

Collector & Emitter

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June 1995

Volume 21, Number 06

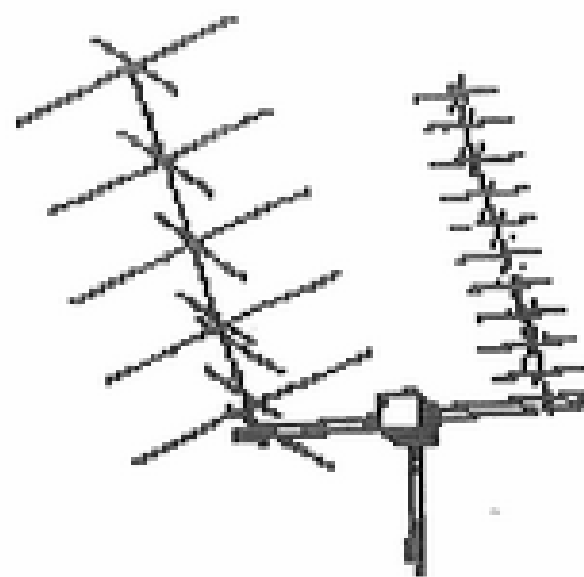
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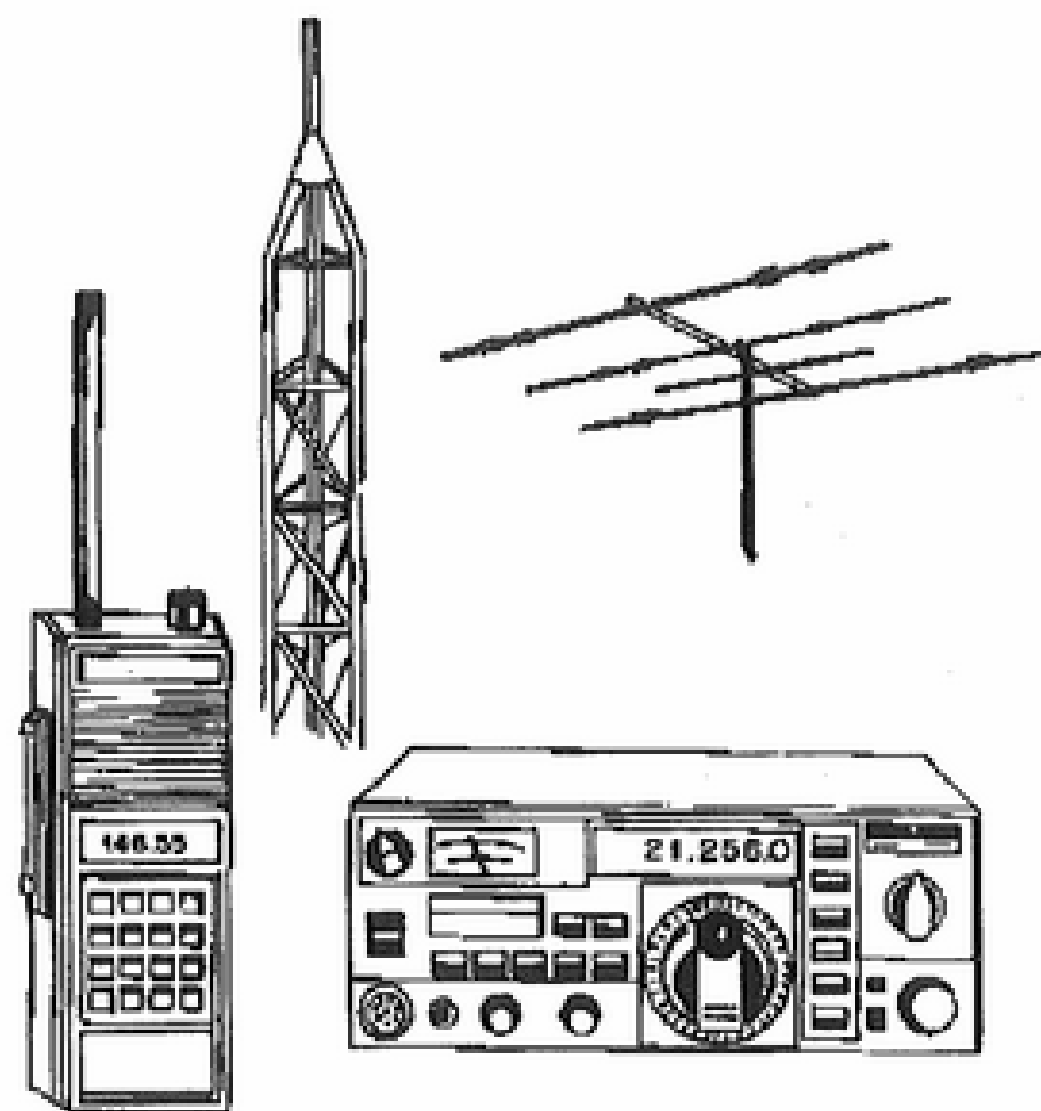
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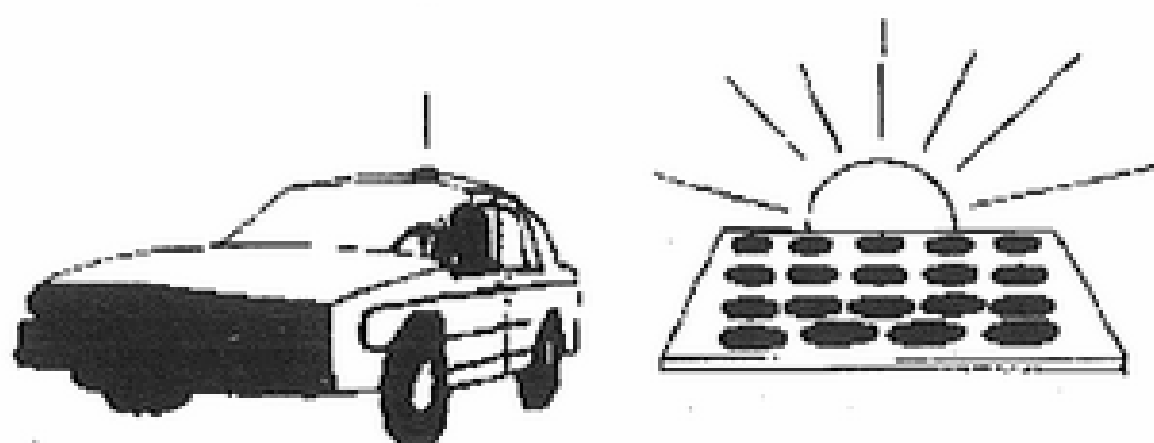
Letter from The A. R. R. L.



Field Day June 24-25, 1995



Ham Holiday 1995 Registration



Amateur Radio - It's a Privilege Not a Right

Collector & Emitter**Harold C. Miller, KB1ZQ****Editor****Linda G. Miller, N1LPN****Circulation Manager****Central Oklahoma Radio
Amateurs, Inc.****President: Chuck Wilhite, K5NK****V President: Jerry Sproul, KJ5KP****Secretary: John Brassfield, N5SAM****Treasurer: Perry Jenkins, KB5TOT**

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

2	95/12	2
DOE, JOHN E.		KA5ABC
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RADIOVILLE, OK		74321

The "2" means Vhf Club, "95/12" means the year/month C&E subscription expires. The "2" is for postal zones.

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

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1. Aeronautical Center ARC Meets: 1930L, 1st Thursday, FAA, S. MacArthur, OKC Pres: Dick Russell, KJ5VV 733-2141 Sec/Tr: Brad Nelson, KJ0W 793-9470 VP: Chuck Bryant, KB5ZVZ 737-0423 Editor:	11. Edmond Amateur Radio Society Meets: Odd Months, 1400L, 3rd Sunday, Edmond EOC, Even Months, Dinner, 3rd Friday Pres: John Thomason, WB5SYT 340-1798 VP: Richard Winnard, KJ5QU 840-4237 Sec: Ken Stepp, N5DBM 341-7651 Treas: Sue Snyder, N5VWI 341-8753 Editor: Richard Winnard, KJ5QU 840-4237
2. Oklahoma Central VHF ARC Meets: 1100L, 3rd Saturday, Neighbor's Resturant 3401 N. Classen Blvd, OKC Pres: Jacklyn Olsen, KA5ENU VP: Ken Eason, KF5JS Sec: Joe Buswell, K5JB 732-0676 Treas: Ellard Foster, W5KE 789-6702 Editor: Joe Buswell, K5JB 732-0676	14. Cimmaron Amateur Radio Assn. Meets: 1930L, 1st Thursday, WX5Y Playhouse 827 S. 13th, Fairview Pres: John Medley, N5WVU VP: Kenneth Monahan, KB5SOM Sec: Dennis Painton, WK5V 764-3599 Treas: Nadine Painton, N5FMH 764-3599 Editor: Kenneth Monahan, KB5SOM
3. Mid-Oklahoma Repeater, Inc. Meets: 1900L, 1st Tuesday, Favorite's Cafe, 36th and S. Western, OKC Pres: Scott Walsh, N5NYS 787-3804 VP: Rick Masters, N5WNR Sec: Jim Buswell, N5BEQ Treas: Craig Cornwall, N5VIS Editor: Dean Ward, N0PAD 681-4606	15. South Canadian ARS Meets: 0930L, 2nd Saturday, Red Cross Bldg North OU Campus, Norman Pres: Don, KJ5KB 321-1673 VP: Mike Winkel, N5SOF 366-8639 Sec: Keith, KB5FCI 329-2213 Treas: Bill, N5UMH
4. Oklahoma City Autopatch Assn. Meets: 1930L, 3rd Tuesday, Salvation Army Bldg N.W. 50th and Penn, OKC (Back Door) Pres: Brad Nelson, KJ0W 793-9470 VP: Mike Fields, KB5WIC 720-9123 Sec: Perry Jenkins, KB5TOT 354-5075 Treas: Cheryl Brassfield, KB5WQR 685-8070	Support Ham Radio Do You Know of A Club That Does Not Belong to CORA? Let's Make CORA Grow!!!!
9. Wheatstraw Amateur Radio Club Meets: 1430L, 2nd Sunday, Location Varies Pres: Leo Peil, WZ5H 886-2998 VP: Jimmie E. Payne, N5VDY 233-4215 Sec/Tr: Joe Garland, WA5FLT 893-2660 Editor: Ralph Wilder, WA5PFK 623-5421	Central Oklahoma Radio Amateurs Meets: 1930L, 4th Tuesday, Salvation Army Bldg N.W. 50th and Penn, OKC (BackDoor) Pres: Chuck Wilhite, K5NK 721-4926 VP: Jerry Sproul, KJ5KP 354-2061 Sec: John Brassfield, N5SAM 685-8070 Treas: Perry Jenkins, KB5TOT 354-5075 Editor: Harold Miller, KB1ZQ 672-7735

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Edmond Amateur Radio Society

June is here! Hard to believe the year is nearly half gone. Here is hoping your summer is off to a great start. Reunions, vacations, and hamfests make for fun and numerous commitments. EARS has been an occupied group of amateurs over the past several weeks, see below:

BOARD MEETING

All board members except Mike and Ken were present with several club members present to include: Jim, KC5MJS, David, KC5KJE, Ernie, K5KYD, Brad, KG5UK, Edith, KA5YPX, and Ken N5TWC. We discussed the normal topics, but also looked at membership renewal status, equipment insurance, club inventory, securing a club call and Field Day. No wonder this was a two-hour meeting! It is always rewarding to have a nice turnout of club members at the board meetings. Thanks to those who come!

