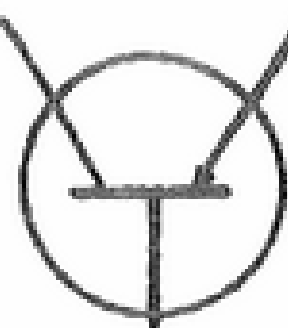


# CENTRAL OKLAHOMA RADIO AMATEURS COLLECTOR AND EMITTER



50¢

Second Class Mail



Volume 20 March 1994 Number 229

## WB5FWE BBS QRT

The following packet radio bulletin number 20461 WB5FWE was forwarded to the Oklahoma bulletin boards:

The BBS will be shut down on 2/25/94. After years of operation I have decided that I cannot offer the time to maintain the BBS in a fashion that I deem appropriate for its well being. All personal mail has been forwarded to the appropriate remaining stations (K5JB in OKC, WD0AJG in Duncan).

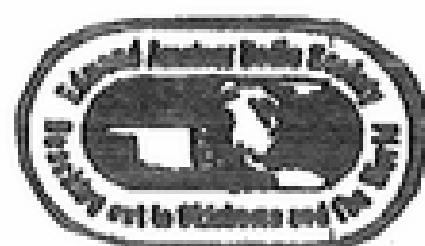
I do plan to continue and maintain the network nodes that are now operational. OU05 will be back online as soon as it is repaired.

Thank you all for your support over the years. 73, Dave, WB5FWE

Footnote: I want express my appreciation to Dave for the many years of providing this service to the Amateur radio operators in the area. Dave was one of the holders of the STA that permitted unattended HF operation of his BBS, and his outlet to the outside world will be missed.

As he mentioned, all personal mail he had has been transferred to other BBSs. If you were expecting mail on the WB5FWE BBS, check on mine for it. Its call is K5JB, it is on .05, and it is a miserable station. You may need to use GKK5 (an excellent station) as a digipeater to get to it.

Joe, K5JB



E.A.R.S.

HOWDY AGAIN ! Sorry to have missed ya in last months C&E. Appears like a lot of folks missed the tardy bell. Who was it that said a moving target is hard to hit? I will attempt to bring you up-to-date on club activities while taking a gander down-the-road with you.

On Wednesday, February 16th, the EARS board met at the Edmond EOC at 7:00pm. 7:00pm was not only the announced start time it was the actual start time for the Board meeting. Lee, have I ever told you how impressed I am with a group leader who starts on time. There seems to be a direct relationship between a meeting being punctual and being productive. I sure liked the flow and thought given to the items under discussion. You want to know the items covered don't ya... Ok, here they are:

Call to Order - Lee  
Vaughn, Minutes of Last Board Meeting - Kay Sage, Treasurer's report- Sue Snider, Emergency Coordinator Report - Mike Mize, Repeater Report - Lee Vaughn, Scholarship Report - Barbara Kiespert, Club Station Report - Pat Gray, Old Business, New Business and then Adjournment

Then, just three days later, the EARS group met for dinner at Good Eats, 300 West Britton Road, OKC,. A much needed rain preceded the dinner and may have kept a few away, but the turnout was nice as was

the food and fellowship.

I sure enjoyed seeing and visiting with Allen Watson, W5ERY- what a spirited poised amateur that Allen continued to be. Meet and visit with Allen if you need reminding about the true nature of man. The three letters you get this from will be ERY, not CNN.

Richard Winnard, KJ5QU, and his wife, Toni were in attendance and visited with some of the large group of EARS members. Congratulations to Tomi, who recently passed her Novice written, and is preparing to move on up the ladder in amateur radio. Richard is quickly contributing in creative and energetic ways to EARS - I can already way that EARS is a better radio organization because of KJ5QU.

I understand EARS sponsored the Oklahoma Repeater Society, Inc. (ORSI) meeting which was held February 20th in Edmond. Hopefully, many of you got to make the meeting and provided input.

### Upcoming Events -

St. Patrick's Day Parade- March 12th  
Board Meeting - March  
17th, Edmond EOC, 7:00 p.m.  
Club meeting - March 20th St. John's 2:00 p.m.

And do not forget: Each (does that mean every?) Monday evening at 8:00 p.m. the EARS Information Net kicks in to serve as the town crier for amateur radio related activities. It is not exactly a meeting of the Dead Poet's Society but Mrs. Doubtfire would be amused but not alarmed.

73, John, WB5SYT

## ANNOUNCEMENTS

VE Exams on 3rd Monday of each month sponsored by C.O.R.A. 1800 @ Salvation Army HQ at NW 50th and N Penn, Okla City.

VE Exams on 3rd Saturday of each month are held at 0900 in Math/Science building at Rose State College in Midwest City.

VE Exams on 1st Sunday of each month sponsored by MORI. 1300 @ radio station KOMA, 820 SW 4th Street, Moore, OK

VE Exams on 4th Tuesday of each month are held at 1900 in Bethel Acres Community Center & Fire Dept., near Shawnee.

VE Exams on 2nd Saturday of each month are held at 1000 in Red Cross Center in Norman.

Aeronautical Center Amateur Radio Club (ACARC) has begun amateur radio classes. Classes are Thursdays at 1800 at ACARC's club station W5PAA, about 150 yards west of MacArthur Blvd near 66th St. Call Brad/KJ0W for more info. H: 793-9470

Missing Ham Tag: K5PER's call letter license plate was stolen or lost from his pickup truck. If you spot a vehicle with this tag, contact your local police or the Highway Patrol.

The Oklahoma Nite Owl Net is still alive and well on the 147.135+ Repeater, however, it will be moving back to 146.67- on April Fool's Day, April 1st.

### HONDA ACCORD RFI FIX

I recently took my 91 Honda Accord in for a recall notice having to do with the ignition system. The recall was due to inordinate numbers of premature failures.

Well, the car came out of the shop with a ton of RFI on 2 m and 70 cm. It was quiet before the "fix". After much tinkering, a friend who is a Honda mechanic (Jeffrey/G7ILM) fixed the problem!

The problem seems to have been the plastic shroud that fits inside of the distributor cap. The new one is an ineffective shield. We put the OLD one in and presto, all was quiet again. If you have this problem, suggest you ask your dealer for one of the "old" shrouds that they throw away and put it back into your car. I think you will be pleased with the results. Kudos to G7ILM.

73 de Ross, KJ6FY  
Via the Packet BBS System  
Edited for C & E by K2GKK



"I wonder if you could make your estimate a little more explicit than 'wow - this will set you back a few big ones'?"

### Editor-

Scott Walsh, N5NYS

### Editor Emeritus

Joe Harding, WA5ZNF

### CORA-

Rick Masters, N5WNR-President  
Kathy DeGraffenreid, AA5RU-VP  
Jim Buswell, N5BEQ-Secretary  
Tom Mangham, K5LDI, Treasurer

Dear Subscriber,

PLEASE help us keep your information up to date. Check your entry on the back page. If there appears to be a mistake, check with your club officials and have it changed.

Dear Secretary/Treasurer,

When you want a change of any sort to your membership, you must fill out completely a subscription slip. Watch for the date you received their money and the date the subscription expires. Have your slips, or a list of deletions submitted by the 22nd of each month. If there is anything about the C&E subscriptions you need to know, please contact us.

Story information, as well as letters to the Editor should be sent to:

Scott Walsh, N5NYS

680 Annawood Dr.

Yukon, OK 73099-2008

or left in their entirety on the BBS at (405)354-3241, N81, 1200-14.4k. You can also leave your article in N5PHW's mailbox on 145.03 or get in touch with K5JB on 145.01 packet.

CORA Collector & Emitter

(USPS116-150) is published monthly by CORA, Inc. 3913 S. Mable, OKC, OK 73129.

Second class postage paid at Oklahoma City, OK

Postmaster: Send address changes to

CORA Collector & Emitter, PO Box 95942, OKC, OK 73143-5942

NAME CORR Collector & Emitter Publication Number 1116-11510 Date of Issue 9-29-93

3. Frequency of Issue Monthly 3A. No. of Issues Published Annually 12 3B. Annual Subscription Price \$4.50

4. Complete Mailing Address of Known Office of Publication (Street, City, County, State and ZIP+4 Code) (Not printers)

3913 S. Mable, OKC, Oklahoma County, Okla., 73129-6819

5. Complete Mailing Address of the Headquarters of General Business Offices of the Publisher (Not printer)

3913 S. Mable, OKC, Okla. County, Okla., 73129-6819

6. Full Names and Complete Mailing Address of Publisher, Editor, and Managing Editor (This item MUST NOT be blank)

Publisher (Name and Complete Mailing Address)

CORR. 3913 S. Mable, OKC, OK, 73129

Editor (Name and Complete Mailing Address)

Scott Walsh 600 Annawood, Yukon, OK, 73099

Managing Editor (Name and Complete Mailing Address)

None

7. Owner (If owned by a corporation, its name and address must be stated and also immediately thereunder the names and addresses of stockholders owning or holding 1 percent or more of total amount of stock. If not owned by a corporation, the names and addresses of the individual owners must be given. If owned by a partnership or other unincorporated firm, its name and address, as well as that of each individual must be given. If the publication is published by a nonprofit organization, its name and address must be stated.) (Item must be completed.)

Full Name	Complete Mailing Address
<u>Central Okla. Radio Amateurs (CORR)</u>	
<u>3913 S. Mable Ave</u>	<u>3913 S. Mable</u>
<u>OKC, OK 73129</u>	<u>OKC, OK 73129</u>

8. Known Bondholders, Mortgagees, and Other Security Holders Owning or Holding 1 Percent or More of Total Amount of Bonds, Mortgages or Other Securities (If there are none, so state)

Full Name	Complete Mailing Address
<u>None</u>	<u>None</u>

9. For Completion by Nonprofit Organizations Authorized To Mail at Special Rates (DMM Section 424.12 only)  
The purpose, function, and nonprofit status of this organization and the exempt status for Federal income tax purposes (Check one)

(1) ☐ Has Not Changed During Preceding 12 Months (2) ☐ Has Changed During Preceding 12 Months (If changed, publisher must submit explanation of change with this statement.)

