

Collector & Emitter

A CORA Publication

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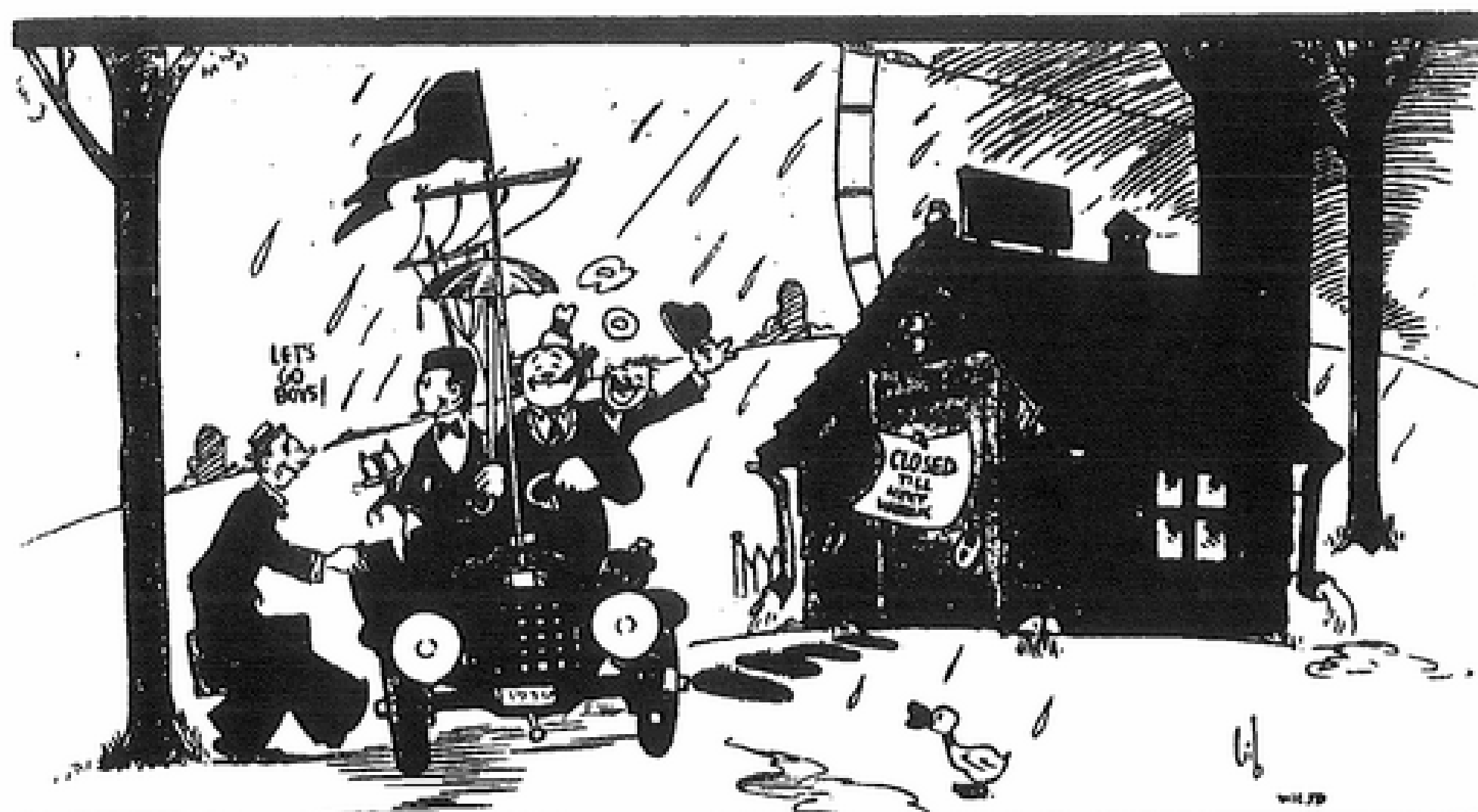
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For Postal Information

Second Class Mail

A New Column In The Spotlight

NH Antenna Bill Protects Ham's Rights

Ham Holiday Word Search



Convention Time

Ham Holiday 1995

July 28 & 29, 1995

Special Ham Holiday Meeting

The Monkey Club: 15 Year Reunion?

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**

Dear Subscriber:

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

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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.

Dear Secretary / Treasurer:

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.

