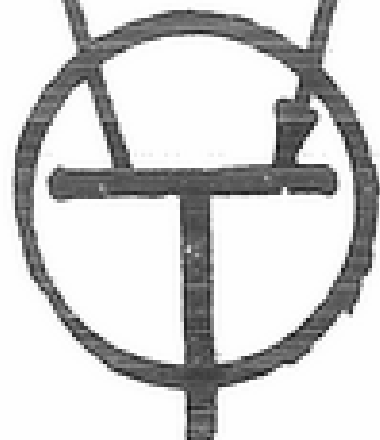


Central Oklahoma Radio Amateurs

COLLECTOR AND EMITTER



MARCH 1975



Marshall Williams, WA5UNL, makes final adjustments on his 240-element antenna for 2-meter moon-bounce. For more details about the antenna, the largest of its type in the world, see story on page 17 (Photo by WA4AQW)

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.

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Editor for OCVHF	Joe Buswell	WA5TRS	732-0676
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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	Carl Freeman	WA4AQW	672-5476
Vice President	Ken Kendrick	WB5ECJ	751-4917
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	W50ZE	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	Carl Freeman	WA4AQW	672-5476
Secretary/Treasurer	Don Graham	WA5TAW	733-3044

1208 Alan Lane, Midwest City, OK 73130

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

February turned out to be a busy month for Amateur Radio in Central Oklahoma. Lew McCoy's visit from ARRL and the Lawton-Ft. Sill Founders Day Hamfest were the highlights of the month, followed closely by the combined MORI/OKCAP meeting at KWTW Channel 9 with Gary England covering severe weather, what to look for and the kind of information he was looking for to effectively analyze severe weather conditions. Add in the CORA and VHF Club meetings plus a little operating time and you have a busy and interesting month.

I had the pleasure of spending the afternoon of the 11th with Lew McCoy. While giving him a quick tour of Oklahoma City and vicinity, he discussed many interesting facets of ARRL activities. Their constant liaison with FCC was most impressive and left me with the comfortable feeling that we were well represented by the League. Lew constantly emphasized that they were working for us and that the League position was developed from our inputs through our Director, Roy Allbright. With about 80 in attendance at the meeting Tuesday night, Lew conducted a discussion of the proposed FCC License Restructuring. He pointed out that the League did not have a position at this time. They are waiting for our inputs so that it will be our position that they represent. The League is conducting a survey to get our position. They will send out a comprehensive questionnaire in March to all League members, to get our ideas on restructuring and other activities. Be sure you give this careful consideration, fill it out promptly and send it back to the League.

Lew dropped a bombshell with the announcement that the question of CB taking a part of our 220 MHz band had reared its ugly head again. The President's "Office of Telecommunications Policy" in a letter to FCC requested that 222 to 224 MHz be allocated to Class E service. Lew pointed out that the FCC Commissioners are appointed by the Administration, and would have to respond to this request.

The Lawton-Ft. Sill Hamfest was a pleasant experience, even if I didn't win a prize. As you remember, the weather was a little threatening for that weekend, which kept a few away, but didn't spoil the fun for those that attended. Roslin and I decided to gamble on the weather and arrived about noon Saturday with a light rain in Lawton. Sunday morning brought on a little sleet and snow but luckily this melted before the trip back in the afternoon so the trip home was safe and uneventful. The relaxed atmosphere led to some great "eyeball" QSOs with old and new friends which combined with good meetings and fine food all contributed to an enjoyable weekend. Our thanks to the Lawton-Ft. Sill gang for making this possible.

Don't forget our meeting Friday, March 7 at 8:00 p.m. Our State Emergency Coordinator, Leonard, WA5FSN will present the program with some comments on the January SET and other emergency preparedness activities. See you at the meeting.

73
W5HXL



AERONAUTICAL CENTER AMATEUR RADIO CLUB, INC.

Annual Financial Statement Calendar Year 1974

MONEY ON HAND

Cash on hand 12/31/73	21.87	
Cash on hand 12/31/74	<u>56.96</u>	35.09 increase
Bank Statement 12/31/73	431.60	
Checks not deposited	64.50	
Checks outstanding	<u>-63.00</u>	433.10 true balance
Bank Statement 12/31/74	338.70	
Checks not deposited	0.00	
Checks outstanding	<u>-20.00</u>	318.70 true balance
		<u>114.40</u> decrease
TOTAL		79.31 decrease

RECEIPTS

Dues (ACARC & ARRL)	743.10	
Recd - Employees Association	1000.00	
Transfer from Savings	600.00	
Repayment of Loan from CORA	200.00	
Refund from ARRL	<u>2.00</u>	2545.10

DISBURSEMENTS

Dues forwarded to ARRL	538.00	
Collector & Emitter expense	1111.48	
W5PAA Station upkeep	606.87	
Meeting refreshments & supplies	52.22	
Employers Mutual of Wausau Ins.	62.05	
Periodicals	43.00	
Rent	1.00	
Loan to CORA	200.00	
Bank Fee	7.79	
Membership Refund	<u>2.00</u>	<u>2624.41</u>
		79.31 decrease

BILLY J. OLIVER
Secretary-Treasurer



MINUTES OF SPECIAL MEETING HELD 11 FEBRUARY 1975

This meeting was convened for the purpose of hearing Mr. Lew McCoy, W1ICP, who is Beginner-Novice Editor for QST. To accommodate the larger than normal turnout, it was held in the auditorium at the FAA Aeronautical Center headquarters building. There were 75 amateurs and other interested persons present.

Bob Ashby, W5HXL opened the meeting with a query regarding radio clubs represented. There was response from members of the following: Lawton Amateur Radio Club, Wheat Straw ARC, Ardmore ARC, Shawnee ARC, Western Electric ARC, Oklahoma City Autopatch Association, Mid-Oklahoma Repeater, Oklahoma Central VHF ARC, Aeronautical Center ARC.

A query was made regarding the communities represented. There were responses from amateurs from: Moore, Kingfisher, Harrah, Shawnee, Norman, Yukon, Lawton, Ardmore, and Oklahoma City. There were also amateurs from Miami, FL and Los Angeles.

Announcements were made of the CORA meeting on 14 February and the joint OCAPA and MORI open meeting at Channel 9 TV studio on 17 February.

