OKLAHOMA CITY VOLUNTEER EXAMINER PROGRAM

On Monday night, February 25, 1985, the Volunteer Examiner (VE) program will become a reality in the Oklahoma City area. We will be offering for the first time examinations for Technician, General, Advanced & the Extra Class licenses.

It was decided that there was a real need for this program in Oklahoma City. As far as was known, there was no organized effort to have the VE program in Oklahoma City, therefore, anyone interested in taking an examination had to travel out of town to do so, since the FCC no longer is giving the examinations.

At one of the monthly C.O.R.A. meetings, President Whited, WN5NWX, asked me if I would check into getting the program started in Oklahoma City. At first we considered going through the ARRL VEC, however, later decided to go through the W5YI VEC program in Dallas. At the present time, there are only two accredited VEC's nationwide, that being the ARRL and W5YI.

At the present time, we have approximately 10 approved VE's in our group working through the W5YI VEC program. Only Amateur Extra Class license holders can be approved through W5YI. It is this team of amateurs who will be responsibile for giving the examinations.

At a recent planning meeting of the VE's, it was decided to hold our first examination during the month of February. Several decisions had to be made, such as a meeting place and times in order to inform our VEC, who in turn has to notify the FCC. We also had to have ample time to properly advertise the giving of the examinations, such as in the C & E, over repeaters, etc.

We are planning on giving the examinations monthly. No one day of the week is satisfactory for all people, including the VE's. At this time, we do not know if we will leave the examination time on a week night, or if we will go to a weekend. However, until further notification, the testing day will be the fourth Monday night of each month, at the Red Cross Center in downtown Oklahoma City, located at 10th and Hudson streets.

The following will be the schedule for our first testing session:

6:00 - 6:30 pm Orientation meeting for all applicants.

6:30 - 7:00   Code examinations, beginning with the 20 word per minute, followed by the 13 w.p.m. and then 5 w.p.m. if necessary.

7:00 - 8:00   Written examinations for all classes of licenses.

The following are specific instructions for the examination and hopefully will answer most questions.

1. There will be NO "Walk-in" applicants on our first examinations. To take the examinations on February 25, you must have sent in your FCC Form 610 to the Contact VE. This Form 610 must be received by me no later than Wednesday, February 20, 1985. Mail the form in plenty of time. If you do not have a 610, call me.

2. Only FCC Form 610's dated June 1984 can be accept-

WEATHER MEETING FEBRUARY 19th

MEETING STARTS: 7 P.M.
DOORS OPEN: 6:30 P.M.

PROCEDURES / NET CONTROLS
PROGRAM / RICK TASETANO

OKLAHOMA CITY AUTOPATCH ASSOCIATION
A SPECIAL THANKS TO THE AERONAUTICAL CENTER ARC

**** LOCATION ****
HEADQUARTERS BUILDING, F
S. MacARTHUR

AN OVERVIEW OF THE NEW VE PROGRAM

ed. Any form dated prior to this date will not be accepted by the FCC, the VEC or the VE's.

3. A copy of your present license, if you have one, must be attached to your Form 610. Send a copy, not the original.

4. There will be a $4.00 fee to take any examination, other than Novice. DO NOT send the $4.00 with the Form 610. This will be collected on the date of the exams. We will not accept personal checks. Cash only, and try and have the exact change, please.

5. Bring identification. Every applicant will be required to show a driver's license. If too young to own a driver's license, some form of proper identification will be required. It will make no difference if all the VE's know the applicant, EACH applicant will still be required to show proper identification.

6. When filling out the FCC Form 610, be certain to check the appropriate box as to the examinations you wish to take. As an example, if you presently hold a General license and desire to take the Advanced examination, thinking that if you pass the Advanced, you will also try for the Extra Class, you must check on the Form 610 that you are requesting the examination for the Extra Class license rather than the Advanced. In order to take the Extra Class examination, you must first pass the Advanced. Unless you have checked the proper box, you would not be allowed to take the Extra Class examination if you do pass the Advanced.

7. It is essential that you attend the Orientation meeting beginning at 6:00 p.m. on the examination date. We will check you in, take your $4.00 examination fee, and go over the Form 610 with you and explain the testing procedures. Be on time.

8. Bring two or more soft leaded pencils. You may bring un-programable calculators. Bring nothing else.

9. As the Designated CONTACT VE, you must send your FCC Form 610 to me:

Chuck Wilhite, K5NK

P. O. Box 32001

Oklahoma City, Okla. 73132

10. If you have any questions or need a Form 610, contact me at: Res.: 721-4926

Off.: 721-6225

This article is intended to update those wishing to upgrade, prospective new licensees, and the amateur population in general with respect to the new VE program.

The FCC last gave amateur radio exams in November 1984 on a quarterly basis. Since then it has been up to each local area to have three or more VE's (Volunteer Examiners) give amateur exams.

One critisism of our hobby in 1984 was that it showed no growth. In fiscal year 1983, 20,940 people obtained new licences versus 18,800 in 1984. Also in FY 1983 23,542 upgraded versus 16,184 in FY 1984. Since the FCC went to quarterly testing, there was a decline, as there was less oportunity to get a new license or upgrade. But hopefully the new VE program will change that, since there will be many more test sites available plus closer sites than Dallas. (See Chuck Wilhite's article in this issue on the requirements to take the tests here in Oklahoma City on February 25).

Another statistic quoted a lot lately is that there is a lower pass rate with the VE's. It is my personal view that this is due primarily to people not studying the new material. The material over 6 months old, are not geared to the new tests. The questions were changed in November 1984.

"YOU GOTTA STUDY THE NEW, RIGHT MATERIAL."

If you are taking a ham license course as a student, or teaching one--if you are not using the the new study guides, You'll be " spinning your wheels" and contributing to the low pass rate.

The VE's are using the VEC (ARRL or W5YI here in Oklahoma) approved tests. Currently only West Radio and Ameco have the only approved materials we will be using. Tests are sold to VE's only. Study manuals geared to the new tests may be obtained by the public from :

Gordon West's School of Radio

2414 College Drive

Costa Mesa CA 92626   and from

AMECO

220 East Jerico Turnpike

Mineola NY 011501

West's ar $19.95 per manual and are all available "Tech/General, Advance, Extra--$19.95 each). Only one or two are available from AMECO -the Advance for sure- for only $4.95. It will be March or later when Ameco will have all of them ready. Until about May the VE's giving the test (Chuck Wilhite's group) will be using West materials--enough said.

Currently we plan to test once a month here in Oklahoma City, unless the demand dictates more or less testing. Regardless of the grumblings heard about the new approach, this is the way we are MANDATED to test. We really could wait and watch it work in 1985 before passing judgement on it. At least we won't have to drive clear to Dallas and testing will be available right here monthly.

Doc, KX5W

LOOK AT YOUR LABEL

IS IT CURRENT? WE ARE GOING TO RUN A ROSTER NEXT MONTH. IT WILL REFLECT WHAT YOUR LABEL SHOWS. IF YOU HAVE PAID UP IN THE LAST MONTH IT MAY NOT HAVE BEEN ENTERED YET.

FCC's New Form 610: A *QST* Interview

By Rick Palm,* K1CE

Forms are to Washington as antennas are to hams. Just as antennas have evolved to meet today's high-tech standards, so too has the FCC's Form 610, our old friend who changes his ways every so often to keep up with a fast-paced Amateur Radio world. I had the opportunity to chat with a newly revised Form 610 recently. The exclusive interview follows.

QST: Welcome!

610: Thanks. It's nice to be here. We've really needed a change because so many exciting things are happening in Amateur Radio, like the new Volunteer Exam Program. My predecessor just couldn't handle the demands of this rigorous new program.

QST: Is that one of the prime reasons for a new Form 610?

610: Sure is. Half of me is devoted to new volunteer exam procedures.

QST: Can you tell us a little about yourself?

610: Non-hams come to me when they're ready for their first license. Hams come to me when they want to renew or modify their licenses. Also, when they're ready to upgrade, I serve as an information source to my friends, the Volunteer Examiners, Volunteer Exam Coordinator and their friends at the FCC in Gettysburg.

QST: Do you handle reciprocal operating requests and other kinds of station licenses?

610: Nope. Foreign hams wishing to operate here in the states have to see my cousin, FCC Form 610-A. And, hams with FCC licenses for club, RACES and military recreation stations must deal with another cousin, FCC Form 610-B.

QST: Can you tell us how to fill out your Section I?

610: Sure. This section must be filled out by everybody who is renewing, modifying or testing for their licenses. First, make sure to attach a copy of your license. Check Box 2A *only* if you're renewing your license with *no other changes*. If you want to renew your license *and* change your mailing address, then check 2H. Requests for license modifications always result in the change, and *automatic* renewal for another 10 years. If FCC sees Box 2A checked, they'll renew your ticket, period. The other items in Box 2 are clear and straightforward: just check the modifications you are applying for.

QST: Would you clarify the Commission's call-sign policy for us?

610: Call-sign policy is an important matter. In fact, most questions I receive deal with call signs. The Commission assigns calls systematically, and does *not* honor requests for specific letters and/or numbers. Calls are issued sequentially from lists, and are assigned according to the licensee's mailing address (call-sign area) and license class. No exceptions! If you want to keep your present call, no problem. But, don't check

*Acting Manager, Membership Services Department

box 2E! If you do, you'll have a new call, and no way of getting your old one back.

QST: How about the rest of Section I?

610: Pretty straightforward. Remember that a "mailing address" is the address where you'll receive official FCC mail. It can be a P.O. box or street and number. The "station location," however, must be a specific geographic location so if the FCC has to find your station for some reason it can. Don't put a P.O. Box number in the station location box. Both addresses must be in the U.S., its territories or possessions.

QST: Could you please explain box 9 — major actions?

610: Most hams will check "no" in this box. A

major action is defined as (a) a new antenna or structure, or an increase in height of any existing structure by more than 10%, which results in a final height of over 300 feet, (b) facilities to be located in an officially designated wilderness area (such as Capitol Hill in August!), wildlife preserve area or a nationally recognized scenic and recreational area or facilities that will affect sites significant in American History, and (c) construction that involves extensive changes to surface features. If you check "yes," than you have to file an Environmental Impact Narrative Statement (EINS).

QST: What's the purpose of the exam question, item 13?

610: Simple. Folks that have failed an exam within the last 30 days will have their upgrade applications bounced. The FCC requires that a candidate be retested no sooner than 30 days after failing an exam.

QST: Any advice about the signature box?

610: Yes! Don't forget to sign and date your application! Also, the signature *must* match the name in box 5. If not, we'll bounce the application right back to you.

QST: Where should hams send you when they're applying for renewals or modifications of their licenses?

610: They *must* send me to FCC, Gettysburg, PA 17325. My friends and I will make sure they get a prompt reply!

QST: Judging from your job description, it looks like you have a great responsibility in the new volunteer exam program.

610: Indeed. I'm responsible for seeing that the Volunteer Exam Team (VET) and Coordinators (VEC) as well as our Gettysburg office, get the facts they need to determine whether an applicant gets that new ticket.

QST: Can you tell us a bit about your Section II?

610: Delighted, I'm sure. Because the exam process differs between the Novice and the higher class tickets, there are two subsections in Section II. Section II-A is completed by the volunteer examiner who has passed a Novice applicant. It's very straightforward: The information provided by the VE helps the FCC determine if he/she meets the VE requirements. The VE must send the form to Gettysburg within 10 days of the successful exam.

QST: How about Section II-B?

610: This section deals with Technician, General, Advanced and Extra class exams. Applicants must fill out Section I. If advance registration for a test session is required, make sure the completed form is in the hands of the Volunteer Exam Team prior to the registration cut-off. If advanced registration isn't required, applicants simply bring their forms to the test site. They should also bring exam credit items if they have them, and two forms of ID.

Before the test, the VET fills out the VET report for each applicant, checking the appropriate boxes, giving exam credit wherever

due. The Team gives the code exams first — 5, 13 and 20 WPM in order. It grades each test as it is completed. Then, same goes for the written elements — the VET grades each test on the spot, and fills in the appropriate boxes in the VET report. If the applicant fails to upgrade, the application is returned. If he or she passes, the VET enters the name of the VEC in Item F of the VET report. The place and date of the examination must be entered as well.

QST: How does the VET member fill out II-B?

610: Actually, all three VET members get involved in this section. Each must put in the information that qualifies them to be VEs in the first place. It's a way the FCC can keep tabs on who's giving exams.

QST: Where can folks find out more about the new Volunteer Examiner Program?

610: You should know that! Check out *The FCC Rule Book* published by you folks. It's all there: all the rules for examiners, applicants and volunteer examiner coordinators. Some rule modifications did come up recently, though, and hams should check out your September and October 1984 Happenings column in *QST*.

QST: Yes, of course. We also ran an article on the ARRL's own Volunteer Examiner Program in the September issue. We're very proud of our role in the evolution of this exciting new program.

610: Good show! My job is to make the record-keeping aspects of the VEP as simple as possible.

QST: Is there anything else you'd like to say in closing?

610: Yes, two things. One, hams will be glad to know that we've removed the often-confusing

antenna question on my predecessor, and decided to hire a new cousin of mine, the FCC Form 854, to take care of this issue. If your antenna will be erected over 200 feet high, or 1/100 of the minimum distance between the antenna site and any aircraft landing area, you should get together with a Form 854, available from any FCC field office or from ARRL Hq.

Finally, it's been a pleasure working with hams. Lots of folks don't like the fact that there are so many of us form types here in D.C., but hams have been good with me. I think my new format will help everybody understand and appreciate the Commission's exam and license procedures much more fully. Thanks for stopping by for this nice chat!

QST: Don't mention it. Thank you for your time.

Conducted By Katherine Hevener,* WB8TDA

Washington Mailbox

Licensing: The First Step

This month, we will examine the types of Amateur Radio licenses, eligibility requirements, license terms and the procedure for obtaining and/or modifying an existing one, as well as other matters of importance.

Q. Reference is constantly being made to the terms "station license" and "operator license." What's the difference?

A. The ticket that is issued to every amateur by the FCC, upon successful completion of appropriate examination elements, consists of an operator license and a station license. Section 97.3(d) defines an operator license as "The instrument of authorization including the class of operator privileges." It gives the license holder the FCC's permission to operate an Amateur Radio station.

The station license, on the other hand, is defined as "The instrument of authorization for a radio station in the amateur radio service." It contains the station call sign (97.3[d]).

Q. Who is eligible for an Amateur Radio license?

A. According to Section 97.9, "anyone except a representative of a foreign government is eligible for an amateur operator license." Although FCC no longer asks on the Form 610 if an applicant has been convicted of a felony, the FCC does screen out applicants who have had their amateur licenses revoked. Such people may be barred from a new license for a year after the expiration of the revoked ticket. FCC also screens applicants who have been disciplined for CB offenses.

Q. So, how do I get an amateur license?

A. You must complete a Form 610 (available from ARRL Hq. or any FCC field office) and submit it to Volunteer Examiners prior to administration of the test for the class of license you desire.

Q. How long will my license be valid?

*Membership Services Assistant, ARRL

A. Ten Years. The term was changed from 5 years earlier this year.

Q. My Novice license was issued in 1980. When will it expire?

A. Your ticket will expire in 1985, since all licenses, regardless of the class, become invalid on the date shown on the ticket. When you renew or otherwise modify it, however, both your operator and station license will be valid for 10 years, rather than five (97.59[a][b]).

Q. How do I go about renewing my license?

A. You must submit a completed Form 610 with a photocopy of your license to the Commission's office at Gettysburg, Pennsylvania. According to Section 97.13(c), "Application for renewal of unexpired licenses must be during the license term and should be filed within 90 days, but not later than 30 days, prior to the end of the license term. In any case in which the licensee made timely and sufficient application for renewal of an unexpired license, no license with reference to any activity of a continuing nature shall expire until such application shall have been finally determined."

If your license has already expired, you must immediately terminate your operating activities and concentrate on obtaining a valid ticket. You must submit an application for reinstatement of a license that was issued prior to January 1, 1984 at any time during a five-year grace period. But your station will be assigned a new call if you wait more than two years. In other cases, you can have your license reinstated within two years of its expiration. Section 97.13(d) states that "A license renewed during the grace period will be dated currently and will not be back dated to the date of its expiration."

Q. What procedures must our club, The RATS, follow to obtain a special-events call to commemorate the invention of generic brand rat killers?

A. The FCC no longer issues special-event station call signs. Thus, you will have to use a valid club call or that of a member to celebrate this memorable occasion.

Q. A club in a neighboring state has its own call sign. Why can't we get one?

A. Because the FCC stopped issuing new club, RACES and military-recreation station licenses. The club in your neighboring state may continue to apply for renewal of its station license, however, since the FCC still renews club, RACES and military-recreation group station licenses.

Q. How do we go about renewing our club license?

A. Simply have the station trustee complete Form 610-B and send it to the FCC office in Gettysburg, Pennsylvania, along with a Form 610 for renewal of his or her primary station license. Note: Your club license is bound by the same terms that exist for operator and station license renewals.

Q. My license was stolen. Can I get a replacement?

A. Yes. You may obtain a replacement bearing the same date as the original by submitting a statement to the FCC office in Gettysburg explaining the circumstances under which the license was lost. If you later find your original license, you must return it or the duplicate to the Commission's Gettysburg office (97.57 and 59[c]).

Q. What will happen to my license if I intentionally or unintentionally violate an FCC rule?

A. The FCC does not distinguish between intentional and unintentional offenses. Thus, if you are found in violation of a rule, you will receive an official notice of violation from the FCC. Upon receipt of such notice, you will have 10 days in which to submit a written response explaining the cause and solution to the problem directly to the office of the Commission originating the official notice. You will be allotted additional time to respond to a notice of violation if illness or other unavoidable circumstances prevail. Failure to respond will most likely result in the implementation of revocation and suspension proceedings (97.137).