10. Extent and Nature of Circulation (See instructions on reverse side)	Average No. Copies Each Issue During Preceding 12 Months	Actual No. Copies of Single Issue Published Nearest to Filing Date
A. Total No. Copies (Net Press Run)	<del>896</del> 936	800
B. Paid and/or Requested Circulation		
1. Sales through dealers and carriers, street vendors and counter sales	0	0
2. Mail Subscription (Paid and/or requested)	896	<del>725</del> 725
C. Total Paid and/or Requested Circulation (Sum of 10B1 and 10B2)	896	<del>725</del> 725
D. Free Distribution by Mail, Carrier or Other Means Samples, Complimentary, and Other Free Copies	0	0
E. Total Distribution (Sum of C and D)	896	725
F. Copies Not Distributed		
1. Office use, left over, unaccounted, spoiled after printing	40	<del>75</del> 75
2. Return from News Agents	0	0
G. TOTAL (Sum of E, F1 and 2—should equal net press run shown in A)	936	800

11. I certify that the statements made by me above are correct and complete

Signature and Title of Editor, Publisher, Business Manager, or Owner

Scott W. Walsh, Editor

---

## Use the Rose Packet Network

Greetings packet radio enthusiast. I hope this article is helpful in your understanding of the Rose packet system. We are very fortunate in this area to have such a great vhf packet system. One such system is Rose. I think a good place to start is to give you the locations and frequencies of our local switches:

AC5C-6 on 145.07 in El Reno Switch address is 405263

AC5C-5 on 145.01 in El Reno Switch address is 405262

K5JB-5 on 145.01 in MW City Switch address is 405732

N0ELS-5 on 145.01 in Moore Switch address is 405799

WD5IAT-5 on 145.01 in Noble Switch address is 405872

Currently there are close to 50 switches on our current list that are located in 7 states including: OK, TX, LA, FL, MN, IL and NM. So you see we are talking about covering a large area with a relatively simple protocol.

Sounds good so far. So now how do we use the system? Easy. The 3 main ingredients for using Rose are 1) who am I connecting to. 2) My closest or easiest switch to enter at. and 3) Where do I want to exit at? Rose requires this information to be able to complete your call. Here is a sample connect string I would use to connect to Larry, WB5CQU in Double Oak, TX.

*C WB5CQU V N0ELS-5,817491*

Ok, now lets break down into simple terms. WB5CQU is the station I wish to connect to. I am using N0ELS-5 as my ENTERING SWITCH since it is my closest switch in the Rose system. And I use the number 817491 as my EXITING SWITCH since it is the one closest to Larry. When you first send the connect string, and you make your entering switch, you will see: CALL BEING SET-UP Which means you have made it to the entering switch, and now the system will do the work from here. Hopefully the next thing you see on your screen is CALL COMPLETE Until you see that message, you really haven't connected to the station you are calling. The initial CONNECTED TO WB5CQU CALL BEING SET-UP message is really just saying you have successfully made the entering switch.

Ok, so what if I don't know any hams in Texas, but would like to see if I could meet some, or just see how this system works? Well, the creator of the Rose Network, Tom Moulton W2VY, has thought of that too. You would simply use this command to see what the Rose switch in Dallas is hearing... *C HEARD V N0ELS-5,214223* You should then get a HEARD LIST from the Dallas switch. Jot down several calls that you see on that list. The switch will then either ask you to disconnect, or automatically disconnect you. Then give it a try with a callsign that you now have in hand using the same format... *C W5AAA V N0ELS-5,214223* for example.

To get a complete list of Rose switches that are linked to our system at the present time, type this command *C INFO V N0ELS-5,405238* I used N0ELS-5 as my entering switch in the examples above. You would need to choose your entering switch by finding the best one for your area. On the north side of town, either AC5C-5 or -6 should do just fine. South side would be N0ELS-5, K5JB-5 for folks in the MWC, Del City area. And south of the metro area, WD5IAT-5 in Noble. By the way, have the capture buffer or the printer ready for the list of switches. I have a list available I can send to you if you are having problems getting it. Any questions you might have can be left at my mailbox, WG5C-1 on 145.01 Mhz.

Special thanks to Smitty AC5C, Joe K5JB, Norm N0ELS, and Shirley WD5IAT for all their hard work, time and effort to keep the Rose network going here in central Oklahoma.

de Mike, WG5C@WB5FWE.#OKC.OK

---

## Van Sickle -

### *90 days home confinement*

---

A United States District Court in Texas has written the end to the story of Terry Van Sickle, WB5WXI by sentencing him to 90 days of home confinement, three years probation, fining him one thousand dollars and ordering that he undergo a group counseling program as directed by the probation office.

Van Sickle is the WFAA television news cameraman who had been accused by the Federal Bureau of Investigation of harassing customers at a Mc Donalds restraurant drive-thru window last summer. He initially protested his innocence to the media. One newspaper even ran a two column feature about Van Sickle, quoting him as saying that the frequencies used by Mc Donalds are posted on computer bulletin boards and anyone could have been responsible. But on October 18th Terry Van Sickle changed his story. He pleaded guilty to one count of violating Title 47, section 333 of the United States Code by willfully and maliciously interfering with radio communications. Sentencing was set for early January. At that time he faced a maximum term of a year in prison and \$100,000 fine. The lighter sentence of 90 days home confinement and probation falls under federal sentencing guidelines. It is mitigated by the fact that Van Sickle has also lost some fifteen thousand dollars worth of scanners, two-way radios and other gear that was confiscated at the time he was detained. Van Sickle's troubles may not be over yet. There is every likelihood of FCC administrative action to strip him of any federally issued radio licenses. There is also the possibility of civil action against him by Mc Donalds Corporation to recoup losses incurred as the result of his jamming of their radio system.

TNX NEWSLINE

---

## Join *Fists*, Save CW

---

*FISTS* was formed by George Longden, G3ZQS. He realized that many would-be Morse Operators were frightened of operating Morse below 20 wpm because of the "speed merchants" who consistently operated at 25 or 30 wpm and did not welcome slower operators on the band. George realized that there were other operators who were concerned about this, so in September 1987 he formed *FISTS* - a club in which Veterans would take Novice operators under their wing, as it were.

Within one year, the membership in *FISTS* had grown to over 300. Membership is now well over 1000. *FISTS* demands no minimum speed or membership in any National Society; it only requires a Love of Morse. Morse is the most space conservative of all modes, demanding many times less band width than any other. Language differences become far less a problem in Morse than in phone by reason of the "Q" codes and common abbreviations. You will find a camaraderie among its devotees which is absent in other modes. The QSL return rate for CW contacts is much greater than for SSB, etc., and until it has been experienced, the sheer satisfaction of a CW QSO is difficult to describe. Suffice it to say, that an overwhelming majority of those who become even moderately adept in the use of CW tend to prefer it for 90% to 100% of their Amateur Radio activity. *FISTS* is peopled by those whose affection for Morse fosters the urge to preserve it in the face of those who, not understanding the joy and satisfaction to be had from its use, seek to replace it with techniques that fall far short of its efficiency and

simplicity. Amateur Radio is firmly anchored to the practice of communication by the International Morse Code from the very beginning of its history and with the help of yourself and others like you, it will always remain so.

Dues are only \$15.00 per year. There is a monthly newsletter, containing both the British news and the North American news. If you are interested in preserving the Morse Code and joining with others to do so, send your check made payable to FISTS CW Club to Nancy Kott, WZ8C, 5450 Diehl Road, Metamora, Michigan 48455. If you need further information, or would like to see a sample of the newsletter, send a SASE to Nancy Kott, and she will send you a sample of the newsletter and other information. Please mention that you learned of FISTS from my packet information. For more information regarding the club if you are outside North America, please send a note to George Longden, G3ZQS, 119 Cemetery Road, Darwen, Lanes, BB3 1LZ, England, 0254 703948. 73 de Joe AA8HV @ WB8ZPN.#SEMI.MI.USA

Via the Packet BBS System, Edited for C & E by K2GKK

---

## FLORIDA ANTENNA SUIT INFO

*Florida Ham Launches Massive Antenna Lawsuit Against Condominium Association, Prepares Bill For Florida Legislature.*

---

### Condominium Association Lawsuit

Clearwater, Florida--After trying for almost three years to install and maintain an Amateur Radio antenna, Don Stoner, W6TNS, has initiated a lawsuit that could have significant impact on hams in other areas of the country.

Many condominiums and community associations have restrictions on antennas, called restrictive covenants. Usually they specify that no antennas be erected, which covers ham radio as well as satellite dishes. The suit, which contains 11 counts, 142 paragraphs and weighs almost four pounds, was initiated on January 30, 1993, against the defendant, 440 West Inc. Stoner maintains in the lawsuit that the Association has installed community television antennas, and a radio system for condominium security, in direct violation of their own rules.

Stoner maintains the action of 440 West, Inc., has violated his civil rights and freedom of speech. W6TNS alleges that as a result of the actions of the Association, he is no longer able to talk with his friends, made as a ham radio operator in the past 40 years. He further alleges the restriction the Association relies on, for its right to ban ham radio, specifically applies to television antenna and nothing else. Stoner was forced to take down a longwire antenna even though there was no restriction against a receiving antenna in the Association documents.

In an unusual approach to resolving Association concerns about multiple antennas, Stoner offered to install a community ham radio antenna, incorporating the AEA, Inc., "Hamlink," stating that any licensed resident could use the system without adding any wiring or other antenna. The Association refused this reasonable offer and the lawsuit was initiated.

If W6TNS wins this lawsuit, it could impact the situation of other hams throughout the country. Many condominium associations, planned communities and mobile home parks have restrictive covenants and/or deed restrictions which attempt to restrict the activities of Amateur Radio operators in every state of the nation.

### Antenna Legislation

To provide a more complete solution to the restrictive covenant problem, Stoner also is working with Florida legislators to introduce ham radio provisions, that would benefit all Amateurs, into the State law. Don Stoner, W6TNS, who is the President of The National Amateur Radio Association, believes that restrictive covenants work against the safety of the entire community and should be revised. Recently, Florida residents had a painful, first-hand example, when hurricane Andrew devastated the southern end of the state.