Mr. Lew McCoy, W1ICP was introduced. He opened his discussion with two bits of news:

1. The ARRL will soon be sending a questionnaire to all members, which asks for replies to 5 pages of questions on Amateur attitudes and desires.
2. The 220 MHz "Service E" proposal is not dead. The President's Office of Telecommunication Policy has entered the picture with a recommendation that Service E be instituted on 222-224 MHz.

Lew pointed out that on most of the East Coast there are no more available frequencies for 2-meter repeaters. The move to 220 MHz has already begun. He added that amateurs have the most frequencies of any service and will ask for more, with objective of getting a band every 3.5 MHz in the high frequency band. Our frequencies become a natural target of any expansion. We have been somewhat protected by the international regulations that require Amateurs to show technical competence.

Mr. McCoy discussed the proposed restructuring of the US Amateur Service. He mentioned that there are currently about 27,000 Conditional Class and 47,000 Technician Class licenses that were taken by mail. About 2,500 Technician Class licenses were taken before an FCC examiner and will continue to be renewable. The proposal will require all mail-order examinations above Novice and Communicator to be taken before an FCC examiner to obtain renewal. He feels this was an understanding as far as the Conditional Class is concerned, but was not understood in the administration of Technician examinations.

Another point of concern is the new power limitations and the implied measurement requirements. The practicality of PEP measurements has been questioned.

Likewise there are questions regarding the limitations on the General and Technician licensees with regard to types of emissions permitted. Special case is use of tone-dialing for auto-patch.

Continued on page 6

Minutes contd.

Lew displayed charts and diagrams of the restructuring proposal. He pointed out that considerable "grandfathering" will take place, and that Technicians or Conditionals who fail FCC examinations may pick up Novice and Communicator licenses automatically, so they will not be put off the air.

Many questions were generated. Among his responses were: present examinations will probably continue until March or June 1976. Pross Walker opposes the Class E service. No effort will be made to extend phone into 14.1-14.2 because it might alienate support needed at the ITU conference.

The amateurs who attended found the meeting very informative and enjoyed meeting Lew McCoy.

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

MAGAZINE REVIEW

AMATEUR RADIO, Nov (boat mail from Australia takes time), has an outstanding explanatory article on SSTV. Its excellence is offset by another item describing a multi-purpose device made from an old BC receiver; it's quite evident that the author never tried out his brainchild!

HAM RADIO, Feb, has an editorial you shouldn't miss. W7ZOI gives highly useful information on bandpass filters. Following that, ZL1BN goes deeply into the matter of speech processing. Then WB9KEY describes a prescaler that'll go up to a gigahertz. W3FQJ talks about MOSFETs but there are many errors, mostly in schematics. Tsk, tsk, Jim Fisk must have been on vacation!

ELECTRONIC TECHNICIAN/DEALER, Jan, courtesy of W5KE gives with some ideas on transistor testing that're a cut above the ordinary platitudes. Couple this with a really good exposition on digital counters and you have a magazine worthy of being read.

CQ, Jan, has a number of fair-to-middling articles concerning such diverse subjects as transistors in RF PA service, scan converters for SSTV, antennas, novice operation, surplus, low-power operating, and MOSFETs. Also, Cowan is starting a new magazine, "Electronic Fleamarket", for those wishing to swap fleas. For eight bucks a year you can advertise your surplus gear and hope someone will buy it!

73, Feb, has two articles on modifying the Heath SB-102, VE3DNR tries to compare the relative merits of AM and FM....but it's evident he'd never read the report on that subject by the ARTA; it was made after exhaustive tests to ascertain which would be preferable for aeronautical use. "A little knowledge is a dangerous thing." WA0ABI tells of another modification to Heath gear, this time the SB-110A, for greater ease in neutralization. DJ0HZ reviews the state of art on sending CW through the assistance of a tape recorder. WA5KPG describes a simple system for quasi-break-in CW operation.

TELECOMMUNICATIONS, Feb, courtesy of W5KE, gets well into the subject of mobile communications. Some aspects well may amaze you!

AMATEUR RADIO, Dec, describes an antenna devised to be installed on the roof of an apartment house....and still keep the landlord happy.

Continued on page 7

Magazine Review (Contd)

RADIO COMMUNICATION, Jan, tests a VHF transverter thoroughly, tells of a simple way of measuring the Q of an RF tank, shows how to modify a tubular variable capacitor to the split-stator configuration, has the design info for a 1.2 GHz quad-Yagi antenna, and reveals many interesting tidbits in its Technical Topics.

RADIO-ELECTRONICS, Mar, records the sale to a Japanese company of another old time radio firm, this time it's Pilot Radio Company. Those who remember the Super-Wasp will mourn! There's some semi-interesting information on a curve tracer.

POPULAR ELECTRONICS, Mar, has a bit of experimenting with LEDs, presents an idea on paralleling resistors (an unusual one!), and suggests putting a diode in series with pilot light bulbs to increase life.

ELEMENTARY ELECTRONICS, Mar-Apr, astonishes one with a number of readable, even interesting, articles....if you can wade through all the CB trash without vomiting! The idea of using your tape recorder as a signal tracer is good. Making pen holders out of old radio parts is novel but slightly sacrilegious. Straight from 1921 was the detailed instruction on building a two-slide tuning coil and a mating crystal detector! If you want to try your hand at building a Class D audio amplifier, the info is there, written so even a CBer can understand it. Disregard the stuff on mobile antennas; it runs far into fiction!

WORLD RADIO NEWS, Feb, carries the usual number of non-technical but readable articles. One on increasing your code copying speed might help if you don't already have your Extra Class ticket. Be sure to read the section on RFI, page 19.

ELECTRONIC COMPONENT NEWS, Feb, has an excellent run-down on electronic calculators suitable for those computations you may encounter when you're digging a bit into equipment design. And what true amateur doesn't?

73, Mar, centers on antennas with a whole flock of articles. With the exception of a couple of weak sisters, they're not just good but are superb! By all means, get this issue; you'll hang on to it for many years as a reference source. Also, 73 sells a bumper sticker worthy of being on ever car!

ELECTRONIC TECHNICIAN/DEALER, Feb, courtesy of W5KE, has an unusually detailed explanation of transistor beta and its effect. Also, there's excellent info on applications of frequency counters, including use of several types of frequency range extenders.

