF)

1. That the exclusive telephony bands now assigned to the Extra Class licensee be retained. If the exclusive "phone" bands now granted the Extrs Class licensee were deleted, all effective incentives to gain that class would also be removed. The incentive would be gone since a licensee holding both the Advanced and Experimenter licenses would have all Amateur privileges except for a few obscure CW sub-bands.

SUGGESTIONS: (VHF)

1. That the Communicator Class be restricted to the frquencies above 220 MHZ. This suggestion is made for the following reasons:
 - a) Little if any incentive remains for a licensee to upgrade his ticket if he is given "blanket" privileges on the 144 mhz and up band. Reserving the 6 and 2 meter bands for the Technian and Experimenter Class licensees would be a powerful incentive for the VHF beginner to upgrade his skills. This suggestion is in consonance with comment 3 above and paragraph 6 of Docket 20282.
 - b) It is my belief that the mess on the 27 mhz band is primarily due to a lack of selectivity by the Commission in the issuance of licenses. The through written exam proposed by the Commission for the Communicators should help to eliminate those applicants with no intention of providing a public service or becoming technically proficeint. In any case, it is clearly a "must" that the type of totally undisciplined service found on 27 mhz NOT be extended into the Amateur Service anywhere, especially on the already crowded 144-148 mhz band.
 - c) The lightly held 220 mhz band and up is the ideal plce for beginners to

"...enter the Amateur Radio Service and through the experience gained by operation of a low power radio-telephony station, develop the necessary interest and skill to qualify for higher class operator license". Once the necessary interests and skills are acquired, the Technician license would provide access to most all the VHF spectrum while the Experimentor license would provide, in addition to the entire VHF spectrum and above, a portion of the HF spectrum.

2. That the 144-145 MHz band be granted to the Experimentor and Extra Class license holders only.

3. That the 144.0-144.1 MHz CW only sub band be retained.

These for the following reasons:

a) It is well known and easily documented that the 144-145 MHz band is currently being used by serious VHF experimenters for the purpose of studies into various "exotic" propagation modes, development of reliable long distance VHF communications equipment, and advancement of the VHF state-of-the-art.

A few of the projects currently underway are:

0)- Weak signal Ionospheric scattering research

1)-Auroral propagation methods and techniques

2)-Studies of moonbounce propagation, methods with particular regards to equipment design and construction.

3)-Faraday rotation studies

4)-Solar noise studies

5)-Satellite doppler shift studies

6)-Communications via meteor scatter and sporadic E propagation

Maintaining this spectrum for the serious VHF experimenter will provide incentive to the Technician and Communicator Classes to upgrade to the Experimentor or Extra Class as soon as their skills permit. Occupancy of this spectrum by "hobbiests" with no interest in the serious work being done is not deemed necessary nor desirable and can only result in the degradation of the experimental work now being conducted.

b) It is well known that continuous wave, CW, is the preferred mode for weak signal communications. Maintenance of the 100 khz CW sub-band (144.0-144.1) is desirable to prevent interference to weak signal work, primarily the ionospheric scatter modes and moonbounce, by the encroachment of other wide band modes.

4. The power limitations proposed will be difficult to enforce, but nevertheless should be implemented without serious modification. Measurement of the allotted output powers should be made by a commercial standard instrument, such as a Bird model 43 Thruline wattmeter, in all instances where full power is being used.

I would like to close with the following general comment:

As presently presented, Docket 20282 basically gives a sound and logically constructed plan for the reorganization of the Amateur Service. My suggestion stem from the belief that the docket proposes granting priviledges far in excess of the examinations, knowledge, and experience necessary to achieve them. The "incentive" system works only when a measureable increase in priviledges results from increased efforts. The 50-54 MHz and the 145-148MHz spectrum should be the carrot on the end of the stick for a Communicator, while the 144-145 MHz spectrum and the newly proposed 29 MHz sub-band can provide the proverbial lump of sugar for the Technicians.

Paragraph 9 of the docket says, "...the incentive principals should also be applied for these bands....", while while paragraph 10 states as a broad objective "...3) provide realistic upgrading steps and incentives..." I believe the priviledges proposed by 20282 provide very little incentive for a Communicator to progress in the Amateur service and absolutely none for the

Communicator to progress in the Amateur Service and absolutely none for the Technician. The suggestions and comments herein are respectfully submitted in hopes that a workable incentive system for the Series A and B Amateur Service license will be achieved.