1 AERONAUTICAL CENTER ARC
MEETS: 7:30pm First Thursday Flight
Standards Bldg., FAA, S. Macarthur

PR	WB5SVN	Jack Iman	677-8537
VP	K5LDI	Tom Mangham	677-5291
Sec	WD5JPW	Gloria Seignious	722-1740
Tr	WA5CJG	Bob Pace	376-3569
EDITOR: Gloria Seignious, WD5JPW			722-1740

2 OKLAHOMA CENTRAL VHF CLUB
MEETS: 10:00am Third Saturday. Red Cross.
10th & Hudson(Back door) Okla City.

PR	KD5IS	Jerry Wetmore	524-5080
VP	N5PS	Pat Sherrill	943-3219
SE	K5JB	Joe Buswell	732-0676
TR	W5KE	Ellard Foster	789-6702
EDITOR: Joe Buswell, K5JB			732-0676

3 MID-OKLAHOMA REPEATER, Inc.
MEETS: 8:00pm First Tuesday. Okla City
EOC. 4600 N Eastern

PR	N5EPV	Bob Allen	Unlisted
VP	N5GRA	Bob Gambel	672-9294
SE	N5HII	Elise Northern	376-4287
TR	W5KOZ	Sid Gerber	737-1050
EDITOR: Elise Northern, N5HII			376-4287

4 OKLAHOMA CITY AUTOPATCH ASSOCIATION
MEETS: 7:30pm Third Tuesday. Okla City
Fire Training Center. 800 N Portland

PR	WB5NDO	Kathy Whited	799-1457
VP	N5GWZ	Bob Northern	376-4287
SE	N5DLM	Vicki Adkins	722-6195
TR	KE5N	Ron Recer	341-7030
EDITOR: Bob Northern, N5GWZ			376-4287

5 OKLAHOMA UNIVERSITY AMATEUR RADIO CLUB
MEETS: 7:30pm Second Tuesday (Sep-May)
119 Wilson Center. 1334 S Jenkins

PR	KA5BAY	Luke Noah	325-1775
VP	KE5N	John Wustenberg	325-2382
SE	KA5COI	Peter Richeson	329-3217
TR	KA5LZN	Greg Smith	366-1641
EDITOR: Greg Smith, KA5LZN			366-1641

6 ALTUS AREA AMATEUR RADIO ASSOCIATION
MEETS: 7:30pm Second Thursday
North Main Fire Station (CD) Altus

PR	WB5KRH	Dwight Dennis	482-2498
S/T	W5VXU	Mike Schenkle	482-1797
EDITOR: Mike Schenkle, W5VXU			482-1797

7 BICENTENNIAL (76ers) ARC
MEETS: 7:00pm Second Tuesday. OG&E Bldg.
SE 3rd & E. K. Gaylord Blvd.

PR	AE5N	Donald Duck	691-4199
VP	WD5JNT	Ted Vanlaningham	262-1675
SE	N5AUH	Jerry Sproul	354-2061
TR	WA9AFM	Tom Webb	737-6716
EDITOR: Jim Seals, KB5XN			381-2005

9 WHEATSTRAW AMATEUR RADIO CLUB
MEETS: 2:30pm Second Sunday. Location
varies. See club section.

PR	WA5JHB	Harvin Stokes	893-2221
VP	N5EMD	Virginia Beneda	825-3302
S/T	K5GGL	George Maschino	263-7614
EDITOR: Richard Ruhle, WD5GLD			375-4843

12. QUARTER CENTURY WIRELESS ASSOCIATION
MEETS: Quarterly at various places.
NET: 3855 kHz Sunday at 8:00 am.

CHM	W5NL	Fred Boardman	427-2505
VCH	W5TY	Ray Long	942-4314
S/T	W5AS	Howard Baker	721-5453
EDITOR: Robert Runyon, AAØO			373-1818

13 KAY COUNTY AMATEUR RADIO CLUB
MEETS: 7:00pm Third Thursday
Ponca City EOC

PR	N5HIC	Paul Davis	765-2227
VP	WA5UBO	Marsh Pronneke	363-2526
S/T	KD5FX	Dave Land	762-8616
EDITOR: Dave Land, KD5FX			762-8616

14 CIMMARON AMATEUR RADIO ASSOCIATION
MEETS: 7:00pm Second and Fourth Mondays.
Place varies. See club section.

PR	NN5Z	Jack Day	227-3462
VP	KA5DUO	Leo Peil	886-2996
ST	KA5SLY	Reeta Martin	227-3013
TR	N5FUN	Dede Bailey	
EDITOR: Ruth Simpson, N5FUR			227-2791

15 SOUTH CANADIAN AMATEUR RADIO SOCIETY
MEETS: 9:30am Second Saturday. Red Cross
Bldg., North OU Campus. Norman

PR	KD5IT	Dave Egle	321-7570
VP	N5BEW	Ken Esadooah	329-4667
SE	KA5AXQ	Joe Green	364-4301
TR	WB5RXZ	Monte Bateman	329-7485
EDITOR: Sam Barrett, WA5RPP			321-2601

16 EDMOND AMATEUR RADIO CLUB
MEETS: 7:00pm Second Monday. See club
section for location and type.

PR	WD5DYI	Mark Northcutt	755-4672
VP	WA5EAI	Ron Cron	681-0896
S/T	WD5DYJ	Kay Northcutt	755-4672
EDITOR: Mark Northcutt, WD5DYI			755-4672

18 GREAT PLAINS AMATEUR RADIO CLUB
MEETS: 7:30pm First Tuesday
Civil Defense room, Woodward courthouse.

PR	NC5C	Gerry Ford	256-5342
VP	W5KFK	Lewis Patterson	256-2111
SE	KA5PYA	Lois Ford	923-7683
TR	N5EOX	Freida Patterson	256-2111
EDITOR: Lois Ford, KA5PYA			923-7683

11 EDMOND AMATEUR RADIO SOCIETY
MEETS: Varies. See club section

PR	N5DBM	Ken Stepp	341-4874
VP	K5SKA	Bill DeMand	751-5137
S/T	KC5GN	Bill Wright	341-6076
EDITOR: Bill DeMand, K5SKA			751-5137

20 ARDMORE AMATEUR RADIO CLUB
MEETS: 7:45am Saturday. Corral Resturant
INFORMAL: Every Wednesday. 221 9th NW

PR	WD5FZD	John W. Merlyn	223-9543
VP	WA5IJA	Gene South	223-8252
SEC	W5JCX	Jim Chilcoat	226-6816
TR	W5BLW	Charles Dibrell	226-0589
EDITOR: Glenn Hamilton, KE5ES			226-4379

CENTRAL OKLAHOMA RADIO AMATEURS, Inc.
MEETS: 7:30pm Fourth Tuesday. Red Cross
Bldg 10th & Hudson Okla City

PR	WN5NWX	Reggy Whited	799-1457
VP	WD5ISS	Don Saunders	751-0404
SE	N5BEQ	Jim Buswell	236-0368
TR	WDØFTM	Linda Callison	751-3620
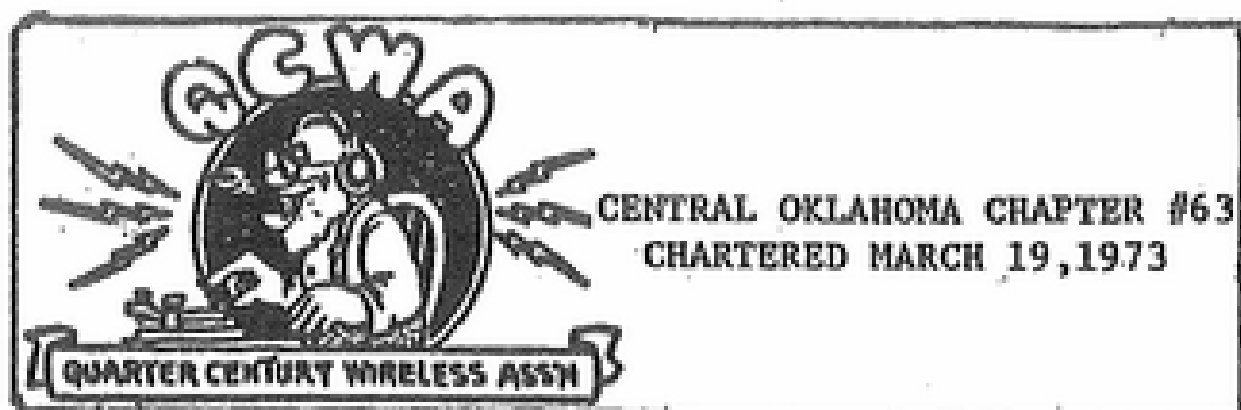
--ACTIVITY REPORT--

QCWA, Chapter 63 "On The Air Operation" for
December, 1984, as follows:

Sessions	5
Check-ins	203
Traffic	22

Birthdays during the month of December, 1984

DATE	NAME	CALL SIGN
1	Bill Malone	W5HIM
10	Cinnie Oldfield	XYL-W5AYL
10	Herman (Tiny) Irwin	W5NBH
19	Jaunita Stinson	XYL-W5OZE
19	Eunice Holt	XYL-W5DDI
25	Ned Leach	W5FIJ
30	Charles Sheaffer	W5WL

73, Howard, W5AS

During our Jan. 13, '85 Quarterly Meeting, an
affirmative vote to list birthdays (Month &
Date) in advance for monthly C& E listing.
Reason: members who do not check-in on Sunday
do not get a chance for this info or to ext-
end "Best Wishes". The lastings for this
month's C&E are for "Catch-up". Members ob-
serving omissions or misspellings please
inform Howard, W5AS.

QCWA BIRTHDAYS DURING JANUARY, 1985

DATE	NAME	CALL SIGN
2	Robert Runyon	AA0O
3	Corrine Wesenick	XYL-W5NQF
5	Cecil C. Cash	W5PML
5	Marguerette Dalby	XYL-W5OOE
5	Jeanis Phillips	XYL-AB5J
10	Ottis Cornelson	XYL-W5LHU
11	Mildred Drumeller	XYL-W5JJ
11	Myrtie Broudy	XYL-W5MCJ
16	Jo Ann Wilson	XYL-W5FLO
16	Bess Black	XYL-W5JCB
19	Donald J. Morris	W5TMM
20	Bertha Pokorny	XYL-W5UAU
20	Maudellis Cornelius	XYL-W5PHD
21	Gloria Runyon	XYL-AA0O
24	Pat Maier	XYL-W5RDE
25	Helen Smith	WA5WAR
28	Garnett Foster	XYL-W5KE
28	Larry J. Shima	W0PAN
28	Deann Nailon	XYL-K5DLE

QCWA BIRTHDAYS DURING FEBRUARY, 1985

DATE	NAME	CALL SIGN
1	Tom Stinson	W5OZE
2	Leland W. Smith	W5KL
5	Rilla Bolger	XYL-W5AXM
8	Fern McKinsey	XYL-W5YPN
12	R. I. Red Maier	W5RDE
17	Jerry Broudy	W5MCJ
21	Dorothy Engle	XYL-W5NDJ
21	John McCawley	W5OFG
24	Mary Bryan	K5PBE
25	Betty Wood	XYL-W5NUT

73, Howard, W5AS

AN OPEN LETTER
5 JANUARY 1985

Stewart Meyer, W2GHK
President, QCWA Inc.

Dear Mr. Meyer:

THE CASE FOR THIRTEEN (13) WPM
GENERAL CLASS CODE SPEED

In our opinion the standards are too low now.
A 23% reduction, in code speed from 13 WPM to 10 WPM,
is not what we call a small change. Thats a 23% re-
duction of the standard. Any time a standard is
lowered that much you better take a long look at the

reason for it.

Your stated reason, to ease the demand on Extra
Class Licensees, does not appear to be valid. Where is
the demand? Where is the shortage? We have been on
the air and active in Amateur Radio, both of us hold
Extra Class, and no one has ever stated that there was
a problem or asked us to help. For years the FCC sent
a man up from Dallas once every three months to give
the test in Okla. City and Tulsa. You had (8) times a
year that you could take the test. There was no prob-
lem for years with that system. Sure you had to want
to get a license bad enough to go to one of these
places at the appointed time. Don't we have enough
Extras to do that same thing now? We think so. It is
possible that there is a problem in some parts of the
country. If this is the case and there really is a
problem, then lets find another way to solve it.

Don't lower the Standards by reducing the code
speed to 10 WPM. If you think the standards are too
high now, just listen to ANY two-meter repeater, and
HONESTLY tell us that they need to be lowered more.
(When the lake's down, look out for stumps!)

As for raising the Advanced Code Speed to 15 WPM
and grandfathering all present Advanced Class Licenses
for this level, this is a much better idea. It would
raise the standard and solve the problem, (If there is
one.), all at the same time. This looks like the best
solution.

The only other thing that we could support, would
be to allow the present Advanced Class to administer
the General Class test.

You don't state how many years ago that the code
speed was 10 WPM. We've been hams for the last 30
years and it was before our time. Why was it raised
to 13 WPM those many years ago???

73,

Gene Nailon, K5DLE and Larry Watson, W5EIU
Members, QCWA Chapter 63
Oklahoma City, Okla.

January 9, 1985

Mr. Gene Nailon, K5DLE
Route 5, Box 135
Guthrie, OK 73044

Dear Gene:

I am in receipt of the "Open Letter" addressed to
Stuart Meyer, W2GHK, President of QCWA, regarding your
comments on the proposed rule change which would
specify General Class licensees pass a code test at
10 wpm, rather than the present requirement of 13 wpm.

I have relayed, immediately, your letter to Stuart
who. I am certain, will give every consideration to
your coments.

With regard to the shortage of VE qualified to give
General Class licenses, there are plenty of the Extra
Class licensees who could do so, and a fair number of
them have volunteered, and qualified themselves. How
ever, in discussing this with the VEC, we find that
many of the Extra Class fellows have done this, framed
the certification and then promptly opt-out leaving
a shortage of those willing to actually supervise and
schedule examinations. I cannot give you numbers, but
assure you that there is a shortage that has been made
known to the FCC. The 10 wpm proposal seemed to be the
only way the matter could be handled promptly. Perhaps
other means will be found.

In so far as when the 13 wpm requirement became law,
I do not know exactly, but about 1935-36. When I took
the exam, in 1929, it was 10 wpm and the 1934 rules
still show it as 10 wpm.

Sincerely,

W5EJ
General Manager, QCWA Inc.

cc W5EIU/W2GHK

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K4LMB

Larry Watson, W5EIU
Gene Nailon, K5DLE
2500 Adam Avenue
Oklahoma City, OK 73127

Dear Larry and Gene,

Thank you for the copy of your "Open Letter" regarding the general class code speed. A good many people have expressed similiar sentiments and I believe the proposed filing has been put on hold. If any filing is made in the name of QCWA, I think it will have to be for INCREASING the Advanced Class code requirement to 15 wpm. I believe the FCC has the authority to do that.

There doesn't seem to be any way of getting Congress (and it does have to be Congress) to permit the Advanced Class to administer the General Class test. Their interpretaion of the communications act is that the tester has to have higher qualifications in all elements of the examination - and that includes code speed.

Thank you very much for your letter. I wish more people would keep in touch with the QCWA Board and let us know their feelings. We are anxious to serve the interests of the members but we have to know what those interests are. Some times we may get started off on the wrong foot, but we will be glad to back track when we get called on it.

73,

Ethel Smith
Ethel Smith, K4LMB
National Director QCWA

THE RADIO AMATEUR TALKS

No one knows just when the first radiotelephone transmissions were made. Claims range from 1904 to 1908, with 1906 probably correct. These were made by experimenters, sometimes working as individual inventors, sometimes working for a "wireless" company. The CW RF was generated by an arc; vacuum tubes as CW RF generators came later.

There may have been some experimentation by amateurs with tubes as RF generators before the Kaiser War shut-down, but I've not read of such. After the war, when tubes became available at not too dear a cost, Continuous Wave transmitters were built by many Radio Amateurs. Although these primarily were radiotelegraph transmitters, it was easy to modulate the CW output with voice frequencies.

A carbon microphone in series with the antenna lead was just about as simple a means one could use. Or, you could make a loop of a turn or two around your plate tank coil, connect a carbon mic to the leads, and be on radiotelephony! Both methods were widely used for low-power transmissions. Another simple method involved the use of a "Magnetic Modulator." This was a two-winding device with a very small iron core. One winding was placed in series with the antenna, where it acted as an ineffective RF choke, cutting radiated power somewhat (by half, you hoped!). The other winding had a carbon mic and a battery in series. When the mic was spoken into, the varying direct current altered the core saturation, thereby modulating the RF power to the antenna. (Just as an aside, the first station I ever worked on fone without having made a prior schedule was using such a device. Neither of us was licensed but used initials as calls. This was in 1923. I'd been operating on code, first Spark and then CW, for several years.)

Some Radio Amateurs were more ambitious, wanting to use higher power and better techniques. These chaps generally used some form of Heising modulation, using a fairly large iron-core choke in series with the DC lead common to the plates of both the RF and AF tubes. This form of plate power modulation can be very good when properly designed and properly operated......but most of those used in the 20s and even part of the 30s fell far short in each of those categories!

Grid modulation, a form of efficiency modulation, was tried by a few but seldom worked satisfactorily. Grid modulation efforts ranged all the way from a mic in series with the gridleak to the secondary of a speech amplifier AF transformer in series with the gridleak. If you got the magic adjustment of RF grid drive, AF grid drive, and plate loading, acceptable speech quality could be had.... but seldom was!

By the start of the 30s, QST had published articles on Class B AF amplifiers. These were much more efficient than the Class A amplifiers used with Heising modulators. It didn't take long to convert Radio Amateurs to the use of Class B AF amplifiers

as plate power modulators. This really set off a surge of interest in fone construction. You could use inexpensive receiving-type tubes throughout the whole AF chain of a xmtr (an important consideration in Depression days, when a dollar was as difficult to come by as $100 is now!) and still end up with a respectable amount of well-modulated RF power.

Just about every Radio Amateur made his own transmitter,in the 20s and 30s. There were a few xmtrs on the market, but one could build a better one than he could buy. Most voice conversations you heard on 160 or 80 metres concerned one's station and the care and the originality with which it had been designed and constructed. By the mid 30s most were using manufactured receivers but home-constructed xmtrs were the most used until after the Hitler War.

Why did the Radio Amateur abandon building his own rcvr? Because the manufactured ones got to be better than the ones he could build! That is, unless one were very, very talented, had unlimited time, and had a well-equiped workshop.