July 1995**VOL. 21, No 07, Issue 245****Collector and Emitter****(USPS 116-150)**

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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: Jackolyn 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: Robert Moose, N5QKI Editor: Dean Ward, N0PAD 681-4606	15. South Canadian ARS Meets: 0930L, 2nd Saturday, Red Cross Bldg North OU Campus, Norman Pres: Dick, N5XRD 360-7015 VP: Mike Winkel, N5SOF 366-8639 Sec: Keith Miller, KB5FCI 329-2213 Treas: Bill Baker, 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 (Back Door) 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

Notes on your Mailing Label: The Label on the front of your C&E has some useful info on them. First are the Clubs you belong to example: 1 - means ACARC and so on. The date shows when your subscription to the *Collector and Emitter* expires. The number on the top right is the mailing zone. The rest is self explanatory. Please forward all address corrections as soon as possible to help us get your C&E to you.

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

Thank you for your assistance

Ham Holiday '95 Planning Meeting

There will be an extra planning meeting for Ham Holiday '95 on July 11, 1995 at 7:00 p.m. at the Salvation Army Headquarters, 50th and N. Penn. Only Ham Holiday issues will be discussed. This is not an official CORA meeting. This is to attempt to finalize issues concerning Ham Holiday. Persons wishing to assist please attend this meeting.

CENTRAL OKLAHOMA RADIO AMATEURS, INC.

Minutes of the June 26, 1995

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

Six officers were present with Jerry Sproul sitting in as Vice-President and four clubs represented with 13 in attendance.

HAM HOLIDAY 95 - The contract with the fairgrounds has been received and was circulated for review by those present. Chuck, K5NK told the group that the ARRL has sanctioned HH95. Hal, KB1ZQ has received several reservations from dealers and assurances from many more. John, N5SAM ask for help in dealer layouts and decorations and Chuck, K5NK volunteered. Forest, N5VWF volunteered to be in charge of the bingo games.

Hal, KB1ZQ and Linda, N1LPN announced the postal service's non-profit mailing status. The accounting service that provided the audit was Nolan's Accounting and Tax Service. With the lower rate in postage, Hal plans to mail to every ham address in Oklahoma.

John, N5SAM suggested and the group agreed that an extra HH95 planning meeting be held the 11th of July so ALL committee's can be in attendance. (If you can assist in the activities at HH95, or help in final planning, please come to this meeting.)

Meeting adjourned around 8:55 p.m.

John Brassfield N5SAM
CORA Secretary

Amateur Radio Profanity in 1910?

Those of you concerned with "x-rated repeaters", the use of on-air expletives, the problems of intentional QRMing and jamming and the appropriate regulatory response should know that these issues have been around since the earliest days of Amateur Radio operating-in fact, since the days before mandatory licensing. Consider the following article from the New York Times of Wednesday, January 30th, 1910. It appeared on page 4 under the headline "DENY WIRELESS MISCHIEF--Young Experimenters Say They Have Not Power to Reach Distant Stations"

"Special to the New York Times
"MONTCLAIR, N. J., Jan. 29-On behalf of the wireless operators of Montclair, some 140 in number, who have been accused of sending profane and indecent messages through the air, Arthur P. Morgand and A. B. Cole, two boys who have been pioneers in the local experiments, have come to the defense of their colleagues in a public statement. They deny that the wireless amateurs in Montclair have offended by sending out indecent messages or causing trouble by sending false information to Government stations by the use of "stolen codes."

(Con't)



South Canadian Amateur Radio Society

JUNE MEETING

Since the S.C.A.R.S. group could not meet on the second Saturday of the month and the S.C.A.R.S. group could not use the Red Cross, we decided to hold the meeting at the small pavilion at Reeves park on Saturday, June 17, 1995.

Under New Leadership

Our newly elected president, N5XRD, Dick, started the meeting around 9:32 a.m. With introductions over with, N5UMH, Bill gave the treasury report. All the bills are paid and we are still in good shape.

KI5TP, Don, gave the report on CORA and it seems that everything is being ready for Ham Holiday, which is the last weekend in July at the OKC fairgrounds.

Field Day Discussed

The S.C.A.R.S. group then got down to the discussion of field day activities. We discussed who would bring what and it was decided that we would buy some meat and hot dogs and all the fixin's for a cookout on Saturday night.

After all of that the club brokeup around 10:15 a.m. with thoughts of the upcoming fieldday.

Saturday, June 24th, Field Day

It seemed that the little rain shower didn't slow down or stop the members of S.C.A.R.S. from setting up for field day.