The above paragraphs are the comments that I intend to submit regarding Docket 20282. They are my opinions and are reproduced here for two purposes. One is to seek helpful suggestions from other amateurs in order to improve on the contents or language of the comments. Secondly the comments are published to encourage other amateurs to spend the necessary time and write their own letters to FCC. I hope that others will write in to Washington whether or not they agree with my proposals or reasons. These comments are not made to belittle any amateur or group of amateurs. Surely we don't need that at this time. Now is the time to stand up for our hobby. Put some thought into this and make yourself heard. 73'S
Marshall Williams WA5UNL

Bob May, formerly an associate member has recv'd his call and is now a full member. His call is WB5NYR.

Other new members:

W5UDY-----Jim Kennedy	WA5FFK---Don Moore
W5ZZG-----Clint Griffin	W5JZN----David Stewart
W5QLL-----Charles Tucker	Assoc.---Merrill Scott

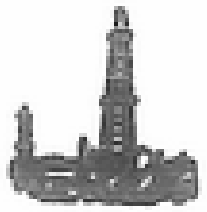
RENEWALS:

K5ZHD-----Jan Cox	WB5JML---Howard Dinges
W5OXJ-----Everrit Cox	W5REY----Ray Janka
WA4PLG/5---Charles Kinnermer	WA5TSJ---Tom Todd
K5GBF-----Harold Plunk	WA5VAQ---Harold Todd
K5AHU-----Bob Lutz	K5YGM----John Spivey
K5WMY-----Dave Ballew	WA5FLT---Joe Garland

Special TNX to WB5HVO, John Worthan for going up the big tower and assiting Bob and Jim when the recv'r was down. Also, to WB5ISN, Dennis for his help at the same time. I'm sure Bob and Jim really appreciated your help, and I know all the other club members do.

FOR SALE-- TEMPO TALKIE, CHG'R, XTALS, FLEX and TELESCOPE ANT., ALMOST NEW, 199.00
Sensicon Recv'r Strip, PL version, make offer, Anurm 32-A freq meter no PS,
make offer.---WB5ISN Dennis---341-4200

FOR SALE...Yaesu FTV 650-6 meter transverter 10-meter IF. Like new with
manual \$125.00. Larry, WB5CWB, 685-4065.



MID-OKLAHOMA REPEATER INC.

MORI/OCAPA JOINT MEETING APRIL 19

April 19, from 11:00 A. M. until 4:00 P. M., a gigantic flea market will be held, complete with dealer displays. This will take place at the Oklahoma Military Academy at N. E. 35th and Grand Boulevard (come in off of N. E. 36th Street). Talk in on 07/67. There will be plenty of tables, plenty of room, and weather will be no problem as you can unload inside.

MORI will supply soft drinks - bring food if you want and come and have a good time!

There will be prizes for the one bringing the most items and the one bringing the most unusual item. Judges will be W5KOZ, WB5ISO, and WA5LFN. Drag out all of that good old stuff and come out for a day of fun!

MORI VP RESIGNS!

In a letter received from Carl Freeman, WA4AQW, on March 6, Carl stated that due to a very heavy schedule with a heavy work load and going to school, he didn't feel that he had the time to do justice to the office of Vice President.

It is with great regret that I accept Carl's resignation, as he has been the mainstay in the CORA organization since it started, and a great asset to the MORI operation. We will still be fortunate enough to enjoy his wit and wisdom as a regular member of the organization. Our thanks go to Carl for the fine job he has done in the past.

At our May 6 meeting, it will be necessary to fill this vacancy.

EXECUTIVE COMMITTEE MEETING CALLED

April 8, at 7:30 P.M., the executive committee will meet at the Oklahoma City EOC, to handle any club business that cannot wait until the next meeting.

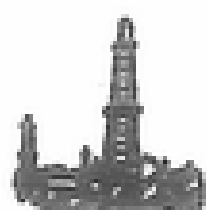
CRYSTAL SETS, ANYONE?

