

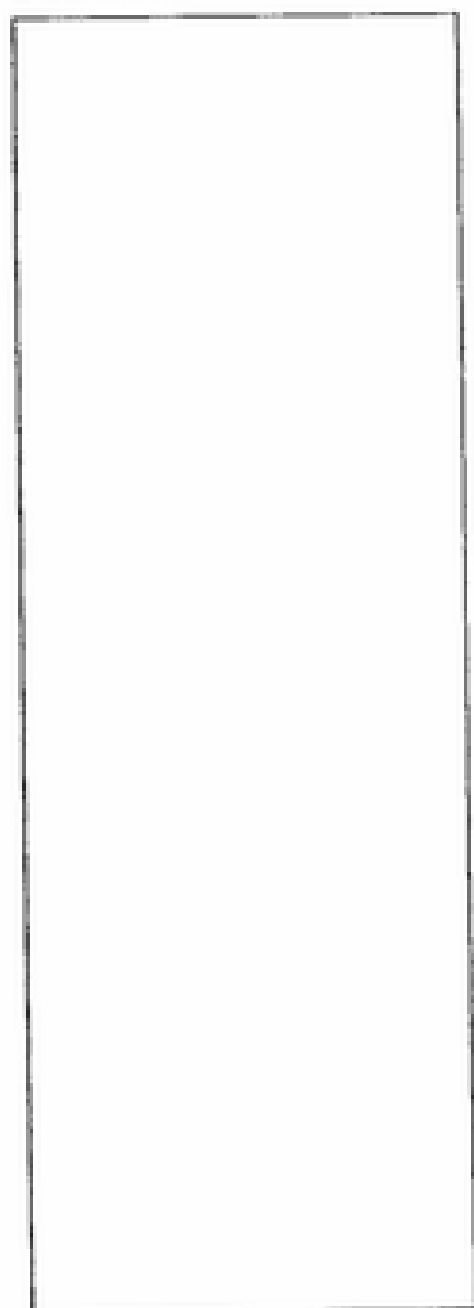


CORA
Collector & Emitter

November 1994
Volume 20, Number 11
Issue 237
50¢

Second Class Mail

Postmaster See Page 2
For Postal Information



The Amateur's Code, Do you Know It

W5PAA to Operate Special Event Station

Christmas Party Listing



Fall, The Prelude to the Holidays

A Leatherneck Says, Happy 219th USMC,

CORA *Collector & Emitter*

Harold C. Miller, KB1ZQ/5
Editor

Central Oklahoma Radio Amateurs, Inc.

President: Chuck Wilhite, K5NK
Vice President: John Guida, NJ1V
Secretary: John Brassfield, N5SAM
Treasurer: Tom Mangham, K5LDI

Dear Subscriber:

PLEASE help us keep your information up to date. What time, where, when, who are your officers, editors, and their phone numbers. Check your entry, it can be changed. If there appears to be a mistake, check with your club officials. We can't do a thing about it if you don't. Below is a sample label:

4	94/07	2
DOE, JOHN E.	KA5ABC	
1234 SW 56th STREET		
RADIOVILLE, OK	74321	

The "4" means Autopatch Club, "94/07" means the year/month dues expire. The "2" is for postal rates.

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 funds and the date the subscription expires. Have your slips, or list of deletions submitted by the 22nd of each month. If there is anything about C&E subscriptions you need to know, please contact us.

November 1994

VOL. 20, No 11, Issue 237

CORA Collector and Emitter **(USPS 116-150)**

is published monthly by CORA, Inc.
3913 S. Mable St. Oklahoma City, OK
73143-6819. Second Class postage paid
at Oklahoma City, OK.

Subscription rates:

CORA Member \$4.80 per year

Paid subscription \$7.00 per year

Postmaster:

Send address changes to;

CORA Collector and Emitter

P. O. Box 95942

Oklahoma City, OK 73143-5942

1. Aeronautical Center ARC Meets: 1930L, 1st Thursday, FAA, S. MacArthur, OKC Pres: Dick Russell, KJ5VV 733-2141 Sec/Tr: Brad Nelson, KJ0W 793-9470 VP: Chuck Bryant, KB5ZVZ 737-0423 Editor:	11. Edmond Amateur Radio Society Meets: Odd Months, 1400L, 3rd Sunday, Edmond EOC, Even Months, Dinner, 3rd Friday Pres: Lee Vaughn, KA5WIS 348-2961 VP: John Thomason, WB5SYT 340-1798 Sec: Kay Sage, KB5LDO 341-8971 Treas: Sue Snyder, N5VWI 341-8753 Editor: John Thomason, WB5SYT 340-1798
2. Oklahoma Central VHF ARC Meets: 1100L, 3rd Saturday, Neighbor's Resturant 3401 N. Classen Blvd, OKC Pres: J. Frank Feilds, 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	14. Cimmaron Amateur Radio Society Meets: 1930L, 1st Thursday, WX5Y Playhouse 827 S. 13th, Fairview Pres: John Medley, N5WVU VP: Kenneth Monahan, KB5SOM Sec: Dennis Painton, WK5V 764-3599 Treas: Nadine Painton, N5FMH 764-3599 Editor: Kenneth Monahan, KB5SOM
3. Mid-Oklahoma Repeater, Inc. Meets: 1900L, 1st Tuesday, Favorite's Cafe, 36th and S. Western, OKC Pres: Scott Walsh, N5NYS 787-3804 VP: Rick Masters, N5WNR Sec: Jim Buawell, N5BEQ Treas: Craig Cornwall, N5VIS Editor: Dean Ward, N0PAD 681-4606	15. South Canadian ARS Meets: 0930L, 2nd Saturday, Red Cross Bldg North OU Campus, Norman Pres: Don, KJ5KB 321-1673 VP: Mike Winkel, N5SOF 366-8639 Sec: Keith, KB5FCI 329-2213 Treas: Bill, N5UMH
4. Oklahoma City Autopatch Assn. Meets: 1930L, 3rd Tuesday, Salvation Army Bldg N.W. 50th and Penn, OKC (Back Door) Pres: Brad Nelson, KJ0W 793-9470 VP: Mike Fields, KB5WIC 720-9123 Sec: Perry Jenkins, KB5TOT 354-5075 Treas: Cheryl Brassfield, KB5WQR 685-8070 Editor: Mike Fields, KB5WIC 720-9123	16. Edmond Amateur Radio Club Meets: 1900L, 2nd Monday, Various Locations Pres: Mark Northcutt, WD5DYI 755-4672 VP: Wendell Cochran, WB5ISO 396-8224 Sec/Tr: Kay Northcutt, WD5DYJ 755-4672 Trustee: Dennis Orcutt, WB5ISN 340-0034
6. Altus Association Meets: 2nd Thursday, Check Daily Net on 146.79 / 146.82 for current location. Pres: George Mayetko, AA1IJ 266-3357 VP: None Sec/Tr: Mike Brown, KC5AWB 481-6665 Editor: Mike Brown, KC5AWB 481-5928 Hosp: Vallie McClain, KC5AHX 477-3357	18. Great Plains Amateur Radio Club Meets: 1415L, 1st Sunday, Home of N5LRR 2914 Osage Dr, Woodward Pres: Bob Bayles, WB5GAX 254-3561 VP: Andy Taylor, N5LRR 256-4017 Sec/Tr: Rod Ford, WB5OVT 923-7683 Editor: Freida Patterson, N5EQX 256-2111
9. Wheatstraw Amateur Radio Club Meets: 1430L, 2nd Sunday, Location Varies Pres: Joe Hyatt, WA5GHK 375-3783 VP: Leo Peil, WZ5H 886-2998 Sec/Tr: Joe Garland, WA5FLT 893-2660 Editor: Ralph Wilder, WA5PFK 623-5421	Central Oklahoma Radio Amateurs Meets: 1930L, 4th Tuesday, Salvation Army Bldg N.W. 50th and Penn, OKC (BackDoor) Pres: Chuck Wilhite, K5NK 721-4926 VP: John Guida, NJ1V 340-6518 Sec: John Brassfield, N5SAM 685-8070 Treas: Tom Mangham, K5LDI 677-5291 Editor: Harold Miller, KB1ZQ 672-7735

CONTENTS

On The Cover...Fall, the Prelude to the Holidays

C. O. R. A. Meeting Minutes and other News	3
The Amateur's Code.....	4
M. O. R. I. News.....	5
A.R.R.L. Bulletins.....	5
S. C. A. R. S. News.....	6
Ten Commandments of Electronics.....	7
Aeronautical Center ARC News and History.....	8
On The Air - Nets / Chit Chat -Fun Chewies	9
Altus Area News.....	10
HamHappenings - Announcements, VE Testing, Hamfests, Special Meetings.....	11
E. A. R. S. News.....	12
Wheatstraw Minutes and News.....	14
VHF Club Minutes and News.....	14
O. C. A. P. A. Minutes.....	16
Technical Corner.....	17
Proper Care of Floppies?.....	19

C.O.R.A. NEWS

Minutes of the 27 September 1994 meeting

The meeting was Called to Order as 7:37 p.m. with President Rick, N5WNR in the chair and the following Directors and Guests representing 6 of the 11 member clubs present:

ACARC - Chreyl Brassfield, KB5WQR

John Brassfield, N5SAM

Dick Russell, KJ5VV

MORI - John Guida, NJ1V

Bill Edwards, NW5M

Elizabeth Edwards, KC5GLP

VHF - Ellard W. Foster, W5KE

EARS - Jim Richardson, N5OHL

OCAPA - Mike Fields, KB5WIC

Tom Webb, WA9AFM

Chuck Wilhite, K5NK

SCARS - Donald Schader, KI5TP

Mike Winkel, N5SOF

Louis Kennedy, KC5ABI

C&E Editor - Hal Miller, KB1ZQ

Treasurer - Tom Mangham, K5LDI

Secretary - Jim Buswell, N5BEQ

Visiting were Jerry Sproul, KJ5KP, Jeffery A. Dye, WD0GTY, and Linda Miller, N1LPN.

The minutes of the August meeting and the treasurer's report were accepted as distributed.

REPORTS - *C&E*: Hal, KB1ZQ reports the current issue quantity at 686 copies and warned the board he would not publish a wide coverage issue for the convention as in the past due to the cost of returns.

VEC: Everybody passed the **CORA** VE tests, one failed the **MORI** session.

OLD BUSINESS:

Tom, WA9AFM gave the Facility - Search committee's report for a site for Ham Holiday #22 (HH22), 28 - 30 July 1995: the choice is between the Clarion Convention Center and the fairgrounds.

Collector and Emitter, November 1994

On a motion from John, N5SAM with second from Louis, KC5ABI it was agreed without opposition to authorize the existing Facility - Search Committee of Chuck, K5NK; John, N5SAM; and Tom, WA9AFM, who each agreed to continue to serve, to attempt hard negotiations with the State Fair Board for a better deal for HH22.

NEW BUSINESS:

Elections:

Elected to take office 1 October 1994 were:

Secretary: John Brassfield, N5SAM

Treasurer: Tom Mangham, K5LDI

Vice-President: John Guida, NJ1V

President: Chuck Wilhite, K5NK

The next meeting is scheduled for 25 October 1994 at the same time and place.