The legislation proposed by Stoner requires that each condominium, planned community, and mobile home park be required have an emergency preparedness plan, which includes ham radio. If an amateur lives in one of these communities, he or she would be allowed by law to install an antenna system suitable for providing safety communications to the community.

For additional information, contact Richard Heiden at the address shown. Heiden is the attorney of record in Stoner's suit and directs legislative efforts in the State of Florida.

From: AA7UF @ WB7QEU

Via the Packet BBS System, Edited for C & E by K2GKK

---

## WARNING !

### *The Problem with ex-CBers*

by Cary Altman, WB0OIZ

---

I apologize about the title. It might be a little too reactionary. It got you to read this though! This bulletin will hit some of you as a negative slam against the new hams that have arrived to ham radio with the no-code license. Take this for what it is worth. This is just one man's opinion after reflecting on a crisis situation here in the KC area and in no way reflects on every one of the 100,000 new hams, just a select few "special" cases.

Maybe I am not being fair. To blame the citizens band service for what is happening to us may be a little harsh so let me narrow my inspection beam down a bit more to be directed at those new hams who have not yet learned the traditions and the pride associated with what it means to be an Amateur Radio Operator. Let me also direct this beam at the old timers who know from years of experience how to deal with problems on the air but refuse or can't figure out how to move against the threat of 100,000 new hams.

We have a BAD problem in KC with bootleg calls, jamming on the repeaters and just plain old poor operating practices including foul language, threats over the air of bodily harm and more. It is just a matter of time before this situation gets out of hand and someone either gets hurt or we get several stations taken off the air by the FCC.

Why do we have this problem now? We didn't have this problem 2 years ago and I have never seen anything like this in all my years in Ham Radio. It is my opinion that the cause is two-sided:

First, it is caused by the staggering numbers of new hams who have joined us on the air in the last year or so with the relaxed entry requirements and no experience and little pride associated with the hobby and possibly bad habits brought over from other services.

hobby and possibly bad habits brought over from other services.

Second, the problems are just as much the fault of the experienced hams who refuse to acknowledge the new people, who refuse to train them and refuse to deal with them in any way or tackle the problems head-on when they appear.

It has become us against them, and because we have so little experience in the past with the problems of the magnitude that are now popping up we seem unable to cope with the trouble. We seem to be losing the battle. We seem to have collectively forgotten how to police our bands and how to get tough when necessary. I submit to all readers of this message that we now have to reverse this trend. We have to use the full extent of our experience and skill to educate this new group of hams that we mean business and that:

**WE WILL NOT STAND FOR BAD OPERATING ON OUR FREQUENCIES!**

It is also my strong opinion that this education has to start at home. The education process has to happen in the local clubs and on the local repeaters and at the local lunch gatherings. We have to get tough, now or we will loose control before very much longer. We have to show off our talents and have regular education sessions in the clubs and on the repeaters. We have to have rabbit hunts to show the new guys just how easy it is to find a bad operator. We can't expect the traditions and concepts of what it means to be a Ham just to sink in by osmosis with these new hams, we have to tell them the stories and lead them to the knowledge with our experience and by our example.

I am proud of being an Amateur Radio Operator and strongly resent some newcomer coming in and jamming our repeater when he doesn't like the person or the topic. We had our jammer here in KC keep up his stuff during a priority traffic-help situation on our repeater. That was the last straw. Several are mad now. We are going to get this jerk. I submit that it should have happened earlier. We should not have allowed the message to get out that we would sometimes put up with this behavior.

Maybe this bulletin could be considered a warning to the new hams who have not yet realized that we will not tolerate games over the air. Ham Radio is a major part of my life. I am proud of what I have done through the years and I know that I will be a Ham for the rest of my life. I am not going to let a group of unruly newcomers tear down the traditions that have been handed down for me to carry on; I am going to fight for what I believe to be correct. I guarantee you that if 4-5 experienced hams set out to find a jammer or rid a repeater of a problem it can be done. I don't care how good this newcomer is, we have years and years of experience and fantastic technology on our side. Get tough with your problems. Don't let the message get out that we don't really police our bands. Make it clear that certain kinds of activities will not be tolerated. Use peer pressure, use your talent and experience and be relentless.

**DO NOT LET OUR HAM RADIO GET OUT OF CONTROL!**

Remember what happened in the 70s to CB. Don't let it happen here just because you refused to take a stand. Get tough! Be an Elmer. Change one, and you can change hundreds.

73 Cary Altman WB0OIZ @ WB0OIZ.#KC.MO

Lone Jack, Missouri

Via the Packet BBS System, Edited for C & E by K2GKK

---

## Kantronics KAM HF Front-end

### \*\*\* Modification Update \*\*\*

by Carl Young, K5HK

---

I have used the Kantronics KAM modem for over five years now. I recently received a Kantronics KAM-Plus modem. After comparing the schematics of the KAM and the KAM-Plus, I came up with this modification for the KAM to upgrade it to the improved front-end AGC and limiter used in the KAM-Plus HF modem.

The specs from the manuals for the KAM and the KAM-Plus are as follows:

AUDIO INPUT (HF)FM Sensitivity:

20 mV P-P (KAM) 2 mV P-P (KAM+)

AM Sensitivity 100 mV P-P (KAM) 40 mV P-P (KAM+)

Dynamic range: > 60 dB (KAM) > 80 dB (KAM+)

It is a simple modification requiring only some care and a few passive components. Replacing only 4 resistors, adding one resistor and capacitor, removing one diode and reversing another does the trick! The dynamic range of the input circuit is much better with this mod installed in the KAM.

With the help of the schematic and the component layout diagram for the KAM, the location of components is simple and the use of a solder-sucker to clear the holes for the double-sided PCB will facilitate a clean job.

**Components to replace/add:**(1/4 W, carbon resistors)

PT# OLD NEW

R17 470 100

R18 47K 68K

R19 2.2K 10K

R27 15K 2.7K

Add 100K

Add .1uF/50V cap

#### **PROCEDURE:**

1. Remove CR11 and re-install with polarity reversed.
2. Remove CR5 and discard.
3. Lift the end of R13 that is common with R1.
4. Insert one end of a .1uF, 50V capacitor into the PCB hole vacated by the end of R13 common to R1; solder in place.
5. Connect the other end of this cap to the free end of R13.
6. Install 100K 1/4W resistor between free end of R13, the .1uF cap and ground. Use the PCB hole vacated by removing CR5 (ground side). You end up with a "tripod" of components R13, the new 100K resistor and .1uF cap.

**CAUTION:** *Some PCB holes having double-sided traces may need to be soldered on both sides of the board to ensure a through-board solder job.*

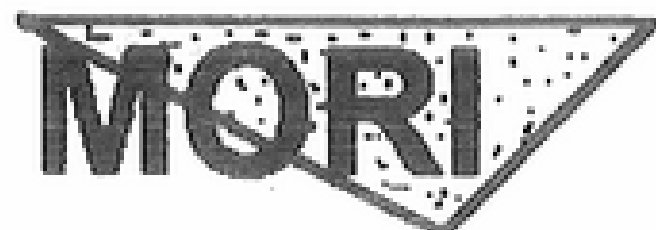
This completes the update modification for the KAM. You will notice a better dynamic range for input signals to the KAM and an improved limiter using the FM/AM front panel switch. I noticed an improvement in throughput when operating AMTOR/PACTOR. I also noted improved CW reception using the "AM" position of the FM/AM switch providing perfect copy on 160M CW signals. I would appreciate any feedback on this modification or other improvements: K5HK @ K7BUC.AZ.USA.NA or mail to my home address.

73, Carl Young, K5HK /MM2, Aboard SS Kainalu

Home: 983 Lester Ave., Reno, NV 89502

Via the Packet BBS System, Edited for C & E by K2GKK





February Minutes/February 1, 1994

The meeting was called to order at 7:09pm by Scott Walsh, N5NYS.

The minutes of the January meeting were presented by Earl Draper, KJ5HN. A motion to accept the minutes was made and seconded, the motion passed.

The Treasurer's report was presented by Robert Moose, N5QKI, indicating a balance of \$1,127.10.

A motion to accept the Treasurer's report was made and seconded, the motion passed. The VE report was given by AB5ET.

The Foxhunt report was given by KJ5HN.

The CORA report was given by N5QKI, who requested that submissions for the club column in the C&E be made to himself or N5NYS. He also reminded the group to send in address changes promptly, as return mail dramatically increases the cost of each copy of the newsletter.

The Technical Committee report was given by N5VIS.

The Net Operations report was given by WNR. The Prime Time and CW nets are going well, and a Topic net is in planning stages.

Jerry N5KNU advised that weather

training seminars will begin to be held around the end of February.

Scott N5NYS thanked the Aeronautical Center ARC for their work preparing the C&E for mailing.

#### OLD BUSINESS

A motion was made to accept Jerry N5KNU as club service agent. The motion passed.

John N5SAM requested equipment and volunteers to help during the upcoming Student Inventors Expo, to be held February 9 at the State capitol.

#### NEW BUSINESS

Robert N5QKI will serve as the 1994 Ham Holiday talk-in chairman. He requested volunteers to work the talk-in frequency, which will be the 146.925 repeater.

N5NYS said that a MORI special event station for Ham Holiday is still in the planning stages, and requested input and ideas.

Bill K6VPE proposed that the only rules governing the transmitter hunts be that the hunts be based on safety, and that the signal be receivable at the starting point on an HT. After extensive discussion, N5NYS recommended that the DF committee meet to discuss any guidelines.

Brad KJ0W advised the group that No-Code Technician classes will begin at the Aeronautical Center ARC at 6:00pm February 3.

The meeting was adjourned at 8:20pm. Earl Draper KJ5HN, Secretary

Earlier this year, Sid Gerber W5KOZ a long time member of MORI passed away.

Sid was a charter member of MORI and served the club in many capacities over the past 25 years. His participation and leadership helped lay the cornerstone of MORI.