SHORT WAVE MAGAZINE, Jan, goes deep into the feasible feeding configurations for a 14-MHz dipole. A 144-MHz dual-gate preamplifier is shown. A thorough treatment of a mixer-type VFO for VHF is given. As sidelights, you'll enjoy the squib on radar development in USSR in 1935; the developers were in the wrong political alignment and got wiped out, along with their radar! A cartoon shows a chap using candles as dial lights, which reminds me of a receiver I saw in 1922. It had a UV-200 and two UV-201s mounted upsidedown in sockets extending from the front panel. Thus the operator not only had a triple dial light, but also could use an eyeball standard for adjusting his filament rheostats!

Continued on page 8

Magazine Review (Contd)

CQ, Feb, presents the design of an audio filter for direct-conversion receivers, treats solid-state VHF amplifiers, has W6SAI laying out some really good stuff on antennas, prints W9EGQ's Novice Section, and (grab your seats!) unfolds the startling info on the Collins ARC-2 transceiver, which is strictly 6A3, in case your memory doesn't recall 1948 details.

IEEE SPECTRUM, Feb, holds one's interest with the tale of how the klystron was developed.

MICROWAVE SYSTEMS NEWS, Dec/Jan, tells about a Gunn diode transceiver that'll sell for five dollars! Meets FCC requirements, too. It needs a power source of 7.5 to 10 volts.

W5JJ

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

FROM THE SECTION EMERGENCY COORDINATOR

I HAVE JUST FINISHED READING THE FIRST ISSUE OF THE C.O.R.A. COLLECTOR AND EMITTER. MY CONGRATULATIONS TO THE EDITORIAL STAFF ON A JOB 'WELL DONE'.

FROM WHERE I SIT, THIS IS THE SECOND PROJECT UNDERTAKEN BY C.O.R.A., FIRST OF WHICH WAS HAM HOLIDAY #1, NOW THE NEWSPAPER. NEXT, OF COURSE, IS HAM HOLIDAY #2, AND MANY MORE AFTER THAT. HOWEVER, I FORSEE OTHER GOOD THINGS FOR THE C.O.R.A. ORGANIZATION. ONE VERY IMPORTANT ITEM I HAVE BEEN CONCERNED WITH, IS THE APPARENT LACK OF UNITY OF THE AMATEURS IN THIS AREA. THROUGH C.O.R.A., I SEE A GOLDEN OPPORTUNITY TO SMOOTH OUT ANY ROUGH SPOTS AND HELP GET ALL AMATEURS PULLING TOGETHER FOR THE COMMON GOOD OF AMATEUR RADIO.

WITH A HOBBY HAVING, SHALL WE SAY, SO MANY DIVERGENT INTRESTS AND SO MANY PEOPLE DOING DIFFERENT THINGS, ALL UNDER THE NAME OF AMATEUR RADIO--COMMUNICATION AMONG THESE GROUPS IS SOMETIMES DIFFICULT--ESPECIALLY ON A LOCAL LEVEL. IT IS MY FEELING THAT C.O.R.A. COLLECTOR AND EMITTER WILL GO A LONG WAY TOWARDS FILLING THIS NEED.

WE HAVE MANY IMPORTANT THINGS TO CONSIDER--AND ACT ON--THIS SPRING, WITH REGARD TO THE FUTURE OF AMATEUR RADIO. LET US DO ALL POSSIBLE TO IMPROVE OUR IMAGE AND MAKE THE PUBLIC AWARE THAT WE, AS AMATEUR RADIO OPERATORS, DO MANY THINGS THAT ARE BENEFICIAL TO IT.

I STRONGLY URGE ALL TO CAREFULLY STUDY DOCKET #20282. STUDY THE SURVEY FORMS THAT ARE COMING SOON FROM THE ARRL. FILL THEM OUT AND RETURN PROMPTLY. MAKE YOURSELVES HEARD.

LEONARD HOLLAR, WA5FSN

NATIONAL TRAFFIC SYSTEM

Do you need a diversion from the old daily routine? If so, traffic handlers are urgently needed for the State CW Traffic Net. The State Net is part of the National Traffic System, the function of which is the rapid movement of message traffic to its destination.

The best way to start is to listen to the State CW Traffic Net which operates every evening at 7:00 p.m. (0100 GMT) on 3682.5 KHZ. A knowledge of ARRL "QN" signals is essential to understand what is going on. A list of QN signals will be given later. The net operates as a directed net which means that permission of the net control station is required before any station transmits. The net call is "OLZ" which designates the Oklahoma CW Liaison Traffic Net.

The State Net "OLZ" sends a representative to the 5th Region Net to clear traffic going out of the State. The Region Net, net call RN5, has representatives from Oklahoma, Texas, Arkansas, Louisiana, Mississippi, Tennessee, Alabama and Florida. This net meets on 3645 KHZ at 7:30 p.m. (0130 GMT). The Fifth Region Net sends transmitting and receiving operators to the central area net to clear traffic going out of the region and receive traffic for the Region.

Additional information can be found in the handbook in the chapter on operating an amateur station. More detailed data is contained in the pamphlet, Operating an Amateur Radio Station, pages 9 through 14 and pages 15 through 17. Detailed information is also contained in the Public Service Communications Manual, page 10 through page 17, and net procedure is explained on page 20.