The meeting was adjourned at 8:21 p.m.

Jim, N5BEQ
Secretary

Minutes of the October 25, 1994 meeting.

The meeting was called to order at 7:35 by Chuck, K5NK. The club representatives and guest present were:

MORI - Jim Buswell, N5BEQ

Bill Edwards, NW5M

Elizabeth Edwards, KC5GLP

OCAPA - Tom Killian, N5TCG

Tom Webb, WA9AFM

Linda Miller, N1LPN

SCARS - Louis Kennedy, KC5ABI

Don Schader, KI5TP

Mike Winkel, N5SOF

CORA - Pres Chuck Wilhite, K5NK

VP John Guida, NJ1V

Sec John Brassfield, N5SAM

Tres Tom Mangham, K5LDI

C&E Editor - Hal Miller, KB1ZQ

VISITOR-Garland Jennings, NQ5Y

The former secretary's minutes were accepted with corrections noted and the treasurer's report were accepted as submitted.

C&E - Hal, KB1ZQ recommended that the printer collate and fold the *C&E* in the

future. The cost will run 1.1 cents per sheet, but it was easier than trying to get volunteers. **MOTION** by KC5ABI to have **CYNOAK** fold and staple the *C&E*. Seconded and approved. Also, Hal wants club logo's, either camera ready or in .pcx files. Articles or graphics can be sent to Hal via packet to K2GKK-4 or K5JB or mailed to Hal Miller, *C&E* Editor, 4216 Spiva Drive, Del City, OK 73115. Hal warned, "If you send a disk, also send a printed copy" as several disks have been erased by postal equipment.

Ham Holiday 22 - Building layout maps were distributed for everyone to take back to their club, so ideas can be generated about usage of the Hobbies Arts and Crafts building can be used for more than prize drawing area. Discussion of a Friday evening / Saturday HH-22 as alternative to the Sat / Sun. Many of the dealers liked the idea as Sunday is a slow day for them.

HH22 Committees:

Dealers-Chuck K5NK, John NJ1V and John N5SAM

Publicity-Tom WA9AFM

Flea Market-former chair wants new volunteer

Programs-needs chairman

Non Ham programs-needs chairman

Banquet-needs chairman

and other committees.

Discussion of advertising HH22 in the Texas Towers Catalog at a rate of \$200 per page. **MOTION** by N5BEQ to advertise in the Texas Tower Catalog. Seconded and accepted.

The recommendation to accept advertisement in the *C&E* at rates of \$50 for full page, \$30 for half page, \$20 for one forth, and \$10 for business card size.

Other discussion about dealer area definitions and scholarship selection.

With all business completed a Motion was made to adjourn by NJ1V at 8:55 pm. Seconded and passed.

John, N5SAM
Secretary

NEWS FROM KB5YGO

It is always nice to hear from our scholarship recipients and Kurt has taken the time to keep in touch as well as keeping us informed on what college life is like as seen through a freshman eyes.

Thursday, October 27, 1994

Hello again,

Thanks for publishing my last letter. Well, everything is set back up to operate packet; however, the radio has a tendency to drift from time to time. Unfortunately, the ethernet is linked to Engineering South (the home of the O.S.U. amateur association). One thing you may soon hear about is an increase in computer fees for engineering, architecture, and technology students. The student government (namely the C.E.A.T. representatives, like myself) have been debating it and I think it is going to go ahead to the state regents. Also, the the state legislature is looking at it as a a tuition increase and they'll have to go over it. Anyway, it'll probably sound bad in the newspapers, but it's a necessary fee.

On a happier note, this semester is two thirds over with. It seems as if time has a way of getting away as I grow older. If it stays this way, by the time I'm thirty, I won't have time enough to wake up. I guess I'll just have to stay in bed (ha ha). Well, if anyone ever needs anything and think that I can help by getting information while at O.S.U., just let me know. Especially if some aspiring youth needs to be talked out of going to O.U. !

Thanks again,

Kurt R. Duggins, KB5YGO
3305 S. Boomer, #12
Stillwater, OK 74074

**Send in the Slip above
ASAP to help us
conform to Postal Regs.
Thanks *The Editor***

Collector and Emitter, November 1994

PLEASE PRINT

I _____ Call _____
NAME

Address	Apt
---------	-----

City	State	Zip
------	-------	-----

Telephone Do hereby transmit my dues of

$$\text{\$ } \frac{\text{YEARLY AMOUNT}}{\text{NUMBER OF YEARS}} \times \text{Total Paid}$$

In the (Club Name) _____

Month and Year ending: _____ / _____ Date Paid _____ / _____
YEAR / MONTH YEAR / MONTH

\$4.80 OF YEARLY AMOUNT IS FOR A SUBSCRIPTION TO CORA's COLLECTOR AND EMITTER

Member's Signature _____
 NEW RENEW FAMILY DROP CHANGE-OLD ZIP _____

THE AMATEUR'S CODE

THE RADIO AMATEUR IS :

CONSIDERATE... never knowingly operates in such a way as to lessen the pleasure of others.

LOYAL... offers loyalty, encouragement and support to other amateurs, local clubs, and the American Radio Relay League, through which Amateur Radio in the United States is represented nationally and internationally.

PROGRESSIVE... with knowledge abreast of science, a well-built and efficient station and operation above reproach.

FRIENDLY... slow and patient operating when requested; friendly advice and counsel to the beginner; kindly assistance, cooperation and consideration for the interests of others. these are the hallmarks of the Amateur spirit.

BALANCED... radio is an avocation, never interfering with duties owed to family, job, school, or community.

PATRIOTIC... station and skill always ready for service to country and community.

The original Amateur's Code was written by W9EEA, in 1928

This shure makes all the code, nocode arguing pointless huh! and seems to me that maybe all might need to take a closer look at the words and try to make the hobby fun again...73 de..AB5OF. 14-Nov-94..01:36 UTC

>>>>> GOD bless <<<<<



Mid - Oklahoma Repeater Inc.

Minutes of the 1 November 1994 meeting.

The meeting was called to order at 7:19 p.m. with President Scott, N5NYS in the chair and 37 members present (representing 16% of the club membership). Visitors and guests were Jim L. Jones, K5PER, Joshua Snider, Tom Mangham, K5LDI and David Wolf, KC5KJE.

Following introductions a raffle of a Ham Holiday T-shirt for the "Joe Harding Memorial Scholarship" fund was held by Jim, N5BEQ, and won by Forrest, N5VWF.

The minutes of the October meeting and the treasurer's report were accepted as distributed.

Reports:

CORA - Ham Holiday #22 July 1995: the representatives circulated copies of the floor plan of the Hobbies, Arts, and Crafts building at the state fairgrounds with requests for suggestions from all members for more efficient use of the available space.

D - F - Earl, AB5TF reports the next hunt is scheduled for the north side and was asked by the Oklahoma Nite Owl Net manager, Garland, NQ5Y to assist the net in hunting down recent "jammers".

Programs - Mike, KI5DF circulated interest forms requesting that members respond in areas to volunteer and provide suggestions for future meeting programs of interest.

Technical Committee - Martin, KN6UG reported the agreement with the Red Cross for telephone hard wire at our tower site(s) and that our coordinated 220mHz repeater will be operational soon.

VEC - Jim, N5BEQ reported for the soon - to - be hospitalized VEC that the next session is scheduled for next Sunday, 6 November at 2:00 p.m. at the KOMA-KRXO radio studios in Moore, OK.

Collector and Emitter, November 1994

(Craig, N5VIS will send flowers on behalf of the club membership).

Old Business:

On a motion from Martin, KN6UG with a second by Craig, N5VIS it was agreed to lay the matter of a club newsletter on the table.

On a motion from Earl, AB5TF with second by Martin, KN6UG it was agreed without opposition to accept the appointment of Mike Cox, KI5DF to the executive committee.

In the matter of a "Christmas Dinner", Marvin, WB5DXZ agreed to serve as the event chairman for which Jerry, N5KNU agreed to assist. On a motion from Marvin, WB5DXZ with second by Mike, KI5DF it was decided to schedule the dinner on Tuesday evening, 6 December, with the site to be announced on the repeaters and nets.

On motion from Clyde, N5PHW with second from Eric, KC5JMA it was agreed to a budget of club funds for the meat entrees with the rest to be "pot luck" covered dishes to be brought by the attendees.

(The dollar amount for the budget was left out by the editor.)

The Editor

Jerry, N5KNU volunteered to research and report on applying club logos to the likes of hats, shirts, jackets, vests and/or T-shirts.

There being no New Business, the meeting was adjourned at 8:30 p.m.

The next meeting is scheduled for 6 December, time and place to be announced.

Jim, N5BEQ
Secretary



A. R. R. L. Bulletins

From ARRL Headquarters
Newington CT

ARRL Bulletin 90

FCC sets 2400-MHz date

The FCC has set December 19, 1994, as the comment date for a Notice of Proposed Rule Making to convert a block of spectrum from federal government to commercial use, including two UHF bands shared by Amateur Radio on a secondary basis with the government.

The full text of the NPRM, released by the FCC on November 9, is available from ARRL Headquarters on the HQ BBS, at 203-666-0578, and also from the ARRL Internet Infoser, infoarrrl.org (see October 1994 QST, page 43). The file name is FCC94272.txt.

The proposal would allocate 2390 to 2400, 2402 to 2417 (both shared by amateurs), and 4660 to 4685 MHz to the Fixed and Mobile Services. The FCC is required by the Omnibus Budget Reconciliation Act of 1993 to adopt rules for such a reallocation by February 10, 1995.

The FCC said it received a number of responses to its Notice of Inquiry on the proposed reallocations, including formal comments from "the amateur community" (primarily the ARRL). The reply comment date on the NPRM is January 3, 1995.

More information was in October QST, page 83, and in December QST, page 87.

ARRL Bulletin 91

K4TPJ Elected To U.S. House

David Funderburk, K4TPJ, has been elected to the U.S. House of Representatives. Funderburk, a Republican, was picked for North

S. C. A. R. S. NEWS

South Canadian Amateur Radio Society

Minutes from the October meeting:

Monthly for S.C.A.R.S.

The monthly meeting of SCARS was held on October 8th at the Red Cross building in Norman with about 30 club members present. Don, KJ5KB, started the meeting by saying, "We are 5 minutes earlier on our 30 minutes being late." Don asked everyone to give their name and callsign and everyone else knows the rest of the story.

Treasury Report -

Bill, N5UMH, gave the treasury's report and reminded everyone that the 1995 dues are due in December and asks everyone to pay on time.

Repeater Report -

Ken, N5BEW, reports that everything is working fine and said he had to PL the intown receiver because of some interference on the intown receiver.

S.A.R.A Report -

Dennis, KC5EVH, gave a report on Skywarn Amateur Radio Association (S.A.R.A.) and asked for volunteers to man the radios at the weather station. I might add that anyone from other clubs are asked to join this operation. Here is a brief description of what SARA does.