At last count, membership is just above 240...At this rate, 250 and 300 are not that far away...

#### Getting caught up in nets????

Here is a list of nets held on the MORI repeaters:

*MORI prime time* Sunday, Monday and Wednesday @ 1900 on .67

*Gaming net*, Saturday @ 2300 on .67

*CW Net* Thursday, Saturday and, Tuesday, @ 2000 on 145.21 (in CW)

### ***WELCOME BACK!!!!***

**The Oklahoma Night Owl Net is currently making plans to move back to .67 within a short period of time! .67 was once the home of the net for many years.**

## ***Time's Running Out -***

### **DEADLINE: LAST WEEK OF MARCH**

Applications are being accepted for the Bertha Watson scholarship (\$500) that is sponsored by E.A.R.S. There are also two \$500 scholarships to be given away by C.O.R.A. Applicants need not be hams and it is open to graduating high school seniors and college students of all ages. If you or someone you know are eligible, turn to page 17, fill out the application form and send it in by the due date March 28th.

For more information, please contact:

Barbara Kiespert  
804 Dripping Springs  
Edmond, OK 73034-8717

Earl, KJ5HN is now the chairperson of the Foxhunt committee. Many thanks to Bill, K6VPE for his past year of work with the committee.

According to the Hitchikers Guide to Repeater operation, the coverage area of all MORI repeaters is defined as "Bigger than the biggest thing ever and then some. A totally stunning size. It is just so big that, by comparison, bigness itself looks really titchy. Gigantic multiplied by colossal multiplied by staggeringly huge is the amount of area it covers"

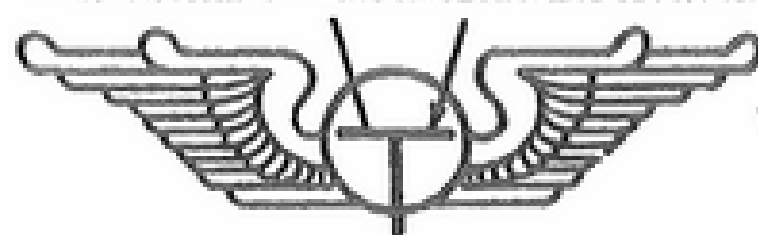
#### JUST A REMINDER....

We are now up to four repeaters...They are: 145.21 (156.7 PI), 146.67, 146.925 and 444.1 (141.3 PI)

It wont hurt if you use them...!

Thats all for this month.... 73'

de Robert N5QKI



W5 PAA



Oklahoma  
City  
Autopatch  
Association

The South Canadian  
Amateur Radio Society

The Aeronautical Center ARC held its election of officers for 1994 on January 6, 1994. Brad Nelson, KJ0W, was re-elected to serve a second term as Secretary/Treasurer, Dick Russell, KE4DCL, was elected President, and Chuck Bryant, KB5ZVZ, was elected Vice-president.

A work party met one Sunday thus far in an attempt to repair the 40-meter beam. Weather always seems to be the largest adversity in Oklahoma! Although enough volunteers arrived at the Club QTH, Wind was not a volunteer.

The Aero Center began hosting classes for Novice and Technician class examinations February 3, 1994, at the Club QTH. The first class had 15 potential hams in attendance. The Aeronautical Center club is located in General Office Building #147, immediately West, and behind, the Civil Aviation Medical Institute (CAMI), 6500 South Mac Arthur Blvd., OKC. Should anyone need more specific directions, contact any one of the club Officers or Aeronautical Center Security. The classes will run approximately 8 weeks, beginning at 6 PM and lasting approximately one and a half hours.

Club members elected to participate again this year in Boy Scout HOMBRE in October as they have the past two years. Other club events will be scheduled after the February meeting and announced in the C & E.

Thanks go to the Club members who assisted in the collation of the February Collector & Emitter newsletter. KJ0W, W0DZA, KB5ZVZ, and company completed the task in 2+ hours.

## MINUTES OF THE OCAPA MEETING February 16, 1994

The meeting was called to order by Gary England at 7:00pm at the Channel 9 studio. He introduced the meteorologist team from TV9, then introduced John NJ1V.

John read a thank you note from Cion Hanstein, Leonard W5MEL's wife, thanking OCAPA for the flowers at his funeral.

Brad KJ0W told us that the March C&E will be folded by OCAPA and wanted volunteers to help. Brad introduced Mike N5VIT, the severe weather net coordinator. Mike told us that Mac K2GKK, Ron KA5RVM and another volunteer will be net control operators. Tom WA9AFM, is the only radar room person at this time. Mike and Tom stressed the need for precise information and safety.

The meeting was adjourned at 7:15pm, and turned over to the meteorologist. Estimated attendance 125.

John Brassfield, N5SAM

Constitution *CHANGE*. Turn to page 10.

New Bumper Sticker:

Hope *Isn't* in Arkansas  
It's in 1996!



A big THANK YOU goes out to everyone that helped fold the C&E last month and also to everyone of the Autopatch Assn. that will help put this one together this month. You all deserve a big MEDAL for saving us over \$100 in folding costs in the past two months.

Pres David, N5KUJ, called the February meeting of S.C.A.R.S. to order at about 9:35 a.m. Feb. 11th at the Red Cross. David asked everyone to give their name and callsign and if they had anything to sell, trade or give away, do it at that time. Dick, N5XRD announced that his beam was not for sale at this time, as his wife will let him cut down the 'ole apple tree instead.

Congratulats-A member from the Red Cross disaster team dropped in and thanked Don, KJ5KB and Jerry, W5MCJ, for their help in passing messages during the first few days of the earth quake on the west coast. Thanks guys.

CORA Report-Don, KI5TP, gave the CORA report as Mike, N5SOF, was called out of town. (Anyway, that is what Mike said!) For the benefit of some new members, Don explained the function of CORA. Louis, KC5ABI, volunteered as an alternate to attend the CORA meetings.

Monthly Report-Bill, N5UMH, reported that with all bills paid and with a total of 15 members being paid of for the fiscal year, that SCARS has a balance of \$600.84. Bill also explained that there seem to be some confusion as when dues are due, and he explained that the memberships expire on Dec. 31st of each year and are due during month of January.

Also, after some discussion in the January meeting, SCARS will do a mail-out to some of the hams that live in Cleveland county. \$150. was approved for the mail-out. Bill also said that if the hams that have a computer and wanted a list of the hams in Cleveland county, bring him a 3.5" disk and he will be glad to make them a copy.

UHF repeater-David also announced that the UHF repeater is about ready to be put in operation. Mike Salem, N5MS, still had a few things to do and it should be ready to put in operation. That frequency is 443.700.

Meeting Place?-The Red Cross director announced that the meeting room that SCARS usually uses, has been booked up for classes after the March meeting, it looks like SCARS will have to have a different place to meet after the March meeting. If someone can come up with any



ideas, speak up! Also, the Red Cross wanted David to announce that from now on we should use the front door for the entrance and not the back door as we have done in the past. The back door is for EXIT ONLY! Please use the front door.

Mark, N5HZR, said he had met with the new director of the Red Cross and said that the center does want SCARS presence to be known in case of a disaster. Mark created a "want list", which included several large dollar items. Louie, W5UZD, is working to see if SCARS can become a non-profit organization so we can have some items donated to us. Mark also reported that the ham class was still holding around the 45 to 50 people in the class and was very pleased with way things were going and stressed that members of SCARS need to make the new hams welcome to the club. After the meeting several of the class members took their tests. (see if we can found out how many passed)

Report on ARES-Matt, gave a report on ARES and the pending storm season. Said SCARS will be needing spotters and someone to man EOC. Fire Chief Dutch said that he wanted someone to be at the EOC in case of a several storm. Spotters training class will be held after the March meeting at the Red Cross center.

SCARS Packet BBS--Mike, WG5C, volunteered to set up a packet station on 145.07. After some experimentation, Mike has a BBS setup where members of SCARS can get information on most anything and leave messages. Just connect to WG5C-1 and follow instructions.

Radio committee--Mark, N5HZR, Ken N5KUK and Gary, W5ULK were appointed to a committee to see what SCARS needs are for a HF and VHF radios in the radio room at the Red Cross.

Purged--Names will be purged from the auto patch on the repeater if dues are not current. The code was changed on Feb. 11th. So if you try to use the auto patch and it won't work, now you know why. Dues were due on Jan. 1st.

Election held--New officers were elected or in some cases, volunteered. The new officers are: President, Don, KJ5KB; Vice-President, Mike, N5SOF; Treasurer, Bill, N5UMH and Secretary, Keith, KB5FCI. CORA representatives are, Don, KI5TP; Mike, N5SOF and Lewis, KC5ABI.

Thanks--I would like to take this

opportunity to thank David, N5KUI, the outgoing president of SCARS and the fine job he did. Thanks David.

Meeting adjourned at 10:35 a.m.

--30--

Keith KB5FCI

#### Minutes of SCARS meeting, 2-12-94

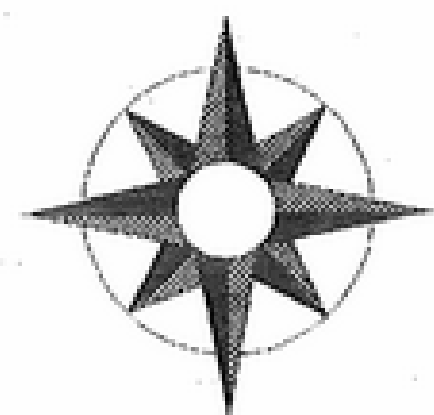
President David, N5KUI, called the meeting to order at 0935 on the second Saturday of February at the Red Cross on North Campus in Norman. There were 50 members and guests present, including W5UZD who stayed for the entire meeting. This was Louis' third complete meeting. A modern day record! After introductions, we moved to OLD BUSINESS. There was a brief CORA report (yes, they still need help for some committees), and the Treasurer, N5UMH, reported that we were not broke. It was moved and seconded to authorize Treasurer to do a mailout to all amateurs in Cleveland County. The UHF repeater should be up by the time you read this (443.7, no PL - yet) somewhere around campus. Then, on to NEW BUSINESS. The April, May, and June meetings will be somewhere other than the Red Cross. They have meetings scheduled for those Saturdays. Watch this space and listen to the repeater for the location for those meetings. N5HZR gave an extensive report on the goings on at the Cleveland County chapter of the American Red Cross. There is a new director (she likes us! - this is different), they have hired a full-time disaster coordinator, and there is a plan to upgrade our station to be fully functional for the Red Cross. As a part of that, a committee was appointed to recommend to the club a dual band VHF/UHF radio for the station at the Red Cross. This committee includes: N5HZR, N5KUK, and W5ULK. Donations are now being accepted to cover the cost of this radio. Send them to the Treasurer or bring them to the club meeting. The new ARES coordinator, Matt, N5CKG, was in attendance and gave us the lowdown on needs and who he has coordinated with so far. Anyone interested in ARES should see Matt. We have need for operators for the EOC at City Hall, as well as, trained spotters and radio operators for the normal day to day disasters that occur in and around the county. Lastly, elections were held for officers. Don, KJ5KB was elected President, Mike, N5SOF was re-elected VP, Bill, N5UMH will continue as Treasurer, and Keith, KB5FCI as elected Secretary/Editor.