DINNER MEETING

We had our April dinner meeting at Johnnie's on Britton in OKC with about 40 members in attendance. Members had a good time visiting and keeping up with one another and differing family activities. Richard, KJ5QU, and Hal, KBIZQ, summarized their amateur radio activity associated with the OKC downtown bombing.

In the May issue of the *Collector and Emitter*, Hal and Linda, NILPN, wrote excellent articles as to the explosion and amateur radio participation, in the disaster.

Richard mentioned that our June dinner meeting would be a special Thursday night edition scheduled for June 22nd,

6:30 p.m., at the Black-Eyed Pea on Memorial Rd in OKC. This is just previous to Field Day which is scheduled for June 24th and 25th.

Unfortunately, just a few days after our dinner meeting, we learned that Mr. C. F. Rush, Forrest's dad had passed away. The club sent Forrest and his family a symbol of our condolences. The funeral service was on May 1st and was a beautiful expression of love for Mr. Rush. The string music quartet redefined the purpose of music to a lot of us. Clara, KG5UG, thanks for going to Mr. Rush's service.

EARS ACTIVITY IN THE OKC EXPLOSION

Several members passed health and welfare traffic, served at Salvation Army sites for disaster relief and numerous family members kept things at the house managed while all this was happening. To really use our amateur radio skill and to be of public service was very rewarding while giving a person the chance to learn about themselves and their fellow ham, who is now a friend, but previously was a stranger. EARS members involved were K5SKA, N6CL, KG5IP, N5KMJ, KV5X, & WB5SYT. The out 'of town' hams who spent several nights in OKC helping are special people. They were from North Texas, Lawton, Tulsa, Bartlesville, Enid, and Woodward. These are just a few of the towns I know about.

MAYFEST

EARS provided communication & coordination for the St. John's, the Baptist Catholic fund-raising activity. The event consisted of a 1 mile and 8K run with the church as starting and ending points. On this cool, overcast Sunday in Edmond, there were food booths, games and a dreaded dunk-tank for family activities. EARS members helping with the event included:

Jim, KC5MJS
A.C., KA5WGV
David, KC5KJE
Frank, AA5GI
Robert, N5IJX
Sue, N5VWI

Clara, KG5UG
Ken, N5DBM
John, WB5SYT

Club members seemed to enjoy the function which was quick paced, upbeat, and provided an opportunity for us to quickly QSY to simplex, then back to the repeater giving DBM a chance to say, "Oh, my gosh!", as the starting whistle was preparing to be blown. We handled it, though, didn't we gang!

SIREN TEST

The monthly siren test conducted for Edmond Civil Defense, despite substantial scheduling, was cancelled. Jana, N5KMJ, in Edith's absence did the telephoning and lining up, but Mother Nature and overcast skies precluded the siren test. On behalf of Jana and Edith, thanks for being available to "work-a-siren" and flexible enough to suggest one you could "cover". I have a constructive thought along the lines of scheduling club members for various activities. Please be considerate and return calls placed to you from a club member who is trying to get an EARS event "covered". This is called common courtesy.

Thanks to those who initiate communication to advise of their availability. It helps lighten the load of our event coordinator and ultimately improves the quality of our effort.

BOARD MEETING

All Board members were on the payroll log for this month's meeting which was held at the club station. We had about 15 folk in attendance, including Jim, N5OHL, Kevin, N5USQ, and Tom, KA5WAV, and most of the crew who were at the April meeting. The City of Edmond CD Director, David Van Nostrand, gave an overview of upcoming CD activity, including a simulation for some time in late June. Mr. Nostrand also thanked the club, to include Mike and Kevin, for its response and readiness to the OKC disaster. Clarence attended the April CORA meeting on EARS' behalf and discussed Ham Holiday planning and other goings-on on behalf of CORA.

We then ran through the usual docket with discussion about NWS packet and repeater activity, repeater repair, and equipment replacement, treasurer account status, and plans for our emergency service preparedness.

Mike reviewed plans to have a search and rescue team geared-up and ready to go. Jim, our 1995 Field Day chairman, discussed plans for the upcoming event. Number of anticipated rigs, publicity, power and scheduling were reviewed. The FD packet from ARRL has yet to arrive.

EMERGENCY SERVICE MEETING

Gosh! What a nice turn-out and get-together for Mike to lead the discussion on his idea to have a directed-trained group to provide support for a variety of emergency situations. CPR training, equipment and supply needs, communication, and topography maps were part of the items discussed. Also, the necessity of badges with indicated proficiencies was noted. It was decided to proceed with CPR training, discussion at club meetings and more gatherings, either on-the-air or in person, to focus the group interests and skills to be of maximum benefit to Edmond Civil Defense. The energized group departed to meet on 146.55 Simplex on the way home for an informal exercise under the direction of Dee. He orchestrated capacity of the club station to handle Simplex traffic, should the need or desire arise. I think Dee was pleasantly surprised as stations from all over Oklahoma County, and at least one in Logan County, checked in. We all gained insight into the dynamics of Simplex and getting a little more comfortable with using our equipment with repeated assistance. Those in attendance at this meeting were:

Clarence, KB5RR
Edith, KB5YPX
Tommie, KA5WAV
Lee, KA5WIS
Ray, KC5BTR
Buford, KC5MXE
Jim, KC5MJS
David, KC5KJE
Ernie, K5YKP
John, WB5SYT
Dee, WD5FHR

Mike, KB5BIX
Terry, KB5RQT

CLUB MEETING

We had our Sunday p.m. business meetir at the usual location and time with 31 i attendance. Lee was kind enough to brin his birthday cake for all of us to enjoy--w took him up on his offer in grand styl. Don't know how much remained, but believe pretty strong, that EAR consumed a heavy portion of his cake (Big Surprise) Isn't our kindness ju overwhelming! Happy Birthday, Lee.

The meeting had it's predictable walk through of club happenings, hasseling c DeMand, club talk and the best laid plan of mice and men that any one morta group has ever composed--well, OK, bu we do have mucho items underway wit several more peeking at us over the nex hill.

Three EARS high school graduates an their families were recognized:

Steve Guinn, N5OLX
Jason Snyder, N5USO
Kyle Granger, KB5KIU

We wish them super success, and know they will achieve more than those of u left here at the wagon-yard. The quality o these EARS families is very impressive. These graduates are going to make thei families even more proud in the years t come. If you don't think there an Oklahoma families who work hard, rais great kids and are community-minded then you don't know the Guinns, Synders and Grangers.

Upcoming Events:

June 3: Saturday-Siren Test
June 9-11: Ham-Com '95 (Fri., Sat. Sun.), Arlington, TX
June 14: Wednesday, 7:00 p.m. EARS Board Meeting
June 22: EARS Dinner Meeting (6:30 p.m.) Special Thursday-night Edition Black-Eyed Pea Restaurant 13702 N Penn
June 24 & 25: Field Day (Sat. & Sun.)

73 de John, WB5SYT



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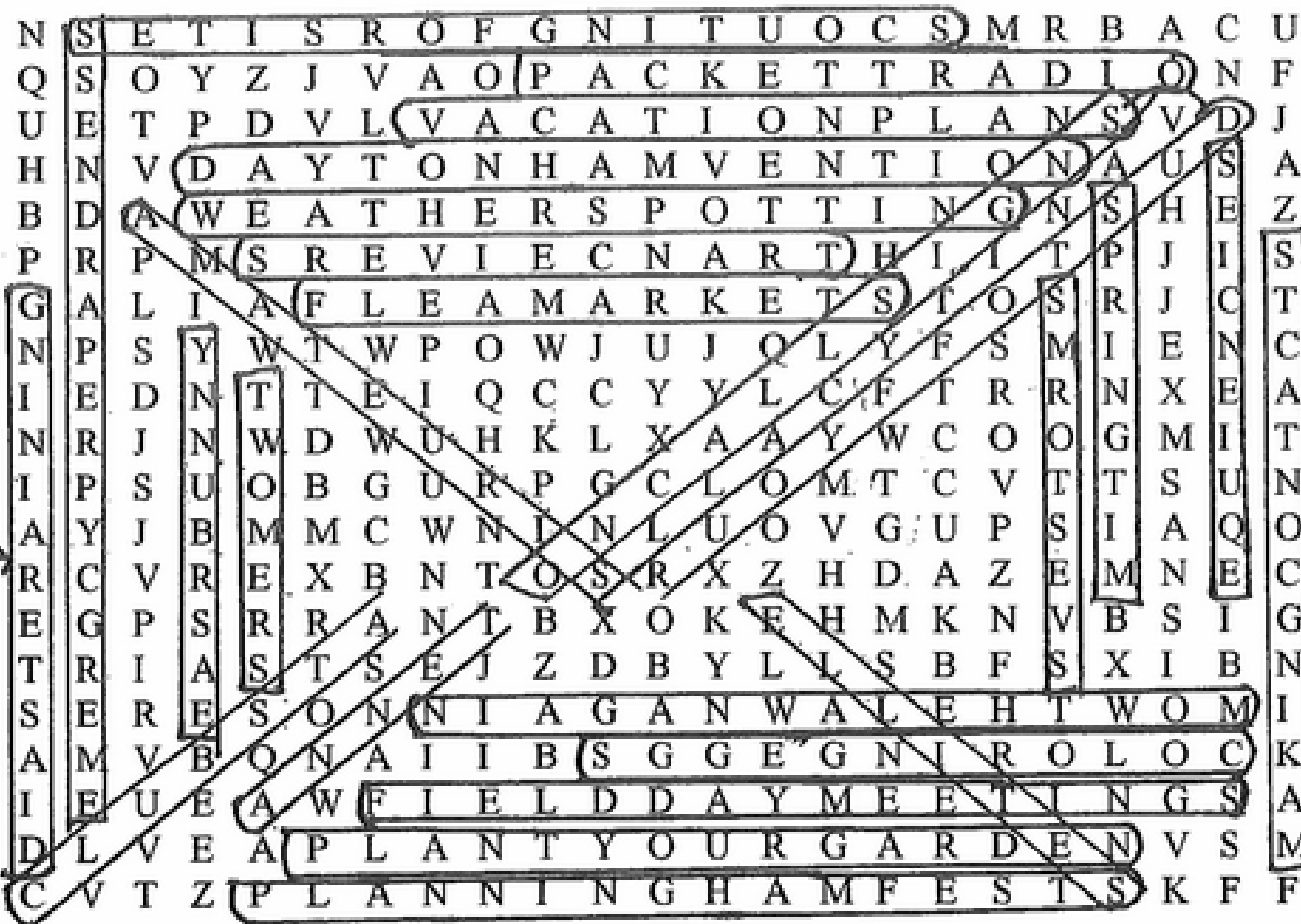


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Word Search

by Edith Vaughn, KA5YPX



Amateur Satellites

Coloring Eggs

Diaster Training

Easter Bunny

Field Day Meetings

Fredquencies

Making DX Contacts

Packett Radio

Plant Your Garden

Spring Time

Tranceivers

Vacation Plans

Club Station Call Signs

Dayton Hamvention

Dust Off Your Antenna

Emergency Preparedness

Flea Markets

Friends Getting Together

Mow The Lawn Again

Planning Ham Fests

Scouting For Sites

Svere Storms

Two Meters

Vanity Call Signs

Weather Spotting

CRYPTO CLANS

By Forrest Rush, N5VWF

Each list contains related items with Heading as a clue; word structure & punctuation are hints.