The Skywarn Amateur Radio Association links radio weather nets to the National Weather Services in Norman. Amateur operators work directly with meteorologists at the forecast office in Norman during severe weather events, receiving reports from weather net liaison operators and providing updated warning and radar information through the 147.05 repeater in Cyril and the 145.210 MORI repeater in Oklahoma City. The 147.05 repeater links to other repeaters in Southwest Oklahoma and western sections of North Texas. By spring, we hope to have links from 145.210 through the

Collector and Emitter, November 1994

147.150 Arbuckle Mountain repeater to the south, and from 145.210 through a UHF repeater in Perry to the north. Amateurs interested in participating in or learning more about the Skywarn Amateur Radio Association should contact Dennis, KC5EVH, through the SCARS repeater, 147.060 in Norman.

Red Cross disaster needs volunteers -

Don, KJ5KB, attended a Red Cross disaster team meeting and reports that the Red Cross would like to have amateur radio volunteers to man the radios in case of a disaster. A lot of the other volunteers don't like to talk on the radio.

CORA Report -

Don, KI5TP, gave a report on CORA and the results of the election that was held. KI5TP, N5SOF and KC5ABI attended the meeting.

Christmas Dinner? -

I know it's a little early to be talking about a Christmas dinner for the members of SCARS, but time will be getting away from us and at the November meeting I guess the club should discuss if we want one and where we should meet or what?

-30-

Keith, KC5FCI

November Meeting SCARS -- Norman, OK

Don, KJ5KB called the monthly meeting for SCARS to order on time. Exactly at 9:30 a.m., November 12th at the Red Cross in Norman. Everyone was asked to introduce themselves and if they had wants or sells. Some are still trying to peddle the same ole stuff!

Treasury Report -

Since Bill, N5UMH, had to be out of town for some reason or the other, Sarah, KC5ABA, gave the treasury report. SCARS members don't forget that dues are due in December. Any questions, see Bill, N5UMH.

Skywarn -

Dennis, KC5GVH, gave a report on Skywarn and still extends and invitation

for any ham to come and participate in the meetings and be ready when spring storms roll around.

Christmas Party -

By the time we read the *C&E*, SCARS members will have attended the Christmas Party. I will report on all activities that took place.

Work Party -

SCARS held a work and fun party in October. It seems that everyone that came out had a good time and it was decided that members would have another party that was held on the 20th of November. From what I hear, they can play radio and Don, KJ5KB, hopes to have the packet station up and running and will give some members that don't have packet a chance to come out and work some packet stations.

CORA Report -

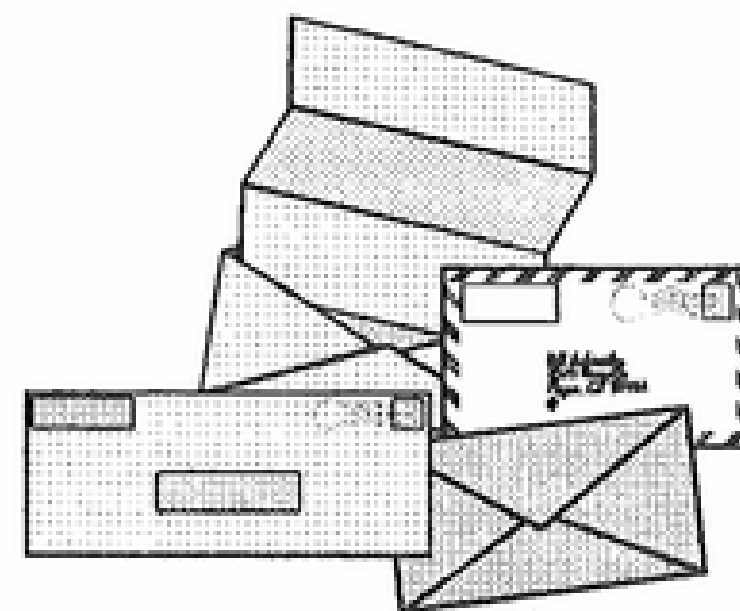
Don, KI5TP, gave the CORA report. Don said that the new officers were elected and some major changes were in the works.

Meeting was adjourned at 10:00 a.m.

(Editor Note - For some reason or the other I am sorry SCARS didn't have minutes in the *C&E* last month. Either I was late or the post office wiped the disk I sent in the mail. I asked them to hand stamp the little envelope and they did. But when I saw the envelope again, it had been run through the magnetic machines that they use. Sorry)

-30-

Keith, KB5FCI



Send articles and stories to me via packet at K2GKK-4 or K5JB on 145.05. Or mail them to me at 4216 Spiva Drive, Del City, OK 73115-4424.

The Editor

TEN COMMANDMENTS OF ELECTRONICS

From the September 94 issue of *CQ* page 55

1. Beware the lightning that lurketh in the undischarged capacitor, lest it cause thee to bounce upon thy buttocks in a most undignified manner.
2. Cause thou the switch that supplieth large quantities of juice to be opened, yea turned firmly off, that thy days may be long in this world.
3. Prove to thyself that all circuits that radiateth and upon which thou worketh are grounded, lest they left thee to a higher frequency potential and thus grant thee entry to radio heaven.
4. Tarry thou not amongst those fools who engage in intentional shocks, for they are surely nonbelievers and so are not longeth for this planet.
5. Take care that thou useth the proper method when thou takest the measure of a high-voltage circuit, lest thou incinerate both thee and thy valuable meter.
6. Take care thou tampereth not with interlocks and safety devices, for this incurreth the wrath of thy seniors and bringeth the fury of these seniors upon thy head and about thy shoulders.
7. Worketh thee not on energized equipment, for if thou so dost, thy fellow workers will surely buy beers without thee, and thy space at the bar will evermore be filled by another.
8. Service thy equipment not alone, for electrical cooking is a slothful process and thou mayest sizzle in thy own juices for hours upon a hot circuit before thy maker sees fit to end thy misery and drag thee into his fold.
9. Trifle thou not with radioactive tubes and substances lest ye commence to glow in the dark like a lightning bug and cause thy wife to see no further use for thee except for thy wages.
10. Committeth thee to memory the works of the prophets, which are written in the instruction manuals, for they surely giveth the straight dope.

While several of these entreaties don't really apply to the low-voltage, solid-state circuits of modern-day electronics, there's wisdom in the words. These tongue-in-cheek commandments humorously but firmly remind us of the deadliness of the circuits with which many of us work every day. So take heed, and consider this possible 11th commandment:

11. Be thou not afraid to ask stupid questions, for verily they are cheaper and safer than stupid mistakes.



W5PAA - Aeronautical Center Radio Club

November 3, 1994, Meeting:

Brad, KJ0W, opened the Novice/Tech classes at 6 p.m. with 21 students in attendance. The format will follow the ARRL recommendation of 9 weeks for the Novice portion followed by three weeks for the Technician training. VE Exams will be administered to those students electing to do so. We are Over Whelmed, to say the least, and excited that there are so many people interested in becoming part of the hobby of amateur radio. Arrangements are being made for a larger classroom to accommodate all those students wanting to attend. We expect to locate another classroom at the Aeronautical Center to better accommodate these needs.

The monthly ACARC Meeting opened at 7:35 p.m. by President, Dick, KJ5VV. We had great attendance, due to good weather, the ham classes, or refreshments. Whatever the reason, KEEP ON COMING, enjoy the fellowship, exchange of technical information, or to tell ham lies!

Brad, KJ0W, gave a brief treasurer's report and indicated that our treasury has grown some due to our recent decision to increase dues. W5PAA hats are available at the Center Bookstore unless it is inconvenient for members to purchase them. If there are members who desire to purchase the hats and are unable to get to the Bookstore during business hours, please advise one of the club officers and we can pick them up for you.

President Dick informed the group that arrangements have been made for the Annual Christmas Party to be held at Hometown Buffet, 6:30 p.m., December 10th, 74th SW and Western, OKC. Reservations for 45 people have been made; however, advise one of the club officers or come to the December meeting to provide us of your intentions so firm

Collector and Emitter, November 1994

reservations may be provided to the establishment NLT December 3, 1994. Please attend, bring a friend or guest, and advise if you would like to see some special activity such as a White Elephant gift exchange, door prizes, etc.

Chuck, K5NK, CORA President, provided an overview of the focus of CORA for 1995 HAM HOLIDAY and encouraged everyone in attendance to attend CORA meetings and become more active in CORA activities. We can expect GREAT things to happen to CORA during the term of these CORA officers and their influence to make HAM HOLIDAY a World Class event! W5PAA is planning to have a Club Table at 1995 HAM HOLIDAY to which we will need member participation and support.

We have new QSL cards for the club station and for use as necessary by our operators. One will find them in a container on a shelf above the TS940 in the radio room.

Brad related a brief scenario of our experience with Special Events operation at the OKC Aerospace America and specifically our "perceived" obligation to contact the Shuttle. We look forward to internal or external Ham support from whoever may like to participate in that venture in June 1995. Jeff, WD0GTY, volunteered to head up our 1995 Special Events Aerospace America operation with all of our support and participation. Thank you Jeff.

Somewhere in the course of Brad's description of the Aerospace America operation, he became somewhat tongue-tied, and proclaimed to all his EXCELLENT grasp of our English language. To wit, and with little, reaction from ANY in attendance, we learned that some of our members gleaned more from his comments than were INTENDED!!! Nuff said!! Hang in there KJ0W!

We have been given permission to operate as W6OI/W5PAA during our Special Events operations December 17 and 18, 1994, on 10 meters. Morrie Goldman, W6EHM, Trustee for the 10-10 Club Station, has given permission for W5PAA

to also currently operate W6OI/5 on 10 meters to announce this special event and our Special Events operation next June 1995 for Aerospace America. Announcement of our W5PAA Special Events operations will also appear in the 10-10 news publication.

The December 1994 special events operation is to celebrate the 91st Anniversary of the Wright Brother's first powered flight at Kitty Hawk, N.C. Until December -

de Dick, KJ5VV

ARRL Bulletins (Con't)

Carolina's 2nd district, to fill the seat of a retiring Democrat.

Funderburk, 50, holds a PH.D. and taught history at several North Carolina colleges before being appointed by President Reagan as U.S. Ambassador to Romania in 1986. His expertise is in east European and Russian studies. He was a Fullbright scholar.

K4TPJ described himself to Roll Call, a newspaper serving Capitol Hill, as an "avid ham radio operator." He holds a general class license.

Funderburk and his wife Betty Jo live in Buies Creek, North Carolina.

ARRL Bulletin 92

Election Results

The ARRL Committee of Tellers for the election of directors and vice directors for the 1995 through 1996 term met at ARRL Headquarters November 18 to count ballots. Here are the results.

Central Division for Director,
Ed Metzger, W9PRN, 2821.
Neil Rapp, WB9VPG, 1793.

Northwestern Division for Director,
Mary Lou Brown, NM7N, 2955.
Mary Lewis, W7QGP, 1505.
Don Clower, KA7T, 471.

Roanoke Division for Director,
John Kanode, N4MM, 3073.
William Jacobs, WA8YCG, 509.
Edward Dingler, N4KSO, 407.