Congratulations/condolences to these. We'll egg you on from the peanut gallery! If your autodial no longer works, that means that you haven't paid your dues. The access code was changed the day of the meeting, and most unpaid members' autodial slots were disabled. This is merely a housekeeping matter. Pay up and we'll turn you back on. That is not very diplomatically put and there were a few dangling participles in there, but send your dues to the Treasurer at:

SCARS  
P.O. Box 720993  
Norman, OK 73072.

Adjourned at 1034 LST. 73 de W5ULK

Autopatch  
Club  
Constitution  
Changes  
start  
on the  
NEXT  
page!!!!!!



★ ★ ★ ★ ★ ★ ★ ★ ★ ★  
★ **CYNOAK PRINTING** ★  
★ and **RUBBER STAMPS** ★  
★ 9100 N. Council Rd. ★  
★ Oklahoma City, OK 73132 ★  
★ 728-3810 ★  
★  **RUBBER STAMPS**  ★  
★ **QSL CARDS!** ★  
★ **NEWSLETTERS - FLYERS** ★  
★ ★ ★ ★ ★ ★ ★ ★ ★ ★

NOTICE OF PROPOSED CHANGES TO  
THE CONSTITUTION OF THE  
OKLAHOMA CITY AUTOPATCH ASSOCIATION

With the concurrence of members present at the December meeting of the Oklahoma City Autopatch Association (OCAPA), Thomas Webb, WA9AFM, Vice-President of OCAPA, was directed to form a committee to review the OCAPA constitution and recommend deletions, changes and additions to said document.

The primary thrust of the review committee was to 1) improve readability, 2) update certain passages to reflect current operating costs of the various OCAPA repeaters, and 3) add certain authorities to streamline club operations.

The review committee presented its initial recommendation at the January meeting. Comments and suggestions from the membership present at that meeting were incorporated into the draft document.

It is the sense of the OCAPA Executive Committee, the following document is ready for presentation to the membership for their consideration. Per the following sections of the current OCAPA Constitution addressing 'Amendments' of the constitution and 'By-laws', notice is given to OCAPA members to be present at the 15 March meeting to make final comments and the 19 April for an adoption vote.

ARTICLE V

AMENDMENTS

Sec. 1 - This constitution may be amended when approved by two-thirds (2/3) of the members present at a regular duly constituted meeting, provided that members receive twenty-eight (28) days prior notice of said amendment.

SECTION X

AMENDMENTS

These by-laws may be amended when approved by a majority of the members present at a regular meeting, provided that members receive twenty-eight (28)

days prior notice of said amendment.

NOTE! CHANGES ARE INDICATED IN  
BOLD/ITALIC TYPE.

CONSTITUTION

OKLAHOMA CITY AUTOPATCH ASSOCIATION, INC.

ARTICLE I

NAME

Sec. 1 - The name of this organization shall be the Oklahoma City Autopatch Association, Inc. hereinafter called OCAPA.

ARTICLE II

PURPOSE

Sec. 1 - The purpose of OCAPA is to promote interest in the fields of communications, electronics and the Amateur Radio Service.

ARTICLE III

MEMBERSHIP

Sec. 1 - All persons interested in *the fields of communications, electronics and the Amateur Radio service* are eligible for membership in OCAPA.

Sec. 2 - Application for membership shall be *made by the payment of membership dues accompanied by a membership application* to the Treasurer.

Sec. 3 - *A member whose spouse and/or dependents residing at home and under eighteen (18) years of age, who hold a valid Amateur Radio License, may be registered with the Treasurer as members of OCAPA. Only the sponsoring member will be required to pay annual dues.*

Sec. 4 - Membership will be renewed on an annual basis by payment of dues to the Treasurer on or before the last day of the month of expiration.

Sec. 5 - A member may be expelled from OCAPA after:

a. An investigation and hearing by the Executive Committee.

b. Presentation of the Executive committee's finding at *the next* duly constituted meeting.

c. A majority vote *in favor of expulsion by the members present* at *the next* duly constituted meeting.

Sec. 6 - A member, once expelled from OCAPA, shall not be eligible for *readmission to OCAPA*

ARTICLE IV

BY-LAWS

Sec. 1 - OCAPA shall adopt by-laws which will include provisions for governing the membership, organization, and officers of OCAPA. Such by-laws may be amended from time to time as therein provided.

## ARTICLE V

### AMENDMENTS

Sec. 1 - This constitution may be amended when approved by two-thirds (2/3) of the members present at a regular duly constituted meeting, provided members have been sent prior notice of said action.

## ARTICLE VI

### ADOPTION

Sec. 1 - This constitution shall be adopted and become effective as the Constitution of OCAPA when it shall have received a two-thirds (2/3) acceptance of members present at a regular duly constituted meeting, provided members have been sent prior notice of said action.

### BY-LAWS

#### OKLAHOMA CITY AUTOPATCH ASSOCIATION INC.

### SECTION I

#### AUTHORITY

Administration of the affairs of OCAPA shall be vested in an Executive Committee. The Executive Committee shall consist of: The elected officers of OCAPA, the most recent past President, the Trustee, and the Technical Committee Coordinator.

### SECTION II

#### OFFICERS

##### A. THE OFFICERS OF OCAPA SHALL BE:

1. President
2. Vice-President
3. Secretary
4. Treasurer

##### B. TERMS OF OFFICE

The term of office of the officers shall begin at the regular meeting in September and shall be for one (1) year. No officer may serve for more than two (2) consecutive terms in any one office.

##### C. ELIGIBILITY

Any member of OCAPA, holding a valid Amateur Radio License and having reached the age of eighteen (18) years or older, shall be eligible to hold office.

##### D. NOMINATIONS AND ELECTIONS

1. The elected offices shall be filled by ballot during the month of August.
2. A nominating committee shall be appointed by the President. Nominations will be presented to OCAPA at the July meeting. However, nominations from the floor must be acknowledged. Persons nominated from the floor must be present to accept, or submit written affirmation of

willingness to serve.

3. Voting shall be secret ballot of members present at the designated election meeting. Nominees receiving the majority of votes shall be the elected officers. Nominees who are unopposed shall be declared elected by acclamation upon closing nominations for the office in question.

##### E. VACANCIES

Any office declared vacant after the regular election shall be filled within thirty(30) days by an appointment by the President with the advise and consent of the Executive Committee. The office of President will be filled as per the "Order Of Succession".

##### F. ORDER OF SUCCESSION

In the event the President is unable or unwilling to properly discharge the duties of office, the order of succession shall be: Vice-President, Secretary, and then Treasurer.

## SECTION III

### DUTIES OF OFFICERS

A. PRESIDENT - It shall be the duty of the President to: preside at all meeting of OCAPA; appoint any officers pro-tempore or committees that may be necessary; act as chair of the Executive Committee; be an ex-officio member of all committees. The President's responsibilities include stimulating overall functioning of OCAPA's officers and committees as necessary to assure club activity preparations are completed as scheduled. The president shall be one of OCAPA's representatives to C.O.R.A.

B. VICE-PRESIDENT - It shall be the duty of the Vice-President to: assume the duties of the President in the President's absence; have all the authority of the President when acting in the Presidential capacity; be responsible for public relations, news and input to C & E.

C. SECRETARY - It shall be the duty of the Secretary to: keep a permanent file of all OCAPA correspondence; minutes of all meetings; and handle all official OCAPA correspondence.

D. TREASURER - It shall be the duty of the Treasurer to: receive and disburse all funds and keep an accurate record of such; be personally responsible for all funds and shall give an accounting of all funds at each meeting of OCAPA; keep the membership list current; provide current membership information to the Secretary and membership committee chair; and, upon request, provide new and current members copies of membership lists, club constitution, and repeater codes/procedures.

## SECTION IV

### DUTIES OF THE EXECUTIVE COMMITTEE

The Executive committee shall appoint the Technical Committee's Coordinator, the Trustee, and be responsible for the general management of OCAPA.

## SECTION V

### REMOVAL FROM OFFICE

Any officer or Executive Committee member may be removed from office by a majority vote of members present at a duly constituted meeting, provided members have been sent prior notice of said action.

## SECTION VI

### TRUSTEE

The Trustee, appointed by the Executive committee and serving at their pleasure, shall be a member of OCAPA and provide necessary licensing for OCAPA's repeaters.

## SECTION VII

### TECHNICAL COMMITTEE COORDINATOR

The Technical Committee Coordinator, appointed by the Executive Committee and serving at their pleasure, shall coordinate all routine maintenance and operation of the repeaters; when so directed by OCAPA and approved by the Trustee, coordinate any changes, revisions or additions to the repeater equipment; and shall be responsible for maintaining an inventory of all of OCAPA's equipment.