In a technical article I read last month, I found the address of a firm in California that still makes all band sets in kit form or built form, and are all band 160m through 20m. 25¢ sent to them will bring you their very interesting catalogue of parts and crystal sets. If you are interested, you can write to:

Modern Radio Labs
P. O. Box 1477
Garden Grove, California 92642

MID STATES REPEATER GROUP MEETING

In a letter received from WA5FSN last week, Leonard asked if the MORI Club would be interested in sponsoring the Fall meeting of the Mid States Repeater group. It would be held the last of September or the first of October. Leonard needs to know as soon as possible, so how about it?

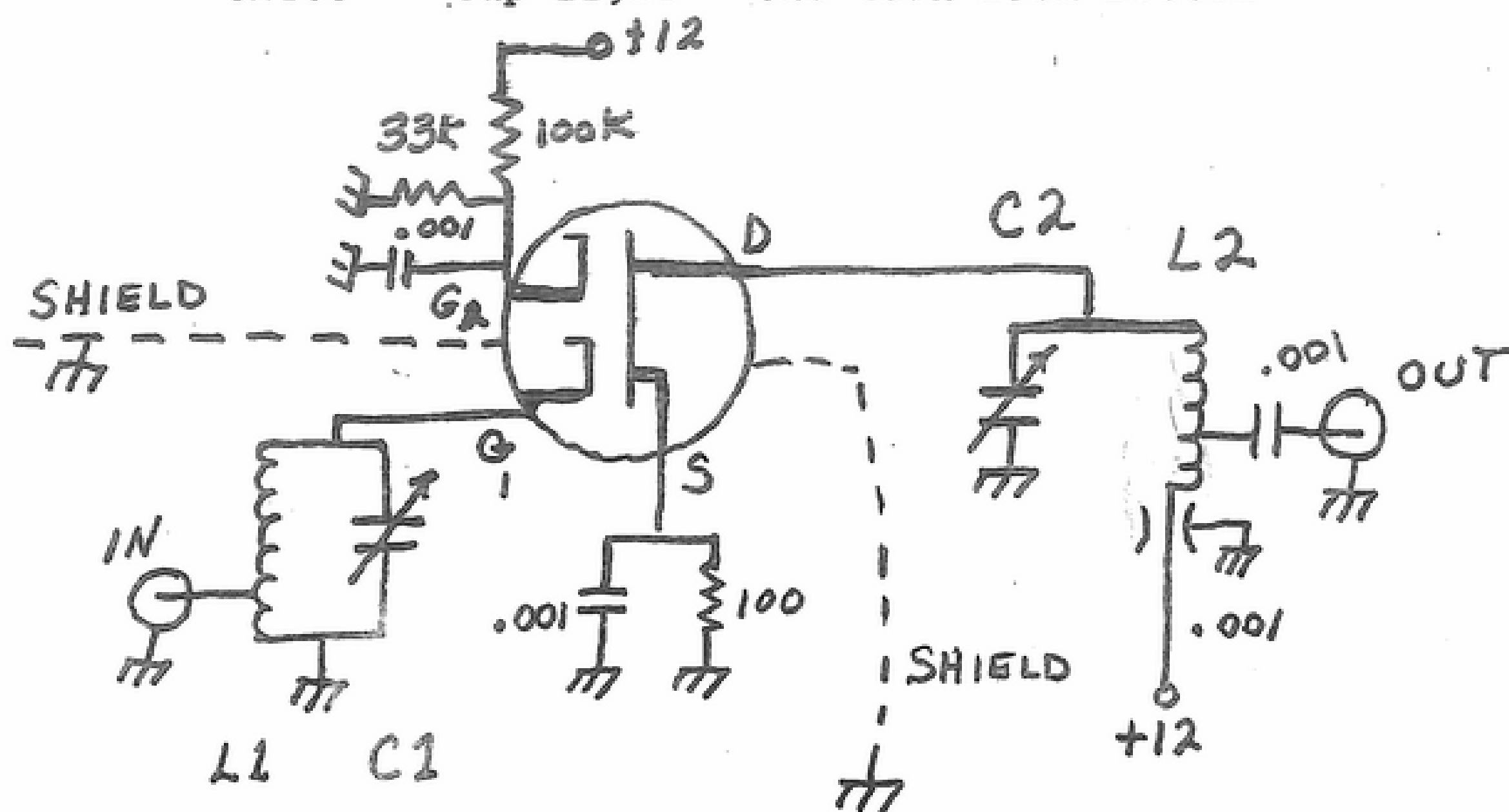


MID-OKLAHOMA REPEATER INC.