On the Air

ARES - Oklahoma County Thursdays @ 8:00 p.m. on 146.22/82.
Packet check-in on 145.07
Salvation Army - Second Saturday of the month @ 8:00 a.m. on 146.22/82.
HF 3900kHz; Packet 145.07
AMTOR @ 8:30 a.m. 14.064mHz
Night Owl - Daily @ 10:30 p.m. on 146.07/67 with alternate 146.325/925.
OKC Swap-n-Shop - Saturdays @ 10:00 a.m. on 146.22/82.
Geritol - Daily @ 8:00 a.m. on 145.41 minus input.
Edmond Info - Mondays @ 7:00 p.m. on 147.135/735.
QCWA Chp 63 VHF - Thursdays @ 7:00 p.m. on 145.41 minus input.
QCWA Chp 63 HF - Sundays @ 8:00 on 3856.5kHz.
Wheatstraw - Wednesdays @ 9:00 p.m. on 146.01/61.
Purcell - Mondays @ 8:00 on 145.19 minus input.
Cimmaron - Tuesdays @ 9:00 p.m. on 145.45 minus input.

CHIT-CHAT

I never intended for this to be my own little space, it was meant to be open to all YL's and XYL's that had something to share. It is still open for anyone willing to give me a break once in a while, I need your help! I honestly do not want to beg, but if that will get someones' attention and some help, then consider this as my begging for help!

This month I am sharing with you a rich sinfully fattening recipe, that was first used to introduce BUTTER FLAVOR CRISCO and was one of Loretta Lynn's family favorites. It tastes amost like Pecan Pie only it's a bar cookie. I spent 3 days on the phone with Crisco having them search for this recipe before they found it and it was worth every minute. This is an easy recipe to make.

BUTTER NUT CHEWIES

1/2 cup Butter Flavor Crisco, melted
2 eggs
2 cups firmly packed light brown sugar
1 teaspoon vanilla

Preparation Time: 20-25 minutes

1 1/2 cups unshifted all purpose flour
2 teaspoons baking powder
1/2 teaspoon salt
1 cup chopped pecans (nuts)

Preheat oven to 350 degrees F. Grease 13x9x2 inch pan with Butter Flavor Crisco. Beat eggs until light and foamy in large bowl. Beat in sugar, vanilla, and Crisco until creamy. Combine flour with baking powder and salt. Add to egg mixture. Mix at low speed until blended. Stir in nuts at low speed. (Mixture will be stiff) Spread evenly in prepared pan. Back at 350 degrees F for 25 to 30 minutes or until top is light brown. Cool 10 to 15 minutes. Cut into bars. Makes about 2 dozen bar cookies. (will dry out if left uncovered for any length of time, I put plastic wrap over mine but they are eaten before they are allowed to dry out.)

Enjoy and lets see your family favorite recipes in the December issue,

73 de, Linda, N1LPN

AVVid

is an

Authorized "Kenwood" Service Center
Warranty and Non-Warranty Repairs
For Kenwood Amateur Equipment **Only**

"Labor Charge"

Normal Repair: \$65.00

Modifications: \$50.00

Estimates: \$40.00

Lightning Damage: Varies

All Are Plus Parts

10040A Monroe Dr. Dallas, Texas 75229

1-800-214-5779

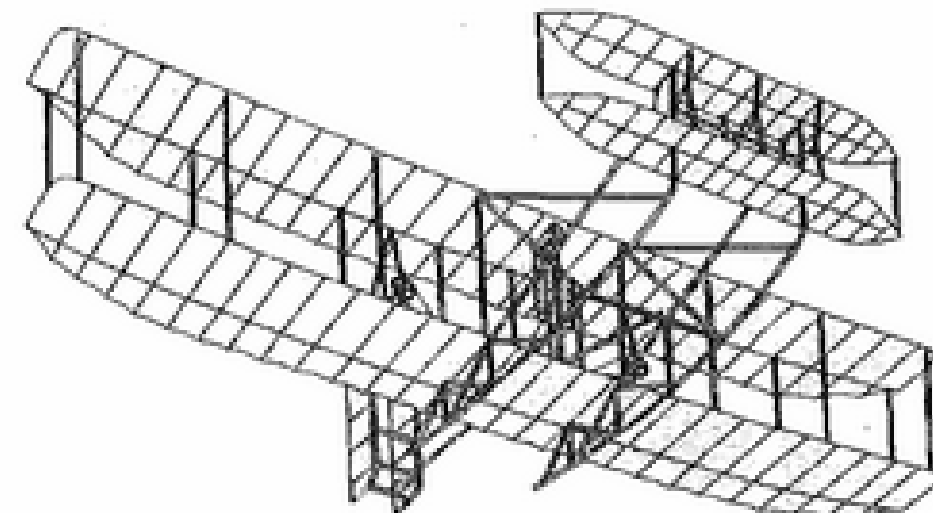
214-350-6770

Fax 214-350-7743

10:00 a.m. - 6:00 p.m. Mon to Fri / 10:00 a.m. - 4:00 p.m. Sat
We Accept Visa/MC/Discover, Cash, and Good Checks

Call and Let US Help You!!

Owned and Operated By "Ham's"



W5PAA will operate a Special Events station Dec. 17 through December 19, 1994, to commemorate the anniversary of powered flight by the Wright Brothers. W5PAA will be operating all HF bands, including 10 meters where they have been given permission to operate "W6OI ON-THE-AIR" as W6OI/W5PAA. Morrie Goldman, W6EHM, Station Trustee for W6OI, Ten-Ten International, Inc., has given W5PAA permission to operate December 17-18, 1994, on 10-meters and on 10-meters prior to the event to announce the Special Events Operation. One will also find W5PAA on 10-meters from May 1 through June 1995 when W5PAA will operate W6OI/W5PAA Special Events for the Tenth Annual Aerospace America Airshow at Will Rogers International Airport, OK.

W5PAA has been in existence since 1946 as the FAA Amateur Radio Station. W5PAA is the Aeronautical Center Amateur Radio Club, Inc., and is comprised of current and former FAA employees operating from the Mike Monroney Aeronautical Center, Oklahoma City, OK.

73 de, Dick Russell, KJ5VV Club President

ALTUS AREA NEWS

Altus Area Amateur Radio Association

Hello, No I haven't moved, left town, or been sent TDY. Uncle Sam has had me hopping though and now I have a week or two to catch up on the important stuff. I got promoted at work and took over as the boss, so now I find my free time down to less than zilch. I have managed to get some stuff ready for the CORA C&E paper. Hope you all enjoy a Very Happy Thanksgiving and look forward to the Christmas Season ahead. Stand by for news:

Ok, so we don't have a club logo yet and we still hop from one place to another for our monthly meetings. Don't hold it against us and we won't tell everyone that you're talking on a Radio Shack HT. Things could be much worse you know. Did you hear about the fly who flew into a cows ear one day and was found in the milk the very next day. Yes, it was a case of in one ear and out the utter.

Back to radio club stuff, what's up with that .79 machine down in Altus anyway? Well to put it plain and simple, it burned itself up. After lightning strikes and constant key down, the wires were black crispy critters and major melt down was roughly an understatement. Well, thanks to modern technology and the hard work of Dwight, WB5KRH, old Frankie .79 is rebuilt, looking sharp, and getting burned in as we speak. Maybe the term "burned in" brings back past memories, but the repeater sure looks like a spic and span work of art for the time being. A few more tweeks here and there and Dwight will have the complete package back in operation. If you want to help climb the mountain, just let Dwight know, he'll be glad to take all the help that will be offered.

As for the recent club happenings, we have bounced around from the city library, to the college campus, and now back to old faithful, the North Main Fire Station in Altus. Each place that we have met in

Collector and Emitter, November 1994

the past has it's good points and drawbacks, but until we can locate a per-ma-nent facility that will handle our increasing size and allow access to the handicap, we will tough it out at the fire station for the next few sessions.

Our last regular meeting was held in the basement of the fire station and what a good crowd turnout it was. Tables pushed aside and chairs re-a-ligned, we ended up with enough room for the coffee pot and 31 warm bodies with just about standing room only in the back. George, AA1IJ could not make the meeting due to duty commitments, but past President Jim AB5SI rose to the occasion and jumped in to fill George's shoes. After reading of the last minutes and paying a bill, the night's agenda got well under way.

The passing of the Alligator Award was the 1st item to start the session and Dale gladly sent the green reptile to it's well deserved new owner: Verna, KC5HKD. Not to be out done, old Bob, KE4BN passed down the mobile Alligator award to Ed, KC5IVY. Talk about keeping the loot within the same family, Mother and son cleaned up good with their radio activity for the past month. Seems like Ed is always heading this away or that away while he is two metering. Ed talks so much on the radio that he almost qualifies to be a YL. uh oh, Vallie will give me a rough time for that comment, I know it already.

Following the alligators, Jim, AB5SI dis-cussed the new pro-pos-als and amendments for the new club con-sti-tu-tion and several issues were talked up before a final verdict was a-greed upon. All the new a-mend-ments will be presented in final form at the January meeting for the club to accept. Our door prize for the Christmas party was on display and should make some lucky winner very happy after the night of December 8th. Our next club lunch date was set for the 19th of November to be held at FURS res-tau-rant in Altus. we are going to try a weekend meal this time around, since during the weekdays, turnouts for the lunch have been decreasing over the past month. Missed you at the last meeting by the way Dottie.

The V.E. Test session will be held on the 26th of November starting at 1830 (6:30 p.m. Vallie) for the code testing and the-o-ry testing following thereafter. Jim, AB5SI mentioned that folks might want to mention a occasional hello to a dedicated scanner listener by the name of Gene who cannot get out of the house but who faithfully monitors the radio for all who may chance to key up. So in case your down around these parts, let Gene know your aware of his presence by saying hi now and then. All points bulletin, be on the lookout for Jim, N5UJB. Last seen over in the Altus area about four months ago. Where you been Jim? We need to pick on you again. Hope you can make it to the Christmas party.

Speaking of the Christmas party, ok I will thank-you. Our annual dinner this year will be held on December 8th at the Western Sizzlin steakhouse in Altus starting at 1900 (yep, you guessed it Vallie, that's 7:00 p.m.). Everyone is invited to come on out that evening and enjoy the night as only Altus can do. Plenty of door prizes and if John don't shave, maybe the jolly North pole man will be there also. The meal will be a pay as you go arrangement, so pick out the steak of your choice and get set for our last big ga-la event of 1994! More DX events, bigger Field Day, and supper picnics lay ahead in 1995 so come on out December the 8th and wrap up a great year with the Altus area folks, hope to see you all there.

Last but not least, the A to Z award is now up and running strong for those with the effort to get the job done. Just 26 confirmed different voice contacts with callsigns ending in A to Z will have your wall decorated with this sharp looking certificate. Rules and guidelines can be obtained at any Altus club meeting or by requesting a copy from:

P.O. Box - 73, Altus, OK. 73522-0073.

Best wishes for you and yours this Thanksgiving season and throughout the coming holidays ahead. Have you thanked your Elmer lately!

de Mike, KC5AWB

Ham Happenings in the Oklahoma Area

VE Exams, Social Gatherings, Hamfests, Licensing Classes and other Events:

VE exams on 3rd Monday of each month sponsored by C.O.R.A. 1800 @ Salvation Army HQ at NW 50th and N. Penn, Oklahoma 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 M.O.R.I. 1400 @ radio station KOMA, 820 SW 4th Street, Moore, OK

VE exams on 4th Tuesday of each month are held at 1800 in the Shawnee Public Library, 101 N. Philadelphia.

VE exams on 2nd Saturday of each month sponsored by SCARS are held at 1000 at Red Cross in Norman.