Example: Telegraph Key

XAYAILRMP JAG

VIBROPLEX: Answers to Last Months Puzzles.

- | | | |
|--------------------------------------|--------------------------------------|---|
| 1. <u>Zephyr</u>
LWNTED | 2. <u>Champion</u>
ITHYNKVJ | 3. <u>Lightning Bug</u>
UKRTFKJR OBR |
| 4. <u>Original</u>
VDKRKJHU | 5. <u>Blue Racer</u>
OUBW DHIWD | 6. <u>Iambic</u>
KHYOKI |
| 7. <u>Vibro Keyer</u>
GKODV SWEWD | 8. <u>Brass Racer</u>
ODHPP DHIWD | |

CENTRAL OKLAHOMA RADIO AMATEURS, INC.

Minutes of April 25, 1995

The meeting was called to order at 7:30 p.m. by Chuck, K5NK.

Five officers were present and five clubs represented with 19 in attendance.

Ham Holiday 95 - Tom, WA9AFM has notified related magazines about HH95. Chuck, K5NK and Perry, KB5TOT will request a letter from the fairgrounds assuring the building for HH95. Convention decorators contract is pending the contract on the building. Discussion concerning T-shirts ended with a motion to discontinue HH shirts., seconded and approved.

Jerry, KJ5KP said the tickets are being printed and pre-registration tickets will be mailed if received by July 17, 1995. Bob, W5HXL, in charge of Bingo prizes, made the Motion that \$200.00 be spent on prizes, seconded and approved.

The availability of discount 89er ball team tickets HH95 badges is being pursued. The HH95 hotel is the Holiday Inn on N.W. 39th East of Portland. The rate is \$46.00 per night with up to 4 in a room.

C&E - Hal, KB1ZQ reported that Cynoak Printing is retiring in May. He has Contacted several printers in the metro area for pricing and our requirements.

The MORI representatives were asked about their club's intention regarding CORA. MORI was also praised for their communications work with the Red Cross during the rescue effort.

Meeting adjourned around 9:15 p.m.

John Brassfield, N5SAM
CORA Secretary



Minutes of OCAPA Meeting April 18, 1995

The meeting was called to order by Brad, KJ0W at 19:30. The minutes from the March meeting were read by Perry, KB5TOT. There was a motion and second to accept the March minutes. The motion passed. The Treasurer's report was presented by Cheryl, KB5WQR. There was a motion to accept the Treasurer's report, which was seconded and passed.

COMMITTEE REPORTS

Technical Committee:

Mike, N5VIT reported that we had some down time on the repeater due to the melt down of some connectors. He also reported that the radios were tuned up. Mike said the Channel 9 tower crew has now completed their work, so we should be able to get on the tower now. Mike said he would need an alternate tower leader because he expects his work load to increase at Tinker. Mike suggested the club look into purging the hardline with nitrogen.

Mike said the technical committee was going to work towards getting equipment on the tower at about 650 feet. Mike said we have about 12 experienced tower climbers so we should not have problems getting them down for repair. Mike said that 2 of the 4 original radios have been retired. Mike said we have a new set of cavities for 146.82 and we will set them up in the shack first. There was some discussion about wiring autopatches on the tower.

Mike KB5WIC presented a proposal for obtaining a commercial repeater. He recommended a seed money of \$500 be used from the club treasury and donations be made for the rest of the money for this repeater. There was a motion to approach the owner of the equipment with an

earnest money payment. The motion was seconded and passed. Mike, KB5WIC offered to draft a letter to be mailed out to get donations for this project. There was a motion to have all moneys obtained by this effort be earmarked for capital improvements of the repeater only. The motion was seconded and passed. There was a paper circulated for pledges for the capital improvements.

Severe Weather Committee:

Tom, WA9AFM said the weather net was activated on Monday, April 18. Mike, N5VIT was net control and Tom, WA9AFM was radar. We have 5 net controls and 5 radars. They are to meet with Gary England at Channel 9 on May 3rd at 7:00 pm. Tom said that another local TV station checked into our net asking if we had a spotter in Pauls Valley. We discussed setting up a station at Channel 9.

Properties Committee: Ed, WA5YDF was not present. John, N5SAM said we now have a tower jack.

Salvation Army: Tom, N5TCG said there is a new 386 computer in the Salvation Army radio room.

CORA Committee:

Chuck, K5NK said that the topics from the last CORA meeting were tower insurance and Ham Holiday 95. Chuck said that Cheryl, KB5WQR checked into the tower insurance and arranged delivery of bills and policies for OCAPA and 3 other people/clubs. Chuck said that flyers have been passed out at several ham fests. Chuck said Ham Holiday will be Friday night and Saturday. Chuck said that he and Perry had both called and checked with the Fair Grounds about a deposit for the buildings. Hal, KB1ZQ talked about the mailing for Ham Holiday. He said the mailing list has about 8600 people.

OLD BUSINESS:

Brad, KJ0W said he asked if the Aeronautical Center Club if they wanted to participate in Field Day with us. There was a motion to invite the Aeronautical Center Club to join us for F.D. '95. John,

NJ1V said he was checking into Dear Creek as a back-up. He has also requested logs and F.D. info from ARRL. Hank, WA5JRH volunteered to help Mike, KB5WIC with satellite operation. John, N5SAM said that we need another rotor for F.D.

Perry said that he had contacted Proprint for T-shirt and hat prices.

Jim, K5PER talked about Phase IID asking for financial support.

Hamnic needs a set up crew at about noon this Saturday. John, KC5DRI; Gene, KJ5GX; and Kieth, KI5XA will be there early. Talk-in is on 146.82 repeater. Bring what you want to eat for you and your family.

NEW BUSINESS:

Brad said he was under the impression that Larry, KF5JN was going to be Leonard Hanstein Memorial Scholarship coordinator. When Brad contacted him he found out that Larry is not able to be coordinator this year. Tom, N5TCG; Linda, N1LPN; Don, KC5BRO; and Carole, KC5EXR volunteered to be on the scholarship committee. There was a motion to make eligibility requirements to limit applicants to be a graduating senior who is a member, or whose father, mother, step father, step mother, grandfather, grandmother, step grandfather, or step grandmother is a member of a CORA affiliated club. The motion was seconded and passed.

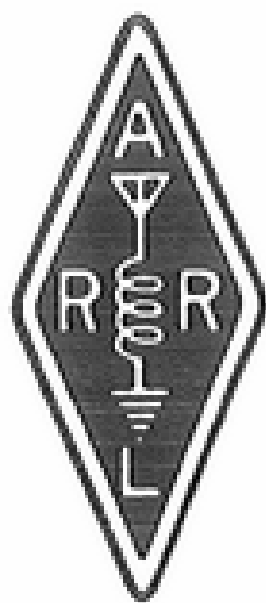
There was discussion about providing communication down town for the fireworks on July 4th. There was a motion to provide this service which was seconded and passed.

There was a motion to adjourn which was seconded and passed at 21:30.

Prize winners: Indian Pictures-WD0GTY and NJ1V; \$10 gift certificates-WA9AFM and N5SAM; lace doily-KJ0W.

Attendance 35

Respectfully submitted by,
Perry H. Jenkins, KB5TOT



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INTERNATIONAL SECRETARIAT OF THE INTERNATIONAL AMATEUR RADIO UNION

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QST

OFFICIAL JOURNAL

May 5, 1995

John Guida, NJ1V
20801 N. Council Rd.
Edmond, OK 73003

Dear John:

I deeply appreciate the opportunity to send you the following thoughts, which I hope you will be able to share with the members of the Oklahoma City Autopatch Association.

I'm sure it is not possible for those of us outside the Oklahoma City area to fully appreciate what you all have been going through since April 19. It also may not be possible for you to know how much your anguish and heartache have been shared by all of us around the nation and the world. No matter how much you may think you've been in our thoughts and prayers, the reality is that you've been there even more.

This is especially true of radio amateurs, who I think are more likely than most to realize that each of us is a part of an extended community and that what hurts any of us, hurts us all.

The bombing was an act of unspeakable inhumanity, possibly committed with the idea that it might help to tear our great nation apart. What better response could possibly be offered against such madness than to stand firmly united, giving one another aid, solace, and support? This is exactly what you and those who rallied to your side, from around the state and as far away as Texas, Kansas, and Arkansas, have done. For your example, all of us are forever in your debt.

The Oklahoma City Autopatch Association, the N5FM Emergency Net, and the Salvation Army have all figured prominently in the reports I have heard. I hope all of you who have contributed to the relief effort, through these organizations and others, and especially those of you who are relatively new to Amateur Radio, will accept the thanks of a grateful Amateur Radio community. By your actions you have reminded us why we are proud to be radio amateurs, and proud to be Americans.

73,

Sincerely,

David Sumner, K1ZZ
Executive Vice President

CHIT-CHAT

Choices

This month I could write about a wide variety of subjects. The challenge is to decide which topic I should write about this time. This is my fourth attempt to write this article. Most of us are still in shock concerning the bombing last month. The building is no more and we are now entering A HEALING SEASON. I ask that you allow the healing to set its own pace and not to rush it. Do not be afraid to share your feelings with another and do not be surprised when you experience a single tear now and again. Please keep in mind that the key toward complete healing is learning to forgive, and it is very hard to forgive such an act against our fellow man. It was the all consuming emotion HATE that was the driving force behind the bombing. Together we will survive this and will never forget the lessons learned.

We all make choices every day of our lives. Some are the right ones for us and some turn out to be wrong. The best we can do is learn from past mistakes. I was faced about 8 months ago with a choice I never dreamed I would have a voice in. I had lost all hope mainly because the doctors I had asked to help me had. I gave up to soon.

For those that have not met me, you would not know that I am as round as I am tall. I am not proud of this fact but had accepted that I was a lost cause. A very special Doctor believed in me when I did not. With her help and encouragement I have lost to date 70 pounds. I have a long road to go before I reach my goal. I have been asked what my secret is and there is none. I have been told that I must have strong will power, and I do not. The key to anything in life is knowledge, the "choices" we make and believing in ourselves.