## SECTION VIII

### MEETINGS

#### A. DULY CONSTITUTED MEETINGS

1. Meetings shall be held once per calendar month.
2. Special meeting shall be called by the President or by a majority of the Executive Committee. Prior notice of the special meeting shall be sent to OCAPA's membership. *Special meetings may be held in lieu of a monthly meetings.*

#### B. EXECUTIVE COMMITTEE MEETINGS

Executive Committee Meetings shall be held at the request of the President or a majority of the executive Committee members. A majority of the Executive committee must be present to constitute a proper meeting. All Executive Committee meetings will be open to members of OCAPA. *Executive committee meetings will be announced informally.*

#### C. PRIOR NOTIFICATION

"Prior notice" is defined as written notification sent, via United States Postal Service, to the current OCAPA membership at least twenty-eight (28) days prior to the action in question.

## SECTION IX

### DUES

Dues shall be \$25.00 per year.

## SECTION X

### AMENDMENTS

These by-laws may be amended when approved by a two-thirds (2/3) majority of the members present at a regular meeting, provided members have been sent prior notice of said action.

## SECTION XI

### ADOPTION

These by-laws shall be adopted and become effective as the By-laws of OCAPA when they have received a two-thirds (2/3) acceptance of the members present at a regular duly constituted meeting, provided members have been sent prior notice of said action.

## SECTION XII

### FISCAL POLICIES

All expenditures must be approved in advance by a two-thirds (2/3) majority of the members present at a duly constituted meeting except as follows:

1. The Technical Committee Coordinator may incur expenses not to exceed \$100.00 per month for normal repeater repairs and maintenance. These expenditures shall be presented to the Executive Committee as soon as possible for review and determination as to their appropriateness.

2. The Executive Committee may authorize additional expenses not exceed \$250.00 per month for catastrophic repairs of OCAPA's repeaters. The Treasurer shall report these expenditures at the next duly constituted meeting.

3. A. The fiscal year of OCAPA shall begin on September 1 and end on August 31.

B. Membership due shall be \$25.00 and payable on an annual basis.

C. No financial indebtedness or obligations, except normal administrative operating expenditures or repeater system maintenance/repair costs as established in paragraphs 1 and 2 above, shall be incurred by OCAPA, its officers, the Executive Committee, or any member except by action of a two-thirds (2/3) majority of the members present shall concur at a regular duly constituted meeting.

The OCAPA Executive Committee would like to take this opportunity to thank the "C&E" for its generous allotment of space in this issue for this important matter.

All OCAPA members are encouraged to review the draft and proposed changes. Although no document can please everyone, hopefully this proposal will be a reasonable compromise to all concerned.

Central Oklahoma Radio Amateurs, inc.

MINUTES

22 FEB 94

The Meeting was Called to Order at 7:28 p. m. with President Rick N5WNR in the Chair and the following Directors and Guests representing 5 of the 11 Member Clubs present :

VHF - Charlie Greene WA5JGU

Bob Ashby W5HXL

OCAPA - John Brassfield N5SAM

Chuck White K5NK

John Guida NJ4V

SCARS - Donald Schader K15TP, Mike Brown WG5C & Louis Kennedy KD5ABI

MORI - Robert Moose N5QKI

Jim Buswell N5BEQ

EARS - Lee Vaughn KA5WIS

James Heathcock N5XCT

Pat Gray N5SGV

Vice-President - Kathy DeGraffenreid AA5RU

Treasurer - Tom Mangham K5LDI

C&E MNG'ED - Scott Walsh N5NYS

Visitors and Guests were Jerry Sproul KJ5KP, Bill DeMand K5SKA and D. C. ( Mac ) Macdonald K2GKK/5.

The Minutes of The January 1994 Meeting and The Treasurer's Report were accepted as distributed.

On Motion by Don K15TP and Second from John N5SAM it was agreed without opposition that the Treasurer pursue collecting the debt remaining from OPRA, the Oklahoma Packet Radio Association, after withdrawal from CORA.

REPORTS - C&E : Scott N5NYS reports hope the calendar will work and the

March C&E issue goes to the printer Thursday morning :

VEC : Chuck K5NK had 1 pass the code, other numbers are unknown.

OLD BUSINESS : Committees for HAM HOLIDAY #21 ( HH21 ), 29-31 July 1994 :

PUBLICITY - Scott N5NYS awaiting ARRL labels, needs letterhead ;

FACILITY - Kathy AA5RU presented a sample layout that conforms to this year's Fire-Marshall's space requirements for table areas ;

DEALER / AWARDS - John N5SAM needs suggestions, has sent 63 invitations ;

TALK-IN - Robert N5QKI will use 146.325/925 with 146.07/67 as backup ;

PROGRAMS - NO REPORT/ER(S), discussed a MORI Special-Event Station for its Silver Anniversary, Direction-finding for " prizes/awards ;" NOAA, ' arts & crafts, ' OKDXA, ORSI, ARES, RACES, MARS and AMSAT ;

BANQUET - NO REPORT/ER(S), assumed to be working ;

SECURITY - NO REPORT/ER(S), assumed to be under control ;

SCHOLARSHIP - Bill K5SKA requested clarification regarding Vo-Techs and needs copies of the mutual EARS / CORA application (s) forms ;

FLEA-MARKET - Donald K15TP planning control ;

BREAKFAST - Bob W5HXL will query QCWA and reply as soon as possible ;

REGISTRATION - NO REPORT/ER(S), Tom K5LDI requested last year's records which will be relayed from Steve KG5IP via Lee KA5WIS ;

BINGO - NO REPORT/ER(S).

NEW BUSINESS : The Motion by Scott N5NYS with Second from Robert N5QKI to pay \$40.00 to The Aeronautical Center Amateur Radio Club for labor in assembling the February C&E was defeated.

Attempts will continue to be made to deliver extra C&Es to The Comm Center and Scott N5NYS is trying to work out ad / sales details with RadioShack.

The next Meeting is scheduled for 22 MARCH 94 at the usual time and place.

This Meeting was adjourned at 8:43 p. m.

Secretary,  
N5BEQ, Jim.



VHF Club  
**NEWS**

**WSLOW**

*The Elmer Gookler Memorial  
Station*

### Minutes of February Meeting

Meeting was called to order at 11:59 a.m. by Secretary, Joe, K5JB, since both the President and Vice President were unable to attend. There were 17 folks present. Joe gave the Secretary's report (none) and Ellard, W5KE, gave his Treasurer's report.

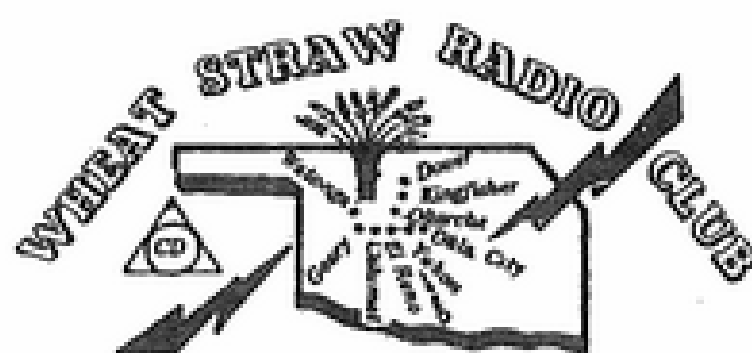
We were specially happy to see Ellard, W5KE, at the meeting and doing well. Ellard, we all wish you a rapid recovery from the aftereffects of your illness.

Bob, W5HXL, and Ray, W5TY, did their best to make up some good rumors about Fred, W5NL, who is off on some tramp steamer somewhere, but who hasn't told anybody what he is *really* doing.

Reminder: Don't forget the QCWA/VHF Club meeting on the air, 7:00 p.m. Thursdays, on the RACES repeater.

With all business, except dessert, taken care of, we adjourned at 12:04 p.m.

Joe, K5JB, Sec'y



### Minutes of February Meeting

The February 13 meeting was held in Canton OK. Ray, AB5Z, called the meeting to order on a beautiful day with 34 present. Other than the park ranger, everyone present either was a member, or became a member that day.

The meeting did not last too long. Johnny, K5GBN, gave a report on the repeater. It seems to be doing fine not that it has had some adjustments.

Our guest speaker, park ranger Tim Coffey, was born in Thomas OK. He grew up there and is familiar with the Canton area, which is only 30 miles from his home. Tim has been with the Corps of Engineers for several years and was recently promoted to Senior Ranger. As always when the Rangers are called on to present a program they provide something interesting. This time Tim brought a good wildlife movie. The film Tim showed described wildlife species that were once on the endangered list.

Most all of the wildlife species are on the increase because of good wildlife management and controlled hunting. Since the turn of the century there are 12 million more deer in the USA. There are now many more antelopes, turkeys, and ducks than one hundred years ago. As settlers moved west, they poached and unnecessarily killed deer, elk, and antelope -- some which were sold through eating establishments and restaurants.

The National Wildlife Federation is an independent organization, organized by sportsmen and sportsmen's clubs, and deserves your support. The first wildlife refuge was set aside by President Roosevelt in 1901.

Once regulated, hunting began to be enforced, and good management started, there began a great increase in our wildlife.

The film, produced by the National Federation Foundation, was about twenty minutes long.

At one point, the trumpeter swan was down to only 53 species. Now there are about 500 thousand.

When the show was over, someone moved that we adjourn for refreshments. The ladies had them spread out on the tables. Besides cookies, there were as many as eight sheet cakes, and ice cream. If you live anywhere near this area and not a member of the Wheatstraw radio club, you don't know what you are missing.

### Who is Betty Crocker

It seems all my life I thought of Betty Crocker as being a perfect cook and a real nice person. Cooks like mom also thought so.

Last week I got a shock. In 1921 the makers of Gold Medal flour in Minneapolis MN decided since they were receiving thousands of letters from customers asking questions about baking, requesting recipes, and wanting suggestions about how to solve their cooking problems, they should be answered.

The advertising manager decided to have a contest among the employees to come up with a name to answer the letters.

Betty was chosen. Crocker was chosen in honor of William G. Crocker, the founder of the Washburn Crosby Company, forerunner of Gold Medal.

Today, Gold Medal products still carry Betty's signature.

In 1936 a New York artist, Neysa McMein, was chosen to paint a portrait of Betty Crocker. He blended the features of the Company's Home Service Department into one person for the portrait.