VE exams on 4th Saturday of each month are held at the Wilson Center in Altus, OK, times are 1830 for code and 1900 for theory.

The Choctaw ARC will sponsor Novice/Tech classes at the Choctaw Community Center on Choctaw Rd. Times are not available at time of printing.

Amateur Radio licensing classes sponsored by Edmond Amateur Radio Society at St. John's Catholic Church (9th and Littler, Edmond) at 2:00 p.m. Contact Frank Tassone 341-1124

Hams on the Southeast side of Oklahoma City meet at various locations for lunch on Tuesdays from 11:00 - 12:00 a.m., to find out where they meet listen to 146.22/82.

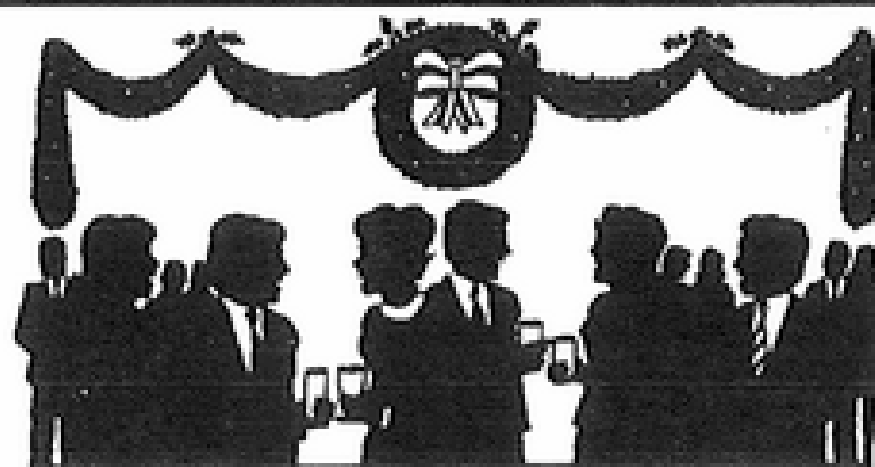
Hams from all over Oklahoma City meet at various locations for lunch on Thursdays at 11:00 a.m., to find the lunch location of the day listen to 146.22/82.

Hams from around the central Oklahoma area meet Fridays at 7:00 for supper, coffee, friendship and overall story telling at the Skyline Restaurant, on 15th and Eastern in Oklahoma City.

MORI sponsors a transmitter hunt each week, alternating between north and south Oklahoma City at 7:00 p.m.. The hunt frequency is 147.470MHz. Check on the 146.07/67 machine for the hunt announcement.

Edmond area amateurs meet each Saturdays, 8:30 a.m. for breakfast and coffee at the Grandy's on Broadway Edmond, OK

Estate Sale - N5KLJ(sk) left the following equipment upon his passing:
Heath HG-108 VFO
Heath DX-60B CW Transmitter
Realistic DX-150A Scomm Receiver
Regulated Power supply 13.5V @ 2.5A
Hammerlund HQ-170 Receiver
Contact Mike Heffernan - N5MPR
2101 S.W. 62nd Street
Oklahoma City, OK 73159
681-4193



CHRISTMAS PARTIES

OK NIGHT OWL NET:

The Oklahoma Night Owl Net Christmas Party is scheduled for Saturday, December 3, 1994 at 6 p.m. The party is to be held at the south Denny's Restaurant located at the intersection of I-240 and South Pennsylvania Ave. in OKC. Everyone is invited. It will be a good time to meet those you hear and talk to in person.

Garland Jennings. NQ5Y
Acting Manager

AREONAUTICAL CENTER AMATEUR RADIO CLUB (ACARC)

The Areonautical Center Radio Club will be held Saturday, December 10th at 6:30

p.m. The party is to be held at Hometown Buffet, S.W. 74th and Western Ave. in OKC. For further details see the ACARC column in this edition.

The Editor

MID OKLAHOMA REPEATER, INC. (MORI)

The Mid Oklahoma Repeater, Inc club will hold its annual Christmas Dinner on Tuesday, 6 December with the site to be announced on the repeaters and nets. The editor assumes the time for this dinner will be the regular meeting time. For details contact Marvin, WB5DXZ the event chairman.

The Editor

EDMOND AMATEUR RADIO SOCIETY (EARS)

The Edmond Amateur Radio Society will hold its annual Christmas dinner meeting on Friday, 16 December at 6:30 p.m.. Place is to be St. John the Baptist Catholic Church. Fare is to be determined at the time of this printing.

OKLAHOMA CITY AUTOPATCH ASSN. (OCAPA)

The Oklahoma City Autopatch Association will hold its annual Christmas dinner meeting Tuesday, 20 December at 7:00 p.m. at the Midwest City Community Center, on the Northeast corner of Reno and Midwest Blvd. See the OCAPA column for map. Members only please. Menu is pot luck and meats provided by the club.

ALTUS AREA AMATEUR RADIO ASSOCIATION

The Altus Area ARA will hold its annual Christmas dinner Thursday, December 8th at 7:00 p.m. at the Western Sizzlin steak house in Altus, OK. The meal is a pay as you go arrangement and all are invited to join the festivities.

WHEATSTRAW RADIO CLUB

The Wheatstraw Radio Club will hold its Christmas dinner Sunday, December 11th at 1:30 p.m. at the End-O-Main, Inc in Watonga. Cost is \$7.35. Reservations are required through the club.



Edmond Amateur Radio Society

Edmond, OK
November 1994

No mention of the weather to kick-off the EARS article this month. I know you know what the weather has been, will be and just as soon talk about something else. So here we go- Happy Holidays to you and yours. 1994 has gone quickly hasn't it.

Right now, we will review your club's activities over the past 30 days or so. Hey, how about our logo! More on that later.

Repeater Update

VHF

Just to review, our club operates a VHF repeater on 147.135 + offset, with transmitter /receiver located on the campus of U.C. O., in Edmond. I think you would agree that the club's repeater performs in a reliable/quality manner and reflects favorably on our club. The repeater technical committee is composed of KA5WIS, Lee, KA5WAV, Tommie, and N5TWC, Ken, who keep the machine "on-track" and meeting the needs of the club and its members. Two recent functions changes on the repeater have been completed. The more noticeable repeater change is the courtesy tone specific to the Monday Night-net and was designed by Ken, N5TWC. Other than being three tiered and quick, I do not know how to describe the sound-listen and give it a name. However, FIDO or PHYDEAUX have been previously selected and are not eligible. The repeater now also encodes a tone at 79.7 Hz which can be used by state-of-the-art transceivers to only select our repeater frequency. This repeater is phone patch equipped.

UHF

The UHF repeater is on 443.150 + offset, is not "pl'd" but is ready to accommodate your UHF desires and equipment. This repeater is located on 33rd Street. It is between Broadway and Kelly and does not have a phone patch. With an increasing availability of UHF equipment this could be a good time to try out the 70 centimeter band which has some dynamics ya might want to check out. KA5WIS, trustee of both repeaters, is at hand to answer your questions or listen to your suggestions: as are Ken and Tommie. Just a couple of more comments about the repeater system. One is that we have satellite receivers located in sites around the OKC metropolitan area to augment coverage of the VHF repeater. These satellite receivers have been installed through judicious use of funds, (some their own and some the clubs) by the technical group. So be sure you thank those responsible, when you are able to communicate through the repeaters or make that important phone patch. And, let Lee know if you want an autodial number for the phone patch.

Licensing Classes

Our 1994-95 licensing classes are being conducted by Frank Tassone, AA5GI, and are held at St. John's Catholic Church. The classes started September 25th with the following club members, in addition to Frank, serving as instructors:

Sam Sitton, KV5X
Glenn Reed, KF5XB
Lee Vaughn, KA5WIS
Tom Guinn, KA5WAV
Dee Mize, WD5FHR
John Thomason, WB5SYT

The current schedule calls for classes to end in early January. Ron, KC5IQF, is also helping out with the licensing class process.

Jamboree On-the-Air

AA5GI, also headed up the EARS Jamboree On-the-Air (JOTA) which was held October 15th at the same site as the classes. The JOTA is an annual event for scouts to expose them to amateur radio.

We had numerous scouts who were able to work other JOTA stations on H.F. Stations contacted by our JOTA enterprise using the club's Yaesu 757 included:

WD4KVD
WD8IFD
N8NRT
VE7YA
KB0LHG
K2BSA/I
AA1IK

Club members participating in the JOTA were: Mary KA5WHI, Lee, KA5WIS, Dee, WD5FHR, and John, WB5SYT, as well as Frank. I want to recognize the contribution of Curtis, KC5GEP, to the EARS JOTA activity. Curtis and his family are active in scouting. He is one sharp ham who rigged up a long-wire functional antenna at the JOTA faster than Matt Dillon can draw his sidearm. With the long-wire in use the JOTA became alive as the above-noted stations were worked quicker than Miss Kitty can pour a cool-one. Thanks Curtis! It was good to meet ya, Pardner.

Ambuc Fund Raising

The 1994 Ambuc fund raising project is now complete with EARS accruing a nice increase in the Bertha Watson Memorial Scholarship Fund. Thanks to all who participated and were available when ticket turn-in time came. A soft economy and weakened job vacancies limited our success but we are thankful for what we accomplished. Many thanks to Lee & Edith who led the pack by several bucket fulls.

Board Meeting

The October Board meeting was held on the 19th at the Edmond EOC with the usual items, which have been presented here previously, reviewed. Sue, N5VWI, gave a new club roster which shows 101 club members. The nominating committee report for 1995 club officers was given by Ken, N5DBM, and is as follows:
President- John, Thomason, WB5SYT
Vice-President- Richard Winnard, KJ5QU
Secretary- Ken Stepp, N5DBM
Treasurer- Sue Snyder, N5VWI

Board Member- A.C. Adams, KA5WGV
Board Member- Dee Mize, WD5FHR

The Christmas Dinner, which is scheduled for Friday, December 16th, at St. John the Baptist Catholic Church, was discussed. Edith, KA5YPX, agreed to head up the dinner planning while soliciting help and guidance. She really is a good sport to take on this function and put up with our agitation. If you want to know what month our Christmas Dinner is held, contact Brad, KG5UK. I know it is a difficult question, but Brad can handle the most arduous of petitions.

October Dinner Meeting

Gosh, what a special event we had at the dinner meeting hosted by Clarence, KB5RR, and Marion on the 21st. The Dollmeyers are accomplished providers of relaxation, stimulators of fellowship while tolerating some club members merriment. They were even socially receptive to K5SKA ! Now that is a reach isn't it ! Sitting out on the deck, sipping some of the hosts wassail, pondering life with your EARS soulmates makes for a mighty fine time. The cuisine, pot luck style, was something to behold. As some would say, "There was some major grub on that table. " Whew. Richard, KJ5QU, demanded a recount when Ed, N5ZHS, got to take home the callbook. To no avail. Thank You Clarence and Marion.

Logo

The EARS Logo at the head of this column is available to members for use on their word processors. Contact Clarence, KB5RR, 341-7163 and let him know what format you need. The cost will be \$3.00 plus the disk cost; or bring your own disk. All monies will go to the Scholarship Fund. Please acknowledge Clarence's effort in preparing our club logo for inclusion in the Collector and Emitter. Nice job Clarence !