It took my willingness to learn healthy meal planning and to understand what I had been doing wrong. I was not afraid to ask questions and slowly began to take

control of my life. It was educating myself that gave the power to make the right choices. In fact, I am still learning and reading material on healthy eating. The more I understand the easier it becomes, at least for me.

I watch my total salt, fat and sugar intake each day by keeping a food diary. The easiest plan for me to follow is the American Diabetic Association. I only have to adjust it a little to meet my personal needs. The ADA meal plan is made even easier because most food manufactures include the ADA food exchanges. If I find a label without the exchange list, I call the 1-800 number on the package and ask. The added bonus is they usually in turn mail to me dollar off coupons for their product. The one food I miss the most is Mexican and I grew up with it. What I have been doing is experimenting with my old recipes and trying to make it healthier. It will be a matter of time before I master it too.

Choices, right or wrong, we make them every day of our lives. I try to make the right ones but when I fall short, I apologize. I believe in truth, honesty and taking responsibility for ones' actions. I know many of you believe the same. So during this healing season, make your choices' ones that bring a smile to others. Think before speaking and ask yourself if your words will hurt or heal. Set a few minutes aside just to enjoy the world around you. Make your life count by sharing a part of yourself with others. Taking up space can be soooo boring!!! A very special person I cherish dearly use to say that when he needed a project done and it worked too!!!

Ham Holiday is just around the corner and it is will on its way of becoming the best HH yet. We are in need of help in the various committees. Volunteer your services to your Club CORA Representative. They will be able put you in touch with those that need help.

IT'S A PRIVILEGE NOT A RIGHT

A few months ago, I called AT&T to asked what was the cheapest rates possible were for someone calling from outside the USA . I was given another number to call and was told they could answer my questions. I found the information I needed plus something more. I was about to hang up and mentioned that I wish my son already had his ham ticket. The person I had been speaking with asked "do you have a few minutes because if you do I would like to tell you a little story few people remember." He was a ham himself and he was right, I had not heard the story he was telling me. I will now pass that story on to you.

He told me about the early days of ham radio and how uncertain it's future was during the early days. He said it took time and hard work for congress to finally give the amateur radio operators privileges to use the air waves. We were able to talk across the miles with something few people understood. He said that we were feared by some individuals even when we had proven our worth during emergencies. Slowly the numbers of hams grew.

It was not until W.W.II, after the bombing of Pearl Harbor, that the US became involved in the war. The call went out for those with skills in short wave radio and Morse code to join the military. It was these individuals that ended up teaching others what they knew. Congress during this same time period decided to suspend all amateur radio privileges until further notice. They did it under the name of 'national security.'

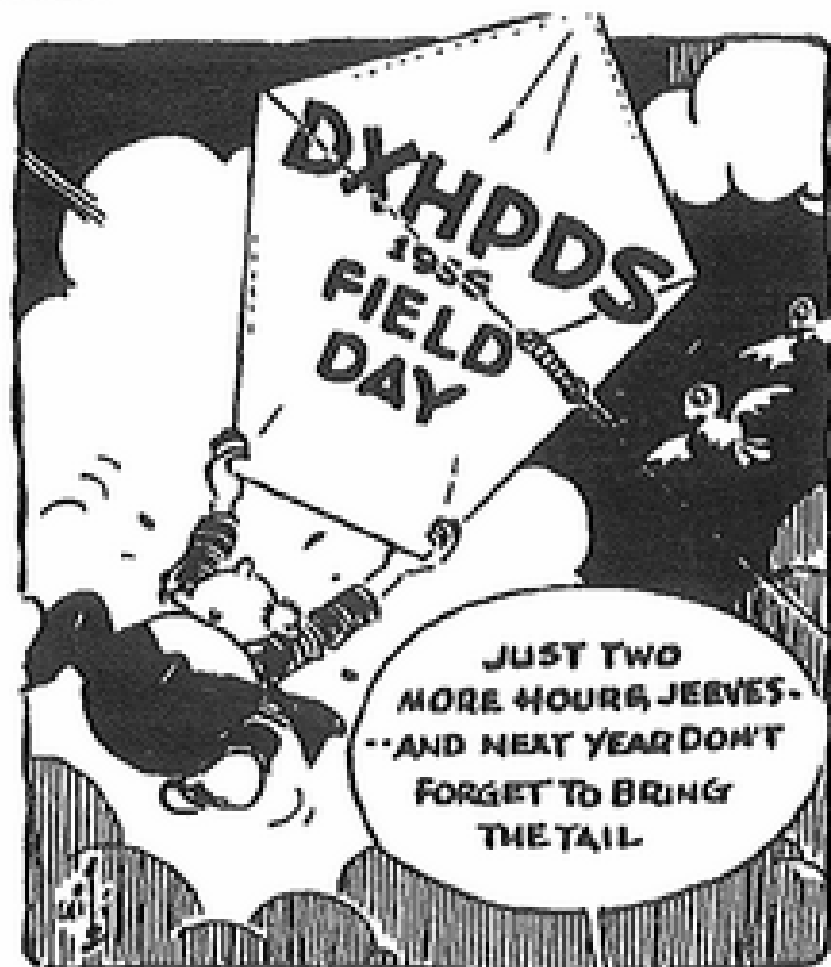
It became unlawful for anyone to even listen to the amateur bands and it was considered an act of treason if you were caught doing so. Those that refused to comply were arrested. It was a dark time for hams in the states that did not join the military. He said that the military used every scrape of information they could get from the hams and that what had been a hobby had become much more.

He was not sure when the government lifted the ban but that the amateur radio operators had more than earned their "stripes." We had finally proven our worth to the USA I told him that he had been right about my not knowing this bit of history and thanked him. He said he was not finished with his story yet.

He has been watching the ham community slowly lowering it's standards and that he is afraid it might be headed the same way as the CB Radio went years ago. Like many older hams, he is against getting rid of the Code requirement. He said learning code is not easy and a challenge we must meet. If you really want to become a ham, you will find a way to master code. In these past months, I have come to see the truth of his words. I am now in the process of becoming a 'real ham' by learning code and up grading. He also wanted to open your eyes with this story by ending it with a question.

IF, FOR SOME REASON, OUR UNITED STATES GOVERNMENT DECIDED TO PLACE A BAN ON ALL FORMS OF AMATEUR RADIO COMMUNICATIONS, HOW MANY HAMS TODAY WOULD COMPLY? He said that we must always remember that our radio privileges are just that and not a 'right.' With a simple stroke of the pen, we could become extinct....Think about it!

If you are interested in reading more about the history of ham radio, CQ has a special issue out that covers 50 years of amateur radio.



June, 1956



ANNOUNCEMENTS

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

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

VE exams on 1st Sunday of each month sponsored by M.O.R.I. 1400 @ radio station KOMA, 820 SW 4th Street, Moore, OK

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

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

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

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

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

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

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

On the Air

Listings of Nets on local repeaters or sponsored by CORA Clubs:

ARES - Oklahoma County Thursdays @ 8:00 p.m. on 146.22/82.

Packet check-in on 145.07

Salvation Army - Second Saturday of the month @ 8:00 a.m. on 146.22/82.

HF 3900kHz; Packet 145.07

AMTOR @ 8:30 a.m. 14.064MHz

Night Owl - Daily @ 10:30 p.m. on 146.07/67 with alternate 146.325/925.

OKC Swap-n-Shop - Saturdays @ 10:00 a.m. on 146.22/82.

Geritol - Daily @ 8:00 a.m. on 145.41 minus input.

Edmond Info - Mondays @ 7:00 p.m. on 147.135/735.

QCWA Chp 63 VHF - Thursdays @ 7:00 p.m. on 145.41 minus input.

QCWA Chp 63 HF - Sundays @ 8:00 on 3856.5kHz.

Wheatstraw - Wednesdays @ 9:00 p.m. on 146.01/61.

Purcell - Mondays @ 8:00 on 145.19 minus input.

Cimmaron - Tuesdays @ 9:00 p.m. on 145.45 minus input.

Collector and Emitter Deadlines

Each and every month I as editor publish the deadline for articles and Club news for the Collector and Emitter. I do this so that I may meet a timetable I have set to get this news out to you the reader.

Some clubs do not have information to submit to me on a regular basis, other clubs have items every month ask when is the deadline for this month

Please read the calander on the back of your C&E to find out when the deadline is. I have set this date up to get this publication out in a timely manner.

The Editor



S.C.A.R.S. meeting for the month of May-Norman

With about 28 members present, the May meeting of S.C.A.R.S. was called to order by KJ5KB, Don, at 9:30 a.m. Must be the traveling season and warm weather keeping some of the hams away. Don had everyone introduce themselves, talked about the agenda that we had to discuss and mentioned the door prizes he had purchased so everyone could dig deep into their pockets for that dollar for the drawing.

Treasury Report

N5UMH, Bill gave the treasury's report and seems that the club is in good shape with all of the bills paid.

Some Important Dates

The pres asked for some input on this year's field day, which will be held on June the 24th and 25th. S.C.A.R.S. members will have to show up for the June meeting that will be held at the small pavilion at Reeves park on June 17th. The reason moving back the meeting date is the conflict of Ham-Comm in Dallas on

June 9, 10, and 11. This meeting is important, as we need to finalize plans for field day. Also, the some of the club's kitty will be used some treats at the field day activities.

Dates for Ham Holiday are July 28 and 29. This is a Friday and Saturday this year, with the drawing being held on Saturday afternoon.

People wanting to test for ham licenses will have to wait until July. This was done due to the conflicts caused by moving the dates around.

Everyone show up at Reeves park some we can deicde who does what and who brings this, that and the other.

Elections-

A little late, but S.C.A.R.S. finally got around to hold their annual elections. KB5FCI, Keith is still secretary. N5UMH, Bill is still treasury and N5SOF, Mike, is still the VP. The only difference is that K5XRD is the new president of S.C.A.R.S. Welcome aboard Dick.

I'm sure all of the S.C.A.R.S. members and myself want to thank Don for all of his engery that he put into being president. Specially the door prizes that he came up with from month to month. And Don did say that in case Dick was out of

town that he would be glad to step in and run the meeting. Thanks again Don.

Meeting adjourned at 10:00 a.m.

Keith, KB5FCI
member of S.C.A.R.S.

Help Wanted:

CORA sponsors the annual amateur radio convention here in Oklahoma City. Ham Holiday as is is known will be needing volunteers to assist in the set-up and tear down of this years event.

Assitance will be needed to aid dealers on setting up their booths on Friday afternoon, the 28th of July and getting their unsold goods out again.the evening of 29th of July

Persons interested in helping with this and other tasks please come to the CORA meetings on the 4th Tuesday of the month.

We have two more meetings scheduled before Ham Holiday 95.

Come and help us make this years Ham Holiday better than ever.