S.C.A.R.S. is fortunate enough to have as one of its member that worked about 2 weeks to build some antennas, poles that could be used for field day. KC5ABI, Lewis, put together a vertical 2-meter antenna, a 2-meter beam and then with left over materials, finished off a great looking 20 foot tower for a 10-meter

beam. They not only looked good but worked good! We had some good reports on how we sounded on 10 meters. Oh yeah, Lewis let us use his 2 meter rig for use on the 2 meter beam and Lewis did make some contacts on 2 meter simplex.

S.C.A.R.S. members had some problems at first but then things settled down and everyone made some good contacts. N5HZU, Howard, lent his knowledge to the packet station and with N5UMH help, they had a good packet station set up. KI5TP, Don, showed everyone on how to string up those dipoles with his sling shot and fishing line. It ended up before S.C.A.R.S. got on the air that there was a lot of help from everyone.

Supper time

Around 6:00 p.m. KI5TP fired up the charcoals and a few minutes later the smell of cooking hamburgers and hot-dogs was everywhere. It looked liked to me that everyone enjoyed the meal and talking with everyone.

The rest of the story

With supper over with, a lot of the hams that hadn't used the radios, set down and made some good contacts for the club. It seems we have some good operators in the club and some have a little mike fright.

A few of the members decided that they would stay out at the sight over night. As expected, the 10 meter band died and stayed that way the rest of the night. Too bad Bill.

S.C.A.R.S. closed down early on Sunday morning, packed the stuff away and hopefully that everyone got all of the equipment that they bought with them. N5XRD took the contact sheets home with him and is in the process of adding up all of the contacts.

Thanks to everyone worked the radios, help setup for field and took down and stowed all of the equipment away and all.

Keith, KB5FC1
member of S.C.A.R.S., Norman, OK

(1910 - *Cont*) "They assert that there is no wireless station in this town which can transmit as far as Newport, R. I., whither, it was charged, the profane messages were sent, or over a radius of more than fifteen miles, and this only under exceptional weather conditions, while there are not more than six of the stations that can transmit more than two miles. The boys say they never use "stolen codes" to give false or other orders to the government stations.

"The local wireless amateurs assert that the persons who are agitating Government supervision of wireless are the representatives of a commercial concern which wishes to gain and hold a monopoly of the air for its own business to the exclusion of all competitors and the experimenters, and which is at present using petty interference troubles as a means to this end.

Thanks to Rich Sameuls, KF9KV, and CompuServe's HAMNET

You Know You Are A Ham When:

The only time you get up at 6:00 AM is for a Hamfest.

You know you can run all your home appliances on your personal back-up power.

You have breakfast with a guy in England every morning.

Your ARES/RACES bags are always packed.

The cute girl with the KISS T-shirt asks what bands you like and you answer two and 20 meters.

You live in a shack.

A clerk asks you to spell your name, and you do so phonetically.

In a conversation, you wait for the courtesy tone before speaking.

You hear a scraping sound when driving through the fast-food restaurant window lane.

A band opening is more important than a grand opening.



Edmond Amateur Radio Society
Edmond, OK

July 1995

Happy July 4th ! EARS has been and is a very busy group of folk in terms of public service this time of year. Thinking about it, we are pretty busy most any time of the year. Because of this high level of participation in public service our article this month will be quite brief. In other words, we hoe our row today; tomorrow we write about what was hoed.

If you have been in attendance at club functions you can appreciate the quality and quantity of our club activities. Thanks to all club members who support EARS in many different ways; by locating tower sections, radios, software, hardware, power strips, disc drives, printers, furniture and installing same in less than the ideal comfort zone, by lining up club member participation in public service, documenting club functions, by keeping our books, by saying yes when asked, by volunteering before being asked, by returning phone calls, by participating and not just observing, by recruiting new members and by paying club dues.

A thought for all of us: If each club member were like me what kind of club would EARS be ? I saw this little thought on a church marquee, seemed to be applicable to us and edited appropriately.