Birthdays

Opal, KB5BUK, advises us of the following December birthday's for EARS members:

Robert Roloff KA5WCO December 2nd
Brad Keispert KG5UK December 6th
Brian Keispert KB5ODR December 7th
Jason McGee KB5EYE December 21st
Arlester Milligan. KA5YPH December 22nd
Richard Vinson N5QIT December 30th

Looking to Tomorrow

Each Monday at 8 pm, EARS Information Net. 147.135 +

Each Saturday, 8:30 am coffee at Grandy's

Saturday-December 3rd, Siren Test-
Contact Edith, KA5YPX 12 noon

Wednesday-December 14th, Board
Meeting-Contact Lee, KA5WIS 7 pm

Friday-December 16th, Dinner Meeting
6:30pm, St. John the Baptist Catholic Church

Happy Holidays, 73
John, WB5SYT
EARS VP and Editor

HAPPY BIRTHDAY USMC

10 November 1994....219 years old today.
Born 1775 at Tun's Tavern, Philadelphia, PA. Seems like so long ago, but it really isn't.

My memory of my first connection of the Corps was when I was about 4 or 5 years old and my Dad took me to a WWII display aboard a ship at the Bath Iron Works (shipyard) in Bath, ME in 1944 or 45. Shortly after that, I remember that I had a cousin killed on Okinawa and another shot up on Tarawa. Some where between then and 1959 when I graduated from high school, I decided to join the Corps. I shipped for six and was discharged in 1968. I have never regretted my decision...these were some of the best years of my life. My training and experience has stayed with me all these years...and has stood me in good stead. Even through my life has taken me down

many paths since 1968, I can honestly say, Once a Marine - Always a Marine.

I wish you all a very Happy Birthday and hope that you see many more.

73

ES SEMPER FI

De DON, N1JNK@K1RQG.ME.USA.NA

FYI

Holiday Precautions

With the holidays upon us the following is just a freindly reminder:

1. Remember to lock your doors, be they business, house or car. Everyone seems in such a hurry right now. An unlocked door is an invitation for a would be theif.
2. When shopping, keep track of those around you. If you get bumped, check your purse or wallet to make sure it hasn't been stolen. It's a good idea to shop with a friend or family member after dark.
3. Before leaving a store to you car, have your keys in hand with the car key between thumb and index finger. This will get you safely in your car in the least amount of time.
4. Store packages in the trunk if you plan to shop at more than one store or mall. Keep goodies out of sight of possible thieves.
5. Take your hand held radio with you while shopping. It keeps you in contact with others, as well as warns you if your other half is shopping in the same store or mall.
6. It's always better to be safe than sorry later. If leaving out of town for the holidays let someone check on your place while your gone. For an extra measure of safety, let the local law enforcement agency know of your plans leaving the name and telephone number of the person watching the house and where you can be reached.

Just a few tips on keeping your holidays yours and happy.



**VHF Club
NEWS**
W5LOW
Elmer Goekler Memorial
Station

Minutes of October Meeting

Meeting was called to order at 12:00 p.m. by President J, KB0QJ, with fifteen members present. Charlie, WA5JGU, gave the treasurer's report for Ellard, W5KE. There were no minutes from the last meeting to read, because the last meeting was the wiener roast.

Bob, W5HXL, gave the CORA report. Fred, W5NL, brought up discussion that the "Turkey Award" be reinstated. Motion to that effect squeaked by with a narrow margin.

Bob, W5HXL, gave a short description of his visit to "House on the rock", located about 50 miles southwest of Madison Wisconsin.

With all that done, meeting adjourned at 12:09 p.m.

Joe, K5JB, Sec'y

KG5AS Silent Key

This was provided by Ken, WA5DTL:

William M. Rutledge was 58, born 7-25-1936. He was a Physicians Assistant at the Parkview Hospital in El Reno, Okla. He served in the Air Force during the Korean Conflict. He received a B.S. Degree from Bethany Nazarene College and attended Oklahoma University Medical School. Bill was also in Law Enforcement in Mississippi, as a Sheriff.

Bill got his Amateur Radio license in December of 86. I got acquainted with him on 2 meter Packet radio in 86. He was very active on 145.07, and also operated HF packet on 20 and 40 meters. There is one thing that always impressed me about Bill was when he got interested in something he became quite an expert with it. Packet radio led Bill into the world of Personal Computers. His extensive knowledge of PC's was all self taught. He was so knowledgeable about it,

that his ham friends were quite often "picking his brain" due mainly to being too lazy or as with me, not having the time to research it out and being lazy also.

Bill is going to be missed by all who knew him and the 2 meter packet frequency that we all shared, isn't going to be the same.

73 de Ken, WA5DTL

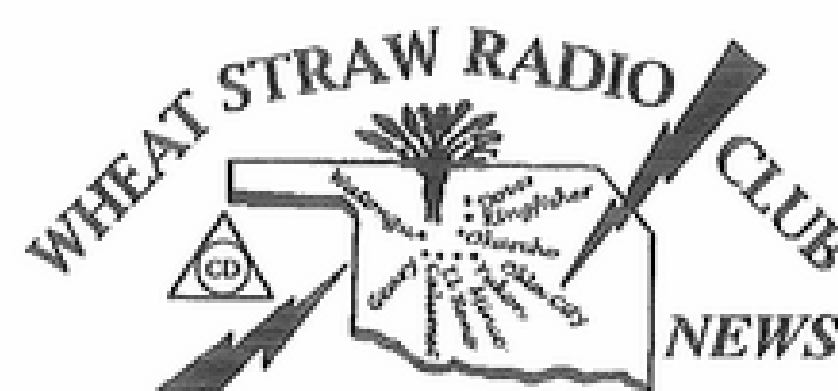
Packet Happenings

Well, I don't have much to report to explain my packet activities for the past month. I am still spending a lot of time working on the TCP/IP program called, JNOS. I have it pretty well working to my satisfaction but still find something every few days that need changing.

The latest change has to do with timing on the AX.25 link layer. Someone had added backoff functions to that part of the thing and they are totally unnecessary, and rather undesirable. The value called "frack" in a standard TNC, is called "T1" in the AX.25 specification. It is the time the TNC waits for an acknowledgment before sending either a poll or retrying the information frame. It is supposed to be lengthened if digipeaters are used in the connection. This adjustment had been removed from JNOS. Also the time was extended every time there was a retry. The TCP layer has a sophisticated backoff mechanism that extends the time between packets if the circuit is too slow, from congestion, for example. There is no need for a backoff at the link layer because most retries are necessary because of collisions, a way of life on packet radio!

Anyway I got that fixed. Incidentally, those who complain about TCP/IP causing congestion are simply ignorant of the facts of life. My TCP/IP stations send one 256 byte packet at a time, and if there is any congestion at all it backs off to as long as *ten minutes* between packets. I would *hardly* call this *causing congestion*!

There are *many* ways that uninformed packet operators can trash a frequency, and once it is trashed I guess whoever happens to be doing something they don't understand gets the blame, sigh! Joe, K5JB



Wheat Straw Meeting

The November meeting was held Sunday, the 13th at the Christian Fellowship Hall. There were twenty five present. We had one visitor, Betty, a friend of Wanda's, KC5GTW.

Meeting was called to order by President Joe, WA5GHK. After the previous meeting minutes were read, we had self-introductions.

We are having some problems with our repeater. After some discussion, Ray, AB5Z, made a motion that the club buy a new antenna for the transmitter. The motion was seconded by Leo, WZ5H, and then passed.

Well, a new year is approaching and December is election month for the club.

Ralph, WA5PFB, nominated Johnny, K5GBN for President. Other nominations for President were: Sue, KB5TNE, nominated Leo, WZ5H. Tom, N5IKN, nominated Stu, K5DSR.

For Vice-President: Ray, AB5Z, nominated Father Joe, W5JEB. Also, Margaret nominated Jim, N5VDY, and WZ5H nominated Joe, WA5GHK.

For Secretary-Treasurer, the only nomination was made by Tom, N5IKN, who nominated Joe, WA5FLT.

For Reporter, KC5GTW nominated Ralph, WA5PFB.

The next meeting and Christmas dinner will be held December 11 at the End-O-Main, Inc. at 210 East Main, in Watonga. The cost for dinner is \$7.35. Dinner will be served at 1:30 p.m. You must send your reservations in through the Wheatstraw Radio Club. Net comes on every Wednesday night at nine O'clock, or send your reservations by another operator.

At the end of today's meeting, Wanda, KC5GTW, and Father Joe, W5JEB, entertained the club with a couple of games for fun. Wanda had a game about Thanksgiving. Father Joe's game was a unique bingo game. When the game was over he drew for prizes.

Then meeting adjourned for the most delicious refreshments; sandwiches, fruit rolls, cakes and pies. There was a lot left. Sorry if you missed the meeting.

Ralph, WA5PFK

Some Tall Tales

An 1898 newspaper reported: "They've been experimenting in the poultry department over at the Experimental Farm. It was decided to test sawdust as feed. Accordingly, a small amount was mixed with the meal fed to one hen. She did so well that the dose was increased until sawdust constituted her only diet. Then a hen was set to hatch 13 of the sawdust eating hen's eggs. When the eggs hatched, 12 of the chicks had wooden legs, and the other was a wood pecker."

Joel S. Allwandt of Spokane Washington, had a motorcycle he tuned up until it was the fastest thing around. "My cycle goes so fast," he said, "that when I rode by my house I lived in last year, there I was mowing the lawn."

Out of the Desert Storm came the story about the British sailor who asked the American sailor, "How fast to your aircraft carriers go?" The American replied, "I don't know. We never time them. WE just require them to keep up with their planes."

To ensure an even division of time, the men (in Alexander's army) going on duty dipped a clean rag into a chemical solution that changed color in about eight hours. They tied the rags around their wrists. When the chemical changed color they knew it was time to be relieved. This became the first wristwatch. To this day you can hear people talk of "Alexander's Rag Time Band."

Mrs. R.P. Weaver of Chatsworth California, tells of an overheard conversation be-

tween her plumber and an apprentice. The apprentice was complaining about how hard he had to work that morning. "You think you got it tough," the old timer retorted, "Listen, when I first started in this business, they let us lay two lengths of pipe and then turned on the water, and we had to keep ahead of it."

Two cowboys riding the range spotted a hat on a sand dune. One leaned down from his horse to pick it up and underneath was a head. The two got down and started clawing sand from the eyes, nose, and mouth.

When the mouth was free, it said, "Better get a shovel, boys. I'm on horseback."

From W5YI Report

Power Problems Kept MIR Off Ham Bands

Amateurs aboard the Russian MIR space station are now back on the air after being silenced by an electrical crisis. On October 12, Radio Moscow reported power supply problems on the MIR orbital station, and newspaper "Lzvestiya" carried the headline, "MIR Cosmonauts on Starvation Power Rations." A short circuit in one of the systems caused the solar wings used to charge the chemical batteries to turn away from the sun.

"All auxiliary systems have been disengaged and all power is being used for life support and air regeneration," the reports said. Also plans have been made to send up another set of solar batteries to the MIR station in early 1995 to "make it possible to carry out a vast Russian-U.S. program involving the MIR orbiter."