PLEASE PRINT	
I _____	Call _____
NAME	
Address _____	Apt _____
City _____	State _____ Zip _____
Telephone _____	Do hereby transmit my dues of _____
\$ _____ X _____	Total Paid _____
YEARLY AMOUNT	NUMBER OF YEARS
In the (Club Name) _____	
Month and Year ending: ____ / ____	Date Paid: ____ / ____
YEAR/MONTH	YEAR/MONTH
<input type="checkbox"/> \$4.80 OF YEARLY AMOUNT IS FOR A SUBSCRIPTION TO CORA'S COLLECTOR AND EMITTER (CORA Associate Only Paid with Dues to Supporting Clubs)	
<input type="checkbox"/> \$7.00 for Individual Subscription to Collector and Emitter (Funds sent directly to C&E)	
Member's Signature _____	
NEW	RENEW
DROP CHANGE-OLD ZIP/CALL _____	

Please fill out all the information on the slip. The Dates and Amount paid is required for Postal Regulations.

Telephone numbers are only used in the event of a question on your membership or subscription to Collector and Emitter.

Signatures are not required but requested to verify that you are aware of you subscribing to the C&E.

Thank you for your assistance



VHF Club

NEWS

W5LOW

Elmer Goekler Memorial
StationMinutes of May Meeting

Meeting was called to order, by President Jackolyn, KA5ENU, with 22 members and guests present. Motions passed that C&E published minutes be accepted, and that Treasurer Ellard, W5KE's report be accepted. Only old business was coordination of a possible joint breakfast with QCWA at the time of Ham Holiday. Fred, W5NL, who was charged with that coordination was absent so the item is still open.

Charlie, WA5JGU, read a May 3, 1993 letter from Salvation Army Divisional Commander Robert J. Tritton which thanked club members who assisted with communications after the bombing. (See elsewhere in this issue.) Charlie then proceeded to give the CORA report. Ellard, W5KE, contributed an item to the CORA report.

The group expressed its wishes that future meetings be held at Furrs, 4629 NW 23, (the shopping center's west end). Bob, W5HXL made arrangements. Get your food, take your tray to the cashier, and get directions to the small meeting room.

Meeting adjourned at 12:26 p.m. and we proceeded with a very good 30 minute video of amateur radio operators and operations made from movies taken between 1940 and 1946. The film was shown by the Oklahoma City Amateur Radio Club at the 1946 ARRL National convention. The video was narrated in part by Mel Bolger, W5AXM, who starred in a number of the scenes. Some of the calls I spotted in the video were, W5DTU, W5IEO, W5CXE, W5JCR, W5ISA, and W5HFU. There were field day scenes taken near Crescent and in Lincoln Park. There were some clever staged scenes that started with BCI (remember what that is?) and concluding with the interfeece getting his own station on the air. We certainly enjoyed the video. The production was done by Joe Cory, W5DU, and was a delight to watch. Joe, K5JB Sec'y

Dayton Report

Ahh, YES! Dayton has come and gone, and my junk boxeth runneth over. It is a good thing Dayton isn't closer to home. I would have a real problem with the amount of junk I would cart home.

Weather this year was much better than the last couple of years. We had fair skies on most of Friday and Saturday, but not so much that everybody got badly sun burned. A little dab of sunscreen on Saturday did the trick. On Sunday, skies were overcast and there was a little moisture, but not enough to make puddles. The major effect of the fair weather was that the crowd stayed dispersed through the grounds and there was enough room inside to look at the "new stuff" without having to fight through the masses of humanity.

This year seemed to me to be the year of the coax hard line. It was everywhere, with adapters and short jumpers to go with it. I would probably have hauled some of that home if I could have. We need some real badly on the 9600 bps packet repeater that Hank, WA5JRH, has been working on. One thing that seemed diminished was the computer stuff. There didn't seem to be as many computer dealers all over the place as in the past. Maybe amateurs have bought about all the computers they need, heh!

The only thing of significance that I brought home was an MFJ-259 SWR analyzer. Joe, WA5FLT, bought a UHF to BNC adapter so we could play with our talkie antennas on it. I don't know what significance the SWR and resistance has on a talkie antenna, but we did discover something amazing. Joe's antenna showed absolutely no response on the meters so Joe took out his trusty antenna scalpel and investigated. He found a cold solder joint and a totally separated antenna! Now, Joe is a soft-spoken guy, but that was ridiculous! He bought a replacement the next day. (He did mention that the talkie seemed to work better with other antennas, heh!

Stan, N5JFQ, and incidental Lieutenant with the OKC Police Dept. was with us. He staffed the police command post immedi-

ately after, and for a considerable amount of time after the bombing. He brought newspapers and photos for show and tell. Tim, WA5LTM, contacted and made arrangements for press conferences with local newspapers, radio and TV, so the story of amateur radio assistance after the bombing was well told in Dayton. Thanks to Stan and Tim for that! Joe, K5JB

Making Graphs in Windows

Sometimes, it is easier to understand an electronic phenomenon if it can be made into a picture. One of my Gates lead acid batteries appeared to have a reduced capacity so I cycled it through a couple of charge-discharge cycles and then measured the charge current at irregular intervals while it was charging, writing down each elapsed time and current on scratch paper. When it was fully charged I decided to do what is called, "mechanical integration" to see how much energy was used in charging the thing. This required drawing a graph by plotting the points I had recorded. Normally I just get out a piece of graph paper to do such things but an idea hit me that there was a better way to do it on my computer.

One of my computers has Windows on it and Windows comes with a drawing program called Paintbrush. If you have such a setup, and would like to try a fairly simple way to make a graph, here is what you do.

Start the Paintbrush program and arrange for a reasonably large workspace. In my case, I set the space to 640 by 480 pixels (width, height in picture elements). Next, I selected View, and then Cursor Position, so the points on the graph would display in the upper right hand corner of the screen as I was positioning them.

Next, I examined my data to select a suitable scale for the graph. Maximum current measured was less than 400 mA, so vertical scale of one pixel per mA would work nicely. The maximum elapsed time was less than 16 hours (960 minutes) so I decided that two minutes per pixel would make a nice scale. It would fit into 480 horizontal pixels. To the data table on my scratch paper, for each measurement, I added values for pixels for each time entry.

First I added a column containing the elapsed times in minutes, and then added a second column of numbers equal to the times divided by two. These were to be plot points in the horizontal direction.

Select the line width you want to use (I used double width) and select the paintbrush tool. Place the cursor so it is located at the first data point; use the arrow keys, rather than the mouse, to more precisely position each point. In my case, at elapsed time zero, the current was 380 mA, so the position shown in the upper right corner of the window would be displayed as 0,380. Click the left mouse button to mark the spot. Repeat this process for all the data points and when you are finished you should see a string of dots that look somewhat like they should be points on a curve. Since graphs usually have ascending numbers going up on the vertical axis, our graph is upside down, but we will fix that before we are finished.

Now, it is time to make some grid lines, so you may want to do some experimenting. Select the narrowest line width, and maybe select a different color. (You can erase mistakes with that crayon tool on the left side of the tool box if your color is different from the things you don't want to erase.) Put the cursor on a convenient place, like 50 from the top, zero from the left, hold down the shift key, hold down the left mouse button, and make a line across the screen. Don't worry about making it too long. We will trim later. Repeat for every interval you want, like 100, 150, 200, etc. Select a suitable scale for the vertical lines. In my case, I decided 60 minute (120 pixel) intervals would look about right. Put the cursor near the top of the screen, positioned 120 pixels from the left, hold down the shift key and the left mouse button and make a vertical line plenty long.

After all the lines are drawn, if you like the spacing, trim off the excess at the right and bottom. Use the scissors tool and surround the parts of the line you want to remove then select Edit, Cut. Now, you can color the lines to the same color as the dots if you

want. Leave the foreground color same as the lines, and change the background color to the color of the dots (click the right mouse button on a color to select it for the background). Use the left crayon tool, select the widest line width, and wipe all over the lines with the left mouse button held down and all the lines will be recolored to the color of the dots. Restore the background color by clicking the right mouse button on the normal background (probably white).

Figure 1 shows the intermediate results before the graph is flipped over. Some notes were added to Fig. 1 to explain the process.

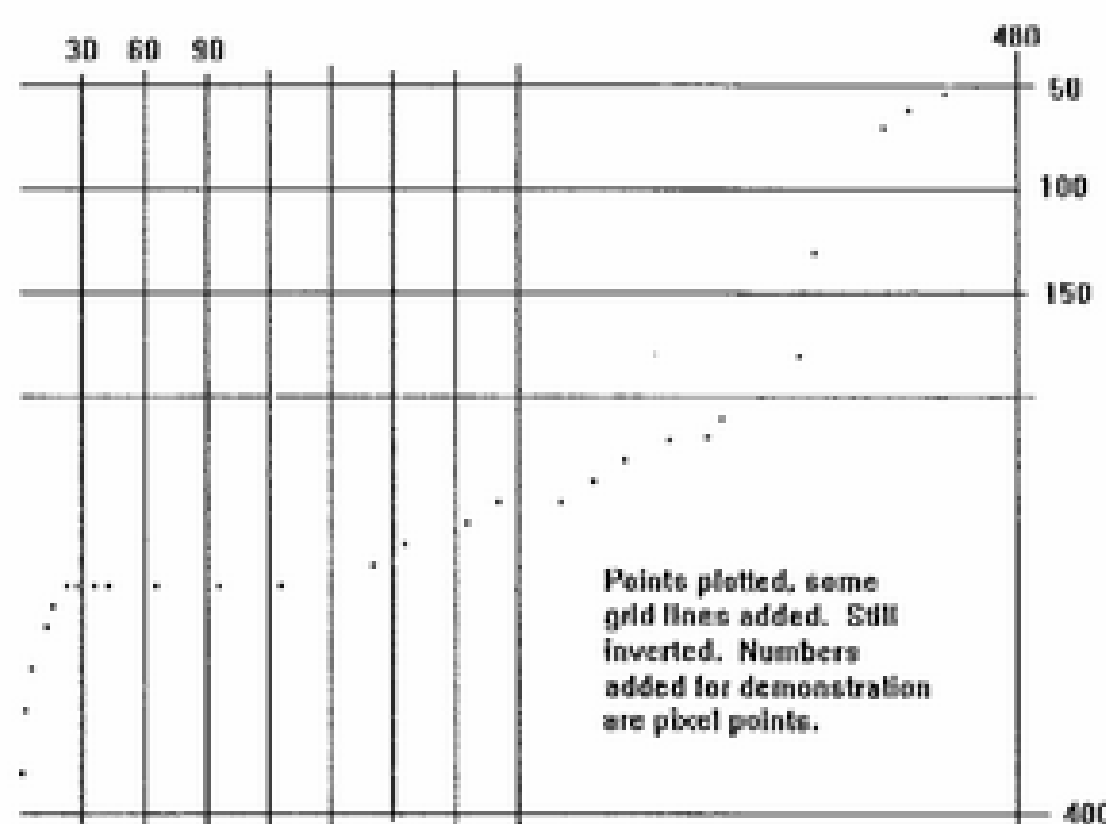


Figure 1. Paintbrush Graph, inverted

Now let's flip thing over. Select the scissors tool and surround the whole graph with a rectangle. Select Edit, Cut, and it is gone! Not really. Now select Edit, Paste and it is back, but without hitting any buttons, select Pick, Flip vertical. Position the graph as you like, and click on some area outside the rectangle to paste it down. Now you are ready to add numbers to the axes, add whatever legends you want, and save it. When you print it, print partial rather than printing the whole thing. Or, use the scissors tool, select what you want to save, and use Edit, Save as to save the results to a file. I suggest using the .pcx format rather than the .bmp because there is some compression and the files are a bit smaller.