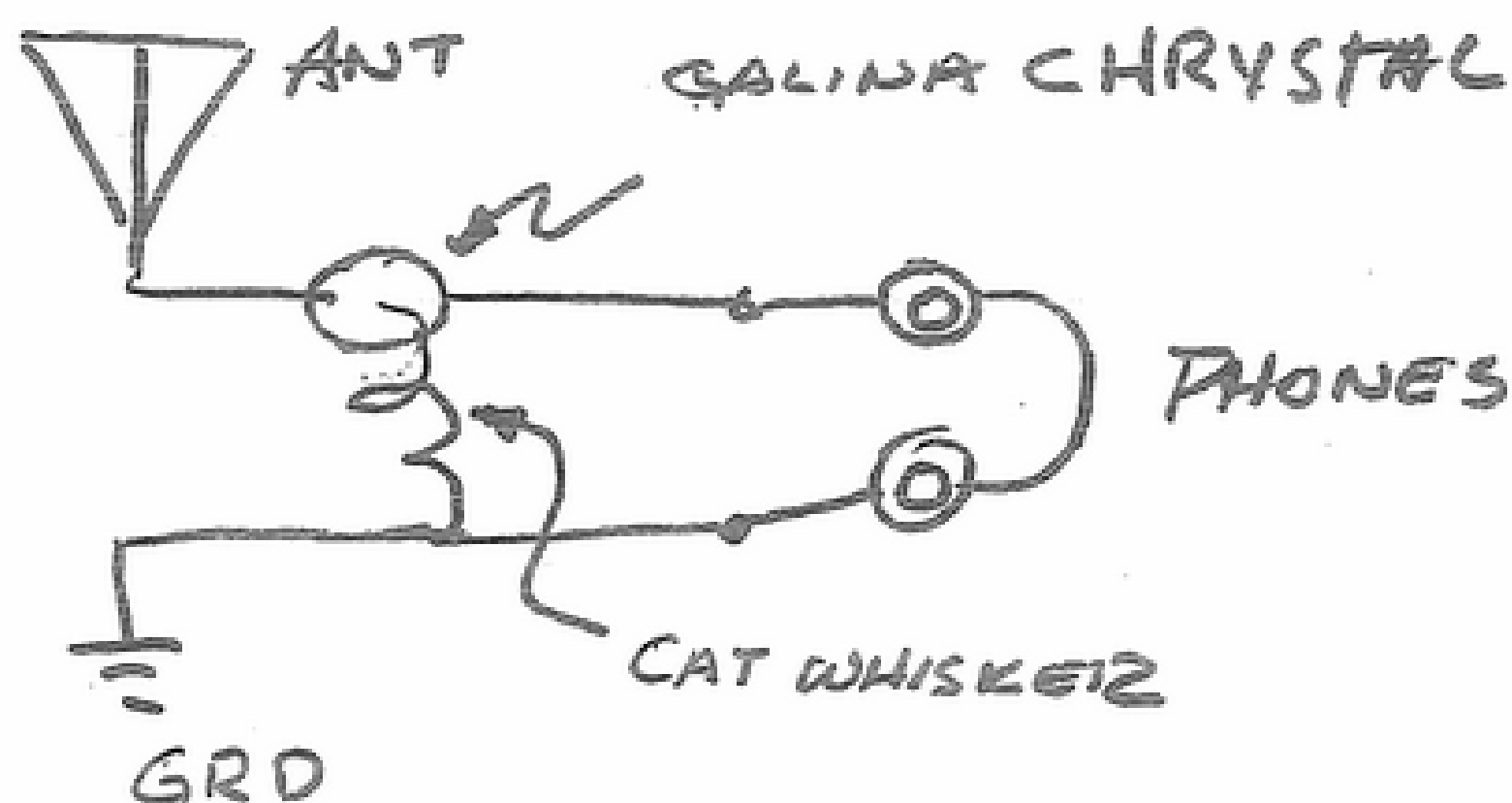
If you would like to feel that your amateur radio operating has a definite purpose and can spare one or two nights a week in traffic handling, your State net can use you. There is a lot of satisfaction in traffic handling because you are doing something worthwhile. The training received is invaluable. If you want to do something different try handling traffic--- you'll like it.

A partial list of ARRL special "Q" signals for net operation only.

QND. . . Net is directed (controlled by net control station).
QNF. . . Net is free (not controlled)
QNI. . . Net station reports into the net.
QNO. . . Station leaving the net.
QNU. . . Net has traffic for you. Stand by.
QNX. . . You are excused from the net.
QNZ. . . Zero beat your signal with mine.

If you have any questions, call Charles, WA5JGU 943-5631, Jef WB5GWB 528-0252 or Gil W5RB 634-4822.

Good luck and I hope to see you on the CW Traffic Net. GIL



TECHNICAL ARTICAL
by WBSJBL

EDITOR'S NOTE: RESEPT^{CH}UN CAN BE MORE
BETTER IF YOU'Z BEDSPRINGS IS HOOKE'D
TO THE ANTENNA. K5VRL

FROM THE MANAGING EDITOR

All I did was leave the room for five minutes to help with the typing - and guess what? I came back in the room as Managing Editor! From typist to editor in five minutes.....now that's progress!

I'm sure that the club editors didn't feel that I had any "special talents" for editing - they simply needed someone to help and asked if I would try. I agreed to help as long as I'm wanted and needed. Won't you take the same attitude when asked to take a job in your club?

Now, I need your help! The paper is everyone's publication - what would you like it to be? What would you like to have in the paper? Letters to the editor? Guest editorials? Run-down on new amateurs, club members, etc? What? All the editors, and myself especially, would appreciate your views.

Working together, it will not be necessary to run trivia such as the above "technical" story again....Jim, K5TZS



Club
NEWS

VSLOR
The Short Circuit Magazine
Oklahoma

FROM THE PRESIDENT

ON THE AIR AND AT GATHERINGS ONE HEARS MUCH SAID ABOUT THE FCC PROPOSAL FOR LICENSING RESTRUCTURE. SOME OF THE COMMENT SHOWS EVIDENCE OF CAREFUL CONSIDERATION. MOST, HOWEVER, ALL TOO PLAINLY SHOWS THE SPEAKER TO BE SWAYED BY PURELY EMOTIONAL FACTORS.

MANY OF THE DISCUSSIONS--OR RATHER HARANGUING MONOLOGS--CONCERN THE PROPOSED COMMUNICATOR CLASS AMATEUR OPERATOR, AND STATION, LICENSE. IT IS VIEWED AS PERMITTING CB'ERS TO INVADE AND EVENTUALLY TAKE OVER THE AMATEUR BANDS. MAYBE SO. BUT LET'S REVIEW A FEW OTHER SITUATIONS IN WHICH TRADITIONAL AMATEUR STANDARDS WERE AFFECTED.

THE NOVICE CLASS LICENSE WAS FOUGHT BY MANY, YET IT HAS BEEN THE AVENUE BY WHICH MANY OF OUR BETTER OPERATORS, SOME NOW EXTRA CLASS WERE INDUCTED INTO OUR AMATEUR RADIO SOCIETY.

THE TECHNICIAN CLASS WAS ORIGINALLY SET UP AS AN FCC-ADMINISTERED EXAMINATION, INITIATED TO PERMIT DEDICATED VHF & UHF EXPERIMENTERS TO OPERATE THE END PRODUCTS OF THEIR INNOVATIVE EXPERIMENTS. THIS CLASS LOST IT'S ORIGINAL PURPOSE AND BECAME A COMMUNICATOR LICENSE...AN EASIER WAY INTO AMATEUR RADIO BUT, UNFORTUNATELY FOR MANY, A DEAD END, STIFLING THE AMBITION AND DRAINING THE ENERGY, JUST ENOUGH TO PREVENT THEM FROM ADVANCING TO HIGHER CLASSES OF LICENSE AND ATTENDANT PRIVILEGES. SOME ARGUE THAT COMMUNICATORS NOW ARE CARRYING THE MAJOR WORKLOAD OF JUSTIFYING OUR EXISTANCE, "...PUBLIC CONVENIENCE, INTEREST, AND NECESSITY..." IT'S A FUNCTION MOST OF US WOULD HATE TO DELEGATE TO THE CB'ERS.