Betty Crocker always has been a fictitious person, but to the public she became the perfect homemaker.

### A True Story

Back in the 1960s I was at The Williams Scout reservation, called back then, Camp Saline. There were over 160 boys in the camp. As you would expect, there was one smart, pesky one, named Dude, from another town. He was always picking on the smaller boys.

One morning, W.E. Poarch, a scout from Watonga said, "Hey Dude, I saw Betty this morning and she asked me to tell you hello." Posing smartly, Dude asked, "Betty who?" W.E. said, "Betty Crocker - She knows all the crumbs." By the end of our camp, Dude was a pretty good boy.



### FCC Mandates New Form 610

The following Public Notice was issued by the Federal Communications Commission on January 31, 1994.

FCC Form 610, Application for Amateur Operator/Primary Station License, has been revised. The new version dated November 1993, may be ordered from the FCC Forms Distribution Center at (202) 632-3676 after February 14. The new form reflects recent changes in the Amateur Rules.

Effective March 1, 1994, only the November 1993 edition of the FCC Form may be used to obtain an Amateur license. Earlier versions of the form received after March 1, 1994 will delay issuance of the license as the application will be returned without action and the applicant will be required to refile on the current form. For further information contact the Consumer Assistance Branch, Private Radio Bureau, Gettysburg PA 17325. Telephone number is (717)337-1212.

### From W5YI News

W5YI immediately called the FCC and talked to Gettysburg official Larry Weikent, who told him that the new form may be used by volunteer examiners starting February 15 since those applications won't arrive at the FCC until March 1. The form was changed so information can be entered into computers when the Commission converts to its new computer processing system for Amateur licenses on that March 1. Larry also said that during the transition he "would work with W5YI". Users may order the new forms now.

You can order the new 610 form from W5YI at a cost of \$.05 each, plus \$1.05 in quantities (ed: Whatever that means. Check with W5YI on correct pricing.)

### A Personal Opinion

I would like each licensed amateur to read all articles of the Cass County Amateur Radio Clubs petition submitted to the FCC for rulemaking. The principal

author is WA8HSU. I think so little of it I didn't want to retype it. It appears they wish to reorganize the Amateur Radio Service. Ralph, WA5PFK

### Pass the Dime Melvin!

by Kent Giles

The Saturday movie matinee was an earned reward for a kid in the post-depression era and there was always an exciting cowboy show at the local theater. Sometimes we got lucky when they included a cartoon and a cliff-hanging serial.

The day's excitement started early in anticipation of Mom's permission to "go to the show". My Brother and I walked a fine line until Mom forked over the usual six cents each! The show was a nickel, a sucker was one cent. Boy, who could ask for more?

On this particular Saturday our Aunt Thelma stopped by for a visit and brought cousin Melvin along. I smugly told him that Mom had given my brother and me six cents for the show and a sucker. With that Melvin talked his mother out of a whole dime!

Now I didn't have anything to do with the event that followed. Melvin just had to go into a little "rooster strut" and brag about the dime he got instead of the paltry six cents. He was dancing around with the dime in his mouth and accidentally swallowed it. Poor Melvin, the party was over.

When we spread the word to Aunt Thelma she was just a little bit upset, to say the least. She went to our bedroom and dragged the "Thunder Mug" out from under the bed, set it in the front room floor, and ordered Melvin to drop his overalls, long-john back flap, and sit there until his mother got a refund; like a "money back guarantee".

My brother and I had a great time at the show and Melvin was still sitting home patiently when we returned. I don't know to this day if Aunt Thelma gave up, or

Melvin coughed up that dime.

### Good to the Last Drop!

For ten years, Joel Cheek was busy developing a special coffee. He was a connoisseur who spent long hours day after day in research, testing, and tasting until perfection was reached.

He first served it to the public at the Maxwell House Hotel in Nashville. The coffee was named in honor of the hotel.

One tablespoon of Maxwell House coffee with six ounces of fresh, cold water was the recipe for a cup of the beverage.

In Nashville, President Theodore Roosevelt was served his first cup of Maxwell House coffee.

It was Theodore Roosevelt who, very pleased with the rich flavor, originated the slogan, "Good to the last drop!" He should have added, "and that drop is good too!"

### Mickey Mouse, 70th Birthday

Mickey Mouse's seventieth birthday marked the anniversary of one of the country's largest businesses. During the seventy years of his existence Mickey Mouse products have grossed almost \$140 million in the United States.

More than 100 companies are licensed to use the character. Mickey's articles range from a \$.05 balloon to a diamond bracelet valued at \$1,250.00.

Mickey's European successes have been equally marked. He grossed \$10 million annually in England and \$2 million each in Canada, Australia, France, Spain, Italy, and Scandinavian countries.

Americans may buy toys from Japan; but, the Japanese buy Mickey mouse.

I think I should find me a slick rat, and name him Willie.

### Carves Name on Dime

Back in 1888 a sixteen year old youth at Toledo Ohio carved his name on a dime

and put it into circulation. City Councilman, Silas A. Pittman of Shelbyville Indiana, the former Toledo cabinet trade apprentice, has just recovered that inscribed dime.

After 44 years (ed: article written in 1932?) the dime came over the counter of Pittman's store during the course of business. Pittman identified it at once, and it is now his most prized possession.

#### **Stolen Pigs Come Home**

Henry Griffin is grateful to a thief who stole four pigs from his farm. Today the pigs, no longer sucklings, were returned home, sleek and fat, ready for market.

Meanwhile, Virgil Springer is held in the county jail in default of a \$25 fine for the theft of Griffin's animals.

Springer was arrested after selling the pigs to another farmer.

#### **Did You Know?**

30,000 BC -- Cro-Magnon lunar calendar used for hunting  
12,600 BC - Lascaux caves painted  
3500 BC - Sumerians develop writing  
AD 105 - Ts'ai Lun invented paper  
AD 1440 - Johannes Gutenberg invented the printing press  
AD 1642 - Blaise Pascal invented adding machine  
1729 - Electric pulses first sent over wire  
1831 - Joseph Henry built first electromagnetic telegraph  
1834 - Charles Babbage designed "Analytical Engine"  
1838 - Samuel Morse developed his code  
1866 - Transatlantic telegraph cable laid  
1876 - Alexander Graham Bell patents first telephone  
1928 - First television programming  
1954 - First color television sets and packet radio hit the market  
1960 - Theodore H. Maiman operated first laser  
1967 - Computer beats human opponent at chess for first time  
1975 - First digital watch was sold  
1977 - Apple II, Commodore PET, and Tandy TRS-80 microcomputers introduced

1978 - The New York Times completes conversion to electronic production

1979 - Videocassette recorders became popular

1979 - CompuServe and The Source online services began

1981 - Commercial mouse debuts with Xerox Star office computer

1982 - The computer is named Time magazine's "Man of the Year"

1983 - First computer inter-city fiber-optic phone system.

1983 - First compact disc player sold

1984 - Apple Computer, Inc. introduces the Macintosh

1985 - Desktop publishing born

1988 - The Internet comprises 33,000 host computers

1993 - The Internet comprises 1.8 million host computers

I was going to sing happy birthday to you, but I am just a little HORSE.

The next Wheatstraw meeting will be at the Watonga State Bank, March 13, in the community room where we usually have it. If you come from the East, turn North at Noble. That is on the West side of the Phillips 66 station. If you come from the South, or West, go through the traffic light on highway 33, then turn left at same street. At one and one half blocks North, turn left into the alley. There is the parking lot and spaces on South side of the bank. Park and enter the South door. Everyone is welcome.

Ralph, WA5PFK

#### **Invitation to Cuba**

Special Bulletin 8 ARLX008 From ARRL Headquarters, Newington CT February 17, 1994, To all radio amateurs

The Cuban amateur radio community has invited American amateurs to participate in a joint operation with Cuban amateurs in the 1994 ARRL June VHF QSO Party.

ARRL Oklahoma Section Manager Joe Lynch, N6CL, was invited to lead the group, during a visit to Cuba the week of February 7. The operation would take place from Bellomonte. Officials of the

Federacion Radioaficionados de Cuba (FRC) said they also have taken under consideration a proposal from an American group for a joint operation from Cuba on the HF bands in 1995.

Lynch, in Cuba for a week as a member of a Methodist Church work team, extended greetings from ARRL officials, presented FRC president Ing. Pedro Rodriguez, CO2RP, with a Certificate of Participation for the June 1993 ARRL VHF QSO Party, and also presented an Author's Certificate to Arne Coro, CO2KK, for his article in December 1993 QST.

Lynch's informal meetings with FRC officials were publicized on radio, television, and in the print media.

Joe Lynch is VHF Editor of CQ Magazine and also is Editor of the QCWA Journal.

#### **Radio Show Offered**

Special Bulletin 9 ARLX009 From ARRL Headquarters, Newington CT February 22, 1994, To all radio amateurs

"This Week in Amateur Radio," an amateur radio audio bulletin service, celebrates its first anniversary on March 5.

The show, offering news stories of interest to amateurs, lasts 60 to 90 minutes. It is carried on the Omega Radio Network on Saturdays, at 7:30 pm EST.

The program also is available on satellite Galaxy III, transponder 17 (9H), 5.8 MHz wideband audio (4.040 GHz).

Weekly program summaries are circulated on amateur packet bulletin boards, FIDONET, GENIE, USENET, and the INTERNET. The program is produced by Stephan Anderman, WA3RKB, and George Bowen, N2LQS.

For more information, contact Anderman at PO Box 8592, Albany NY 12208, or via amateur packet at WA2UMX.ENY.NY.USA.NA.