Footnote: You will notice that the battery charger characteristics used for these curves are not very good for a charger that is supposed to be constant current with a controlled upper limit on voltage. What happened was that I broke my charger by connecting it to the power source backwards and had to rebuild it. In the process of calibrating it I discovered that it wasn't regulating the current very well. It was from that observation that I decided to plot data points to evaluate the problem with the

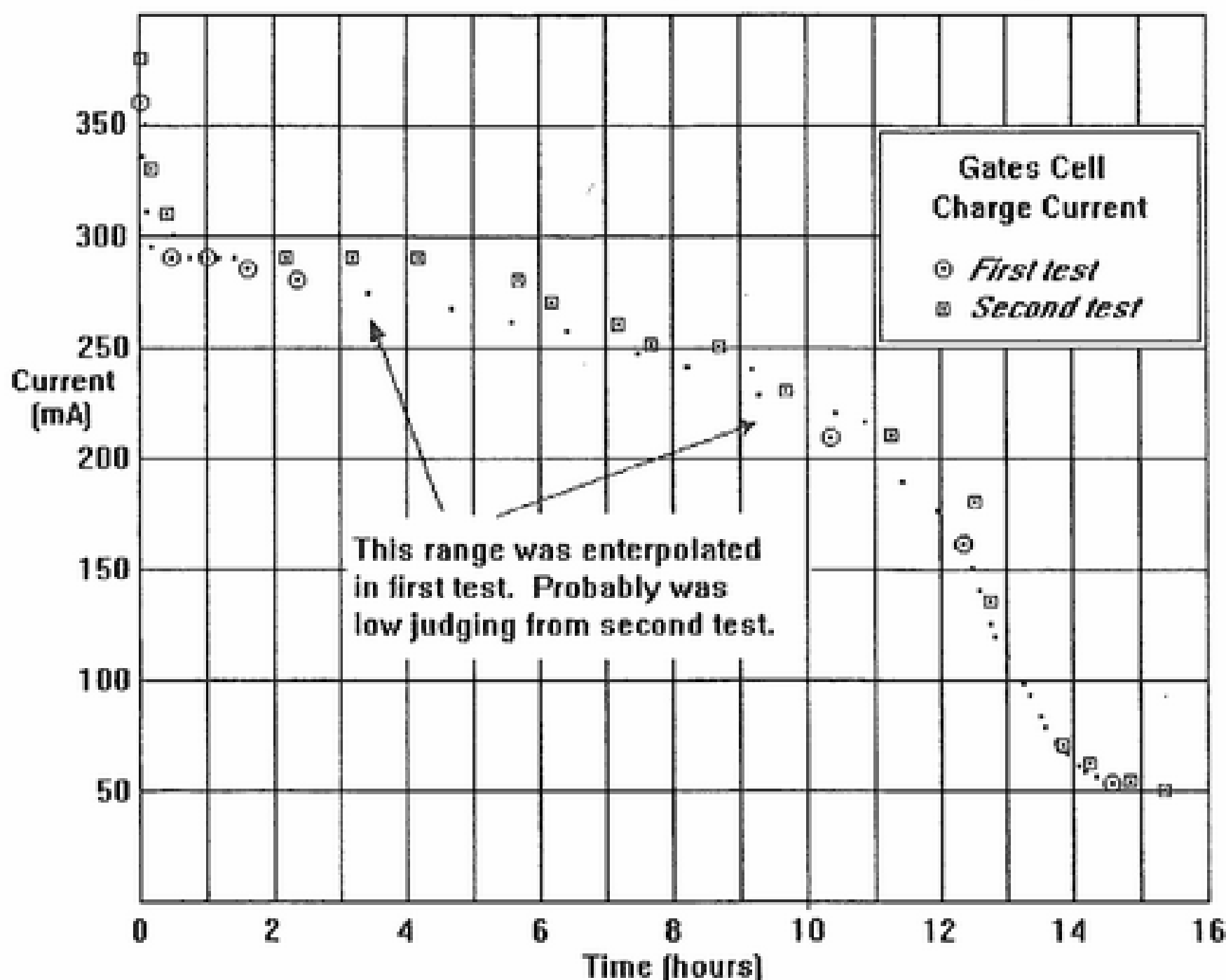


Figure 2. Paintbrush Graph, Final

charger, as well as to get information so I could do mechanical integration of the curve to calculate the amount of energy fed to the battery. It appears that the replacement LM-723 I used simply isn't doing a very good job of regulating current, but it will do for the purpose.

Also, to measure the current without disturbing the operation of the regulator, I put the ammeter in one of the leads from the power source. The regulator requires less than 3 mA to operate so measurement errors were negligible with this arrangement.

Joe, K5JB

DAMA Part II

This is continuation of an article, started in the May 1995 C&E, about Demand Assigned Multiple Access (DAMA) protocol, a broadcast protocol offered as an alternative to Carrier Sense, Multiple Access, (CSMA) that we normally use on packet radio. Last month's column covered the connection state and idle state.

It was originally published in the Eighth Annual Computer Networking Conference proceedings.

Data transfer: Node --> User:

There is no difference between regular CSMA and DAMA in this case. Because it is always up to the master (node) to act first, it could send one or more I-frames or a poll to the user. The user will acknowledge I-frames immediately with an RR#, but could also send its own I-frames with the corresponding count (having to correct the count on the sent I-frame serves the same purpose as an ACK with AX.25). The meaning of the Poll/Final bit remains unchanged.

Data transfer: User --> Node:

As mentioned before, the node will send polls to all users that are uplinked to it and the user will not respond until it receives this poll or an I-frame from the node. It may be wise to point out that when a user is polled he must always come back with some kind of response, even if it is an RNR#. If the node fails to hear any kind of response from the user then it assumes something went wrong (such as a collision) and moves on to the next user on its polling list.

This method of always waiting for a poll before transmitting is the central aspect used to avoid collisions in a situation where hidden stations exist. This is in contrast to the usual CSMA method where several stations can actually transmit at the same time. Additionally the problem of deadtime collisions is resolved. Deadtime refers to the period from when the TNC realizes the channel is free and starts transmitting, to when he has been on the air long enough for other TNCs to recognize his carrier. This is really not a rare case, as exemplified by the case where two or more TNCs are waiting for a digipeaters carrier to vanish so that they can leap on the frequency. Using DAMA the node will not acknowledge received frames the instant it hears them. Instead it will first service all other uplinked stations and then come back with an RR# to the sending stations I-frames along with a poll to that station. This poll basically says "Have you got any else for me?".

Disconnecting:

If the master intends to cut the connection, it will send the usual DISC-frame to the user. The user will then promptly respond with the UA-frame (final bit set). If the node fails to receive the UA and again sends a DISC-frame, the user will respond with a DM-frame. This is identical to the actual CSMA version.

When the user wants to disconnect from the node, he will wait to send his DISC-frame until polled by the master. At this point it makes no major difference whether the node responds to the user right away with a UA or goes through another polling cycle to do so, however an immediate UA is preferred.

UI-frames:

In CSMA as well as in a DAMA environment, the UI-frames are treated in a special way. I.E. These frames are used to carry some information besides the regular protocol traffic. Normally UI-frames are never sent from a user to a node, and it is not good headwork to make a habit of making UI-frame direct QSOs on the input frequency of a node. However, in contrast to a duplex system, it is possible to actually do this. So although the rare UI-frames will reduce the

throughput to the CSMA value, it will not drop the much lower ALOHA value that would occur with a duplex digi having a QSO on its input frequency. UI-frames originated by the node are no problem since all stations receive these frames.

Other protocol elements:

So we have gone from the beginning to the end in describing a complete DAMA session. We have not translated each and every AX.25 element into one that has a special significance to DAMA. This is not required since many of them will keep their initial meaning. DM, RNR, REJ, etc. will all be used as they were before. The only deviation from the pure CSMA version is in the fact that the users will only be allowed to transmit these frames after receiving permission from the master (node) in the form of a poll. The node will only transmit these frames after all other users on its list are served by completion of one polling cycle.

Compatibility of DAMA and CSMA:

One advantage of the DAMA method is that it does not require everybody to change everything all at once. However as additional users convert their TNCs to work with DAMA the more pronounced will become the increase of throughput. Even stations that are waiting to switch over could help to increase the area throughput by changing a few operational parameters. For example the delay between the reception of a frame and the TNCs response (sometimes called T2 or DWAIT) should be reduced to a value under 1 second. In addition the time interval from when an I-frame is sent to when the TNC sends an RR# to ask for a pending ACK, should be set to a value that is clearly higher than the time between two polls of the master (usually more than 30 seconds at 1200 Bd).

To fully benefit from DAMA both the node and the user must work together in the master/slave relationship. Assuming that the users TNC is capable of both the normal and the DAMA mode, there still remains the problem of how to tell the user to "turn DAMA mode on". There are several ways that this could be done:

1. Automatic detection of the protocol version by means of the protocol identifier

byte or reserved SSID-octet-bits of the node (preferred version).

2. Implementation of a channel specific parameter which controls the protocol version.

3. Implementation of a new UPLINK command besides the current CONNECT command.

4. Implement a further protocol element such as a SABM-frame (similar to X.25) so that at connect time the node could alert the user to the increased features.

In case #1 of the above it would be sufficient to tell the user to switch DAMA mode only once, at connect time. This state would then remain in effect until disconnect. However since there is no PID field in SABM-frames this information has to be carried in some other way, such as utilizing the dormant bit 5 of the master's SSID address field. It is proposed that DAMA test versions set this bit to 0 to convey the necessary information to the users TNC.

Conclusion:

The existing AX.25 version was established in 1982 when packet radio was not widespread as it is today. Most stations in the beginning were pretty much equal and there was no distinction made between DTE and DCE functions. However with the implementation of wide area networks not all stations are performing the same function. In fact today the network nodes are acting in DCE function considering their control and information exchanging aspects. These functions will be better served with the implementation of DAMA.

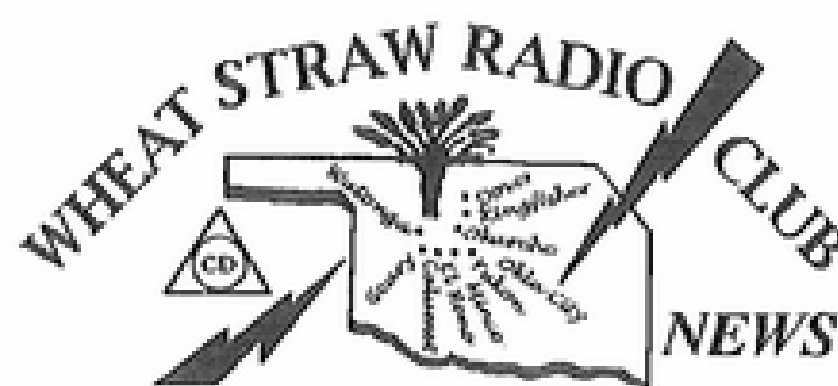
The methods discussed in this article could increase the throughput on an AX.25 channel tremendously. One advantage is the avoidance of system breakdown which occurs with channel overload. Using DAMA, the throughput will increase continuously up to its maximum. There is no foldback effect like that which occurs using CSMA where at a special limit (above CA 60%) the throughput is actually reduced.