There are five Russian Cosmonauts, and one woman aboard the MIR complex. It has been in orbit nine years and there is one German astronaut on board (Ulf Merbold, DP3MIR). He is from the European Space Agency.

By firing the rocket engines and using a standby computer the cosmonauts succeeded in turning the solar cells to the sun and power was restored.

DP3MIR was heard last week by a Swedish radio listener on 145.50 MHz talking German with hams in Germany. U6MIR also called amateurs in Russian.

From ARRL Letter

Congress Passes Joint Resolution

The League's joint resolution passed in the early hours of October 7. Senators Charles Robb (D-VA), Wendell Ford (D-WY), and Alan Simpson (R-WY) had worked very hard on Resolution 90. It was a little after midnight. The bill asks for "reasonable accommodation" in the operation of amateur radio in the homes, automobiles, and public places.

The bill then went back to the house, where it was brought up by Congressman Al Swift (D-WA) and passed unanimously at 2:45 in the morning. Passage was assisted by David Leach, counsel to the House Energy and Commerce, and Jerry Waldron and Colin Crowell of the House Telecommunication and Finance Subcommittee.

Those who wish more details can find them in the September QST, page, 93.

Three California VEs Face License Loss

Three Extra Class volunteer examiners are accused by the Commission of signing paperwork that several people had passed exam elements. The FCC says the exams were not given at all.

The three amateurs are James B. Williams, AA6TC, of Wilmington CA; Rose Marie Flores, N6WPR; and Robert L. Flores, N6WPQ, both of Santa Monica CA.

The three can lose their station licenses, and their operator licenses are suspended. The order was released September 27, 1994. The three had 30 days to request a hearing before an administrative law judge.

Sometimes I wonder how *stupid* some people can get.

Ralph, WA5PFK



Minutes of OCAPA meeting October 18, 1994

The meeting was called to order at 19:30 by Brad, KJ0W. Minutes were read by Perry, KB5TOT. It was moved and seconded to accept the minutes as read. The motion passed. The treasurer's report was submitted by Cheryl, KB5WQR. It was moved and seconded to accept the treasurer's report. The motion passed. The Vice President had no report.

COMMITTEE REPORTS

Severe Weather: NJ1V was not present, no report.

Technical Committee: Mike, N5VIT was not present. Mike, KB5WIC gave the report in his absence. Mike said that there are some problems with the 146.82 repeater. There are also problems with the 444.3 machine. The current thought is there may be water in the feed line, or maybe a problem with the harness. There was a general discussion about repeater repairs. There was discussion about the need for filters on the outputs. There was also discussion concerning repair of the cavities. The technical committee chairman and the executive committee to meet on repeater maintenance. Mac, K2GKK moved to authorize funds as a one time expenditure if needed for emergency repeater repair. The motion was seconded by Hank, WA5JRH. The motion passed.

Christmas Party: There was discussion about meat for the Christmas Party. Perry, KB5TOT was appointed to contact Bob, N5PVM to find out how much meat we had at last year's party. Keith will ask Mary to help coordinate the meat. John, KC5DRI volunteered to make a map to the party.

Properties: John, N5SAM donated rope to club properties.

Collector and Emitter, November 1994

Salvation Army: Clarence, W5LDF gave a short report about the trailer ground and wiring.

OLD BUSINESS:

Pictures of the Hamnic were circulated. Keith reported that approximately 40 people were in attendance.

Cheryl, KB5WQR has been in contact with the club's agent concerning insurance.

It was announced that CORA has new officers. Hal announced the dead lines for C&E articles. He said there will be 2 December issues. Hal requested Christmas articles for the special Christmas issue.

NEW BUSINESS:

It was moved and seconded to spend funds for a UPS system for the repeaters. Motion passed. It was moved and seconded to purchase deep cycle batteries for the UPS. Motion passed. Brad, KJ0W announced No Code Tech classes to start at the FAA center on Thursdays at 6:00 pm starting November 3rd. N5ENQ announced Choctaw Swap Meet 8:00 a.m. on 19 November at Midwest City Community Center. There was a break for raffle ticket sales. The winners and there prizes were as follows:

Halloween wreath-Won by KC5CYJ, Lee.
Halloween candles-Won by WA5JRH, Hank

"Reflections" book-Won by KC5DRI, John

Duckie extension clip mount-Won by KC5DRI--declined and a redraw was held
Duckie extension redraw-Won by WA9AFM, Tom

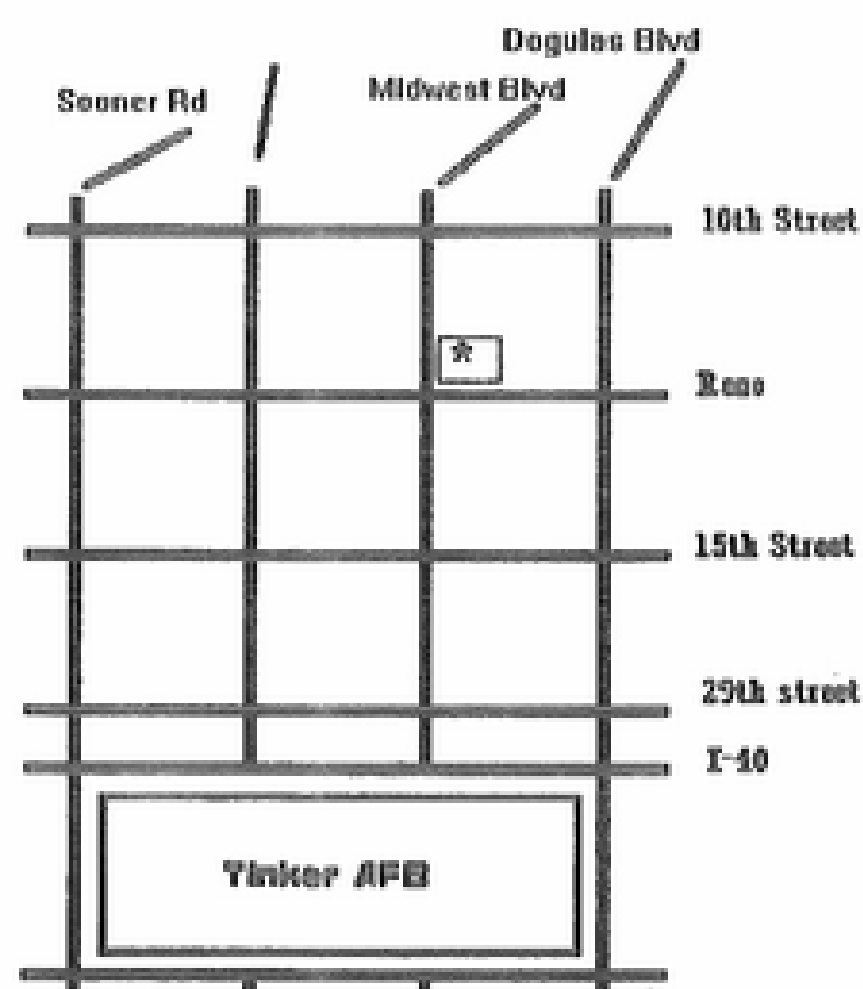
2 meter mag mount-won by N5ENQ, Donald

"ARRL Antenna Handbook"-Won by KC5BRO, Don

It was moved and seconded to adjourn. Motion passed. Meeting adjourned at 21:08 local time.

Attendance was 24

Respectfully Submitted
Perry, KB5TOT



Directions to Midwest City Community Center:

From the North and West - Proceed east on I - 40 to either the Air Depot or 29th Street exits and go east on 29th Street to Midwest Blvd, next to Jim Glover Dodge. Turn north and go 2 miles (2 lights) and just past the 2nd light turn right into the community center.

C&E Schedule for the Holidays

Plans are for the C&E to be published around the 15th of December for the next issue, with a deadline of the 9th. Please I am wanting Christmas ideas for this issue. I have gotten permission to reprint a story from QST. So ladies get out your favorite recipies and share them with us.

Hams lets hear about your first Christmas as an amateur. Or maybe a fond memory of the holidays, a contact, or an elmer.

Please no major club news, save that for the January 1995 issue to be printed the first of the year. The deadline from the January issue will now change to the 21st of the month. This issue will start a whole new year and may see some minor changes in the format of the C&E to meet postal regulations.

So from the Editor and his family, Happy Holidays and hope to hear from you in the new year.

The Editor

Technical Corner

Keplerian Elements - 3

When we spoke last, we had loaded our Keplerian Elements into our computer. Now we are ready to begin finding satellites. Regardless of the tracking program, you need certain basic information to tracking an orbiting body in space.

Keep in mind, satellite tracking is done in relation to a point on the earth, in this case, our station. All tracking programs will require certain basic information about our station to include longitude, latitude, and height above sea level (usually in meters). This details will allow the program to give us the information to track a satellite.

In tracking a satellite, first, we must know "when". Specifically, the time our satellite will appear and disappear at the horizons. This is known as "Acquisition Of Signal" (AOS) and "Loss Of Signal" (LOS). These times, and the time increments in between will tell you when the satellite can be 'seen and heard'. Most tracking programs will allow you to choose the increment of time display. For example, for AO-27, a low earth orbit bird, an increment of 1 minute would work best as it will pass over head rather quickly. For AO-13, with its high elliptical orbit, 15 minutes to as much as 1 hour is suitable. Most programs will allow you to select either Local or UTC. Your best bet however, is UTC as certain satellite functions and activities are based on "Zulu Time".

Next, we need to know "where". This information will tell us where in the sky we will 'see' the satellite. This information is displayed as "Azimuth", a true heading in degrees from our stations, and "Elevation", the height of the satellite above the horizon in degrees. A typical 'Az/El' would be 330/45 or 330 degrees from our station and 45 degrees above the horizon. Again, depending on the satellite, these numbers might change rapidly or remain static for up to an hour. With most antenna arrays, if you are within 10 degrees of azimuth and 5

degrees of elevation, you'll be 'in like a burglar'.

We will also need to know what "Phase" the satellite is in. This is the "MA" or Mean Anomaly we discussed in the previous article. This tells use where the satellite in its orbit, sort of a 'mile marker'. This information is vital to determine what mode the satellite might be in.

Another piece of information the tracking program will also give us is "Pointing Angle", sometimes know as "Squint Angle". This is the angle formed by the center line axis of the satellite in relation to your station. The smaller the angle, the better shot you have at the antenna (usually mounted on the bottom of the satellite). Generally, an angle of less than 30 degrees will give good results. An angle of zero degrees means you're looking 'right down the bird's beak'.

Another important factor is range. Most programs give two ranges; slant range and altitude. The slant range is the distance from our station to the satellite (usually given in kilometers). This will be a good indicator as to accessibility of the bird. AO-13 can have slant ranges from 36,000 km to 8,000 km. The altitude, although not that useful to us, is the distance above earth. Altitude can be used as a handy cross check to make sure the program is giving accurate information. If your altitude is 10,000 km and your slant range is 34,000 km, you got some problems!

Finally, knowing our doppler shift factor will help in finding our uplink frequency. As you are probably aware, movement of the satellite will cause its downlink signal to vary either up or down in frequency. Since the satellite sees you as 'moving' it will experience doppler shift on your uplink frequency. The doppler factor provided, although not real accurate, is a 'ball park' indicator as to where your uplink frequency needs to be. Most programs will display the shift factor in kilohertz with a "+" or "-" to indicate the direction of shift.