Let's take a look at the evolution of a typical station rcvr from 1925 to 1935. It started as a simple "Detector and one stage" regenerative job. More AF was added, sometimes enough to run a speaker. Because antenna gyrations affected the note of the received signal, an RF stage was sometimes added, especially after screen-grid tubes became available. This could be an untuned stage (zero gain!) or a tuned stage involving an unwanted extra tuning control. Later ganged tuning became fairly common, removing the need for the extra control but at the expense of increased difficulty of construction and initial adjustment. These were good for Spark or CW telegraphy but sad indeed for radiotelephony; the selectivity was largely imaginary.

Even SSB appeared before the end of the 30s. I attended an "Engineering Day" exhibition at the University of Colorado in the Spring of 1933 and saw an SSB rig breadboarded on a table about six feet long! It would be interesting to know who built it! A student, no doubt, with the aid and advice of an instructor. But SSB never caught on in Radio Amateur circles until shortly after the Hitler War.

The years immediately following the Hitler War were pure "Hog Heaven" for the Radio Amateur! But that'll wait for another article!

W5JJ

Dateline-Forest Park, Oklahoma, 23 Jan.'85

So that all Chapter 63 members will be equally informed, two (2) letters are herein reproduced for this February C&E issue that evolved from the joint letter by Gene Nailon, K5DLE & Larry Watson, W5EIU (Subj. "The Case For Thirteen (13) WPM----). Permission to include these letters was obtained by Howard, W5AS from Ted Heithecker, W5EJ, QCWA General Manager. Since those who attended the 13 Jan. Quarterly Meeting obtained this info. first hand-it was felt advisable to afford all members this same info. (Ed Note) For now this appears to be a tabled issue, but I judge that some sort of a change to bring Advanced Class Amateurs into the picture (For General Exams) will take place somewhat pronto. I favor the Grandfathered 15 WPM. The two letters were reduced to required column width (4.6 inches). A further reduction takes place when C&E material is photographed--so you may need a magnifying glass; certainly your specs. Incidentally this material is of the type cited in an earlier issue relating to "FORUM" involvement.

Was very sorry to miss the Quarterly Meeting. Just two hours prior to the meeting time, was involved in admitting XYL Margaret to Baptist Memorial. Many many thanks to Ray Long, W5TY for taking over on such short notice & from many reports-a job well done. Those attending (42) have expressed-"A great meeting". What I am now typing is from notes jotted in hospital waiting room. Margaret with a very elusive malady-involves the kidneys. Treatable, but keeps reappearing as a

yo-yo type fever-two weeks now. First will
report the meeting happenings-obtained via
telecon!
        (1) Election Results: Gene Nailon, K5DLE
and Larry Watson, W5EIU were elected Direct-
ors for two (2) year terms. Howard Baker,
W5AS (unopposed) elected Secretary/Treasurer
for a two (2) year term. Most gratifying to
have have a large percentage of ballots cast
(about 80%) plus a very close tally for the
slate of Directors.
        (2) QCWA, Inc. 1985 Election: Via Chapt.
63's Sunday Net, Ted Heithecker, W5EJ queried
us to consider/vote to perform as "Tellers"
for this coming election (polls close 1 Aug.)
Our vote at the meeting was unanimous-To Ted
we are honored to accept this important task.
We will write El Paso Chapter 64 who volunt-
eered and accomplised the same type of task,
so well, last summer-to determine if they have
sage advice to offer. Many volunteers at the
meeting-other members will be contacted.
        (3) ARRL Booth-Ham Holiday '85: An alm-
ost unanimous affirmative vote for Chapter
63 to man this booth for approx. 12 hours.
Plenty of volunteers-other members will be
contacted. Herman (Tiny) Irwin, W5NBH has
volunteered to be the CORA Rep/Whip if you
please. Tiny-we assure you of ample, phys-
ical assistance to carry out this important
function. We may be able to plug QCWA along
with the booth but, a ruling not available
at this time.

        (4) Chapter 63 Constitution: Last year
we had agreed to rework our constitution to
include By-Laws, if appropriate. A Chapter
Manual (just published) is now in the hands
of Ralph Rea. Ralph Rea, W5AA (Chairman),
George Lagaly, W5NTL, and Don Rooker, NO5M
have agreed to this task. Perchance they
will change the titles "Chairman & Vice Ch-
airman"to President & Vice President. It
could be that in the not too distant future
we will elect a Lady/OW/YL as Ch. or VCh.-
I feel that President & Vice President will
work better.
        (5) Recognition: Past Presidents!!!
Red Maier, W5RDE, Ralph Rea, W5AA, and Carl
Drumeller, W5JJ were duly recognized and hon-
ored-replete with pictures taken by Ray Long.
It was really great to have Fed back in circ-
ulation. Also, many thanks for bestowing the
early memorabilia that we will find most use-
ful. One idea gleaned ---a photograph "Mont-
age" or plural that could be passed around
at meetings & other functions.

BITS 'N BYTES: We have many Home/Personal Com-
puter buffs (myself included) within Chapter
63. Thot this heading kind of appropriate
for input addenda:
        (1) Melvin, thanks once more for taking
on the News Editor chores and typing the C&E
inputs. Please continue to send your inputs
to Melvin Bolger, W5AXM, 2817 Lakeside Drive,
Oklahoma City, Ok., 73120-at least for the
March issue. (sub-sub Ed. Note). How about
some more front & back burner inputs from the
membership-all will be welcomed!!!
        (2) Carl, Tnx. for another excellent art-
icle,ie. "The Radio Amateur Talks" as a most
interesting facet of your Historical Treatise.
Had pleasure of reading ahead of publishing,
as Melvin mailed me all mat'l to deliver to
WA5ZNF, Joe. We also look forward to the next
follow-on.
        (3) Doc, KX5W-overlooked, in my notes,
your coverage of the VEC program at the Jan.
13th meeting. OKC area is about to embark
on first administering of VE examinations.
Leader-please look for elsewhere in this iss-
ue of C&E-by Chuck Wilhite, I think.
        (4) Intend to highlight something of our
recent "Down Under" trip for March C&E. Some
of goodies include: (a) Rent-a-car driving on
LH side of roads (RH drive), in Aussieland.
(b) Experiences with Metric System-now 10 yrs
old in Aus., (c) Mandatory seatbelt/harness
reqmt. $40 Aus. fine for first offense. (d)
Compulsory voting and also a fine for non-com-
pliance, (e) The Butcher Bird, (f) Most won-
derful & helpful people & naturally Radio
Amateurs & etc.   73, Fred (W5NL)

WHAT CAN I DO?

        Well, a home computer can do all the things
you generally associate with big computers. It
can, with the proper programing, solve complex
math- matical problems. It can store and
manipulate vast amounts of data. It can play
games, and it canprovide hours of frustration.
        In doing these things, the computer is
really only doing several simple tasks. The
magic is that it does them so quickly and with
such precision.
        Home computers were quickly integrated into
ham shacks when pioneering amateurs realized
the pote- ntial uses for them. These uses can
be catagorized into several general areas.
        DATA HANDLING   Hams keep extensive records.
Justabout   everyone   keeps   a   fairly
comprehensive log, but then there are the
awards hunters, DX'ers, and experimenters.
Each of these groups has a need for a system
to handle records of one kind or another.
        SIGNAL PROCESSING   One of the first ham
uses ofhome computers was in generating and
receiving Morse Code. Today, programs are
available that allow you to send and receive
messages in Morse, RTTY, ASCI and AMTOR. The
AMTOR system makes use of the computers
capabilities   to   insure   error   free
communication. It is also possible to send and
receive slow scan TV signals on balck and
white and color using home computers with
relatively simple interfaces. Other programs
allow reception of facsimile transmissions and
weather photos from satellites.
        TELECOMMUNICATION   Aside from the signal
pro- cessing capabilities the computer
provides, it has opened up several entirely
new methods of communication to the average
ham. Some examples of this are the mailbox
system, packet radio, and bulletin board
systems. Additionally, vast data bases are
becoming available with access costs within
the reach of the average ham.
        SIMULATION   This is a recent development in
the use of computers in the ham shack. The
Doctor DX CW contest program provides an
extremely realistic simulation of operation on
the ham bands. It is an impressive forerunner
of a new field of computer usage in the shack.
        The areas listed above are by no means the
only ones, just those that have immediate
appeal to hams. By no means overlook the pure
entertainment available from games, and the
creation of art in the form of pictures and
music on the computer. The latter areas are
just beginning to develop significantly.
        Of course, the utility uses of the home
computer are many and varied. Everything from
word proce- ssing to home security systems can
be implement- ed on a home computer. In coming
months we'll take a closer look at some of
these areas, the equipment necessary, and how
to get started in them.
        From The RARS EXCITER

HIGH FREQUENCE WIDE BAND LINEAR AMPLIFIER DESIGN

        If your style is designing your own gear, the
November issue of Amateur Radio, found in the ACARC
clubroom, has full detail on both the mathematics
and practical construction of a wide-band 75-W
amplifier. Its frequency range is from 1.8 to 30 MHz,
thus including a chunk of the MF along with all of
the HF spectrum.

        That issue has several other highly readable
articles.

                        W5JJ

FINDING SOMETHING IN A 1984 C&E MAGAZINE

There are three ways to find an item of
interest:

1. Look in the appropriate club section
   for the date involved.
2. Refer to the regular organization
   reports such as: ARRL SECTION, OKDX,
   COCO, Teleconference Radio Net, AMSAT
   news, and ARES.
3. Look for the subject of interest in the
   1984 C&E INDEX in this issue. Categor-
   ies one and two above are not included
   in the INDEX as such. However, articles
   from them are indexed. Articles of
   lasting interest or broad appeal are
   indexed. Look carefully on the refer-
   enced page since some index items are
   different from the article headings.
   Some articles have no headings at all!

                    Bill, WA5RAQ

W5PAA

ACARC Minutes
JANUARY 1985

Jack Iman, WB5SVN, President
called the January meeting to order at
7:40 p.m. with 21 members and guests
present.

Election of new officers were held
and they are:

Pres Jack Iman (reelected) WB5SVN
V P   Tom Mangham   K5LDI
Treas Bob Pace (reelected)   WA5CJG

The nomination for Secretary will
be held at the February meeting. Bob
Pace, WA5CJG, Treasurer will not be
able to attend the monthly meetings so
in the future all membership dues
should be mailed directly to Bob Pace.

Carl Drumeller, W5JJ, made a
motion that all associate members have
the right to vote and it was seconded
by Bob Pace, WA5CJG.

Our next club meeting will be held
Thursday, February 7th at 7:30 p.m. and
the program will be given by Ellard
Foster, W5KE, on obtaining surplus
electronics. Don't miss this one. Also
the March meeting program will be given
by Carl Drumeller, W5JJ, on antennas.
These programs promise to be very
interesting and informative so plan to
attend.

The meeting was adjourned at 8:40
p.m. for refreshments.

                    Gloria Seignious
                    WD5JPW

PRESIDENTS NOTES

It is about time I sat down and
print a few words about the past year
of '84 and the new year of '85.

First let me say it has been a
pleasure being the president of ACARC
for the past year, and it has also
been the fastest year to pass by with
many resolutions left unaccomplished.
I thank all the members for their
confidence in me and hope I can keep
it in 1985.

We had some excellent programs
this past year and I feel sure we will
have many more for this new year. We
have two very good programs lined up
for Feb. and March meetings and hope
to see a good turnout as usual.

I would also like to call upon
each and every amateur wherever he or
she might be to get out and
participate in one's club activites.
Furthermore, please help your officers
to arrange for the club programs. It
is all well and good to say "We have
club officers let them do it" but I
beleive one will find it more
fulfilling to pitch in and help share
those responsibilites.

I wish the best to each and all
in this new year of 85 and carry on in
the best traditions of Amateur Radio.

                    Jack O. Iman, WB5SVN
                    President ACARC

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ARES - An Opportunity for Service

What is the ARES, the Amateur Radio Emergency Service, and what is its purpose of existence? To what do its members aspire, indeed who can become a member and why should one wish to become involved with ARES? To whom are its services directed, and when are its services needed/asked for?

You, an amateur radio operator here in Oklahoma no doubt have your favorite operating modes and frequencies. You may enjoy operating VHF or UHF weak signal (moonbounce perhaps?) or maybe just two meter FM. Maybe your favorite amateur activity is HF DXing, traffic handling, or just meeting old friends and making new acquaintances via the airwaves. Perhaps collecting operating certificates or awards is your bag. But whatever that favorite amateur radio pastime may be, whether you realize it or not, that pastime you enjoy probably would not exist were it not for the good press and public accolade that amateur radio has received in times of public emergency. To quote the well-known phrase from the Basis and Purpose of the amateur radio service, "(For the) Recognition and enhancement of the value of the amateur service to the public as a voluntary non-commercial communication service, particularly with respect to providing emergency communications ", FCC Regulations Part 97.

Emergency communications, provided by trained, willing amateurs whenever that communication is needed by the public, that is what ARES is all about. And all of us amateurs can contribute our services, our equipment, our knowledge to the advancement of this worthwhile goal. Time and again amateurs have provided the first valuable contact with the outside world from inside the disaster area, in some cases maintaining that contact for many days until the commercial telephone service is restored. More commonly in a disaster, commercial public service radio circuits become so overloaded with important dispatches of equipment and manpower that agency and government officials turn to amateur radio to provide inter-agency communication or special point-to-point circuits.

ARES is the emergency preparedness arm of the Public Service Corps (ARPSC) sponsored by the American Radio Relay League. The National Traffic System (NTS) is the other arm of ARPSC and would provide medium and long-haul relay of messages (formal traffic) in an emergency. NTS is implemented on a daily basis by established Local, Section (statewide), Region, and Area nets. More on this in a later column - promise! RACES, the Radio Amateur Civil Emergency Service is another major provider of emergency communication and operates in the amateur bands under rules in Subpart F of Part 97. All amateurs are encouraged to register BOTH with ARES and RACES so that they can "switch hats" as necessary to fit the communication need at the time. Also, in the event of a national emergency (war), normal peacetime amateur radio operations would cease, but RACES would continue to operate under certain limitations. More information on RACES will appear in the future in this column.

So why am I writing this? To keep you informed of ARES activities here in Oklahoma and especially in the Oklahoma, Canadian, and Cleveland County area. My job as the Oklahoma County Emergency Coordinator of ARES is to:

1. Coordinate the training, organization and emergency participation of interested amateurs within the county.

2. Establish an emergency communications plan for the area that effectively utilize the group to cover the needs for both tactical and formal message traffic requirements.

3. Establish a viable working relationship with governmental and other agencies who might need the services of ARES.

4. Establish local communications networks run on a regular basis and periodically test these networks by drills.

5. Establish an emergency traffic plan, utilizing the National Traffic System to the extent possible and coordinate liaison with NTS nets.

6. In times of disaster, evaluate the communications needs of the jurisdiction and respond quickly to those needs.

7. Do all that is possible to further the image of Amateur Radio by dedication to purpose, reliability and thorough understanding of the mission of Amateur Radio.

From CD-46

What can you do? Well, right now would be a good time to fill out a registration form for ARES and send it to me (if in Oklahoma County). If you know who the EC is in your county, send it to him or to the SEC, Bennett Basore W5ZTN if you don't. His address is 229 N. Knoblock, #26, Stillwater, OK 74074. If you need an ARES registration form, call me at 949-1963 (days: 491-3387) and I will get one to you in the mail. The next thing you need to do is to begin checking into your local ARES net. The Oklahoma County ARES net will begin meeting at 0200Z (8:00PM) on Thursday evenings, alternating on 28.7 MHZ and 146.34/94 MHZ from week to week. We will also have a callup on 28.110 for Novices that would like to check in and then listen to the proceedings on 28.7 MHZ. In this way, both VHF-only and HF-only amateurs can be accommodated (as well as those who go both ways).

I would also like to mention that Frank McCollom N5FM, is the District Emergency Coordinator for central Oklahoma, that is, Oklahoma, Canadian, and Cleveland counties. Frank has been a great help to me and has been a prime mover of emergency preparedness activity here in the OKC area for quite some time.

IT'S NOT EASY, BEING Q. R. ZEDD

It is not easy being Q. R. Zedd, according to Q. R. Zedd.

Zedd was at the Red Cross in Norman on a recent Saturday morning, and during the weekly coffee guzzling and doughnut demolition derby run by the South Canadian Amateur Radio Society, the great man admonished the faithful about the difficulty of being so great and famous.

"It is hard, being so great and famous," said Zedd, A5A, the world's greatest DXer. "Nearly every time I leave Honor Roll Ranch, which as you know is just a hoot and a holler south of town, I am plagued by autograph seekers, lonely women, and young men eager to make their reputation by besting me in a DX contest.

"Why, just today," Zedd went on, hiking his booted feet up on the edge of the table in the Red Cross kitchen, "I was coming across the bridge when this youngun flagged me down beside his parked pickup. Thinking he had trouble, I of course stopped.

"Imagine my surprise, the moment I stopped my car, to see the young man whip out an Icom mobile rig, pop up a sixty-foot antenna tower, and challenge me to a one-hour DX contest."

Zedd sighed and bit the end off a cheroot. "Naturally I didn't have time for an hour contest. I was anxious to get here to the cofee-drinking, and also I was up all night working all the stations in Australia.

"But would the lad take no for an answer? No. Of course not. So what I had to do was grab my Kenwood out of the trunk and work a few stations just to put the boy in his place.

"He started out working a couple of Cambodians and a Hungarian, so I whipped out a couple of contacts in Tibet, a Brooklyn CW station, and five guys in China. He was real game, though, and he countered with AF5X in Utah, who was modulating a French horn at the time. And then he came right back with a long-delayed echo from WB5QNK and some guy named Gipetto working out of the belly of a whale someplace.

"Naturally I had to do something fast because about fifty or sixty lonesome women were beginning to gather, and Tondelayo (my nubile, blond, 20-year-old QSL secretary and constant companion) gets real put out with me when she finds lipstick on my microphone.

"So I pulled out all the stops and worked 200 countries in the next eight minutes, and the kid gave up. But by that time, wouldn't you know it, all them women were grabbing at me and tearing at my clothing and kissing me and all, and I tell you, boys, I almost didn't get away.