There is a strong "social" aspect of DAMA wherein even the weak stations can work through the node reliably without being overpowered by stations close to the node.

It is possible to make direct connections with other HAMs on the uplink frequency unlike that of a duplex system. In addition the users TNCs still retain the digipeater capability inherent in our present simplex system. All protocol elements keep their original meaning which allows both versions to be utilized on the same frequency, yet throughput increases as more and more users switch over to the new method

(This paper was rather long, but since most everything else about packet seems to be stagnating I thought it worth sharing.

Joe, K5JB)



May Wheatstraw Meeting

The May meeting was scheduled for May 7, the rains came and canceled the meeting, then it was set for May 21. About five O'clock the morning of the 21st the thunder and lightning started. Goldie and I thought we were canceled again, but the clouds broke, turning out to be a nice day. I do not want mislead you; the rains were a blessing -- we need them. It was just that the timing was off a little.

I think the rain kept some from coming to the covered dish dinner in the Red Rock Canyon State park at Hinton. The attendance was only 16. I think I was the last in line for dinner, but I know I was the last to finish eating. It was all good and more than we could eat.

Meeting was called to order by Leo, WZ5H, our honorable presidente at or near 2:30 p.m. After the minutes of the last meeting were read, Jim, N5VDY, announced that he had heard that HH95 will be on Saturday only. It is being cut back to one day only.

The next item was the question about our repeater. We are planning on replacing one of the antennas. Plans have been for the purchase. I did not ask but I think maybe the

duplexer will be put back in service. Anyway, the technical committee will take care of that. They always do a good job keeping the repeater in fine shape.

The Wheat Straw Amateur Radio Club was organized in February 1960. We are having the 35 year anniversary July 9, 1995. We did not plan on having it in February due to the chance of snow or ice storm. It will be held at the American Legion Hall. To get there, go east of the southwest stop light at southwest corner of Watonga. When you get out west about 1/2 mile, there is a blue sign -- the lower of three signs on the same posts -- with a red arrow pointing north. As you drive north you will find that the road will turn east, around the front of the hall. Before you get to the south side of the building, turn into the parking lot.

It will start at 1:30 p.m. There is no parking fee, and no charge to get in. There will be prime corn fed beef hamburgers furnished -- no additives -- just a little bull "thrown" in for free. Seriously, to those who come: Bring such things as pickles, onions, any kind of raw vegetables, baked beans, potato salad, and such. The buns will be furnished.

You have an open invitation to attend. No alcohol or drugs please.

The June meeting was canceled due to the rains and mix-up on dates.

Ralph, WA5PFK, will be net control for the month of June.

The purchase of Tee shirts, vests or jackets has been discussed at previous meetings. At today's meeting we had information on sizes and prices for all three items. Any of you members wanting to order any items write or call Leo, WZ5H. You may also come to the next meeting. The prices are very reasonable, I think.

We have been working very hard for our age trying to get ready for Memorial services at the cemetery, open house at our newly decorated hall, and dedication of the building. This time I must shorten the writing because of all there is to be done. Don't let us miss you. Ralph, WA5PFK



A. R. R. L. Bulletins

From ARRL Headquarters
Newington CT

ARRL Bulletin 37
April 11, 1995

New Club Licenses Surface

The FCC's Gettysburg license processing facility has begun issuing new amateur radio club station licenses. The first ones appear to have been issued on April 4.

These licenses come with systematically issued Group D call signs. Obtaining such a license and call sign is a necessary first step toward later obtaining a vanity call sign for a club.

For more information, see QST for April 1995, page 41, and for May 1995, page 95.

ARRL Bulletin 38
April 12, 1995

4 Ordered for FCC Retests

Four amateur licensees have been ordered by the Federal Communications Commission to be retested on suspect examinations.

The four took Volunteer Examination elements in Quapaw, Oklahoma, at two sessions in February and March, 1994. The ARRL/Volunteer Examiner Coordinator subsequently uncovered, in routine checking, apparent irregularities at the two sessions and reported them to the FCC.

On December 14, 1994, the ARRL/VEC suspended the accreditation of three Volunteer Examiners who were present at the two sessions.

The FCC ordered the four to retake, within 60 days, all exam elements that

they passed at the sessions. As is standard procedure, they must retake the exams at sessions coordinated by a Volunteer Examiner Coordinator other than the ARRL/VEC, and no Volunteer Examiner present at the earlier sessions may administer the re-examinations.

The license classes and call signs of the four amateurs will be adjusted according to the results of their re-examinations.

ARRL Bulletin 40
April 18, 1995

FCC Data on Internet

The Federal Communications Commission is now offering the complete Amateur Service database on the Internet, via the FCC's File Transfer Protocol (FTP) site.

This new service marks the beginning of electronic granting of licenses at the FCC's Wireless Telecommunications Bureau. As soon as the data for a new license appears in the database, the license is effective and all privileges of that license may be exercised by the licensee.

Licensees will no longer need to wait to receive a license document in the mail; they may use the database as proof of licensing and go on the air immediately.

The database will be updated every Monday by noon (Eastern time).

Information may be retrieved using the following procedure:

Access: anonymous ftp.fcc.gov Directory: pub/xfs alphatest/amateur Documentation: readme.txt

The FCC's consumer staff in Gettysburg, Pennsylvania, can answer questions at 800-322-1117 or 717-337-1212.

ARRL Bulletin 41
April 19, 1995

More Comments for WRC-95

The ARRL has filed reply comments to the FCC on preparations for the International Telecommunication Union's World Radio Conference (WRC-95)

scheduled for later this year (in IC Docket 94-31).

Responding to a suggestion by Leo One USA (LOU) that the region 216 to 220 MHz might be allocated in the future for Mobile Satellite Service uplinks, the League said that that spectrum already is heavily used in ITU Regions 1 and 3 for a number of services.

The ARRL also noted that just last month the FCC issues a Report and Order (in ET Docket 93-40) allocating 219 to 220 MHz to amateurs, on a secondary basis, for point-to-point fixed digital message forwarding systems.

Regarding future WRCs, the League said since the conferences now are predictably scheduled, the FCC should adopt a "permanent and forward looking preparatory process, with timetables sufficiently long for public comment to be thoughtful and comprehensive."

The League recommended "a more formal WRC Industry Advisory Committee process."

ARRL Bulletin 43
April 21, 1995

Accept CAC Recommendation

The ARRL Awards Committee voted unanimously to accept Contest Advisory Committee (CAC) recommendations to change the DX Window in the ARRL 160 meter contest to 1830 to 1835 kHz and to add a Rover category to the ARRL UHF Contest. The CAC is currently studying Rover scoring for ARRL contests. Nevertheless, neither committee wanted to delay the implementation of the UHF Rover.

By a 6 to 1 vote the Awards Committee accepted a CAC recommendation to add club competition to the ARRL 10 meter contest. In a related matter the Awards Committee unanimously passed a motion to designate 28.3 through 28.35 MHz as a non-contest window in the ARRL 10 meter contest (this means that stations should not call "CQ Contest" in this window).

Further information will be included with the appropriate contest announcements in QST.

ARRL Bulletin 44

April 25, 1995

New Band Available

On April 26, 1995, amateurs will gain secondary status access to 219 to 220 MHz. Amateur operation is limited to forwarding stations in point-to-point fixed digital message forwarding systems--including intercity packet backbone networks--only.

All amateur stations are required to notify ARRL (in its FCC-designated role as contact point) at least 30 days before operating in this band, and amateur stations within 80 km of an Automated Maritime Telecommunications Systems Coast Station must obtain written permission from the AMTS licensee before operating.

Amateur stations between 80 km and 640 km of an AMTS Coast Station must notify the AMTS licensee.

A Form 219A kit, available from ARRL Headquarters, includes a cover letter of explanation, a Form 219A for the required notification to ARRL (one is required for each transmitter planned), and a copy of the 219 to 220 MHz band plan.

May 1993 QST (page 9) and May 1995 QST (pages 9 and 93) have more information.

ARRL Bulletin 45

April 26, 1995

The FCC will amend its rules to permit limited automatic control of digital stations on the amateur HF bands.

The action, in PR Docket 94-59, was announced in a press release. The automatically controlled station must either be connected to another station under manual control, or must transmit within a subband designated for this purpose.

Those subbands have not yet been announced.

The Commission said it believes these rule changes will allow amateurs to "contribute to communication technology" and to advance amateurs' communication and technical skills.

More information was in August 1994 QST, on page 71.

ARRL Bulletin 46

April 27, 1995

Hams Provide Emergency Communication at Oklahoma Blast Site

Within minutes of the deadly explosion at the Oklahoma City federal office building, amateur radio operators set up an emergency coordination network that has been in non-stop operation since April 19.

According to updates from Thomas Webb, WA9AFM/5, during the first few hours after the blast, telephone circuits were jammed and often inoperative. Amateur radio provided vital emergency communications to rescue and relief organizations until regular telephone service was restored. Located at the Salvation Army Emergency Coordination Center, a net control station coordinated the efforts of more than 20 amateur radio stations in downtown Oklahoma City.

Volunteer operators were assigned to the five Salvation Army canteens, the Salvation Army Area Headquarters, the Red Cross command post, and the primary search and rescue command post. Using hand-held and mobile radio, hams provided relief workers with reliable, mobile emergency communication for more than 190 continuous hours. Besides coordinating the distribution of supplies, food, water, and equipment, the volunteer hams also drove vital supplies to locations in the disaster area.

During early relief efforts, technical skills of volunteer hams were put to the test when it was determined the buildings in the downtown area were blocking radio signals. A mobile repeater station was established at a Salvation Army canteen, allowing for communications to be sent and received easily.

In addition to providing communications to rescue workers, hams at the Salvation Army coordination center continue to process health and welfare inquiries from friends and relatives inside the Oklahoma City area.

More than 100 hams have participated in relief efforts, with between 60 and 80 hams working at any one time. Most of the ham volunteers are from the Oklahoma City area, but offers of assistance have come from all over Oklahoma as well as Texas, Arkansas, and Kansas.

ARRL Bulletin 47

May 2, 1995

HF Auto-Digital Info

The FCC has released its Report and Order in PR Docket 94-59, concerning HF digital communications in the Amateur Radio Service. The new rules, effective July 1, 1995, permit automatically controlled HF RTTY and data stations to communicate with one another in the following segments: 28.120 to 28.189, 24.925 to 24.930, 21.090 to 21.100, 18.105 to 18.110, 14.095 to 14.0995, 14.1005 to 14.112, 10.140 to 10.150, 7.100 to 7.105, and 3.620 to 3.635 MHz.