Simple Preamp for 2M FM

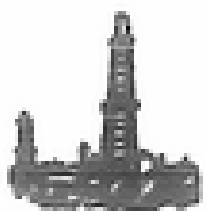
This preamp will give 20db gain with a NF of 3db or less. It is easily constructed on a small sheet of PC board. The shield is another piece of PC board soldered perpendicular to the ground plane. This type preamp is sold commercially for \$15.00 and up, but you can build it for less than \$5.00 easily. A preamp like this will really liven up most 2M receivers now in use. Build it and see. WA5UNL

Device	40673	L1,L2	4 turns #18, 1/4" Dia, 1/2" Long
	3N140	C1,C2	10 pf
	3N200	Tap L1,L2	One turn from Bottom



The next article will be on a super-low noise preamp for EME work. 73's WA5UNL

SURPLUS EQUIPMENT AND PARTS AUCTION--Metrodata Systems of Norman is auctioning off its surplus inventory of equipment and parts including spectrum analyzers, radar test sets, sweep marker generators, a complete rack of test equipment including Pulse Analyzers, Rf Tuners, Two Hewlett Packard Pulse Generators, also a solid state receiver for 250 to 1000 Mhz which will receive AM, FM, and Pulse transmissions. Also, Digital Printers, Tape transports, numerous synchronous motors, Equipment enclosures, Electrostatic printers, several Heathkit regulated power supplies, a Heath Cantenna, an aircraft power inverter for 110 volts, various parts including digital I.C.'s, capacitors, resistors, P.C. cards, edge connectors, Electromechanical counters, microswitches, switch assemblies and a large assortment of Amphenol Connectors for military equipment. For a partial listing of the various items for sale, contact Roger Ryan WA5JXX at 329-7007 during business hours. The auction is being conducted by the O.U. Radio Club who will receive part of the proceeds for club use. The auction will begin at 10:30 a.m. on April 12th at the Metrodata Plant located on Rock Creek Road about 1/2 mile off Highway 77 into Norman. Equipment will be available for inspection 30 minutes prior to the beginning of the auction.



MID-OKLAHOMA REPEATOR INC.

TRAFFIC REPORTS FROM EE TRAFFIC REPORT FROM E.O.C.

FEB.

- 2 1303, K5HFN Stalled car, 59th and Sunnylane.
- 2 1309, K5HFN Stalled car, 800 S.F. 44th.
- 5 1739. K5HQP 10 13
- 7 2058, W5RLJ Traffic lite inoperative NW 10 & MacArthur.
- 8 1537, WB5ERN I 40 E bound Dallas Ft. Worth junction Couch in road.
- 12 1720 W5YZI NW 106 & Meridian 76 & 82 Motorcycle
- 19 W5RLJ Signal lite NM 10 & Linwood.
- 19 0832 WA5TOO 76 & NM Hwy & 66.
- 19 1345 WA5TJD Exit Ramp blocked I40 and Western.
- 20 1608 K5BUX 82, car motorcycle Hwy 66 and Portland.
- 20 1749 WA5ZAJ RR crossing Sig lite malfunction NW 5 & Mac.
- 24 1744 WA5EPK Veh stalled I40 E of Rob Exit.
- 26 0735 K5YTW Stalled car, 13 & Phillips.

MARCH

- 3 1612 WB5HRC SE 29 & Sooner, Sig lite Mal.

MAGAZINE REVIEW

QST, Mar, contains a message to all ARRL members from W2TUK. Read it! It has a cogent message to all amateurs of radio! KLAGB tells about double-balanced mixers as applied to VHF and UHF. W4UMF and W1ICP talk about RFI.

HAM RADIO, Mar, has W1JAA telling about low-noise VHF preamplifiers, W2OLU on low-pass filters, W6VFR on an electronic means of changing the bias on amplifiers during idle time, W5MLY on using the NE555 to get another voltage. K6QD relates his experience as a brass-pounder on the Presidential train many years ago.

SHORT WAVE MAGAZINE, Feb, is a bit light this month, having only a so-so article on a 10-W DSB transmitter for 1.8 MHz and a test oscillator for UHF.

ELECTRONIC ENGINEERING TIMES, 24 Feb, gives info on an electrostatic speaker that goes down to 23 Hz! The pros and cons of solid-state vs electromagnetic relays are discussed.