"That," Zedd went on through a cloud of cheroot smoke, "is why I don't go to functions like Ham Holiday or the SCARS Christmas party any more. It is just too hard, being a celebrity. If this keeps up, I might end up being a recluse like George Harrison or my late great friend, Elvis, down there at Graceland."

Somebody in the crowd noted that Zedd often gets way from the madding crowd this time of year with a Dxpedition.

"That's very clever of you to notice that," Zedd told the questioner. "I often do go off to some wild an exotic locale for a few weeks at this time of year. As a matter of fact, I have been thinking of making a little journey very shortly. Would you like to hear about it?"

Naturally everybody chorused assent, and begged for the details.

"Well," the great one said, "I can't

The first ARRL volunteer examination in Oklahoma went off without a hitch December 22 here in Fairview at the Northwest area Vo-Tech. Eighteen prospects showed up to try their hand at the new exams, most were not too disappointed at the out come.
Test results were as follow;
General written-87.5% of 8
Advanced-50% of two
Extra written-0% of three
13 WPM code-17% of seven
20 WPM code-75% of four

The only note of dissention was raised by KI5P when he stated that the coordination process between the ARRL and the examiners had too many rough spots in it to suit him, he went on to say that the next exam he helps to administer will be with the W5YI group.

The January meeting will be held on Monday the 21st hope to see you all there.

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----------------for sale----------------
-----going out of business--------------
Icom 730A, $450.
Icom 260A, all mode 2M, $300
AEA Morse-Matic memory keyer/trainer $100.
Will negotiate any of the above. Call
227-2061 after 5:00 ask for Major
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Q. R. ZEDD WRITER TOPS

"TWISTER", a novel written by University of Oklahoma Professor Jack Bickham and published by Doubleday, is listed among the greatest books of the decade in the 10th anniversary edition of West Coast Review of Books.

Only those books that were awarded a five-star or superior rating during the last 10 years by the magazine's critics were included in the list.

"TWISTER" is one of more than 60 published novels by Bickham, an OU professor of journalism and mass communications. One of his works appears regularly in the C & E, "Q. R. Zedd The Worlds Greatest DXer".

A disaster thriller, it was described by book reviewer W.U. McCoy of The Oklahoman as ".......the complete and fulfilled novel on toronados, tornado forecasting and the effects on lives of those in the storm path."

Critics for the West Coast Review of Books noted, "The description of the electrical storm is a masterpiece of painting with words."

Bickham heads OU's professional writing program and serves as director of the university's annual Short Course on Professional Writing.

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reveal the exact location yet, boys, but I can guarantee you that it is going to be a dandy. If you would like to stand by a while, I'll get the details to you just as quick as I can through my pal, KU5B. In the meantime, if any of you would like an autographed picture, or want to share in the honor of scaling and repainting some of my towers, why, you can just lineup right over there and I'll take down your names and callsigns."

There was naturally a great stampede to line up. Zedd took down all the names, ate another four doughnuts, challenging the record recent set by N5BEW, and departed.

"Where do you suppose he's going this time?" asked W5MCN in hushed (for him) tones.

"Gee whillikers," replied WA5RPP, "I don't know, but it is sure exciting to wonder about."

All of us wondered. A bulletin from Zedd was expected momentarily.

-- KU5B

Minutes of January Meeting

Meetng was called to order at 10:05 A.M. by President Jerry, KD5IS, with ten members and guests present.

Ellard, W5KE, gave the Treasurer's report.

Jerry made several announcements. Our station license, W5LOW, has been renewed until 10/30/94. Pat Sherrill, N5PS, is trustee. Details on the CORA VE program are going to be in this issue of the C&E. A radio mailbox is on the air in Noble. It is operated by Larry, WA7UIB, on 146.70 using 110 CPS ASCII.

Woody, W5FMX, is in Baptist Hospital, Room 552. James Stults, K5RLM, is also in Baptist and Sandy, W5AZO, is in Midwest City Hospital.

(Learned today, Jan 27, that Maggie, YL of Fred, W5NL, is in the hospital and Howard, W5AS, is also in the hospital. What a deal! I hope everybody gets up and around soon!)

The FCC field office in Dallas has a new address.

Field Operations Bureau
9330 LBJ Freeway
Suite 1170
Dallas, TX 75243

Telephone number is changed to (214) 767-5690.

JIm, K5VRL, reported that our Christmas collection went to the Shrine Hospital.

Elections were held and the elected officers for 1985 are:

President, Jerry Wetmore, KD5IS
Vice President, Pat Sherrill, N5PS
Treasurer, Ellard Foster, W5KE
Secretary, Joe Buswell, K5JB

With all that done, meeting was ajourned at 10:42. Joe, K5JB, Sec'y

Mini Book Review-Data Communications

Just for your amusement and information I am running the following just as it was received from Compuserve (HamNet) around Christmas time. Jeff Ward, K8KA, is editor of Gateway, the ARRL packet radio newsletter. Scott, W3VS is the Hamnet system operator. I don't know what DRNET is...

#: 25511   Sub-topic 9 - Packet/RTTY/AMTOR
Sb: Comm. Book
    22-Dec-84 15:43:00
Fm: HamNetSYSOP Scott W3VS 76703,407
To: All

The following message relayed via DRNET:

M 21602 Pete Eaton (WB9FLW,2970) 12/19/84
11:11 PM L:78
KEYS:/EVERYTHING YOU WANTED TO KNOW ABOUT PACKET FOR ONLY 3.95 (AND YOU CAN GET IT AT RADIO SHACK!)/
TO: (Group 95)

Jeff:

I thought the following might be of some use to your gateway readers:

A Mini Book Review
"UNDERSTANDING DATA COMMUNICATIONS"
Developed and Published by Texas
Instruments Learning Center.

Sold by (of all people) Radio Shack!
Pages 272
Price: $3.95

While browsing thru the bargain table at the local Radio Shack I happened to glance at there book rack of electronic tutorial books. To my surprise one of the titles was "Understanding Data Communications". For the last several years newcomers to packet have been asking for some reference material to get them started, and most important have it presented in plain english. To my surprise Radio Shacks offering is the closest thing I have found to fitting the bill.

Written By Texas Instruments, it assumes little knowledge on the readers part. Each chapter introduces you to a basic concept and fundamentals some of the subjects covered are:

(1) An Overview of Data Communications, what is data communications, and how it got where it is today. What are the codes and what does DTE and DCE mean?

(2) Data Terminals, Discusses I/O terminals, teleprinters, CRT, ASCII, asynchronous and synchronous operation.

(3) Types of messages and Transmission "channels", Explains wire pairs, coaxial cables, waveguides, fiber optics, microwave, satellites and others.

(4) Asynchronous Modems and Interfaces, How does a modem interface to a DTE and to the telephone line? Covers current loop, RS-232C, -422A, -423A, -499, -366 and CCITT V.24 and X.21.

(5) Synchronous Modems and Digital Transmission, 1200, 2400, 4800, 9600 bps modems, polar, unipolar, diphase digital codes.

(6) Fiber Optics and Satellite Communications, fiber operation and up-link down-link frequencies, and multiuser satellites.

(7) Protocols and Error Control, Clarifies the difference between protocol and interface. Discusses the protocol for teleprinters, half & full duplex transmissions. Covers BiSync, HDLC, SDLC, ans DDCMP (whatever that is?).

(8) Local area Networks, Describes the ISO model, Ethernet, token passing ARCNet, and broadband networks. LAN standards, comparisons and trends.

That's the the end of the message. Hamnet is a section on Compuserve and it is quite a vast storehouse of interesting information if you have the means to wade through tons of stuff to find what you are interested in. The section I usually read is called Sub-topic 9, Packet/RTTY/AMTOR. Sometimes I look at the ARRL section which is called Sub-topic 1. There are DX news, AMSAT/OSCAR, News/W5YI Report, Buy/Sell, and others, ten sections in all. Information is stored in two forms, bulletin boards and files. The latter consists mainly of the larger chunks of stuff. Several of the C&E articles of month's past are in there. (There would be more but the novelty of uploading them wore off. HI!)

If there is any interest, I will share my methods for getting away with reading about a ton of junk every two weeks without breaking the piggy bank on connect charges. A ten minute hook-up is about my all time high record, and I think I can handle that.
Joe, K5JB

A Use For That Computer

Ya say ya have a computer, eh? How would you like something to compute? Here is a little problem that has a practical application if

one is into rabbit hunting, or other technical aspects of radio location. This is the method known as triangulation.

Suppose you know were you are and you know where a buddy of yours is. Now, suppose that both you and your buddy pick up a radio signal from an unknown source but both of you are able to take compass readings on the directions from each of you to the unknown station. With a map, a protractor and a straight edge you can 'triangulate' on the unknown station. Where both of your readings cross is the location of the unknown station's location.

(You will have to convert compass readings to map directions but this is simple. In central Oklahoma, add 7 1/2 degrees to the compass reading to get true readings. They are close enough to our street system orientation. Or, align your antenna direction indicator with the street out front.)

But using a compass and straight edge on a map is all too simple. You said you had a computer! There must be a more elegant (difficult) way to solve the problem, one that is more appropriate for a computer to crunch on! Yer in luck because I scrounged up an old HP-25 program developed by Richard Todd about 1975. (He was nine years old!) We published it in the C&E but I couldn't find the original article. Anyway, I rearranged the equation so it could be more easily understood by a BASIC program (or FORTRAN, or PL-1, for that matter). Refer to figure 1 for the sign conventions used in the equation.
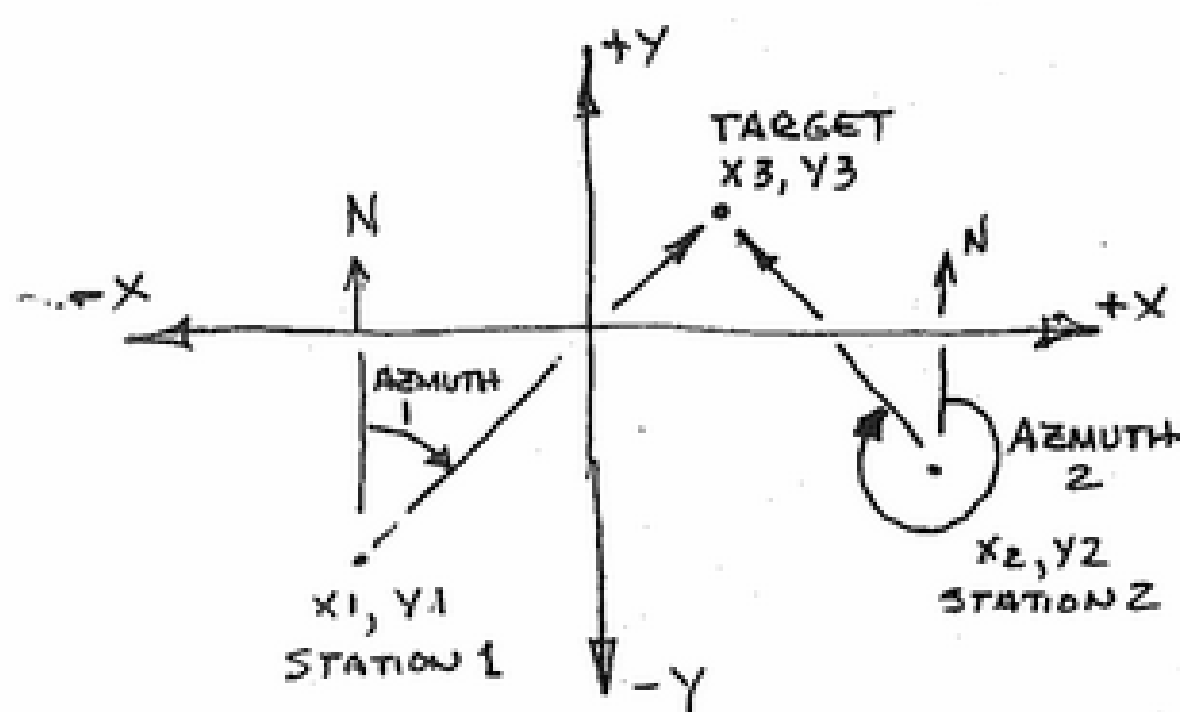

Figure 1. Sign conventions

In it's algebraic form the unknown X coordinate is found from:

$$X_3 = X_1 + r_1 \cos \alpha_2$$

where

$$r_1 = \frac{\cos \beta_2 (Y_2 - Y_1) - \sin \alpha_2 (X_2 - X_1)}{-\cos \alpha_2 \sin \beta_2 + \cos \beta_2 \sin \alpha_2}$$

$$\alpha_2 = 90 - \text{AZMUTH 1}$$
$$\beta_2 = 90 - \text{AZMUTH 2}$$

and the unknown Y coordinate is found from:

$$Y_3 = Y_1 + r_1 \sin \alpha_2$$

If you first declare

A1 = 90 - Azmuth 1

and

A2 = 90 - Azmuth 2

Or if your computer's trig functions deal in radians, declare:

A1 = (90 - Azmuth 1) (2 Pi) / 360

and

A2 = (90 - Azmuth 2) (2 Pi) / 360

Translated into a form recogniziable by most computers, this becomes...

```
X3=(((COS(A2)*(Y2-Y1)-(SIN(A2)*(X2-X1)))/
((COS(A2)*SIN(A1))-(SIN(A2)*COS(A1))))
*COS(A1))+X1
```

(Enter this as one long line.)

The Y coordinate can be calculated in terms of the X coordinate, preventing recalculation of a lot of that junk. In computer lingo,

```
Y3=(((X3-X1)/COS(A1))*SIN(A1))+Y1
```

If you are just going to have the computer do this once, all you have to do is tell it what your coordinates (X1 and Y1) are, what your friend's coordinates are (X2 and Y2) the azmuth from your location (Azmuth 1) and the azmuth from your friend's location (Azmuth 2).

If you want to really give your computer a challange, let it compute a table of values with azmuths from one station along the top and azmuths from the other station along the side. Hint, it is only necessary to compute the values for the first 180 degrees of beam rotation. The values for 181 to 359 degrees will be the same as 1 to 179 degrees, respectively. Heck, if you want to check it out, try all 360 degrees. Computer time is cheap!

For those of you who might take this stuff seriously, the following is a version I did for the Apple just to see if it worked. Joe, K5JB

Radio Location Computer Program for Apple

```
10    TEXT : HOME : VTAB 6: PRINT  SPC( 10)
      "K5JB'S BANDITO FINDER": PRINT : PRINT
      SPC( 9)"AZMUTHS ARE IN DEGREES": PRINT
      : PRINT  SPC( 5)"X AND Y COORDINATES ARE
      MILES": PRINT : PRINT  SPC( 8)"FROM RENO
      AND SANTA FE"
20    PRINT : PRINT : PRINT  SPC( 9)"(ANY KEY
      TO CONTINUE)": VTAB 20: GET R$
30    HOME :PI = 3.1416: ONERR  GOTO 140
40    INPUT "CALL OF FIRST OBSERVER: ";C1$
50    READ D$: IF D$ = C1$ THEN  READ X1: READ
      Y1: RESTORE : GOTO 80
60    IF C1$ = "END" THEN  END
70    GOTO 50
80    INPUT "CALL OF SECOND OBSERVER: ";C2$
90    READ D$: IF D$ = C2$ THEN  READ X2: READ
      Y2: RESTORE : GOTO 110
100   GOTO 90
110   PRINT C1$;: INPUT "'S AZMUTH TO TARGET
      : ";AZ: GOSUB 220
120   PRINT C2$;: INPUT "'S AZMUTH TO TARGET
      : ";AZ: GOSUB 240
130   GOTO 150
140   PRINT "CALL NOT LISTED...ANY KEY TO
      CONTINUE": GET R$: POKE 216,0: RESTORE
      : GOTO 30
150   X3 = ((( COS (A2) * (Y2 - Y1) - ( SIN
      (A2) * (X2 - X1))) / (( COS (A2) *  SIN
      (A1)) - ( SIN (A2) *  COS (A1)))) *  COS
      (A1)) + X1
160   Y3 = (((X3 - X1) /  COS (A1)) *  SIN
      (A1)) + Y1
170   PRINT "TARGET X COORDINATE IS ";: PRINT
      .01 *  INT (X3 * 100)
180   PRINT "TARGET Y COORDINATE IS ";: PRINT
      .01 *  INT (Y3 * 100)
190   INPUT "DO ANOTHER? (Y/N) ";R$
200   IF R$ = "Y" OR R$ = "y" THEN 30
210   END
220   A1 = (90 - AZ) * PI * 2 / 360
230   RETURN
240   A2 = (90 - AZ) * PI * 2 / 360
250   RETURN
1000  REM FORMAT: CALL, X, Y
1010  DATA  K5JB,5.8,.4
1020  DATA  K2GKK,4.7,-3.2
1030  DATA  KA5ETA,2.3,-9.2
1040  DATA  WA5EAI,-2.6,-3.2
1050  DATA  N05M,-7,4.8
```

That's all folks!   Joe, K5JB

SECTION II — EXAMINATION INFORMATION

SECTION II-A. To be completed only by the Volunteer Examiner administering the Novice Class Examination.

1. VOLUNTEER EXAMINER'S NAME: (First, MI, Last, Suffix)

2. VE'S MAILING ADDRESS: (Number, Street, City, State, ZIP Code)

3. VE'S OPERATOR CLASS:
   ☐ GENERAL   ☐ ADVANCED   ☐ AMATEUR EXTRA

4. VE'S STATION CALL SIGN

5. LICENSE EXPIRATION DATE:

6. IF YOU HAVE AN APPLICATION PENDING FOR YOUR LICENSE, GIVE FILING DATE:

CERTIFICATION

I CERTIFY THAT I have complied with the volunteer examiner requirements stated in Section 97.31 of the Commission's Rules; THAT I have administered to the applicant and graded an amateur radio operator examination in accordance with Sections 97.27(a), (c), 97.28(b), and 97.29 of the Commission's Rules; THAT the applicant has passed element 1(A) and element 2 or I have examined documents held by the applicant and the applicant is given telegraphy examination credit in accordance with Section 97.25 of the Commission's Rules.