OPENING OF THE 20-METER AND 75-METER RADIOTELEPHONE BAND SEGMENTS TO HOLDERS OF GENERAL CLASS AND CONDITIONAL CLASS LICENSES WAS AN ABRUPT CHANGE FROM THE LONG-STANDING FCC AND FCC POLICY ON INCENTIVE LICENSING. SOME FEEL THAT UNDISCIPLINED HORDES WERE LOOSED AND THAT THE ACTION WAS MARXIST APPLICATION OF A "CLASSLESS SOCIETY" TO AMATEUR RADIO.

YET AMATEUR RADIO HAS SURVIVED. SOME SAY IT IS EVEN STRONGER BECAUSE OF THESE CHANGES.

IS IT TOO MUCH TO EXPECT IT TO SURVIVE THE INDUCTION OF A FEW HUNDRED THOUSAND ADDITIONAL VHF AND UHF FM USERS?

I CONTEND THAT IT WILL SURVIVE. OH, THERE'LL BE CHANGES. BUT WHAT IS THIS WORLD OF OURS BUT A NEVER-ENDING SERIES OF CHANGES? WHO'D WANT IT STATIC? NOT I!

OVER THE PAST 50-SOME YEARS I'VE SEEN THE MAIN EMPHASIS OF AMATEUR RADIO SHIFT FROM SPARK RADIOTELEGRAPHY TO CONTINUOUS WAVE RADIOTELEGRAPHY TO AMPLITUDE-MODULATED, 6A3, RADIOTELEPHONY TO AMPLITUDE-MODULATED, 3A3J, RADIOTELEPHONY SHARED WITH FREQUENCY-MODULATED, 16F3, RADIOTELEPHONY. AND I SAY IT GOT BETTER BECAUSE OF THE CHANGES! YET EACH OF THESE CHANGES WAS FOUGHT FIERCELY BY THOSE WHO OPPOSED ANY DEPARTURE FROM THE STATUS QUO.



Club
NEWS

W5LOW
The Ham Radio Club
Bulletin

IT'S IRONIC THAT THE LOUDEST VOICES I'VE HEARD RAISED AGAINST THE NEW PROPOSAL HAVE EMANATED FROM THOSE WHO HAVE BENEFITED MOST FROM PAST CHANGES, CHANGES THAT WERE VIEWED BY MANY AS DEGENERATIVE! ISN'T THERE A LESSON IN EVOLUTION TO BE LEARNED?

PEACE! CARL, W5JJ

MINUTES OF FEBRUARY 21 MEETING

The meeting was called to order at 8:03 PM by President, Carl, W5JJ. Nineteen members and one visitor were present. The minutes of the January meeting were approved.

Old Business. The new club station license was received after only three weeks and has been posted in the station.

New Business. Ken, WB5ECJ, asked for volunteers to help with the VHF club's duties in preparing the Ham Holiday. Also, the meeting night for CORA will be the second Friday of each month. Bill, WA5FWD, made some suggestions on how the local clubs might improve their public relations. Charlie, WA5JGU, asked if the VHF club is going to participate in Field Day activities this year, but, so far, there have been no volunteers for FD chairman.

Vice President, Tom, W5OZE, presented Joe, WA5ZNF a plaque in appreciation of his services as last year's club president.

An interesting program on antenna matching systems was presented by Chuck Wilhite, WB5CPR.

The meeting was adjourned for coffee at 9:07 PM.

Jef Casey, WB5GWB,
Secretary

RUMORS AND GOSSIP DEPT

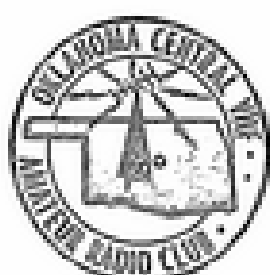
RICH, WB5AGX, IS THE PROUD FATHER OF A HARMONIC, OTHERWISE KNOWN AS A BABY GIRL. CONGRATULATIONS MOMMA AND POPPA.

CHARLIE, WA5JGU, IS GOING TO BE A GRANDPA IN JUNE OR JULY. I DOUBT THAT HE HAD ANYTHING TO DO WITH IT BUT HE WILL PROBABLY FIGURE OUT SOME WAY TO GET IN THE ACT--BOY THAT KID WILL BE SPOILED. BY THE WAY CHARLIE AND KEN, WB5KHU WERE UP AT 3AM TODAY, THE 22ND, WORKING THE TRAFFIC AFTER TORNADOES HIT ALTUS AND DUNCAN. I DIDN'T COME ALONG UNTIL 7. THEY SEEMED TO BE IN PRETTY GOOD SHAPE, CONSIDERING.

KEN WB5KHU, WORKED NOVICE ROUND-UP. HE HIT WEST INDIES, DELAWARE, WEST VIRGINIA AND A BUNCH OF MORE COMMON, GARDEN VARIETY PLACES.

THE MODIFIED CLUB LICENSE, W5LOW, WAS PROCESSED IN THREE WEEKS. KEN, THE CLUB TRUSTEE HAS BEEN REPLYING TO QSL CARDS, SOME AS OLD AS 2 YEARS. INCLUDED WERE CE6, SMØ, LU3, UK9, ETC.

TOM, W5OZE, HAS A NEW HAM II ROTOR, WISH I HAD THE NAMES OF THE GOOD SAMARITANS WHO PUT IT UP.



Club
NEWS
W5LOU
The Clear Channel Member
Station

LOOSE TALK MAY AID CRIME

WHAT MOBILEER AMONG US HAS NOT SAID, "I'M SIGNING OUT NOW. WILL PARK AT THE CORNER OF WINE AND DINE WHILE I HAVE LUNCH...BETTER WATCH MY DRIVING THERE'S A BLACK & WHITE BEHIND ME...THE HIWAY PATROL SURE HAS A LOT OF CARS OUT HERE ON ROUTE 240..." OR A SIMILAR REMARK ABOUT POLICE MOVEMENTS?