RADIO COMMUNICATION, Feb, has detailed construction notes for a direct-conversion receiver, a long article on meteor-scatter propagation and gear for communication via that mode, some good and unusual info on the bandwidth needed for keyed CW transmission, an out-of-ordinary speech clipper circuit, and a long discourse on diodes and demodulation. Technical Topics has its usual number of interesting summaries; one warns of the danger of using light bulbs as a dummy load on an SSB transmitter.

RADIO ELECTRONICS, Apr, has an article on RFI related to audio devices. You ought to Xerox a copy of this to lay before those who yelp about your signals getting into their audio gear! If you have a curve tracer, there's info on what constitutes normal patterns of many devices.

AMATEUR RADIO, Jan, tells how to modify the Yaesu FT200 transceiver for better reception of AM signals. Another article deals with modifications to the Collins R390A receiver (part 3 of a series). A long and detailed article concerns soldering techniques.

POPULAR ELECTRONICS, Apr, has W9EGQ telling about the license restructuring proposal. There're building instructions of millivolt/milliohm meter. Another, and quite vague, article concerns communicating by light beams.

WORLD RADIO NEWS, Mar, tells about moon-bounce work by WA5UNL and W5ORH.. Lots of other good stuff, too, like court decisions favorable to radio amateurs.

CQ, Mar, has W6SAI telling off the White House mob on their proposed rip-off of the middle chunk of the 220-225 MHz band for a gift to the Criminal Band mob. He also has good words on a newly-marketed 14-MHz beam antenna. There's good advice to Novices (lots of Generals, Advanced, and even Extras could use it, too) on the use and misuse of radiotelegraphic procedure signals (QRM, QTH, etc). MOSFET converters gets a mention.

W5JJ

QUICK QUIZ

In the past six months-----

1. Have you built or modified any of your gear?
2. Have you experimented on any of your gear?
3. Have you gainfully educated or instructed anybody on some aspect of amateur radio?
4. Have you learned anything new about amateur radio?
5. Have you used most of your test gear?
6. Have you attempted to repair any faults that may have appeared in your gear?
7. Have you assured that your gear is "state of the art"?
8. Have you assured that your test gear is "state of the art"?
9. Have you attended your local Radio Club meetings?
10. How many hours a week, on the average, do you devote to some aspect of amateur radio?

Review your answers. Now consult the International Radio Regulations (They're repeated in the FCC Rules and Regulations) statement of the justification for assigning a portion of the radio-frequency spectrum to the Amateur Radio Service. Has your conduct, your activity been of such nature as to encourage the International Convention of Nations to continue the allocation of frequencies to the Amateur Radio Service?

This was adapted from "Amateur Radio", the
journal of the Wireless Institute of Australia,
from a submission by Iain Morrison, VK4ZIG.

FOR SALE

TR-4 with RV-4 Remote VFO, AC Power Supply and Speaker, TX-62 AMECO 6 and 2 meter AM Transmitter. Marvin, K5HQP 732-8133

Rebuilt long-boom 6-meter beam from W5PAA. \$10 or make offer, with 1/2 of proceeds going to ACARC. 88 mH toroids 5 for \$2.00. W5KE 789-6702

National NCX-5 MK II and VX-501 VFO console. Very fine condition. Asking \$450. Mac K2GKK/5 672-4947.

Motorola HT 200 450 Mhz Handie Talkie with crystals for the new 450 repeater. See Bob WA5WYO or Jim WA5GWH 681-5894

COMING EVENTS

Apr 4	ACARC meeting
Apr 11	CORA meeting.
Apr 18	OCVHF meeting
Apr 19	MORI/OCAP meeting. Flea Market - Oklahoma Military Academy
Apr 21	CORA Editors meeting
May 2	ACARC meeting
May 6	MORI meeting
May 9	CORA meeting
May 16	OCVHF meeting
May 19	OKCAP meeting
Jun 21/22	Oklahoma Amateur Radio Picnic/Campout - Lake Overholser
Jun 28/29	ARRL field day
Aug 2/3	Oklahoma Ham Holiday
Oct 25/26	Texoma Hamarama

CORA COLLECTOR & EMITTER = Box 15013, Oklahoma City OK 73115

FIRST CLASS