7. SIGNATURE: (Must match Item 1)

DATE SIGNED:

SECTION II-B. This section must be completed by all three Volunteer Examiner Team members administering an examination for the Technician, General, Advanced, or Amateur Extra Class operator license.

1A. VOLUNTEER EXAMINER'S NAME: (First, MI, Last, Suffix)

1B. VE'S MAILING ADDRESS: (Number, Street, City, State, ZIP Code)

1C. VE'S OPERATOR CLASS:
   ☐ ADVANCED   ☐ AMATEUR EXTRA

1D. VE'S STATION CALL SIGN:

1E. LICENSE EXPIRATION DATE:

2A. VOLUNTEER EXAMINER'S NAME: (First, MI, Last, Suffix)

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FEDERAL COMMUNICATIONS COMMISSION
P.O. Box 1020
GETTYSBURG, PA 17325

APPLICATION FOR AMATEUR RADIO STATION AND/OR OPERATOR LICENSE

VOLUNTEER EXAMINER TEAM REPORT

Applicant is credited for: ➡

EXAMINATION ELEMENTS

	1(A) (NT)	1(B) (GA)	1(C)	2 (NTGA)	3 (TGA)	4(A) (A)	4(B)
A. FCC Amateur license held (97.25(a)): Class:			xxxxxxxx xxxxxxxx xxxxxxxx			xxxxxxxx xxxxxxxx xxxxxxxx	xxxxxxxx xxxxxxxx xxxxxxxx
B. CERTIFICATE OF SUCCESSFUL COMPLETION OF AN EXAMINATION HELD (97.25(b)): Dated:				xxxxxxxx xxxxxxxx xxxxxxxx	xxxxxxxx xxxxxxxx xxxxxxxx	xxxxxxxx xxxxxxxx xxxxxxxx	xxxxxxxx xxxxxxxx xxxxxxxx
C. FCC Commercial Radiotelegraph Operator License held (97.25(c)): Number: Expiration date:	xxxxxxxx xxxxxxxx xxxxxxxx	xxxxxxxx xxxxxxxx xxxxxxxx		xxxxxxxx xxxxxxxx xxxxxxxx	xxxxxxxx xxxxxxxx xxxxxxxx	xxxxxxxx xxxxxxxx xxxxxxxx	xxxxxxxx xxxxxxxx xxxxxxxx
D. Examination elements passed that were administered by this Volunteer Examiner Team at this examination session:							

E. APPLICANT is qualified for operator license class:

- ☐ NOVICE (FCC use only)
- ☐ TECHNICIAN (Elements 1A, 2, and 3)
- ☐ GENERAL (Elements 1(B) or 1(C), 2, and 3)
- ☐ ADVANCED (Elements 1(B) or 1(C), 2, 3, and 4(A))
- ☐ AMATEUR EXTRA (Elements 1(C), 2, 3, 4(A), and 4(B))

F. Name of Volunteer-Examiner Coordinator:

G. Examination session location:

H. Date of examination session:

I. Examination session identifier code:

SECTION I

1. IF YOU HOLD A VALID LICENSE ATTACH THE ORIGINAL LICENSE OR PHOTOCOPY ON BACK OF APPLICATION. IF THE VALID LICENSE OR CERTIFICATE OF SUCCESSFUL COMPLETION OF AN EXAMINATION WAS LOST OR DESTROYED, PLEASE EXPLAIN.

2. CHECK ONE OR MORE ITEMS. NORMALLY ALL LICENSES ARE ISSUED FOR A 10 YEAR TERM.

- 2A. ➡ RENEW LICENSE — NO OTHER CHANGES
- 2B. ➡ REINSTATE LICENSE EXPIRED LESS THAN 2 YEARS
- 2C. ➡ EXAMINATION FOR NEW LICENSE
- 2D. ➡ EXAMINATION TO UPGRADE OPERATOR CLASS TO
- 2E. ➡ CHANGE CALL SIGN (Be sure you are eligible — see Inst. 2E)
- 2F. CHANGE NAME (Give former name)
- 2G. CHANGE MAILING ADDRESS

EXPIRATION DATE (Month, Day, Year)

CHECK ONE BOX IF YOU CHECKED 2C OR 2D
- ☐ NOVICE
- ☐ TECHNICIAN
- ☐ GENERAL
- ☐ ADVANCED
- ☐ AMATEUR EXTRA

FORMER LAST NAME   SUFFIX (Jr., Sr., etc.)

FORMER FIRST NAME   MIDDLE INITIAL

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HERE IS YOUR NEW FORM 610.
USE IT WHEN YOU NEED TO S
LOCAL VE.

2H. ☐ CHANGE STATION LOCATION

3. CALL SIGN (If you checked 2C above, skip items 3 and 4)

4. OPERATOR CLASS OF THE ATTACHED LICENSE:

5. CURRENT FIRST NAME   M. I.   LAST NAME   SUFFIX (Jr., Sr., etc.)

6. DATE OF BIRTH (Month, Day, Year)

7. CURRENT MAILING ADDRESS (Number and Street)   CITY   STATE   ZIP CODE

8. CURRENT STATION LOCATION (Do not use a P.O. Box No., RFD No., or General Delivery. See Instruction 8)   CITY   STATE

9. Would a Commission grant of your application be a major action as defined by Section 1.1305 of the Commission's Rules? See Instruction 9. If you answer yes, submit the statement as required by Section 1.1311.   ☐ YES ☐ NO

10. Do you have any other amateur radio application on file with the Commission that has not been acted upon? If yes, answer items 11 and 12.   ☐ YES ☐ NO

11. PURPOSE OF OTHER APPLICATION

12. DATE SUBMITTED (Month, Day, Year)

13. Have you failed an amateur examination element within the last 30 days? If yes, answer items 14 and 15.   ☐ YES ☐ NO

14. CLASS OF EXAMINATION ELEMENT

15. DATE OF EXAM (Month, Day, Year)

CERTIFICATION

I CERTIFY THAT all statements herein and attachments herewith are true, complete, and correct to the best of my knowledge and belief and are made in good faith; that I am not a representative of a foreign government; that I waive any claim to the use of any particular frequency regardless of prior use by license or otherwise; and that the station to be licensed will be inaccessible to unauthorized persons.

WILLFUL FALSE STATEMENTS MADE ON THIS FORM OR ATTACHMENTS ARE PUNISHABLE BY FINE AND IMPRISONMENT
U.S. CODE TITLE 18, SECTION 1001

16. SIGNATURE OF APPLICANT: (Must match item 5)

17. DATE SIGNED:

FCC Form 610
June 1984

(OVER)

SEND A COPY TO YOUR

2B. VE'S MAILING ADDRESS: (Number, Street, City, State, ZIP Code)

2C. VE'S OPERATOR CLASS:
☐ ADVANCED ☐ AMATEUR EXTRA

2D. VE'S STATION CALL SIGN:

2E. LICENSE EXPIRATION DATE:

3A. VOLUNTEER EXAMINER'S NAME: (First, MI, Last, Suffix)

3B. VE'S MAILING ADDRESS: (Number, Street, City, State, ZIP Code)

3C. VE'S OPERATOR CLASS:
☐ ADVANCED ☐ AMATEUR EXTRA

3D. VE'S STATION CALL SIGN:

3E. LICENSE EXPIRATION DATE:

CERTIFICATION

I CERTIFY THAT I have complied with the volunteer examiner requirements stated in Section 97.31 of the Commission's Rules; THAT I have administered to the applicant and graded an amateur radio operator examination in accordance with Sections 97.28 and 97.29 of the Commission's Rules; THAT I have indicated in the VOLUNTEER EXAMINER TEAM REPORT those examination elements the applicant passed; THAT I have examined documents held by the applicant and I have indicated in the VOLUNTEER EXAMINER TEAM REPORT those examination elements for which the applicant is given examination credit in accordance with Section 97.25 of the Commission's Rules.

1F. SIGNATURE: (Must match Item 1A)

DATE SIGNED:

2F. SIGNATURE: (Must match Item 2A)

DATE SIGNED:

3F. SIGNATURE: (Must match Item 3A)

DATE SIGNED:

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RURAL THOUGHTS

I read and agree with Chuck Wilhite's article on apathy. My wife and I look forward each year to HH. It has been our luxury, so to speak, we go down Saturday morning, take in the banquet and staying the night. The barber shop quartet the last two years were great. For entertainment we liked the youngsters who did the clogging dance, HH '82. Personally I would like to see a good magic show.

I heard a few comments that $11.00 was a little high for the banquet. One might go eat for $6.00 or $8.00. Go to a movie for $4.50. When you add it up the banquet is reasonable. At HH '83 and HH '84 the food was real good, anyone could go back for seconds if desired. A chance for the door prize, and good entertainment. I would like to see a larger attendance.

Maybe some of those that complain feel left out. If asked to serve on a committee of some kind they might do a great job. The per cent of good comments are so great, some of us have not taken the time to hunt and peck them out. The lady who was responsible, and those who helped with the hospitality room really did a good job.

As possibilities for CORA to help get rural members to participate is to check into our nets that you can reach. By reporters articles directed to said club in the C&E. If needed a hf frequency date and time set up to converse with club committee heads through C&E.

It is well and good that CORA is getting set up to give volunteer exams in the Oklahoma City areas. We desperately need the small community VE programs. When I went down to Oklahoma City the first time to take the general test, other things happened besides getting the hell scared out of me by the heavy traffic. I only had the address on paper. No idea how to get there. Finding the Federal Building, the parking lot on the west side was full. Driving around looking I found a parking lot about six blocks west and south, I drove in and there was no attendant, so I drove into a parking space. I saw a sign board. Going over and reading it I found I had to have the number under the car. I put the money in the correct slot, knowing I was running late. Getting to the right room, gave out, dizzy, being under the doctors care for heart trouble I was just in time to start taking the code test. Working hard I felt, before going down. All nervous I could not copy what a novice should. Therefore I failed the test, my fault.

Watonga with its 3000 plus is the largest town I have lived in. Before the next code test came up I drove back to the city on Sunday when traffic was slowed down. I located a place to park, etc. Going down early I visited with some of the guys I knew. I passed the test.

The fact of favoritism in small communities I heard some older hams talking in another state. It was several years ago before I had taken a test, two of them made the statement they would get anyone a general license for a $50.00 bill. The point is there has always been a very minute amount of favors. I feel it has been a privilige for me to earn a license. I would like to upgrade my license sometime, all the VE I know of in the northwest area have the highest integrity.

The point is------we country folks need our community VE.

Ralph, WA5PFK

Since MORI did not hold a January meeting (because of New Years Day) there isn't a lot to report.

The December Christmas meeting at Furr's was held on December 4th with 33 members and 5 visitors present. Good food and fellowship was enjoyed by all.

Door prizes were aslso awarded and the lucky winners were:

W5JJ, Carl - One year MORI membership
N5GWZ, Bob - One year MORI membership
N5GVN, Kevin - Soldering Iron
N5GVP, Jerry - Trivet
N5TY, Ray - GRAND PRIZE, tool kit
CONGRATULATIONS !!!!

President N5EPV, Bob Allen made an announcement that the February meeting would be held at the State Civil Defence Complex at the State Capitol. Listen to 07/67 for more information.

N5HII, Elise
SPECIAL - WOKUJ

On a recent trip back to "Ninelander" over the Christmas holiday, I had the pleasure of holding my first QSO with Sparky, WOKUJ in St Louis MO. Sparky is an old Aeronautical club member and some of you more experienced hams might remember him.

After three trips last summer through St. Louis listening to Bob, N5GWZ (my room mate) converse with WOKUJ, I finally had my chance. So nervously, with microphone in hand, I blurted out "WOKUJ this is N5HII". It was almost as if that was my first experience on the radio!!! After the butterflies left me and I explained to Sparky who that nervous voice belonged to, we had a very enjoyable QSO.

So Sparky since you stated you receive the C&E every month, Bob and I want to say an EXTRA SPECIAL HELLO to you and Thank You for all the company you give us going through St. Loois. We sure appreciate and look forward to our QSO's.

N5HII   and   N5GWZ
Elise   and   Bob

The OS-9 OPERATING SYSTEM

WHAT IS IT?

Undoubtedly, the first thing we should do is define "operating system". The operating system is the collection of routines most elemental to the functioning of your computer as a computer. It includes routines which handle input/output, supervise running of application programs and usually includes utilities which assist in file maintenance.

A DISK operating system is an operating system which is set up for disk I/O as the main type of data and program storage. DOS stands for Disk Operating System.

You could also think of the DOS as a layer of programming which is between the hardware and those programs which are written to perform a complex job such as a word processor, an accounting program, or some other 'high-level' programming. These high-level programs are known as application programs and are much more human-oriented in terms of the objectives for which they were designed.

A DOS may be contained in ROM or may be "disk resident". The DOS which comes with the Color Computer drive-0 is contained in a ROM in the controller and is closely integrated with the Basic language, also supplied in ROM.

OS9 is a disk-resident DOS. One of the advantages of a disk-resident DOS is that of memory usage....only that portion of the DOS being used needs to be in memory at any particular time. This means that most of the routines can remain on disk, waiting to be loaded when needed. The "kernal", the most elemental level of programing for the system, and a few of the most often used routines are copied to memory when the DOS is "booted".

This also allows the DOS to be considerably more extensive and powerful than one from which features must be pared by the programmers to fit the ROM size and to satisfy other constraints on a system which is totally memory-resident.

Most DOS's allow the system, when booted, to be configured to suit the user. One method of achieving this is to provide for a "procedure file" to be executed upon system startup. This is usually called, appropriately enough, the startup file. This text file consists of lines, each of which contain one command, to be executed by the system in sequential order just as if the commands had been entered from the keyboard. This file, which you design, tells the system that the disk drives are of a certain configuration, that the printer recognizes data sent at a certain speed, how certain key strokes are to be interpreted, whether the scrolling of the screen should pause after filling, etc. It can even cause a particular program to be loaded and exececuted each time the system is "booted".

If you take the utilities for file manipulation that are DOS commands, throw in a couple of procedure files to help ease the burden of typing a series of commands repettitively and to sequence operations, and only those programs which represent the unique properties of your data processing objective remain to be written. This is the answer to the question, "Why do I need a DOS?".

Everything covered up to this point in this article could also be said of FLEX, the most powerful operating system we had available until the arrival of OS-9. Flex is also a varied and powerful DOS which relieves many of the shortcomings which have inhibited our machine from performing well in serious data handling operations.

Now let's concentrate on OS-9, a particularly powerful DOS. It is structured after UNIX, an operating system written for mini-computers, initially a PDP-7 at Bell Labs. UNIX has developed into a very diverse and extensive system as it has been adapted and added-to by many programmers. Unix is used by Bell in their PC, it is available for the IBM PC, and is used by others under other names, such as Tandy's Xenix. OS-9 is designed for an 8-bit data bus rather than the 16 bits of a "mini"; but so closely follows Unix design that it has been called the 8-bit UNIX. If, after becoming familiar with OS-9, you pick up a book on UNIX you will find that you already know a great deal about the larger system.

Another thing that OS-9 and UNIX share is the facility with which the C language can be implemented. Ken Thompson wrote the B language for that first UNIX system. B was revised into the C language; and eventually the UNIX system was re-written in C. In the UNIX system, while it is comprised of some 13,000 lines of system code, only about 800 lines at the very lowest level are assembler. Almost all UNIX applications are written in C; and OS-9 is also a mixture of assembler and the C language.

One of the best reasons we have for using OS-9 is Basic-09. This language has some remarkable features, beginning with its error checking ability. As you complete each line of code and hit <enter>, that line is checked for syntax errors. If errors exist, the line is displayed with the cursor pointing to the first error. Another feature is its data constructs. You can define custom data types. This allows you to name some data elements as being part of a larger element. If you change the lesser element, that change will be reflected when you later name the larger element. In RS extended basic you would have to use another "let" statement to concatenate the lesser elements into a new definition of the larger element.

Basic-09 contains statements which support the full range of structured programming disciplines; statements such as do/while and do/until come to mind. With line numbers being necessary only as a re-entry point for goto's and good programming practice calling for strict limitation of the use of goto statements, a Basic-09 program looks a great deal like a Pascal or C program.

Basic-09 is compiled to an intermediate code, which takes less time to interpret as each statement is run. This requires a module of code to be present in memory while the program is running. The run-time module takes about 8k of memory.

The concept of standard I/O is another feature which lends power and versatility to the OS-9 system. Each program is written to use standard I/O; only one input device and one output device must be programmed for when a program is written. This allows more compact applications and easy accomodation of different I/O devices by I/O re-direction as they become necessary . By re-direction of the standard I/O, the output of a program may be sent to the screen, the printer, a file on disc, or to any other I/O device on the system, all without changing the original program at all.

An extension of I/O re-direction is the concept of pipes. A pipe links the output of one program so that it be comes the input of another. It sets up a control mechanism so that the two stay in step and one does not overrun the other. The availability of pipes has fostered a type of program called a "filter". This is a program designed to process the output of another program in some particular way.

Filter kit #1, from D. P. Johnson is made up of especially useful programs (or filters). His ls lists names of files selected by various criteria of attribute, ownership, date of creation, name, from the directory you

name. Dl is another which deletes each file whose name is input to it. By combining the actions of these two programs by linking the output of ls to the input of dl with a pipe, you can do such things as delete all files created on a certain date, belonging to a particular user, and beginning with a specific series of characters. All this with one command.

One of the most publicized and least useful properties of OS-9 is its capacity to be used from a terminal at the same time another user is operating the computer from its own keyboard. This Dual user capability is useful as a learning experience but otherwise of little practical use. Unless you have some other way to attach a printer, you can't use one while in time-sharing mode. An offshoot of time-sharing is the logon procedure and the attachment of an ownership attribute to each file. This could be more useful than time-sharing itself if worked into a framework of tailored command lists and personal directories for each user. This would insulate less capable users from the complexities of the overall system while protecting the system from them by denying access to potentially damaging commands.

The capability of the system to run multiple programs, seemingly at the same time, is a more useful feature of OS-9. As yet it has been utilized to no great extent.... print spooling being a minor example of what can be done with it.