JOE, WA5TRS RELAYED WORD FROM HOSS KARIMI, WA5ZAI, THAT THIEVES IN THE DAYTON VICINITY APPARENTLY LISTEN TO 2-METER FM AND WERE ABLE TO RIP-OFF A MOBILE RIG IN SLIGHTLY OVER 15 SECONDS. THE CAR WAS PROTECTED BY A BURGLAR ALARM WITH THAT AMOUNT OF TIME DELAY. THE OWNER CAME RUNNING WHEN THE ALARM SOUNDED AND THE THIEF WAS GONE! LET'S HOPE THAT DOESN'T HAPPEN TO ANY OF US.

ELMER, W5BKN, PROVOKED ANOTHER THOUGHT, WHEN HE SAID THAT THOSE VOCAL FELLOWS OF ANOTHER "SERVICE" MAY HAVE PREVENTED THE ESTABLISHMENT OF EFFECTIVE ROADBLOCKS AFTER THE RECENT HARRAH BANK ROBBERY, KIDNAPPING, AND ATTEMPTED MURDER--BY ANNOUNCING THE WHEREABOUTS OF POLICE CARS.

AMATEURS AREN'T THE ONLY ONES WHO LISTEN TO OUR MOBILE FREQUENCIES. SO, LET'S NOT DEFEAT THE EFFORTS OF OUR LAW ENFORCEMENT BY TALKING ABOUT THEIR MOVEMENTS. THEY DO A LOT OF OTHER THINGS BESIDES GIVING TICKETS TO UNWARY SPEEDERS.

ELLARD, W5KE

EDITOR'S NOTE...HOSS, WA5ZAI, HAD ANOTHER RIG RIPPED-OFF ABOUT THREE WEEKS AFTER HE PASSED ALONG THE ABOVE WORD. I HOPE HE WAS FOLLOWING HIS OWN ADVICE! THE THIEF TOOK THE 2-METER RIG AND TOUCHTONE PAD AND LEFT A TAPE PLAYER AND BUNCH OF TAPES ALONE. LOOKED LIKE HE KNEW EXACTLY WHAT HE WANTED...JOE, WA5TRS LOG PERIODIC ANYONE?

ED, W5BYC, WHO CHECKS IN REGULARLY ON THE OKLAHOMA TRAFFIC AND WEATHER NET ON 75 METERS, ASKS WHETHER ANYONE HAS HAD EXPERIENCE WITH A LOG PERIODIC ANTENNA MADE BY A COMPANY CALLED "INSTRUMENTS FOR INDUSTRY". HE QUOTED FROM AN AD, "144-148 MHZ VSWR 1.5 TO 1, 12 DB GAIN OVER ISENTROPIC, 35 DB FRONT TO BACK, 47 DEGREE BEAM-WIDTH, 150 WATTS, 4 POUNDS." THE LATTER FIGURE IS WHAT CAUGHT ED'S EYE THE MOST. HE WANTED TO KNOW IF ANYONE HAD EVER HAD ONE UP IN THE OKLAHOMA WIND! IT IS CALLED LOGAN LOG PERIODIC ANTENNA AND IS MADE IN FARMINGDALE, NY. LET ED KNOW OR LET ME KNOW AND I WILL PASS IT ALONG

JOE, WA5TRS

TRIVIA DEPT

...HOW THE FCC ARRIVED AT 2KW PEP...TAKE A ONE KW DC INPUT AM TRANSMITTER, MODULATE 100%, LOOK AT THE PLATE VOLTAGE. THE PEAK VOLTAGE IS TWICE THE UNMODULATED VALUE, RIGHT? POWER IS VOLTAGE SQUARED OVER R. SQUARE 2, GET 4. INPUT IS QUADRUPLED ON PEAKS...4KW PEP. 50% EFFICIENCY...2KW PEP OUT. HOW BOUT THAT...SRI LOU, COULDN'T HELP IT....JOE, WA5TRS

COMMENTS FROM THE PRESIDENT

It might come as a surprize to many of you, but to many of the members the job of being president means I am able to run the club as I see fit. They call me on the telephone and spend an aggregate of approximately two hrs. an evening asking why I don't do this or that, or why I dont make someone do this or that. Much time is spent on plain old gossip which is divisive when we need to present a unified image to the public and federal officials. All this to explain why I will no longer take my time to listen to gossip from any member. I will always be ready to answer any questions which I can about how the club or equipment is operated, but the President only presides at meetings. New ideas and resolutions are advanced by you members from the floor at regularly announced meetings. These ideas are either implemented or rejected by the members present. So, if I cut you off short and tell you to bring it up at the next meeting, please dont think that it is personal, because this applies to everyone.

When I was a teenager, even tho the word hadnt been invented yet, I knew a Ham, I believe his call was W5EGO. He taught me how to build my first super-regin receiver-type 30 tube, coils wound on tube bases and the like. Anyway, I said then that someday I would be a Ham too. It took some 40 yrs. for me to get my ticket. I dont mind telling you, it was somewhat of a comedown when I found after my coveted Technician License arrived to find that I was something less than a Ham. It seems that the word was going around that Technicians had cheated to get their license. Some called us "Lazy Lairs", etc. Technicians and Conditionals, although recognized by the FCC as valid Hams, were in limbo someplace between CBers and Novices in the minds of these people. Strange, but I have never heard of a Novice being accused of cheating, even tho they obtained their license in much the same manner. So once more I studied and practiced code and passed by Advanced examination in January. Not so much because I wanted the extra priviledges, but to rid myself of the stigma that went along with my Amateur license. How ever, as the holder of an advanced class license, I can speak out against this injustice without being labeled a "Lazy Lair" for doing so. If anyone has personal knowledge of any fraud in obtaining an Amateur license and he can prove it, I challenge him to come forward and say so in public. If he cannot prove it, then I plead with him to "knock it off", it serves no useful purpose and tends to discredit all Amateur at a time when we are being zeroed in on by other services eyeing our mostly unused bands in the VHF and UHF spectrum. These bands are at the present being occupied for us by these Technician class license holders and they need our support.

WB5JBL

On Feb. 17, the Autopatch Assn. was host to a joint meeting at the Studios of Channel 9. Gary England, weather "guesser" at KWTW, conducted a weather briefing program covering the procedures we will use in the coming "Severe Storm" nets on 22/82 repeater. Its later than you think-- so if you did not attend the meeting, contact Bob K5PJU or Jim WB5EOL and get a copy of

the map and instructions we will use during the net. We had a head count of 128 Hams and their guests(110 signed the roster) representing 20 towns, at least 3 states and 11 Amateur Radio clubs. NOT BAD!!!! Shows we can get a turn out if we make it interesting.