CENTRAL OKLAHOMA RADIO AMATEURS, INC./ EARS, BERTHA WATSON SCHOLARSHIP

ADDRESS \_\_\_\_\_ CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

DATE \_\_\_\_\_

OKLAHOMA REPEATER SOCIETY, INC.  
PROPOSED POLICY IMPLEMENTATION  
SHARED NON-PROTECTED REPEATER FREQUENCIES  
FEBRUARY 20, 1994

The Oklahoma Repeater Society, Inc. (ORSI) recognizes the need for repeater frequencies, especially in the 2 meter band. Whereas all available 2 meter repeater frequencies in the larger metro areas are being used, ORSI proposes to set aside 145.250 Mhz, 146.70 Mhz and ~~147.00 Mhz~~ as " Shared Non Protected Pairs". Repeaters on these frequencies will be strictly regulated to afford maximum usability by restricting HAAT, ERP and that CTCSS tones must be used on the input and output of these repeaters. These repeaters would be coordinated under the guidelines listed below and not the current coordination limits. Any complaints of interference will not be considered valid unless the interference comes from a "non-coordinated" system. Each user will accept that these are closely spaced, non protected frequencies. Below is the proposed policy governing these repeaters.

1. Repeaters currently coordinated on 145.250 and 146.70 will be protected by the Guidelines of Mid America Coordination Council (MACC) and ORSI.
2. Since these are "Shared Non Protected Pairs", wide coverage repeaters will not be allowed. NO SYSTEM MAY OPERATE AT A HAAT GREATER THAN 100 FEET.
3. For the same reason, NO SYSTEM MAY USE MORE THAN 75 WATTS ERP.
4. Because this frequency is "Shared", each system must be equipped with CTCSS encode and decode. The CTCSS tone used will be coordinated. THE SYSTEM MAY AT NO TIME OPERATE IN A CARRIER SQUELCH MODE.
5. Distances between repeaters on the same frequency and the same CTCSS tone will be a minimum of 50 miles. Adjacent channel limits will be as follows: 15 Khz - 15 miles, 20 Khz - 5 miles, 30 and 45 Khz - No minimums.
6. All systems on these frequencies must be coordinated by the Oklahoma Repeater Society, Inc., and must abide by the rules governing all coordinated systems.

7. Coordination on these frequencies will not be issued to clubs/repeater groups. ONLY INDIVIDUALS MAY APPLY FOR COORDINATION. This is to prevent excess traffic on these frequencies.
8. Persons already having a repeater coordinated in a given area will not be afforded coordination on these frequencies. This will allow maximum utilization by persons not able to obtain repeater frequencies.
9. The number of repeaters to be coordinated on these frequencies shall only be limited to the number of PL tones available, subject to the co-channel guidelines established above.
10. These repeaters will NOT be made available to the ARRL Repeater Directory for publication.

# C AND E

# WORD LIST: C AND E

A E R E C N A D E P M I P D M T F  
 L R O Q N O I S S I M S N A R T R  
 C E T H A V M O D U L A T I O N E  
 I H A T Y U O M C B M S I T L I Q  
 T P U G U N P W U A D S Q F W H U  
 N S N N X N T K T N I M C Q X G E  
 O O E E R U U E B D I I N D E A N  
 I N T L S D U G A P C C H R L I C  
 T O T E C R D N C A D R A E P V Y  
 A I A V R Y T X K S Z O R T M U K  
 G Y Z A S E C G S S S P M A I W W  
 A S D W N G Y R C F R H O E S O F  
 P I V N D S M F A I O O N P Z K N  
 O Q A C B I T M T L C N I E T U L  
 R S J E G B R B T T O E C R O Q L  
 P E D Q V G N S E E Z S S U D J V  
 S I D E B A N D R R E T E M R W S

AMATEUR RADIO  
 ANTENNAS  
 ATTENUATOR  
 BACKSCATTER  
 BANDPASS FILTER  
 COMMUNICATION  
 FREQUENCY  
 HARMONICS  
 IMPEDANCE  
 IONOSPHERE  
 MICROPHONES  
 MODULATION  
 PROPAGATION  
 REPEATER  
 SIDEBAND  
 SIMPLEX  
 SOLAR CYCLES  
 SWR METER  
 TRANSMISSION  
 WAVELENGTH

<b>1. Aeronautical Center ARC</b> Meets: First Thursday, Flight Standards Building, FAA, South MacArthur, 7:00 P.M. Pres: Sec/Tr: Brad Nelson, KJ0W AsVP: Harold Todd, WA5VAQ 685-3685 AsVP: Charlie Greene, WA5JGU 943-5631 Editor:	<b>6. Altus Association</b> Meets: 7:30 P.M. Second Thursday North Main Fire Station (CD), Altus Pres: Jim Romines, K15YY VP: None Sec/Tr: Bob Heron, KB4BN Editor: Jim Romines, K15YY	<b>14. Cimmaron ARS</b> Meets: 7:30 P.M. second Thurs. WX5Y Playhouse 827 S 13, Fairview Area code 405: Pres: Terry McCall, N5MLT 227-3672 VP: John Medley, N5WVU 227-3534 Sec: Dennis Painton, WK5V 764-3599 Treas: Nadine Painton, N5FMH 764-3599 Editor: John Medley, N5WVU 227-3534
<b>2. Oklahoma Central VHF ARC</b> Meets: 11:00 A.M. 3rd Sat., Golden Skillet 3401 N. Classen Blvd, OKC Pres: J Frank Fields, KB0QJ 789-8469 VP: Bill Noland, WA5FWD 354-5018 Sec: Joe Buswell, K5JB 732-0676 Treas: Ellard Foster, W5KE 789-6702 Editor: Joe Buswell, K5JB 732-0676	<b>9. Wheatstraw ARC</b> Meets: 2:30 P.M. 2nd Sunday, Location Varies. See club section for details. Pres: Joe Hyatt, WA5GHK, Kingfisher 375-3783 VP: Leo Peil, WZ5H, Canton 886-2998 Sec/Tr: Joe Garland, WA5FLT, Caltumet 893-2660 Editor: Ralph Wilder, WA5PFK, Watonga 623-5421	<b>15. South Canadian ARS</b> Meets: 9:30 A.M. Second Saturday, Red Cross Bldg. North OU Campus, Norman Pres: Don Schader, K15TP 321-9649 VP: Mike Winkel, N5SOF 366-8639 Treas: David Gates, N5LCL 392-5677 Sec: Gary Skaggs, WB5ULK 799-5363 Editor: Gary, WB5ULK & Ken Brown, N5KUK
<b>3. Mid-Oklahoma Repeater, Inc.</b> Meets: 1st Tuesday, 7:00 P.M., Favorite's Cafe 36th & S. Western, OKC Pres: Scott Walsh, N5NYS 787-3804 VP: Larry Benedict, N5VYC 728-7824 Sec: Earl Draper, KJ5HN Treas: Robert Moore, N5QKI 720-0073 Editor: Dean Ward, N0PAD 681-4606	<b>11. Edmond AR Society</b> Meets: Odd months, 3rd Sun., 2:00 P.M. Edmond EOC; Dinner Even Months, 3rd Friday Pres: Lee Vaughn, KA5WIS VP: John Thomason Sec: Kay Sage Treas: Penny Stepp 341-4874 Editor:	<b>16. Edmond AR Club</b> Meets: 7:00 P.M. Second Monday, Various Locations Pres: Mark Northcutt, WD5DYI 755-4672 VP: Wendell Cochran, WB5ISO 943-4308 Sec/Tr: Kay Northcutt, WD5DYI 755-4672 Trustee: Dennis Orcutt, WB5ISN 340-0034
<b>4. OK City Autopatch</b> Meets: 7:30 P.M. Third Tuesday, Salvation Army N.W. 50th & Penn. PR: Brad Nelson, KJ0W 793-9470 VP: Tom Webb, WA9AFM 737-6716 Sec: John Brassfield, N5SAM 685-8070 Treas: Mike Begley, N5VIT 732-2827 Editor: Tom Webb, WA9AFM 737-6716		<b>18. Great Plains ARC</b> Meets: 2:15 P.M. First Sunday, Home of N5LRR 2914 Osage Dr, Woodward Pres: Bob Bayles, WB0GAX, Wdwd 254-3561 VP: Andy Taylor, N5LRR, Wdwd 256-4017 Sec/Tr: Rod Ford, WB5OVT, Gage 923-7683 TR: Freida Patterson, N5BOX, Wdwd 256-2111 Editor: Phillip Perry, N5QCN 938-2453
<b>Central Olds Radio Amateurs:</b> Meets: 7:30 P.M. 4th Tuesday, Salvation Army, Penn. and NW Highway, OKC (back door) Pres: Rick Masters, N5WNR; VP: Kathy DeGraffenreid, AA5RU; Sec: Jim Buswell, N5BEQ; Treas: Tom Mangham, K5LDI, 677-5291; Editor: Scott Walsh, N5NYS, 787-3804 Note that the original four clubs that formed CORA were Aeronautical Center ARC, VHF Club, MORI and OKC Autopatch.		

## February 27 - April 09, 1994

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Feb 27	Feb 28	Mar 1	Mar 2	Mar 3	Mar 4	Mar 5
	7:00 PM Scars Ham Class	7:00 PM MORI		7:00 PM Aeronautical Center		Enid Hamfest
Mar 6	Mar 7	Mar 8	Mar 9	Mar 10	Mar 11	Mar 12
2:00 PM MORI VE Test 2:15 PM Great Plains	7:00 PM Scars Ham Class			7:30 PM Altus Cimmaron		9:30 AM SCARS VE TEST
Mar 13	Mar 14	Mar 15	Mar 16	Mar 17	Mar 18	Mar 19
	7:15 PM EARC	7:30 PM OCAPA		St. Patrick's		9:00 AM VE Test 11:00 AM VHF Club Midland Hamfest
Mar 20	Mar 21	Mar 22	Mar 23	Mar 24	Mar 25	Mar 26
2:00 PM EARS Spring begins	6:00 PM VE TEST	7:30 PM CORA	C&E DEADLINE			
Mar 27	Mar 28	Mar 29	Mar 30	Mar 31	Apr 1	Apr 2
Palm Sunday					April Fools Day Good Friday Nite Owl Net returns to 146.67-	
Apr 3	Apr 4	Apr 5	Apr 6	Apr 7	Apr 8	Apr 9
2:15 PM Great Plains Daylight Savings—not ahead 1 hour Easter		7:00 PM MORI		7:00 PM Aeronautical Center		9:30 AM SCARS VE TEST