I have purposely kept away from specific commands and their syntax in this article. As the versatility of most program systems is directly proportional to the complexity of the command structure, OS-9 has, predictably, a somewhat complex command syntax. It will provide fuel for other evenings at the keyboard.

                                        AL WARD

       B R E A K   K E Y   D I S A B L E

20 POKE410,57 'DISABLE VECTOR

30 MC$="....................." ' 21 DOTS

40 MM=PEEK(VARPTR(MC$)+2):ML=PEEK(VARPTR(MC$)+3):MC=MM*256+ML:FORX=MC TO MC+21:READZ:POKEX,Z:NEXT

50 POKE411,MM:POKE412,ML:POKE410,126

60 DATA28,175,189,161,193,129,3,39,7,77,189,173,238,126,173,165,204,1,4,126,174, 180

70 CLS

80 A=A+1:PRINTA;:GOTO80

90 A=0:GOTO80

A IS PRINTED TO THE SCREEN IN AN INFINITE LOOP TO DEMO THAT THE BREAK DISABLE WORKS. HITTING BREAK RESETS A TO ZERO. LINES 20-50 MUST BE AT THE FIRST OF YOUR PROGRAM. LINES 70 AND UP ARE THE DEMO.

```
########################################
#    HELP--HELP--HELP--HELP--HELP     #
#    COCO member needs help in obtaining    #
#   Proctor & Gamble UPC symbols  to obtain #
#   a FREE IBM PC jr system for her school  #
#   lab. Now have 5 COCO's II and 4  PC jrs. #
#    PLEASE save UPC sybols from:      #
# JIF PEANUT BUTTER      BOUNTY PAPER TOWELS #
#  PUFFS KLEENEX        SURE DEODORANT  #
# PRELL/ PERT SHAMPOO    ENCAPRIN      #
#  TIDE   LUVS     CITRUS HILL ORANGE JUICE #
# CRUSH BEVERAGE   CREST TOOTHPASTE    #
#                                      #
# Bring the UPC symbols to the  NEXT   #
# COCO meeting. see:            FEB 9  #
#    KAYE DERRYBERRY                   #
#    WEBSTER MIDDLE SCHOOL             #
#  OKC, OK   73139        THANK YOU    #
#                                      #
# All that is needed is 7500 symbols to #
# help our kids.    thank you..        #
########################################
```

E L I T E * W O R D

The following list of commands and error codes are for the COLOR COMPUTER word processing program ELITE*WORD.

COMMANDS AVAILABLE from MAIN COMMAND MODE

Insert   - Text Insert Mode
Xchange   - Text Exchange Mode
Save   - Save File to Disk
Load   - Load File from Disk
Print   - Call Format Menu for Printer Output
Quit   - Quit Editing (file lost)
Word-Wrap   - Toggle Word-Wrap ON/OFF
Jump   - Jump to Beginning or End of File
Find   - Forward search for String in Text
Change   - Global string replacement (Old to New)
Again   - Repeat last Find Command
Block   - Block text to Delete, Move or Copy
New   - Start new editing session
Drive   - Display/Change default drive
?DIR   - Display directory of default drive & Free Granules
Hide   - Hide/Unhide carriage returns
G/W   - Toggle display color (Green/White)
<ENTER>   - Display additional commands prompts

EDITOR CONTROL KEYS

<CLR>D - Delete character at cursor
<CLR>@ - Same as <CLR>D
<CLR>L - Delete line at cursor
<CLR>P - Page forward
<CLR>O - Page backwards
<CLR>R - Rewrite screen
<CLR><LEFT-ARROW> - Backspace & Delete one character
<CLR><RIGHT-ARROW> - Open up one space at cursor

IMBEDDED CONTROL CODES SUMMARY
<CLR>C - Automatically center line
<CLR>V - Insert one line of variable text
<CLR>S - Skip one line of variable text
<CLR>E - Eject (form feed) to top of next sheet
The following imbedded control codes are preceded and followed by the imbedded control code delimiter <CLR><.>
C - Change Characters/Line to given value
I - Change Indent to given value
S - Change line Spacing to given value
J - Toggle Right Justification ON/OFF
N - Change Page Numbering parameter to given value
P - Change Page Length to given value
T - Change Top Margin to given value
B - Change Bottom Margin to given value
F - Change Printer Font to given value
$ - Imbed the following HEX string of characters
# - Include given file (NAME) in output

ERROR CODES
If something goes wrong, ELITE*WORD will display an error message at the top of the screen. If you run out of room in the text buffer, the error message displayed is "MEM?". Other error messages are indicated by the following error numbers:

Error Number	Type
13	Out of string space error.
19	Drive number error
20	I/O error
21	File Mode error
23	Input past End of File
26	File Does not Exit
28	Disk Full
30	Write Protect error
31	File Name error
32	File Structure error
36	Verify error

A more detailed documentation for ELITE*WORD may be downloaded from COCONET. They are filed as EWORD1.RSD thur EWORD4.RSD.
                        Thanks to SAM MURR

Chairman   - Bob Pace   376-3569
Vice Chairman - Bob Helms   733-3429
Secry/Treas   - Kaye Derryberry 681-0461

Meeting held at Red Cross Building
NW 10th & Hudson
Second Sat. of the month: 9:00 A.M.
Club Dues: $5.00 per year

Meeting called to order by Bob Pace at 9:00
A.M. 92 members/guests attended the meeting
on January 12, 1985.

REQUESTS:

1. Joe Harding requested articles for the
C&E. You may send them on COCONET under the
name C&E.TXT or give them to Holly or Bob
Helms. Be sure to use 46 characters on
Telewriter.
2. Holly needs back issues of THE RAINBOW
magazine 8/83 or earlier.
3. Al Ingle would like a "good" tax
package!
4. Darwin Smith is interested in writing
educational software. Share your ideas with
him.
5. Sam Murr would like to set up a BBS for
educational programs under a SMART MODEM. He
needs programs for children. Radio Shack's
book Color Computer Playground was suggested
as a source of programs for elementary age
children.
6. Kaye Derryberry requested UPC symbols
(bar codes) from Proctor and Gamble products
to help her classes win a free computer. (It's
that other brand IBM) February is the final
month to turn in the UPC symbols.
7. Dr. Petty asked for a show of hands of
those interested in attending a meeting to
begin a COCO users OS-9 group. Meetings would
not conflict with COCO meetings.
8. Bob Pace asked for all entries in the
MC-10 software contest. There were 3 entries
and there will be 3 prizes awarded!
9. Tom needs an amortization program that
goes BEYOND 36 years.

$$$

COCONET
We still need about $400 for COCONET. Six
people each gave $10. to the fund in January.
If you contribute $10. and need a copy of
MABEL, SAM MURR will be happy to help you out.
DUES
Dues were accepted from 9 NEW members and 17
present members renewed their membership.
Total income for January: $190.00
Bob Pace presented the club his bill for the
phone installation and service for COCONET.
Total bill: $85.68. (includes service and
electricity for November and December)

COCONET

Bob Helms discussed using COCONET. Phone
number is 376-1494 and it is up 24 hours a
day. The system is limited to one user at a
time so limit your time especially during
PRIME TIME. If you need to chat with the
SYSOP (Bob Pace) type control G. A list of
COCONET Commands was distributed at the
meeting.

Holly was unable to report on the product
to eliminate TV noise. Seems like the company
wouldn't take VISA but they took Holly's
money! Now ...if they'll just send the
product.

Bob Pace presented the 4th installment of
his program on Assembly Language as this
months feature program. Meanwhile in the
'back room' 27 people gathered to discuss
BASIC programming.
Be sure to attend the February meeting on
the 9th. We have a sweetheart of a door prize
that's worth looking into!! ♡

Secretary/Treasurer
Kaye Derryberry   22

command		description
control-S		pause during a LIST command
control-Q		resume LISTing after a pause
control-C		return to the coconet prompt, exits LIST command
control-H		delete last character sent (backspace)
control-X		cancels a command
FILES	%	catalog of disk files (Please don't use DIR.)
CAT	%	catalog of disk files with sizes
NEWFILES	%	catalog of disk files dated later than a given date
OLDFILES	%	catalog of disk files dated before a given date
LIST		list (or read) a text file on the crt
LISTNEW	%	list files dated later than a given date
LISTOLD	%	list files dated before a given date
NEXT		change disk drive in use
BUILD	f	create a text file such as a "mail" message
DELETE	f	delete / kill a file
APPEND	f	joins / merges ASCII files together
CHECK	f	compares the contents of two files
PROMPT	@@	changes prompt to @@
TTYSET		adjust coconet to your terminal
FREE		# of available sectors on drive in use
TIME		display current time & date
BYE		disconnect from coconet (log off/out)

f indicates a filename.ext is required after
   the command.
% indicates a date in the format MM DD YY is
   required.
$ indicates an optional "matchlist" may be
   used.
The following help files may be read on the
system to aid the user.
Example: HELP MAIL
Note: The following are NOT commands!

COMMANDS	coconet commands and examples
FUNCTION	coconet function commands and examples
DIR	coconet directory structure
MAIL	leave mail for another user
PROGRAMS	list of FLEX programs available from coconet
SUBMIT	submit a program to coconet
FILEXFER	transfer files between coconet and your system
SEND	send file
RECEIVE	receive file

The following directory files may be read.
Example LIST ART.DIR

PROGRAMS	.DIR	program types available from coconet
CLUB	.DIR	club related files
BBS	.DIR	bulletin board systems
ART	.DIR	computer art
COMM	.DIR	communications programs
UTILITY	.DIR	utilities
ORGANIZE	.DIR	organizational programs
GRAPHIC	.DIR	graphic programs for Bill Holland's color video board
MISC	.DIR	misc. programs

Extensions are used to assist in identifying
file types on the system as follows:

.BAS	FLEX X BASIC program
.BIN	FLEX binary (M/L)
.CMD	BBS system command (FLEX M/L binary)
.DOC	FLEX program documentation
.TXT	ASCII data file of FLEX source code or a "mail" message text file

RADIO SHACK COLOR COMPUTER FILES ARE ON DRIVE
1 WITH EXTENSIONS STARTING WITH "R".

.RSA	announcement or short description
.RSB	Basic program (may be ASCII or tokenized)
.RSC	assembly language source code
.RSD	program documentation
.RSM	machine language (binary) program
.RST	text
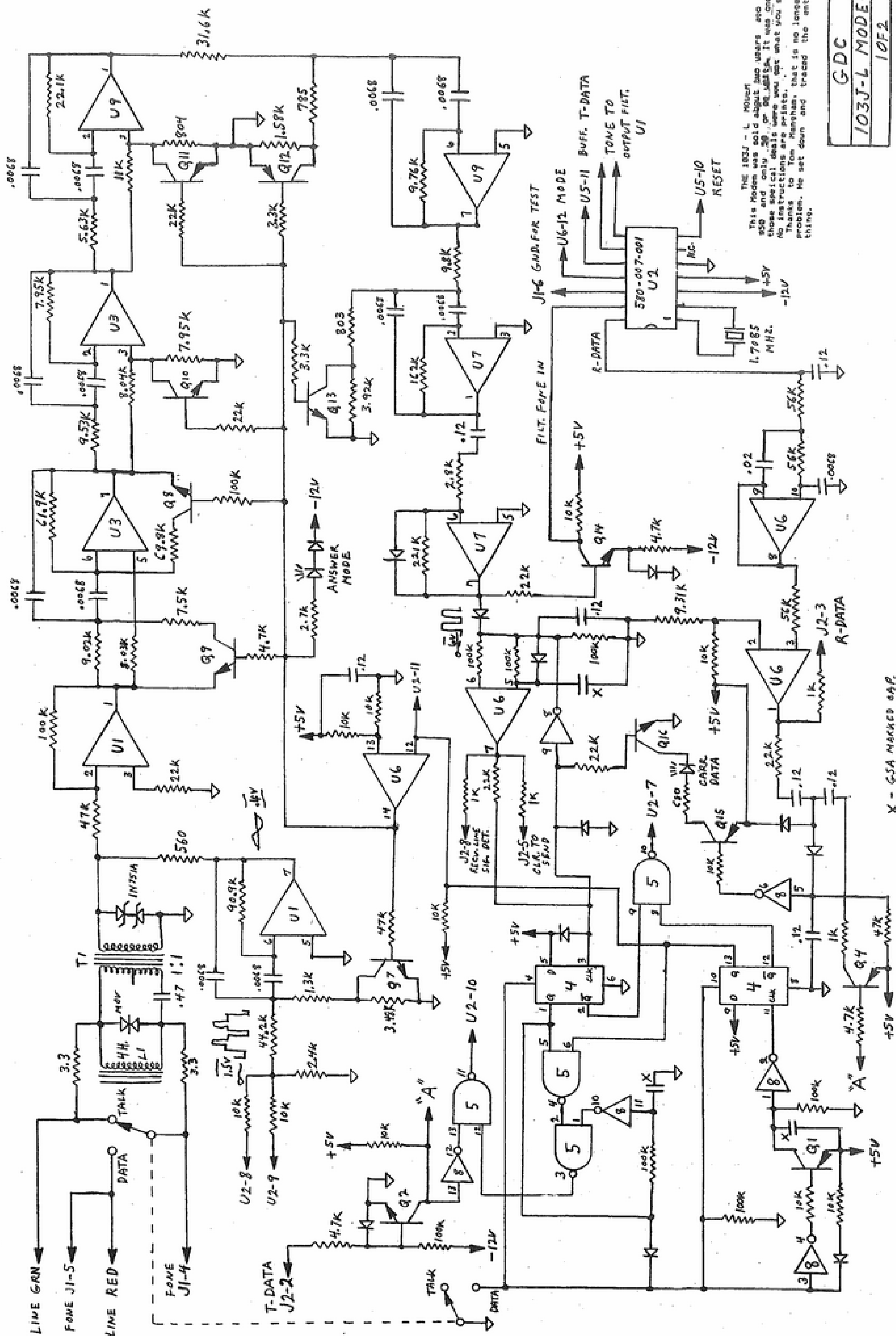
The January 10th meeting of the Altus Area Amateur Radio Association took place on a cold (28 degrees) night at the Emergency Operations Center of the North Main Fire Station. Those present were: Herb, N5FQR; Clyde, W5ZDI; Dwight, WB5KRH; Loren, WA5CBF; Shorty, K7BSY; and Mike, W5VXU.

The Conference room of the E.O.C. had taken on a new look since last month. Dwight, WB5KRH, wearing the hat of the Civil Defense Director had purchased all new chairs. They were a lot softer than the old ones.

First on the schedule of the meeting was the election of club officers for 1985. Dwight Dennis was elected the club president and Mike Schenkel elected club sexy secretary.

Dwight, WB5KRH, spoke on length of the Civil Defense frequency, 155.055 MHz. He said a lot of people with programmable scanners were listening.

Shorty, K7BSY, told about the latest efforts of the Haystack Enviromental Group in opposition to a hazard waste dump around Willow, Ok. Shorty just lives about ½ mile from the proposed dump.

Loren, WA5CBF, the out-going club secretary gave the year-end report. The current balance in the club treasurery is $267.73. The break-down in expenditures for the past year were as follows: CORA, $101.50; Ice Cream Social, $30.00 --about 45 people showed up for this; Quartz Mountain Hamfeast, $113.68--ONLY 15 showed up. Loren's expenses from 1-12-82 through 12-20-84 were $23.43. The club took in $273.00 for 1984.

The following is a list of club members and their due dates. If you are over 3 months, please remit $8.00 to Mike, W5VXU.

WBØWCB	8604	W5VQS	8603	WB5KRH	8509
WB5PMG	8412	K9PNT	8509	WA5TXG	8504
WB5UMH	8503	K5KCJ	8408	KA5KVU	8412
WA5CBF	8601	KB5LS	8409	WB5KPM	8512
WD5BBV	8502	N5EUA	8602	WB5MJS	8408
N5DKZ	8412	N5FQR	8504	W5CCV	8411
N5EOZ	8410	W5ZDI	8601	WA5OGC	8501
K7BSY	8504	N5AIP	8412	W5VXU	8502
WD5DTX	8603	N5GUK	8503	N5HCI	8606

Dwight spoke next inregard to the .19-.79 repeater. He said that the cause of the snap and crackle had been finally determined after three years of searching. Was found to be an improperly installed helax connector (from the factory). He also spoke some on the proposed 20 KHz spacing for repeaters.

Mike said he was in need of a main band switch (4 wafer job) for a Dentron Cliperon L amplifer. 482-1797.

Mike also reported on the Vernon, Texas club having a new communications center next to the Emergency Operations Center. He told of some of the group trying to organize a RTTY organization for Health and Welfare during emergencies.

Shorty, K7BSY, told that April 26-27-28, 1985 is the date for the Mangum Flea Market and Rattle-snake Roundup. Would be a good chance for some free publicity.

Dwight, WB5KRH, said that February 19th. is the proposed date for the annual Weather Watch reorganizational meeting at the Altus city aud-itorium. More information will come out in the next newsletter.

Loren, WA5CBF, wanted to remind everyone of the upcoming Oklahoma Repeater Society, Inc. meeting (Winter). It is scheduled for Saturday, January 26th from 1-4 pm. at the Stillwater municipal bldg., 723 S. Lewis, Stillwater, Ok. The topics of discussion: Legislative, tech-nical, and coordination news, including dis-cussion of 146-148 MHz 20 KHz channel spacing. "Those who would like to make statements or provide information regarding the advisability of Oklahoma changing to 20 KHz spacing are invited to do so. No decisions concerning such a change will be made at this meeting."