The new rules also permit manually controlled stations to initiate communication with automatically controlled HF RTTY and data stations. In this case the automatically controlled station may use any frequency authorized for such emissions, but may occupy a bandwidth of no more than 500 Hz.

Automatic control must cease upon notification by an FCC Engineer-in-Charge that the station is transmitting improperly or causing interference to other stations.

The FCC said it recognized the concerns of those who opposed the proposal on grounds that such operation could interfere with other amateurs, but that it believed the provisions adopted would be adequate to minimize such interference.

More information is on page 71, August 1994 QST.

ARRL Bulletin 48

May 3, 1995

Rules Chgs Proposed

The FCC has proposed amateur service rules changes that would affect license examinations, call signs for special event stations, and indicators of portable operation.

The FCC proposes to designate one volunteer examiner of a team as the examination session manager. The Commission also proposes to give examination credit to former licensees, and to ensure that only "bona fide" Amateur Radio clubs obtain station licenses by increasing to four persons the minimum number of members required to constitute an organization eligible for a club station license (an ARRL suggestion).

The FCC also has proposed another change suggested by the ARRL: As part of the vanity call sign proceeding, the Commission proposes to make one-by-one call signs available to "stations operating in conjunction with short-term events of special significance to the amateur service community."

And the FCC also has proposed to allow portable indicators, such as /KP2, to be included before, after, or both before and after, the assigned call sign.

These proposals in WT Docket 95-57 were announced May 1, 1995. No comment deadline has been announced.

ARRL Bulletin 49

May 9, 1995

FCC-Issued Call Sign Update

The following is a list of the FCC's most recently issued call signs as of May 1.

District	Group A Extra	Group B Advanced	Group C Tech/Gen	Group D Novice
0	AA0XH	KG0WA	++	KB0SIT
1	AA1NB	KE1BK	N1XUZ	KB1BQA
2	AA2XG	KG2CN	++	KB2ULC
3	AA3LK	KE3SY	N3VEA	KB3BHX
4	AE4HK	KS4VU	++	KE4ZNV
5	AC5CG	KK5NW	++	KC5OEV
6	AC6ML	KO6UK	++	KE6TKU
7	AB7JU	KJ7NE	++	KC7KRF
8	AA8TL	KG8QY	++	KB8ZEI
9	AA9ON	KG9CB	++	KB9KFO
N. Mariana	KH0R	AH0AW	KH0DW	WH0ABC
Guam	WH2O	AH2CZ	KH2NM	++
Midway	++	AH4AA	KH4AG	WH4AAH
Hawaii	++	AH6OC	++	WH6CVA
Amer. Samoa	AH8O	AH8AH	KH8CG	WH8ABB
Akaska	++	AL7QB	++	WL7CMN
Virgin	WP2R	KP2CD	NP2IF	WP2AHV
Puerto Rico	++	KP4ZK	++	WP4MYB

++ All call signs in this group have been issued in this area.

ARRL Bulletin 50

May 9, 1995

Rule Changes Detailed

The FCC has issued a Notice of Proposed Rule Making on several changes in Amateur Service rules announced last week.

The FCC proposes to designate one Volunteer Examiner of a team as the Examination Session Manager, saying that would increase "examination efficiency." The FCC said that continuing to require at least three VEs to be present would preserve the protection of cross-checking, as sought by the ARRL.

The Commission also proposes to give examination credit to former licensees, as requested by the ARRL in RM-8418. The FCC said the League's position had merit, and the proposed new rule would allow VEs to give exam element credit for any exam the applicant had previously passed. In addition, the FCC asks for comments on criteria "it should use" to allow credit on amateur exams for other types of formerly and currently held US operator licenses and foreign licenses.

The FCC also agreed with the ARRL proposal in RM-8462 that bona fide amateur radio clubs should comprise a minimum of four people in order to be eligible for a club station license and proposes a rule to that effect.

In response to an ARRL request as part of the vanity call sign program, the Commission proposes to make one-by-one call signs available to special event stations. Requests for such call signs would have to be made 120 days in advance; the period of the special call sign would be 15 days or for the duration of the event, whichever is shorter. The application would have to state the nature of the event and include a list of requested call signs in order of preference.

Finally, the FCC also proposes to allow portable indicators to be included before, after, or both before and after, the assigned call sign. This was, the FCC said, in response to several informal requests for clarification of its rule 97.119(c).

The comment deadline for these proposals, in WT Docket 95-57, is July 14, 1995. The reply comment deadline is August 14, 1995.

ARRL Bulletin 51

May 10, 1995

W5YI Rebutted

The deadline for comments has passed on a petition for rule making to the FCC that would prohibit all one-way transmissions (below 30 MHz), such as code practice and information bulletins from W1AW.

The petition, RM-8626, was filed by Frederick O. Maia, W5YI, in March. The ARRL urged the FCC "in the strongest possible

terms" to deny or dismiss the petition without further consideration.

ARRL Bulletin 53
May 17, 1995

The ARRL said that Maia's arguments were overstated and inflammatory, in their use of words such as "chaos" and "crisis proportions" to describe what he sees as on-the-air disagreements among amateurs related to one-way transmissions.

Atlantic Div Awards

The ARRL Atlantic Division has announced its 1995 award winners.

The League cited W1AW's 65 years of free service to amateurs; other countries whose amateur societies also conduct informational bulletins on the air; the absence of any allegations that W1AW creates any significant interference to ongoing amateur communications; and the value of W1AW's bulletins in alerting amateurs to disaster situations.

Atlantic Division Amateur of the Year for 1995 is Kenneth Botterbrodt, WA2CVJ, of Marlton, New Jersey. Ken is assistant section manager for youth for the ARRL Southern New Jersey Section. He has been instrumental in taking Amateur Radio into schools and arranging television exposure for Amateur Radio in southern New Jersey.

The ARRL also said that since W1AW bulletins are not intended for the general public, they hence are not "broadcasting," according to definitions in the Communications Act, the ITU Radio Regulations, and the Amateur Service Rules. They are, rather, amateur communication that has no more potential for undue interference than two-way communication.

The Grand Ole Ham for 1995 is Donald E. Wagner, W2QFC, of East Aurora, New York. He has been licensed since 1934. In the 1935 ARRL Transoceanic 80 meter tests, he had QSOs with two Europeans, quite a feat in those days, especially for a 15-year-old boy. Recently, he organized the Association of D-Day Utah Beach Radio Amateurs.

The League said that "any on-air anger perceived by Maia" ought to be the subject of FCC enforcement action, not rules changes, saying such situations were the direct result of the Commission "allowing abuses to continue for months and years rather than timely addressing them in the context of the existing rules."

The 1995 Atlantic Division Technical Achievement award goes to Tim Duffy, K3LR, of West Middlesex, Pennsylvania. A world-class contest operator, Tim moderates the antenna forum at the Dayton Hamvention, and has written on technical subjects for major amateur magazines, including QST. He also is the division's representative on the ARRL Contest Advisory Committee and formerly technical coordinator for the Western Pennsylvania Section.

ARRL Bulletin 52

May 10, 1995

These awards will be formally presented the weekend of May 20 at the ARRL Atlantic Division/New York State Convention in Rochester, New York.

Oklahoma Help Done

The primary amateur radio operation in support of recovery efforts in the bombing of the federal building in Oklahoma City ended at 4 PM on Tuesday, May 2.

Amateurs had maintained a network continuously since 1115 AM on April 19, with more than 300 operators from Oklahoma, Kansas, and Texas providing communication through the Oklahoma City Autopatch Association repeater.

Amateur operation then shifted from the blast site to coordinating Salvation Army activities, on a simplex frequency. As of 4 PM on May 4, amateur radio operators in Oklahoma City had conducted emergency communication for more than 360 hours.

ARRL Public Information Coordinator Tom Webb, WA9AFM, said that those involved in the post-bombing communication effort credited numerous disaster drills, established amateur radio networks, emphasis on proper on-air procedures and experience in weather spotting nets for the success of this operation.

Later this month, Oklahoma City amateurs will meet to discuss their activities and for a debriefing.

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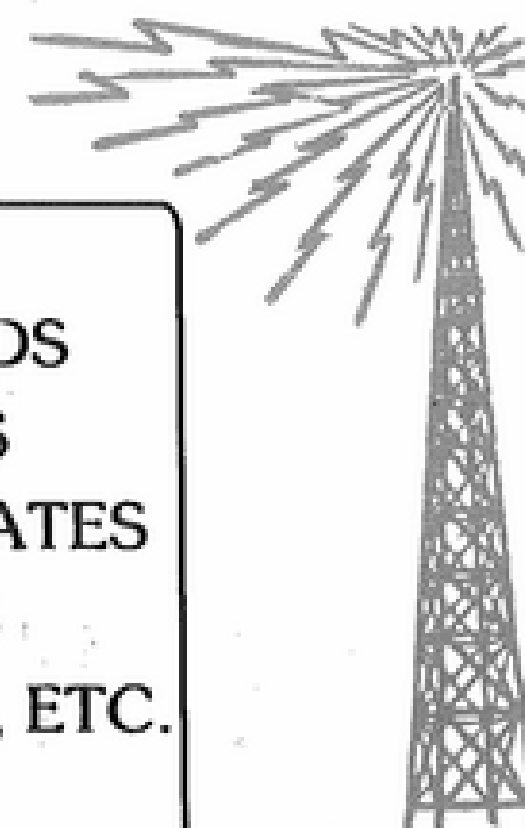
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
28	29	30	31	1 7:00 p.m. Aeronautical Center 7:30 p.m. CARA	2	3
4 2:00 p.m. MORI VE Exams	5	6 7:00 p.m. MORI	7	8	9	10 9:30 a.m. SCARS 10:00 a.m. SCARS VE Exams
11 2:30 p.m. Wheatstraw	12	13	14 Flag Day 	15	16	17 9:00 a.m. VE Exams (RSC) 11:00 a.m. VHF Club
18 Fathers Day 	19 6:00 p.m. CORA VE Exams	20 7:30 p.m. OCAPA	21	22 6:30 p.m. EARS Dinner Meeting	23 C&E Deadline 	24 Field Day 
25	26	27 7:00 p.m. Shawnee VE Exams 7:30 p.m. CORA	28	29	30	1



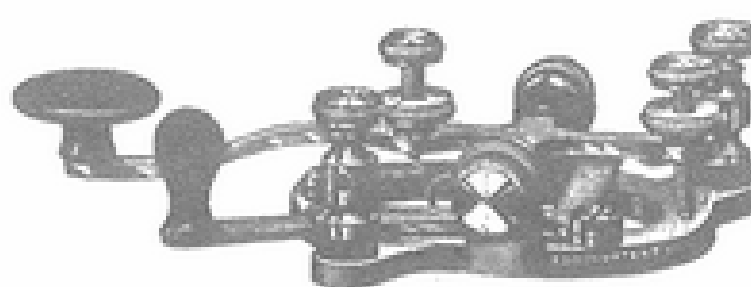
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