There we have it, basic information to find our satellite. Next time, we'll discuss

what sort of equipment is needed (or not needed) to set up a functioning satellite station.

73 de Tom, WA9AFM

Windows Terminal Program for Packet Radio

This is from the August 1993 *Worldradio* magazine section, "With the Handi Hams".

A great adapted packet setup---you may already have it in your shack!

Did you know that if you are using the IBM-PC or compatible and are running Windows 3.0 or above you have a fine adaptive setup that can be used by a person with physical disabilities to operate CW and digital modes?

Yes, the terminal program supplied with Windows works great for packet or other modes when used with the KAM or KPC-3 TNCs, and its function keys are mouse-controlled, so a person with very limited hand function can use a trackball, headball, headstick, or other adaptive hardware to bypass many keystrokes. What may have been a tedious or impossibly slow task for a person with limited hand movement can now be a breeze if the program's function keys are set up to do the jobs of streamswitching, connecting to nodes, setting CW speeds, sending strings of text, and so on.

Advantages are:

1. Windowed operation. Perform other tasks, such as word processing, with your packet window running on another part of the screen.
2. No extra software to buy if you are already using Windows.
3. Configure as many terminals as you want so you have one for CW, another for AMTOR, several for different types of packet operation, and so on.
4. Function keys show at the bottom of the window. These may be configured to allow streamswitching, mode changes, connects to specific nodes, and so on.

Getting started, to set up a terminal program, here's what you do:

1. Start Windows and select ACCESSORIES section of the PROGRAM MANAGER.
2. When the terminal comes up, click on SETTINGS.
3. Click on TERMINAL EMULATION, then click on GENERIC.
4. Click on OK, then click on SETTINGS again.
5. Click on Communications then click on 1200 (or whatever baud rate that you have already assigned to your TNC), 8, 1, PARITY None, Xon/Xoff, and COM1. Then click OK.
6. Save the configuration that you have made so far as KAM.TRM. Do this by choosing SAVE AS from the FILE menu, then typing KAM.TRM and choosing OK.
7. Test the configuration by closing, then opening KAM.TRM to see if it "talks" with your TNC. You may not have any other terminal program running at the same time, or the COM port will be engaged and you will see an error message. Note: If you are using COM 2, 3, or 4, choose that port from the COMMUNICATIONS menu.
8. When the TNC signs on, you will see packets scrolling on the screen. Press ENTER to get the CMD: prompt. If you cannot get a CMD: prompt, close and re-open the terminal or click HANGUP from the PHONE menu and press ENTER again.

Configuring the function keys:

Before you configure the function keys, you need to do a little planning. Let's say that most of your activity will be on 145.05. The first screen that comes up should then have function keys that will easily connect you to the nodes, PBBSSs, or call signs that are active 145.05.

1. Choose FUNCTION KEYS from the SETTINGS menu of KAM.TRM.
2. Click on KEY LEVEL 1.
3. Use the mouse to place the cursor in the KEY NAME box next to F1. A local node that you want might be TLAN, so you type TLAN in the box.
4. Use the mouse to move the cursor to the COMMAND box just to the right. Type C TLAN^M and click on KEYS VISIBLE,

then OK. The FUNCTION KEYS box will disappear and the terminal screen will be up with function keys visible, though only the first one will have an entry (TLAN). Click on TLAN and the connection will be made. (Use the node of your choice instead of TLAN.)

5. Next, configure a function key to connect to a favorite PBBS. The one I use is WB0GDB, so I would create a function key by using the mouse to place the cursor in the box next to F2, then I type WB0GDB and move the cursor to the box just to the right, where I type C WB0GDB^M.

6. Now how about some commands? Configure the next several keys to tell the PBBS what to do:

Key name	command	description
LIST	L^M	Lists messages
RM	RM^M	Reads message to you
BYE	B^M	Disconnect

and so on. You get the idea! Remember to include the ^M as part of any command that would ordinarily require a carriage return. ^M takes the place of "ENTER."

7. If the PBBS commands took up all of the function keys at the bottom of the screen, don't worry; just bring up the FUNCTION KEY menu again and click on LEVEL 2. Now you have another set of blank keys to fill!

8. Next, you may wish to set out some keys to be used for control of the TNC:

Key name	Command	Description
COMMAND	^C	Changes TNC to command mode
CONVERSE	CONVERS^M	Changes TNC to converse mode
IDENTIFY	ID^M	Force an ID packet
BEACON ON	B 0/120^M	Turns on VHF beacon
BEACON OFF	B 0^M	Turns off beacon
HF-A~	A^M	Changes to HF radio, A stream
VHF-A	A^M	Changes to VHF radio, A Stream
UNPROTO ID0	UNP ID^M	Inserts "ID" in place of CQ
CW 20	CW 20^M	Changes mode to CW 20 wpm
EXIT MODE	^CX	Exits mode; return to packet

Got the idea? You can set up separate terminal files for each mode if you want, and the FUNCTION KEYS can even be used to send longer strings that contain information such as your name and QTH, longer "brag" can be sent as a text file using the TRANSFERS menu at the top of the screen.

A person with quadriplegia or severe arthritis might have a large collection of short text files that could be sent during a QSO to avoid fatiguing the wrist and fingers. And files containing hundreds of keystrokes can be sent with only a couple of mouse clicks.

Windows is a truly versatile program, and it has adaptive possibilities for ham operators with disabilities, but it is not the only software out there! Many other programs offer user-tailored features, and some even incorporate rig control. But if you already have Windows, you may want to take advantage of its fine terminal program and its link to many other programs written specifically for Windows operation, especially if you like to use your computer for other things, then check quickly into what's happenings on the band!

If you have successfully tried the Windows Terminal with other TNCs besides those made by Kantronics, or if you have found other off-the-shelf software that is easily adaptable to help persons with disabilities, I'd like to hear from you.

My packet address is WA0TDA @ BBSGDB.MN.USA.NA

Although I'm not handicapped (& there are some who ? that), I got it to work and it's OK, and for anyone with Windows, it's like a free packet program. Most of the typing was done by Ethel KB5WRY, & some by Fred N5NIO.

73 de Fred, N5NIO @ K2GKK

Let's hear from those technical types out there. I know there are plenty of you reading this, start putting you expertise on paper for others!!

The Editor

PROPER CARE OF FLOPPIES

1. Never leave diskettes in the disk drive, as data can leak out of the disk and corrode the inner mechanics of the drive. Diskettes should be rolled up and stored in pencil holders.
2. Disketts should be cleaned and waxed once a week. Microscopic metal particles can be removed by waving a powerful magnet over the disk. Any stubborn metallic shaving can be removed with scouring powder and soap. When waxing the diskette, make sure the surface is even. This will allow the disk to spin faster, resulting in better access time.
3. Do not fold diskette unless they do not fit into the drive. "Big" diskettes may be folded and used in "little" disk drives.
4. Diskette can not be backed up by running them through the Xerox machine. If you need to back up your data, simply insert two diskettes into the drive. Whenever you update a document, the data will be written on both diskettes.
5. Never insert a diskette into a drive upside down. the data can fall off the surface of the disk and jam the intricate mechanics of the drive.
6. Diskettes should not be inserted or removed from the drive while the red light is flashing. Doing so could result in smearing or possibly unreadable text. Occasionally the red light remains flashing in what is known as a "hung" or "hooked" state. If yoursystem is "hooking" you will probably need to insert a few coins before being allowed access to the slot.
7. If your diskette is full and you need more storage space, remove the disk from the drive and shake vigorously for two minutes. This will pack the data enough (Data Compression) to allow for more storage. Be sure to cover all the openings with scotch tape to prevent lose lose of data.
8. Data access time can be greatly improved by cutting more holes in the diskette jacket. This will provide more simultaneous access points to the disk.
9. Diskette may be used as coasters for beverage glasses, provided that they are properly waxed beforehand. Be sure to wipe the diskette dry before using.
10. Never use scissors or glue to manually edit documents. The data stored is much too small for the naked eye, and you may end up with data from some other document stuck in the middle of your document. Razor blades and scotch tape may be used provided the used is equipped with an electron microscope.
11. Periodically spray diskette with insecticide to prevent viruses from spreading.



December 1, 1994 to December 31, 1994 Schedule of Events:

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
				1 7:00p.m. Aeronautical Center 7:30 p.m. CARS	2	3
4 2:00 p.m. MORI VE Exams 2:15 p.m. Great Plains	5	6 7:00 p.m. MORI	7 Pearl Harbor Day 	8 7:30 p.m. Altus Assn	9 C&E Deadline December Issue	10 9:30 a.m. SCARS 10:00 a.m. SCARS VE Exams
11 2:30 p.m. Wheatstraw	12 7:00 p.m. EARC	13	14	15	16 6:30 p.m. EARS	17 9:00 a.m. VE Exams (RSC) 11:00 a.m. VHF Club
18	19 6:00 p.m. CORA VE Exams	20 7:30 p.m. OCAPA	21	22	23	24
25 Christmas  Day	26	27 7:00 p.m. Shawnee VE Exams 7:30 p.m. CORA	28 C&E Deadline January Issue	29	30	31 New Year's Eve 

ARRL Bulletins (Con't)

Rocky Mountain Division for Director,
Marshall Quiat, AG0X, 1371.
Ted Colby, W0RA, 507.
Whit Brown, WB0CJX, 443.

Central Division for Vice Director,
Howard Huntington, K9KM, 1951.
Mike Hoshiko, W9CJW, 1579.
Ken Ebner, K9EN, 1059.

Northwestern Division for Vice Director,
Gregory Milnes, W7AGQ, 2506.
Clay Freinwal, K7CR, 2301.

Roanoke Division for Vice Director,
Dennis Bodson, W4PWF, 2758.
Robert Pattison, KM4DU, 1190.

In each case the candidate receiving the greatest number of votes was declared elected. The terms of office are for two years, beginning at noon January 1, 1995.

ARRL Bulletin 88

The ARRL's Joint Resolution supporting amateur radio was signed into law by President Bill Clinton on October 22, 1994. The resolution passed both houses of Congress on October 7. The new law, PL 103-408, asks for "reasonable accommodation" in the operation of amateur radio in homes, automobiles, and public places. More information on this successful League initiative appeared in QST for September, October, and November.

ARRL Bulletin 89

Actions on digital plan

The ARRL has filed reply comments on FCC PR Docket 94-59, that proposes to allow automatic control of digital stations on the HF bands under certain specific conditions. The League said that it shared concerns filed by some amateurs, about

the possibility of interference to amateurs using other modes, and urged the FCC to adopt its original proposal for specific subbands and other restrictions.

The ARRL made essentially the same recommendation in its comments on the FCC proposal in early October. By that time, the FCC had received comments from 15 parties, eight opposed to automatic HF control, five supporting the League's proposal for specific subbands, and two supporting the ARRL plan but with additional provisions for avoiding interference.

The League said in its reply comments on November 1 that since some parties suggest no restrictions, while others advocate no changes at all at this time, that it, the ARRL, favored a middle course, as it originally had proposed (and was the basis of the Notice of Proposed Rule Making).