WB5JBL

I am happy to announce that the Autopatch Assn has finally found a home. K5T2S-Jim Stanberry Officer for the Oklahoma Military Dept., has offered our club the use of the facilities at the Okla. Military Academy located at N.E.36th and Grand Blvd. This is a new facility(approx. 3 months old and will seat 104 people) with all sorts of modern training aids, projection equipment and classrooms. I cant begin to tell you the potential this holds for our organization. At last it seems we will have a secure place to start acquiring and setting up club owned equipment for the use of all members. A place where we can begin to gather training aids and a library to help people who want to get a license or update existing licenses. Beginning March 17, 1975, at 8:00 P.M. we will meet evry 3rd Monday at this location. The only exception being when we meet with MORI and they are Hosts of the joint meeting. We had previously announced that our meeting would be at the Will Rogers Bank, however, since we have received this offer of a regular meeting place, the sooner we start the better.

WB5JBL

The Club has ordered a new GE Master Pro solid state receiver for the new 22/82 repeater. It will be mounted at the 1400 ft. level of KWTW tower where the present receiver is. It will also use the 2 DB 224's phased(SE & SW) leg of the tower. The present 22 receiver will be the new 147.21 r'cvr, which will also be the autopatch system. The transmitter of the new .82 system will be mounted at the 1000 foot level. It will use one DB 224 mounted on the SE leg of the tower. We feel that this will be as good as, if not better than the present system. Another "new" feature of the autopatch system is the automatic hang up of the telephone. When the party hangs the fone up, 26 seconds later you will get a disconnect. This will stop the user from having to worry about shutting off the patch while driving down the road.

By the way,if you haven't noticed, we have the transmitter(82) back up to its full power again. After 2 years of doing nothing to it, we got a break in the weather and was able to ride the elevator up to the 650 ft. level, change out the driver and the final. We checked the power out before doing this and found that we were down to 25 watts. With the 2 new tubes installed, we are now back to our old reputation of the "BIG SIGNAL".

K5CFM

NEW MEMBERS---WELCOME

WB5FTE---Tommy Kessler
WA5EAI---Ronald Cron
WB5KAK---Doug Brown
WB5MZX---Rob Schertler
WA5YGX---Bill Beamer
WA5IQH---Bill Blakley

WB5HST---Ron Bragg
W5OYW---Ed Murar
WA5GWH---Jim White
WA5JHB---Marvin Stokes
Associate---Robert May
Associate---Mike Buckpitt



RE-NEWALS

K5TZS--Jim Stanberry
WA5EPK--Mike Salem
WA5RSC--Bill Morris
W5TPJ--Bill Cornenwett

WB5HZO--John Worthan
K5HQP--Marvin White
W5ORH--Jay Leibmann
CP1GM--Rafael Elias

FOR SALE:

Clegg Interceptor R'cvr
Clegg Zeus Transmitter and Power supply
Dycomm 10 in 100 out amplifier
Hallicrafters S-38D r'cver.
PRC 6 surplus talkie
BATTERY CHARGER for HT 200 or will fit a Standard Talkie
MAKE OFFER ON ANY OR ALL: JIM DENMAN WB5EOL PHONE 6816048

FOR SALE:

Tempo FMH Talkie, Full Xtals, Flex Antenna, Batt. Chg'r. Real Buy!!!!!!
Dennis WB5ISN Phone 341-4200

SIX METER SSB NET????????????

Anyone interested in getting a 6 meter SB net going in Okla.??
I'm sure most of you have read in QST and other publications about SMIRK,
(six meter international radio klub). To become a member you must work 6
Smirkers, send the call signs, names, date you worked them and 2 bucks to
Ray, K5ZMS. You will receive a real nice certificate and an up to date
roster from Ray. The last count I had there are over 600 members, inter-
national. At the present there are enough SMIRK members in Okla. to make
it easy to get in the KLUB. SMIRK net is on Sun nites at 0200 UT at 50.200.

We would like to start an affiliate, SOONER SMIRK NET, possibly on thurs or
friday nites, time and frequency to be determined later. Bob- WA5RBI is
the no.1 Smirk in Okla., being the first to r'cve his Smirk no., Rod,-
WB5DSH was no.2 and WB5CWB was no.3.

The whole point in Smirk is to get some activity going on 6 meters, much
like the 10-10 club on 10 meters. Bulletins from K5ZMS, tell us that Heath
could be persuaded to start back into production with the SB110A again if
enough interest is shown. That 50 bonafied orders will start the pro-
duction lines rolling again. Write to Heath if you are interested in 6
meter gear. Also, if you have 6 meter gear you want to get rid of (SSB),
let me know, there are several people locally interested in finding good
equipment they can buy.

If you are interested in getting a 6 meter net going, call me or Frank,
we will try to put it together.

Don't let anyone tell you Fri. the 13th is unlucky!!! Cause, Friday, Dec.
13th I finally got my continental 48th state on 6 meters, along with
Wally WB5CWC. We really earned this one too.

Anyone working 6 that hears Rhode Island might let Les-WA5VHN know about
it. I understand that Les needs R.I. for his continental 48. Word has it
that last summer during a 1 land opening on 6, Les was caught with his
rotator down (really) and missed a good chance, boy what a tough chunk of
coax to chew.

Don't think enough can be said about the weather meeting at Channel 9!!!!!!
Gary England and Tom Mahoney put on a fantastic show for us. Truly they
are professionals at their work and trade. RESULTS??????? Well. lets show
them that a bunch of Amateurs can be "Professionals" too by using the

GRID Maps and Priorities as intended for a great public service, if and when we are needed. THANKS to Channel 9..

Tnx to Jim K5T2S and Frank WB5JBL on the permantant meetin g place. I've got an old Eico scope I'll donate to start us a lab. It needs repair, but at least a start. How about you???? Got any thing the club can use to donate???? Like an old COUNTER or signal generator, or whatever, if you cant use it, we can put it to good use for the entire group.

Febuary saw:!!!

WA5EPK--- cramming for a bar exam.

WA5JXX---sporting a new talkie

WA5UNL---working on antennas

WB5HAK---practice teaching

WB5ISN---with a new IC 230

WB5ISO--- putting up a new tower

WB5JBL---finally got the hole dug for a tower

WA5TSJ---accepted to Dental school and at the Art Center

WA5JGU---working H&W after the Altus storm

WA5ETV---got his 52 receive working

W5ORH---back on the air after a hit by lightning

WA5VHN---still looking for R.I. on 6

"PRETTY TIMELY"

Heard a record on the radio on my way to the office Sat. morn. by the CHICAGO group" Harry Truman, where are you now that we need you".