The assembled group wanted to extend a special THANK YOU to Deanna, WB5UMH, for being a special person inaddition to being a weather

WHEATSTRAW CLUB NEWS

The January meeting for the Wheatstraw club was hosted by the Calumet amateurs with 25 club members attending. President WA5JHB presided over the meeting with K5GBN filling in as secretary in the absence of K5GGL. The main topic of discussion was the 25th Anniversary of the Wheatstraw club which is to be held on the 10th of March (see related article). The other discussions concerned the club repeater status, which now looks much better due to the efforts of WA5GHK in obtaining a used IMTS base station that, with a little work should make an excellent repeater for the club. The meeting was adjourned and a program was presented by WA5FLT and special guest K5JB on packet radio. Two television monitors were set up for the presentation so everyone could view the tape while also enjoying the delicious refreshments hosted by Margaret WA5RLP. The cake went fast as I nearly lost out, getting the last piece thanks to K5JB who I think was delibertly trying to keep me interested in the packet discussion. Special thanks to the Calumet amateur group for a fine meeting. 73....WD5GLD

WHEATSTRAW CELEBRATES

The Wheatstraw Amateur Radio Club was formed on February 7, 1960 with the first meeting at the first Christian Church of Calumet. There were eleven amateurs from Geary, El Reno, Okarche, Kingfisher, Dover and Calumet who were the charter members of the club. T.W. "Steve" Stevens W5VCJ was the one to provide guidance to the group during the first meeting. K5RLM James Shults was elected president with K5RER John Snyder elected vice-president and K5GDE was elected secretary and treasurer; these were the first officers to serve for the Wheatstraw Radio Club.

The club has enjoyed 25 years of fellowship and traveling as a group to many different points of interest throughout the state using 6 and 2 meters as mobile communications. The club has a revolving meeting place going from town to town each month throughout the Wheatstraw area while also attending and visiting the functions and meetings of other clubs in the state. The club has also operated Field Day for 24 years and will probably be out this year in June for the 25th time.

The Wheatstraw Club will celebrate the 25th anniversary on the 10th of March, 1985 with a dinner to be held at the End of Main restaurant in the city of Watonga.

If you actually look like your passport photo, you're well enough to travel.

It is well to let a little sunshine out as well as in.

Old mufflers never die, they just get exhausted.

---

watch professional.

It was decided to hold the next meeting on FEBRUARY19th. (or when the Weather Watch REORG-IZATIONAL MEETING IS SCHEDULED.) Dwight will keep all of us informed for the exact date.

At this time I would like to say THANK YOU to all those, seen and unseen, who work and make the 'Collector and Emitter' a success. Special Thank yous go to Joe and Linda Call-ison. Joe Harding expecially works hard at getting out the C&E and Linda keeping the bookwork up to date.

FEB 1960 **WHEAT STRAW** K5GDE RPT **RADIO CLUB** FEB 1985

MOORELAND
LONGDALE
CANTON
WATONGA
GEARY
WEATHERFORD
MT. VIEW
CALUMET
OAKWOOD
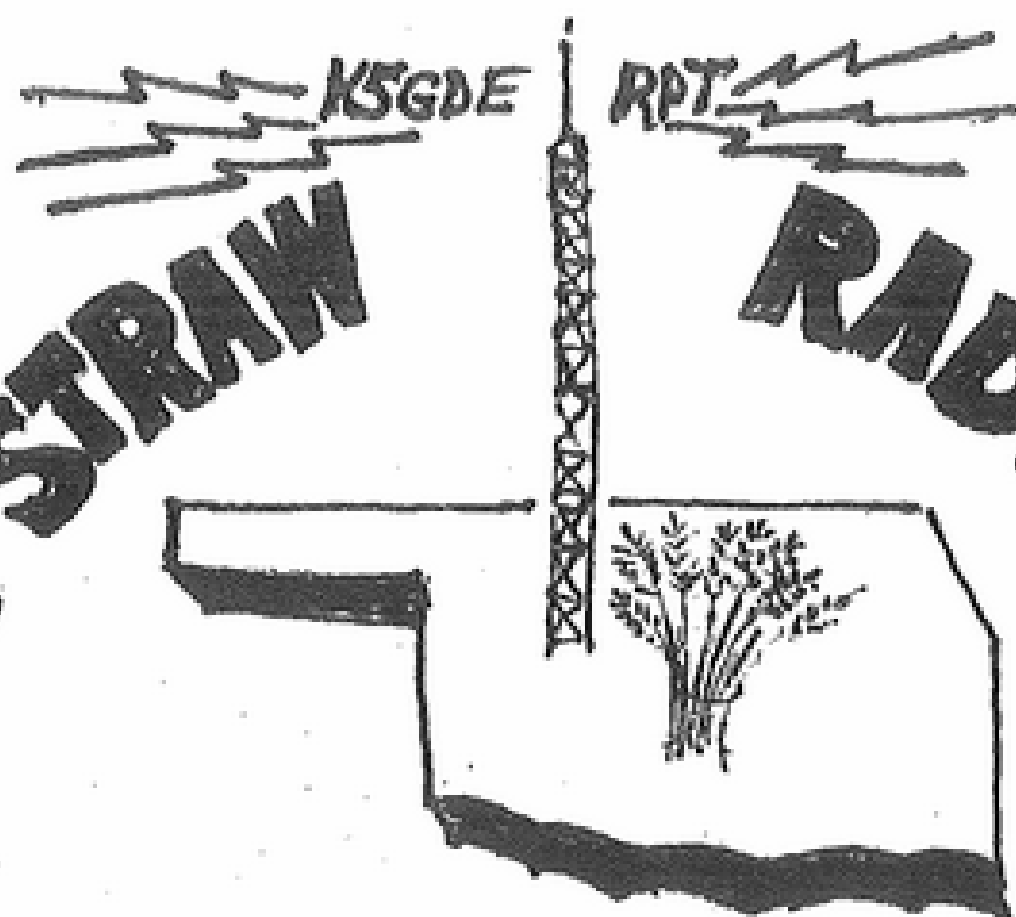
25TH ANNIVERSARY

DOVER
KINGFISHER
OKARCHE
EI-RENO
YUKON
OKLA CITY
BETHANY
MINCO
HITCHCOCK

YOU ARE CORDIALLY INVITED TO CELEBRATE
THE 25TH. ANNIVERSARY OF THE WHEAT
STRAW RADIO CLUB TO BE HELD AT THE
END OF MAIN RESTAURANT WATONGA, OKLA.
SUNDAY MARCH 10, 1985 AT 1:30 P.M.

"DINNER #10⁰⁰ PER PERSON"

PLEASE SEND RESERVATIONS AND CHECKS PAYABLE
TO WHEAT STRAW RADIO CLUB TO MARGARET L.
FISH BOX 176 CALUMET, OKLA. 73014 NO LATER
THAN FEB, 25, 1985. TICKETS TO BE GIVEN AT
THE DOOR FOR PRIZE TO BE GIVEN.

NAME _____

_____

_____

_____

NO. @ 10.00 each _____

R.S.V.P.

25

SCARS HAPPENINGS........

The South Canadian Amateur Radio Society got the year off to a good start by holding their regular monthly meeting on Saturday January 12th, at the Red Cross building in Norman.

The new president, Dave-KC5IT, has exciting plans for the club for the coming year. In view of the goals for 1985, two committees were formed. They are:
A committee to plan a Novice Testing program to accompany a Novice class. This committee will be headed by WB5RZX, Monte.
Another committee will investigate the possibilities of obtaining a new controler for the club repeater. Ken, N5BEW and Monte, WB5RZX have been appointed to this committee and will report back to the club in the near future.

SCARS also welcomes a new member this month. Frank, W2OCM attended this month's meeting and paid his dues on the spot. Frank and his wife have recently moved to Norman from Huntington, New York. He is a welcome addition to the club.

And now, a guest columnist -N5BEW- reports the following:

147.06 Repeater Update

From the "WHAT IN HECK IS THAT NOISE DEPARTMENT"...The Repeater is still suffering from some kind of interference. However, we are not alone in our misery. Norman PD's channel 4, Cleveland County Commissioners, Norman Fire Department, County Sheriff, and also various other radio services are being bothered by the noise. We have determined that two of the mixed signals are WKY and KOMA, but we are still listening for the other possible signals.

A serious search for a new controller and autopatch has begun. Monte (WB5RZX) and I are on the committee to look for controllers, autopatch designs, alternatives, pricing structures, engineering design problems & considerations, OHSA, FAA, FCC, and DOT standards compliance, et al. So far we're looking at $500-$1000 (maybe we should apply for a grant from Uncle Sam to study the situation for a while).

BELATED THANK YOU DEPARTMENT: The every day users of the oh-six machine (all four of us, HI, HI) may remember last summer when the gremlins chomped down on the machine. Well, a few people jumped in the mess and fixed it for us and I'd like to publicly thank them. Darryl-WA5TOO, Dean-N5AMV, Mike-N5MS, Lewis-KD5WA, and anyore else who passed by and offered advice. Through their efforts, a cranky IDC circuit was tamed, the existing 100 Watt Motorola PA was put into service, and the small solid state PA was put out to pasture. This increased our power out of the duplexers from between 7-10 watts to around 80 watts. After repairing a flaky piece of coax, the big PA tuned right up to around 100 watts into the duplexers. Those PA's are known for very durable service, and it should rival the "BIG KAHUNA " in longevity.

-Ken-N5BEW-

My sincere apology to Mr. Joe Harding, and the Great Plains Amateur Radio Club as a whole for missing the publication deadline. Because of New Years, our club meeting was changed to the following week and then to make matters worse, Stephen, the youngest boy, came down with appendicitis and was in the hospital the entire following week. I'll certainly do my best not to miss the deadline again and think I'd be safe in saying that Steve won't have appendicitis in the near future.

At the January 8th meeting of the Great Plains Amateur Radio Club several important items were presented and discussed. Among these topics were preparation for the upcoming Eyeball QSO and licensing to be held at Mooreland, a need for Club Constitution and By-Law review and possible revision, and best of all, a surprise Birthday celebration for our youngest amateur member, Mark, N5HJA. Myron Lusk, KA5UYO, was presented and welcomed as a new member of our organization.

To add variety to our column, we will from time to time, feature one of our club members, tell a little about them, their family, contributions to the amateur community, and other interests they might have.

The subject of our first club profile is Mr. Windle Hatchett, WA5PLW. Windle and Joan reside in Ft. Supply, Oklahoma where both are employed at The Western State Hospital. Windle has been an amateur for the better part of 20 years and with the exception of replacing the "N", old novice designator, with a "B" has maintained the same call sign.

Windle is very technically minded, enjoys working with electronics and has served as repeater trustee and technician for several years. He also enjoys personal computers and has put his computer to work maintaining records for another of his interests-bowling.

He served admirably as Club President for 1984, has been a faithful and dedicated club member for many years, and has done much for the futherance of amateur radio in Northwest Oklahoma. We are indeed fortunate to have excellent amateurs, such as Windle Hatchett, WA5PLW, as members.

73
Lois, KA5FYA

BULLETIN BOARD NUMBERS

Alcatraz	348-4811	High-Tech	528-8009
Apple Flyer	793-7562	Infocomm OKC	942-1375
Asylum(weird)	454-3904	Jamm Comm	677-2932
Tari Revolut	354-7469	Mega Com	354-0732
Buckboard	528-3175	Nitehawks	728-3790
BagEnd(8:30-		Omega Com	685-4688
to 9:30)	528-3898	On Line	1-800-438-2438
Chickasha	1-224-9010	Otis	373-1893
Coconet	376-1494	PCWCC	787-1814
Commodore	366-7345	Peoples	946-5333
Commodore'Hot"	324-5020	Pirate	799-8076
Commodore	381-2041	Phoenix	340-8421
Commodore	643-4890	Ponca City	1-765-2598
Datacomm	341-3149	Powersurge	751-0032
Defconi	528-2054	Realm Darkness	354-5169
Dis Dragon	751-6901	Revolution	354-7469
Enchanter	495-2718	Second Hand S	946-2888
Enigma(Atari)	670-6511	Stargate	340-8588
Flex-Net	728-7654	Super Com	789-6829
Galifery	840-3860	TACE	670-6511
Gamemaster	681-6842	Team Electro	793-8300
Gemini I(Com)	672-2535	Timewarp	672-8094
Gemini II	732-1160	Scoreboard	360-7169
Gemini IV	794-5288	Shawnee BBS	1-273-4850
Gemini VI	691-2381	USEMC	360-3020
Heathkit	848-9329	Wizards Scrol	769-7828

COCONET   376-1494

The January meeting was held at the Vo-Tech with a very good turn-out of 18. The nice weather had something to do with it I'm sure. (It wasn't snowing or sleeting!)

The next meeting will be held at the PIONEER MOTOR BANK Building, 14th & Lake Road. In Feb. the meeting will be on the 21st at 7pm.

Several long overdue changes were made in the club's By-Laws. I will try to have the changes typed up and ready for the next meeting. An extra autopatch fee was initiated to help defray the cost of the phone line. It will be $4.00 per year per user, due in January of each year. Several people have already paid for '85, the code will be changed at the end of January so be sure to contact me if you want to have access to the patch. I will personally contact each of those who have paid the '85 fee and inform you of the new code when it is decided on. The club and all interested Hams will help with the 10kM Groundhog Day run on Feb. 2nd. Please meet at Lake Ponca Park at 7:30am. Be sure to bring your HT. See y'all there.

FOR SALE: 6 meter beam, six element, Hy-Gain. 15 dB gain, 20-25 dB front-to back. 2 kW max input. 24ft 5in boom, 9ft 9in elements. 1.8 sq ft wind load. It's brand new, still in the box, never been put together, comes with all hardware and shipping paid to you for only $55.00. Call or write: Dave Land, 2512 Bonnie, Ponca City OK 74601. Phone 405-762-8616. 145.29 Enid/146.97 Ponca.

FOR TRADE: 1750W PEP Linear, table top cabinet, external P.S., spare tubes, Matches Drake TR4C, 12 1/2 W 12 1/2 H 13 1/2 D, Worth about $350 in trade or part trade. Need 2 meter Hand Held, IC-25, IC-22, Bird Wattmeter, Remote coax sw, 14v/20A P.S., etc. N5PC, Bob See, 1708 E Woodland, Ponca City OK 74604. Phone 405-762-4426.

SEVERE WX MEETING

The annual WX meeting of OCAPA will be held at FAA HEADQUARTERS BUILDING in the 1st Floor Auditorium on the 19th of February. The following agenda will be used and strictly adhered to due to time limitations:

7:00-8:00 -- Net Operations Check-in Procedures
8:00-9:30 -- Skywarn Presentation Certification Exam

The first part of the meeting will be conducted by N5IH Henry Isreal, WX Net Control. He will be pointing out all of the net procedures for the weather net.

Mr. Rich Tosotona of KTOK Radio will present the weather portion of the meeting and administer the OCAPA certification exam.

We appreciate all the work and efforts that have been put into this operation in the past. We truly hope this meeting will help everyone in the upcoming storm season. Keep your eyes open and good luck!

The Holidays are over and our last meeting in December was held at Morrisons Cafeteria. A good meal and time was had by all and some calenders and pens were given away by an anonamous donor.

The meeting in January was held at the E.O.C. in Edmond. The main business agenda was election of officers and the results were N5DBM Ken Stepp President, K5SKA Bill DeMand Vice President and KC5GN Bill Wright Secretary and Treasurer.

Allen Watson W5ERY brought up the two Senate Bills concerning towers that we should write to our congressmen suggesting that they support these Bills by Senator Barry Goldwater Senate Resolution #36 is one and the other is Senate Resolution #66. Allen also showed us his QSL card from K7UGA whom he worked December 1,1984. Very good Allen.

Bill McMullin WD5EXY was our program and he had a neat circular antenna that he had good luck with in many configurations and on several bands it was well constructed and was on a magnetic mount. He also said it could even be designed to work on 20 meters and it would be about twenty feet in diameter which is not too large when you concider how large antennas can get when the frequencies get lower and lower. Bill also rejoined the club and we are grateful to the new people who are deciding to join EARS and be with the friendly group.

Best Wishes For The New
Year

Bill K5SKA and all that!

WELCOME TO HAM RADIO

After being interested in hamradio for several years, our friend Gene went to work. He passed the Novice exam just before Christmas. The 610 was in the mail. All Gene had to do was wait. Wait 3 or 4 weeks for his ticket. Gene started gathering equipment. He put up a tower and antenna. Then he took his wife and 2 daughters and went to Michigan to visit his mother for Christmas. It was a long over-due visit since it had been several years since seeing his mother. The little family had a nice visit, then returned home. Upon arriving home they picked up the mail. There it was! The license! Just what Gene wanted. I think he thought "Now I'm on my way to being a ham. A little later to upgrade Maybe to Extra.Maybe a career in electronics." A beautiful goal for anyone, you must admit. But.... upon entering their home something was amiss. There sat the Microwave not where it should have been. The TV and stereo was gone. But on to the hamshack. Got to call Tom and tell him the license came. WHAT? Nothing there. The room was empty. The cupboard was bare. I think he had somewhere between 2 and 3 thousand in gear there when he left. Now nothing. Well, most of us would give up. To heck with it. But not Gene KA5VDN. He is on the air. CQ CQ CQ DE KA5VDN KA5VDN K So our best wishes to Gene. Later the insurance co tells Gene that his policy doesn't cover ham gear...

KA5FUU

ANTENNA REGULATION PREEMPTION UPDATE

A month or so ago, I wrote a brief article concerning PRB-1, the request by the American Radio Relay League to the FCC for an order of limited preemption against local municipal and county control of the height of amateur radio antennas. The problem had been a dirth of comments and more were needed in order to impress the FCC with the seriousness of the problem faced by amateurs in erecting and using antennas of reasonable heights for amateur radio. I now understand that the response nationwide for additional comments has increased somewhat. It will be difficult to predict when the Commission will take any action on the League's request. These things take time and there is no doubt that the first response that the Commission will take will be to study all the comments carefully. The comment period is now closed, but that doesn't mean that there is not more that can be done to help convince the FCC that the question of local overregulation of amateur radio antenna is a serious problem indeed.

An old friend of amateur radio, Barry Goldwater, has swung into the fray. Senator Goldwater has understood the public service and technical nature of amateur radio and the need for effective antennas. For years, the Senator ran a virtually around the clock MARS station from his home in Phoenix passing thousands of messages overseas. His lifelong interest in the affairs of amateur radio has once again brought him to our aid.

In supplementation to the League's present pending application before the FCC for an order of limited federal preemption, Senator Goldwater has introduced a Senate Resolution in support of the League's request. The request was introduced on January 3, 1985. Senate Resolution 36 needs the support of every amateur radio operator to ensure its passage. If adopted, it will declare the sense of the U. S. Senate that the FCC should affirm that state and local regulations must not unreasonably restrict communications to and from amateur radio stations. Senator Goldwater actually introduced two resolutions. The other resolution pertains to the rights of citizens to erect and maintain television receive-only (TVRO)satellite dishes. Senate passage of this amateur radio resolution will go a long way toward convincing the FCC that favorable action on PRB-1 (the League's request for federal preemption)would meet with the approval of the U. S. Senate.