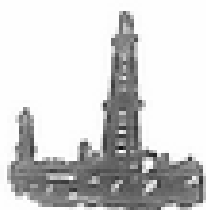
See you at our next meeting March the 17th. Be there!!!!!!!!!!!!

73

LARRY WB5CWB

COVER PICTURE MOONBOUNCE FROM OKLAHOMA CITY

Marshal Williams, WA5UNL, after dodging bad weather and with very little help from other hams in the area, went on the air last Wed nite, Feb 19th, & became the first Oklahoma to Oregon on 2-meters via "Moon-Bounce". His 240-element antenna is the largest amateur moon-bounce antenna in the world. WA5UNL was the second contact that WA6LET, Stanford University, made on their 150 foot dish antenna and was the loudest signal they heard. Marshal said he has not failed yet to get a return echo from the moon. He operates on 2-meters (144.0000 to 144.0010 MHz) Sideband or C.W. "F, B."



MID-OKLAHOMA REPEATER INC.

THE MORI MARCH 4 MEETING WILL GIVE YOU A CHANCE TO ANSWER THE FCC RESTRUCTURING DOCKET 20282

Even if you plan to answer the docket on your own a questionnaire is being prepared to formulate a club comment.

Personally, I hope that each and every one of you has read the docket by now and have formed your own opinion and are preparing a response to the FCC.

There are many things that happen in our lives these days that make us wonder how stable and interested our society really is. In a recent school board election here in Yukon only 217 persons took the time to vote. Out of a population of better than ten thousand! Bearing this in mind-out of over 255 thousand Amateurs, I wonder how many will be dictating the future of our hobby. I guess what I'm really saying is too many of us want to enjoy and hope someone else will protect our rights.

Don't forget the change in the By-Laws that was published in the February paper will be voted on at this meeting.

At the February 4 Executive committee meeting, the trustee of the WR5ADE 34/94 Repeater, Dennis Orcutt WB5ISN, reported that due to heavy personal commitments, he would like to resign as soon as a new trustee could be selected. The Executive committee accepted the resignation on this basis, and expressed their appreciation for the work he has done on the repeater. The committee also asked Dennis to remain on the Technical Planning Committee. He advised that he would do so. In looking for a replacement for this vacant position we (with his arm twisted) received a volunteer, Mr. Sid Gerber W5KOZ. This is subject to a majority vote, of course.

Be sure to read the report of the February 14 meeting of CORA. Each of the four clubs in CORA has accepted a part in the preparation for Oklahoma Ham Holiday 2. MORI's part will be the program of which yours truly has done some work, but I will be looking for help.
Bill WA5FWD The Pres.

SEND MEMBERSHIP RENEWALS TO SID GERBER W5KOZ,
829 E. BOUSE MID WEST CITY, OKLAHOMA, 73110

FOR SALE

NATIONAL NCX-5 MK II AND VX-501 VFO CONSOLE. VERY FINE CONDX.
ASKING \$450.00. MAC K2GKK/5 672-4947.

MOTOROLA HT 200 450 Mhz Handie Talkie with crystals for the new 450 repeater. see Bob WA5WYO or Jim WA4GWH 681-5894

MORI(cont)

Traffic Reports From City E.O.C.

Nov. 24, 1742

Wa5EPK, reports stalled vehicle 59th and I-35 north bound on ramp.

Nov 24 1824

K3TJD, Overhead flashing amber light inoperative.

Nov. 24 2005

W5RLJ, Signal 76 , N.W. 23 and Rockwell.

Nov. 25 1659

WB5AGX, Two car 76, 13 and N. Phillips.

Nov. 25 1905

WA5 JGU, Signal lite stuck, 16 and N. Meridian.

Nov. 26 1711

K5VVZ, City Bus Stalled, N.W. 23 and Tulsa.

Nov. 27 1604

Wa5TAW, Car stalled, west bound Dallas interchange and I-35.

Nov 28 1944

K5HFT, Signal lite Malfunctioning, 63 N.W. Highway.

Nov. 29 1519

WA5JUJ 76 N.W. 30 and Western.

Nov. 29 1520

K3TJD, West bound green lite out, N.W. 23 and ann Arbor.

Nov. 29 1717

W5NDS Abandon auto, N.W. 23 and Villa.

Nov. 29 1737

W5TVR, Signal 76 N.W. 58 and N. McArthur.

Nov. 29 1924

K3TJD, North bound green lite out

Dec Date missing

WB5 JBK, Signal inoperative, S.W. Penn.

Dec. 1 2053

KP4DJT, Stranded motorist, $\frac{1}{2}$ mile north of Indian Hill Rd on Sunnylane Rd.

Dec. 2 1606

K5QDR, Signal 76 S.E. 44th and ~~800000~~ Sooner Rd., North bound lane.

Dec, 3 1720

W5TVB, Two car 76, Meridian and Newcastle Rd.

Dec. 4 2100

W5RLJ, Trash in street 7800 blk Melrose Lane.

Dec. 9 1545

K5QDR, Abandon car S.E. 44th and Sunnylane.

We Will publish another group of reports in next months paper. Let's keep the reports coming in to WB5KMD at EOC.

SCUTTLEBUTT:

HAM RADIO REPORT IS CHANGING FROM A BI-WEEKLY TO WEEKLY PUBLICATION.
NO EXTRA CHARGE.

COMING EVENTS:

GATHER UP ALL YOUR JUNK AND STAND BY FOR A FLEA MARKET AT THE MORI
OCAPA MEETING IN APRIL

COMING EVENTS

Mar 4 MORI meeting.
Mar 7 ACARC meeting.
Mar 17 OKCAP meeting.
Mar 21 OCVHF meeting.
Mar 21/22/23 Region 4 USAF MARS Lake Texoma Lodge
Apr 4 ACARC meeting.
Apr 8 MORI/OCAP meeting.
Apr 11 CORA meeting.
Apr 18 OCVHF meeting.
Apr 21 CORA Editors meeting.
Jun 28/29 ARRL field day.
Aug 2/3 Oklahoma Ham Holiday.
Oct 25/26 Texoma Hamarama.

Mar 14 CORA meeting



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

FIRST CLASS