The language of the Resolution is relatively simple:

RESOLUTION - To express the sense of the Senate relative to unduly restrictive state and local regulation of amateur radio antennas.

RESOLVED, That it is the sense of the Senate that, consistent with the policy of the United States to recognize and enhance the value of the Amateur Radio Service as a voluntary noncommercial communications service which provides public service and emergency communications, the Federal Communications Commission should affirm that state and local regulatory authority, including, but not limited to, zoning, public safety or health authority, and authority to grant a license or permit, must not be exercised so that it does not: (1) discriminate unreasonably among amateur radio antennas and other types of home communications and/or reception antennas, or (2) have the effect of prohibiting or frustrating the transmission or reception of amateur radio communications by Federally-licensed amateur radio stations, except as may be necessary to carrying out a clearly articulated and affirmatively expressed compelling governmental interest related to the health and safety of the community.

Senate Resolution No. 36

What has been the problem here? Urban management is not easy, especially in heavily populated areas. City planners write regulations that they think will harmonize and provide reasonable use of the area. Unfortunately, some of their views regarding aesthetics and the "ugliness" of amateur towers comes into play. Thus many amateurs who reside in cities are stuck with regulations that limit the height of their antennas. Generally, the city has adopted an arbitrary height regulation with no effect or consideration given on how it will effect amateurs. The problem is becoming more widespread as more and more cities and municipalities are adopting uniform zoning and planning regulations. The proliferation of antenna height zoning cases (including the OKC case) have been demonstration of the seriousness of the problem. Without direction from the FCC, many courts have been reluctant, if not resistant, to striking down zoning regulations that limit the height of amateur radio antennas in residential areas. The lack of a clear statement of preemption has created a lot of bad law. Fortunately, many of the cases can be settled on terms favorable to the amateur, but only after much expense and litigation. The recent case in Burbank, Illinois is a good example. After two years, a settlement was entered into between the City and the Plaintiffs that permitted antennas to a height of 65 feet. The costs and hours expended in obtaining the settlement could have been avoided had the FCC clearly expressed its interest in the amateur service.

How can you help? The passage of Senate Resolution No. 36 would be a strong impetus to the FCC to act favorably on the League's limited preemption request. Sooooo, write your Senator expressing your interest in Senate Resolution 36 and its passage. Senators don't like to read long letters, especially those of technical nature. So this letter will be different from those comments filed with the FCC regarding the preemption proceeding. Instead emphasize the good that amateur radio does and the necessity for effective antennas. Also emphasize that many cities unduly restrict the construction and use of effective antennas. Don't tell about the fight you had with your neighbor. Remember, he can vote, also. Emphasize the positive and necessary uses of amateur radio in public service and international good will. Keep the letter short. Don't add anything unnecessarily. This might only generate questions. In almost every instance, the Senator will respond with a short nondescript machine printed letter, yet personally signed. It will express concern for your cause and indicate that he will study the issue carefully and, most importantly, take your views into account when making his decision. Thus, the senator will be free to do what he wants while giving you the satisfaction of vicarious representation. Nevertheless, it is important that you write and express your interest. This may very well be the only chance amateurs have to obtain success on this issue. There were unfavorable comments filed by various municipal organizations in opposition to PRB-1. If they are given a lot of time to mobilize against the Senate Resolution and PRB-1, the Commission might back off.

It is not that amateurs are trying to sneak up or pull something over on the FCC. They know what they are doing, but they can be responsive to political pressure. The whole purpose of the Senate Resolution is to demonstrate that. But it is equally important that the FCC know that the national interest lies with a limited preemption of local regulation of amateur radio antennas. Too many federal administrative agencies come in for considerable criticism for "overregulation." As such, they have become sensitive to this criticism. I spent some time talking with the general counsel of the League, Chris Imlay, N3AKD, before he drafted the League's original preemption request. We knew that the Commission would never buy a request that they completely preempt all regulation from the local level. The FCC just doesn't have the enforcement power to handle all that. Instead, it was felt that a request for a limited preemption that left the cities and municipalities the authority to regulate those matters within their interest which included health, safety and welfare was the general approach. If the Commission set down some effective guidelines, enforcement could then take place in the Courts. It was the lack of this type of clear language that has made many of the antenna cases so difficult in Court. And believe me, there is a lot a bad law regarding this issue. Many times the settlement is effected because city officials are educated in the process of the lawsuit, but it is an awful expensive process for the amateur. There have been numerous instances of public hearings where this education process took place (K3JW provided me with a tape of just such a meeting) but again, opposition can also speak and many times these meetings have results based on politics. Frequently, a city official might want to rule in favor of the amateur, but is relunctant to do so because of the political opposition. A clear statement of preemption by the Commission would substantially ease this type of decision making.

So pick up a pen and paper and write your Senator expressing your interest in his vote for Senate Resolution 36. The addresses for Oklahoma's two Senators are as follows:

> Senator David Boren
> Senate Office Building
> Washington, D.C. 20510

> Senator Don Nickles
> Senate Office Building
> Washington, D.C. 20510

Drop them a line. You might send a copy to Dale Clift WA3NLO at ARRL headquarters.

Micheal Salem N5MS

DAYTON EXTRAVAGANZA-AIRLINES CRY UNCLE

I just got my preliminary brochure for the 1985 Dayton Hamvention. It looks about the same as in the past years. Same old same old. Sooo, am I going to go? You bet your Icom. The same old is just fine with me. I have also enjoyed the social occasion that Dayton has become. It is always great to see all the old friends who live in Dayton like Chuck, Bob, Keith and the out-of-towners who join us like Hoss and Bob and the others. Besides we travel a pretty good contingency from Oklahoma. There is alway about 5-10 people from the OKC area and a few more than that from Tulsa who always make. Great stuff, this Hamvention.

It looks like the flea market is going to be a three day jobber this time opening on Friday at Noon and running through Sunday afternoon. This seems like the first time that it has had the same opening time

for two years in a row. I understand that when the flea market was first expanded to friday several years ago, the commercial big boys inside complained about the lack of customers inside. So they cut the flea market back to Saturday starting time. Then the people outside started complaining. Now it is back to three days and I guess that the commercial boys inside will need to prayforrain.

The brochure is only preliminary, so there is really not a lot of information about the programs, but they do indicate that there will be programs on packet radio, antennas, computers, AMSAT, Hams and the Law, Media, RTTY, 10 Meter FM and several others. I can say from personal experience from the very few of the Dayton programs that I have attended is that most of the speakers are the primary movers and shakers in the fields that they talk about. It also looks like noted humorist Jean Sheperd K2ORS will be the banquet speaker. Dayton is also soliciting nominations for amateur of the year and it seems to me that Oklahoman Owen Garriot should be a shoo-in. At least, I will vote for him if they ask me.

Registration is $8.00 in advance and $10.00 at the door (after April 15). About 40 local motels and hotels are cooperating in room reservation system. You have to get a list of the various places and get your requests in before March 29. From experience, anybody who sends in an application for room reservations that late will probably get placed in Cleveland. We made our room reservations last year when we left the Hamvention and they put us in the downtown Ramada, not my favorite place. About the only redeeming grace about it was that it was easy to run the 40 meter long wire out the window to the swimming pool 4 floors below. It worked great back to Oklahoma.

For housing reservations, write:

> HOUSING
> Dayton Hamvention
> 1980 Kettering Tower
> Dayton, Ohio 45423-1980

Registrations should be addressed to:

> DAYTON HAMVENTION
> P. O. Box 44
> Dayton, Ohio 45401

Remember, advance registration closes Friday, April 12. Registrations received after that date will be held at the Hamvention Office and the HARA Arena entrance registration desk.

I have enclosed a motel reservation form and Advance Registration Form on the next page for those of you who might be inclined to clip coupons. A list of motels is included, but I think that it would be wistful thinking at this point. I just suggest that you request the closest motel to the hamvention site.

Transportation to Dayton will be easy and cheap this year. Last year, on a dare, WA5FLT, WB5UIY and myself rolled out my airplane for the flight up there. We caught a little weather on the way back and had to spend the night in Farminton, Mo. Nevertheless, even with the extra night's motel room, the cost was about $175.00 for the round trip about half the commercial price. This year Stan checked on commercial reservations and found that they were $375.00, about a $25.00 increase over last year. That was even more of an incentive to take the private plane, but we made the reservations anyway as a last resort contingency. Several days ago I saw an ad in the daily newspaper advertising cutrate cut-throat flights on TWA. Stan saw the

Advance Registration . . . (S.A.S.E. would be appreciated.)

HOW MANY		COST	AMOUNT
_____	Advance Registrations (Valid for all 3 days)	@ $ 8.00	$ _____
_____	Banquet only (Advance)	@ 14.00 each	_____
_____	Women's Luncheon (Saturday)	@ 6.00 each	_____
_____	Women's Luncheon (Sunday)	@ 6.00 each	_____
_____	Flea Market Permits **(Advance only)** (Valid for all 3 days)	@ 17.00 per space (Max. 4 spaces)	_____
		TOTAL ENCLOSED	$ _____

Mail to:
Dayton HAMVENTION
Box 2205
Dayton, Ohio 45401

Make checks payable to Dayton HAMVENTION
There will be no Banquet tickets available and no refunds on
Banquet tickets made after noon, Saturday, April 28.

Motel Reservation Form . . .

Dayton HAMVENTION — April 26, 27, 28, 1985 • Deadline for Reservations — March 29, 1985

NAME _____ CALL _____ PHONE (____) _____

ADDRESS _____ CITY _____ STATE _____ ZIP _____

Arrival Date _____ ☐ Before
6 P.M.
☐ After   Departure Date _____

☐ Single   ☐ Double (1 bed, 2 persons)   ☐ Double Double (2 beds, 2 persons)

Motel
Preference:
1 _____   3 _____
2 _____   4 _____

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same ad and had already tried to call me. The special rate was about $156.00 round trip! I called to check the fare restriction and found that the price was correct and that all you had to do was pay for the ticket more than 30 days in advance. You also could not cancel the reservation or change it without incurring a 25% penalty, but that is still no problem because the dates and times are fixed with few changes. I went ahead and paid for the ticket and it came in the mail. At that price, this will be the primary mode of transportation with no secondary backup. It is about time that we got a break on a trip to Dayton. Better call for the reservations for the plane now. It is possible that TWA may not keep it up. I understand that Polaroid has some break on a TWA ticket when you buy a camera. They have a 25% discount, but you must buy the ticket before the end of January or something. Don't think that I would waste that on a ticket to Dayton, but it might not be a bad idea for a trip elsewhere. Check with you local travel agent. The tickets are nontransferable, so it might be prudent to at least plan to go to Dayton before making the reservation. You could pay a penalty of 25% if your plans change.

So pack it up and sack it up and get those plane tickets. I don't care if the flight is a peanuts and coke flight. At that price, I could pack a steak dinner and take it with me and still save about $150 to $175 dollars. And that is an ultra savings for an ultra amateur radio experience. Take all those dollar bills you will save for the plane and buy something nice in the flea market. At that rate, that is almost a walkie-talkie.

Micheal Salem N5MS

VOLUNTEER EXAMS IN OKLAHOMA, AT LAST!!

I got a note from Bill Malicoat NI5Y who apparently has been able to field a VE team in the Northeastern part of the state. I am going to reproduce his notice on the next page for your information. I would suggest that anybody who wants to take an amateur exam in Henryetta, Tulsa or Okmulgee give Bill a call or write at the following address:

Bill Malicoat NI5Y
602 Bluff Street
Henryetta, Oklahoma 74437
(918) 652-4936

They plan to make the schedule monthly, but I reproduced the first couple of months as shown. They also have the latest FCC Form 610 (June 1984) for you use. A little prior notice would be helpful.

Call if you intend to take the exam and get on the list. Unannounced drop-ins will be accepted, but for the convenience of the examiners, give them at least one days notice. Get the new Form 610, fill it out correctly and bring it with $4.00 cash to the designated examining locations on the date specified. Novice exams are Free.

Bring at least one #2 pencil and an eraser (only if you make misteaks). You are also allowed to bring a calculator, scientific or otherwise, but no programable calculators will be allowed.

The plan is to keep the examinations monthly for now, but this could change depending upon the workload and other factors. The VE groups plan on administering all classes of licenses.

You must bring a xerox (photostatic) copy of your license (current, if you are licensed). The original cannot be accepted.

Please be on time. Call as soon as you know you will be taking the test or if you need additional information.

TIMES AND PLACES:
(Until further notice)

HENRYETTA, OKLAHOMA
Location: Holiday Inn, Highway 75 and Trudgeon
Time: 1:00 p.m. to 4:00 p.m.
Date: February 2, 1985
       March 2, 1985
       April 6, 1985
       May 4, 1985
Period: 1st Saturday of the month, except holidays.
Meet: In Lobby

TULSA, OKLAHOMA
Location: Tulsa County Vo-Tech Auditorium
          37th and Memorial, Tulsa, Ok 74145
Time: 5:00 p.m. to 7:30 p.m.
Date: February 20, 1985
       March 20, 1985
       April 17, 1985
       May 15, 1985
       June 19, 1985
       July 17, 1985
Period: 3rd Wednesday of the month, except holidays.
Meet: In auditorium

OKMULGEE, OKLAHOMA
Location: Oklahoma State Tech
          4th and Mission, Okmulgee, Okla
Time: 2:00 p.m. to 5:00 p.m.
Date: February 26, 1985
       March 26, 1985
       April 23, 1985
       May 28, 1985
Period: 4th Tuesday of each month, except holidays.
Meet: Student Activities Conference Room

This is the only information that I have of any VEC activity in OK. Other groups are requested to forward their schedules and information to C & E for publication. What's going on in OKC right now? Thanks Bill for the information.

Micheal Salem N5MS

THE NEW ARRL HANDBOOK- A MINIREVIEW

Recent licensee Chas KA5UPM bought a hardcover edition of the 1985 Handbook and "handed" it off to me for a quick lookover. Whew! What a job. And I have to say that it is well done. When I started in amateur radio (lo these many years ago, almost 22 or so) I bought a new (to me) Handbook, just like Chas. I found a book that just barely mentioned transistors and concentrated on the tried and true tube components without much mention of these new fangled flash in the pan solid state devices.

Still I learned a great deal from that book. It was indeed a frequently used reference on many things that I built or studied. I liked it so well that I bought another one about 5 years or so later when it was "revised". They did bring it out of the "dark ages" with the revision, but stopped short of the renaissance. Still, I liked this book also and even bought a used one for the next year.

My Handbook buying habits have been more sporadic since then. I probably have about 5 or 6 altogether including one or two that I have given away (better make that lent, some loans do become permanent).

The 62nd Edition of the Handbook is a behemoth. And it is basically a new book. The 23 chapters from last year have been expanded and revised to 40 chapters chocked full of information from electrical fundamentals to antennas, transmissions lines, repeaters, packet radio and other special modes to assembling a station and getting on the air. Modern technology contributed a lot to the manual with modern day wordprocessors permitting changes and revisions down to the last minute. They even have a picture of W5LFL during his historic shuttle ride. The book also includes a bunch of projects for construction and printed circuit board layout drawings have been grouped in the back of the book for easy reproduction. All the typeset is new. Over 3,000 manuscript pages and 1700 drawings went into the new edition.

A lot of the tired old pictures have been replaced with new updated photos of young kids enjoying amateur radio. It will be so important to get new people into amateur radio so it won't die with old fogies like me. The theory sections of the book are logically arranged and simply divided. The mathematics is there for the explanations, but the book makes use of nomagrams and charts to organize data. There is even a section on tubes and construction projects still abound in great quantities. There is a good section on frequency synthesizers and some construction articles for those who might want to roll their own.

I obtained an amplifier a year or so ago that was manufactured for the CB band and wanted to put it on 10 meter FM. The amplifier used two MRF 454 transistors and pumped out about 140 watts. I didn't get any data on it, so you can imagine my surprise when I found it in the handbook in a slightly modified form. Come to think of it, that shouldn't really be a surprize. I bet the manufacturer stole the circuit out of the hand book many years ago when he began making them. I also found that you needed a low pass filter for the amplifier, one of the cost cutting measures that the maker installed. Fortunately I had a low pass filter I won at Hamcom a couple of years ago.

The antenna section is good fundamental info and the sections on packet and repeaters covers enough to get you interested. Can't really think of anything that I would complain about and anything that I would say is really nitpickin. No book can be all things to all people.

I remember seeing a list of the best selling books of all times. The ARRL Handbook was in the top 10 or top 5, I really don't remember. The number one best seller was the Bible, but it has had about a thousand year head start on the handbook. Nevertheless, the new edition of the handbook ought to keep it up there in the running. In fact, I might get another one myself. I have spent several hours examining the copy that I borrowed and really haven't had time to check out everything that I wanted to look at.

The book is $15.00 in the USA and possessions. For those readers in Canada (what a dreamer I am), you have to pay $16.00. Chas sprung some extra bucks for a clothbound edition (just $22.50) and it is well made. I don't really know if it is really clothbound, feels like high grade plastic. They call it clothbound. Go ahead and buy the book. It will be a long time before they make a movie of it.

Micheal Salem N5MS

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
FEBRUARY The managing editor assumes no responsability for the data contained herein.					1	2
3	CIMARRON 4	M O R I Great Plains 5	6	Aeronautical Center ARC 7	8	SCARS ARDMORE COCO 9
Wheatstraw WATONGA QCWA 10	EDMOND Club 11	@ 76'ers 12	13	ALTUS AREA 14	15	VHF Club FREE COFFEE + DONUTS 10 AM RED CROSS 16
17	18	AUTOPATCH WEATHER MEETING AT FAA 19	20	KAY County 21	22	23
24	EDIT CENTRAL OKLAHOMA RADIO AMATEURS COLLECTOR — EMITTER 25	CORA MEETING RED CROSS EVERYBODY WELCOME 26	27	28		EARS ?