Birthdays

July 6th - Mike Mize, KB5BIX
July 6th - Paul Richardson, KB5KPL
July 17th - Jason Snyder, N5USO
July 18th - Clarence Dollmeyer, KB5RR
July 19th - Shawn McCoy, KB5NIW
July 24th - Tony Winnard, KK5LH
July 27th - JoAnn Buswell, KB5BQN

July 28th - Sam Sitton, KV5X
July 28th - Shelby Mize, KA5YPE
July 29th - William Palmer, AA5JI
July 29th - Robert Thomason, N5IJX
July 30th - Herbert Tudor, K5OIP

Looking Ahead

July 1st- 12 noon Siren Test- Saturday
July 4th- Parades and Fireworks-Tuesday
July 12th- Board Meeting- Wednesday
July 16th- Club Meeting- Sunday

73, John, WB5SYT de EARS

HAS IT REALLY BEEN ONE YEAR ALREADY?

Actually I have a very hard time remembering what life was like before the *C&E*, but it was one year ago last June KB1ZQ became the new Editor of the *C&E*. He had no idea the magnitude of the task he had volunteered to take over. What was given to him by the outgoing editor was a battered case full of Cut out art, Postal mailing bags, Postal mailing forms and a yellow book on postal regulations. Hal was lucky that we had started saving our own issues of the *C&E* for the past 3 years. It was those past issues that helped him decide what standards he wanted to incorporate in the new issues.

The real challenge for Hal was trying to convince the clubs that this was their newsletter and to send in the articles so he could print them. Many clubs were not ready to trust so easily and he spent many hours on the phone talking with them. Those first months were hard and yet he refused to allow it to discourage him. Slowly the clubs began to start calling him asking if they still had time to get an article in for printing. He has met club editors all over the OKC area to be given club news. He still calls the different clubs every few months to see if they have any suggestions or comments about the *C&E*.

What made the *C&E* finally easier to get ready for print is the computer we had custom made last August. Hal had been awarded a large sum of money by the Air Force for a suggestion he made that saved the government money. We used that awards money for the Computer system. We are still learning all the different things it can do. Hal had been wanting a new system for some time and the end result is we were able to share the benefits with you.

We have a long list now of those that have helped us produce the newsletter you now receive each month. They have been supportive and have shared thoughts and ideas when needed. We have the clubs to thank for getting their articles to us on time, well at least most of you do. Our dream is to have the *C&E* to become truly a Multi-club Newsletter. Our task is to collect the articles and put it all together in one issue. We do the post office paperwork, labeling, sorting, bagging and mailing of an average of 600 20 page *C&Es*. We also print each club a mailing list of their members we mailed to along with the mailing bill. Working together with each club we have managed to keep our records up to date and make corrections as needed.

We do not get paid for this and have at times been asked if we regret volunteering for the job. As with all things in life, we do wonder if sometimes we have taken too much out of our own time together and instead used it to put the *C&E* together each month. It is a never ending task that requires us to use our time wisely. This first year has been a learning experience for everyone. We shared some shaky times but all came out of it just a little wiser.

This is the first issue of our second year and we are looking forward to it. We have some new ideas, and may bring back some old favorites as requested. Working together we can continue to grow and serve the Ham Community here in Oklahoma. "AND WE THANK YOU FOR YOUR SUPPORT!" (I have always wanted to say that!)

Linda, N1LPN

CHIT-CHAT

SUMMER

Ahh Summer! Many of us began to have doubts on if we would even have a summer this year or not. Now there is a question on if the rain will ever end. Most hams look forward to this season the same way kids do, its time to play! Our kids are out of school for the next few months and it gives them a time to be just kids.

In the Ham Community, clubs are getting ready for Field Day that happens the last weekend in June. CORA is in the last planning stages for Ham Holiday that will be held at the OK Fairgrounds on July 28-29, 1995. Hamfests are held almost every weekend during the summer and I have been told that vacations are sometimes planned to be able to attend as many as possible. This is also the time of year that hams do antenna work to get ready for fall contesting.

I love cooking with the microwave. During the Summer, the microwave becomes an energy saver as well as a time saver. I have recipes that I know of no other way to prepare them. A good example is I know how to cook Peanut Brittle in the microwave but not how to using the stove top. Peanut Brittle is a NO-NO for me now so why not share with you a recipe of mine that I can eat and is easy.

Last month one of the subjects I wrote about was learning to eat healthy. I thought that I would share with you an easy and healthy way to make an Egg Sandwich.

Microwave Egg Sandwich (yes you can zap eggs and they do taste good)

You need: a microwave oven; a microwavable bowl the size of a cereal bowl; Pam or the equivalent; one egg; 1 Tablespoon of water; 2 slices of Roman Meal Lite Bread (40 cal. a slice); 1 slice of Fat Free Cheese; A toaster and sliced lettuce and tomatoes; Fat free margarine, optional.

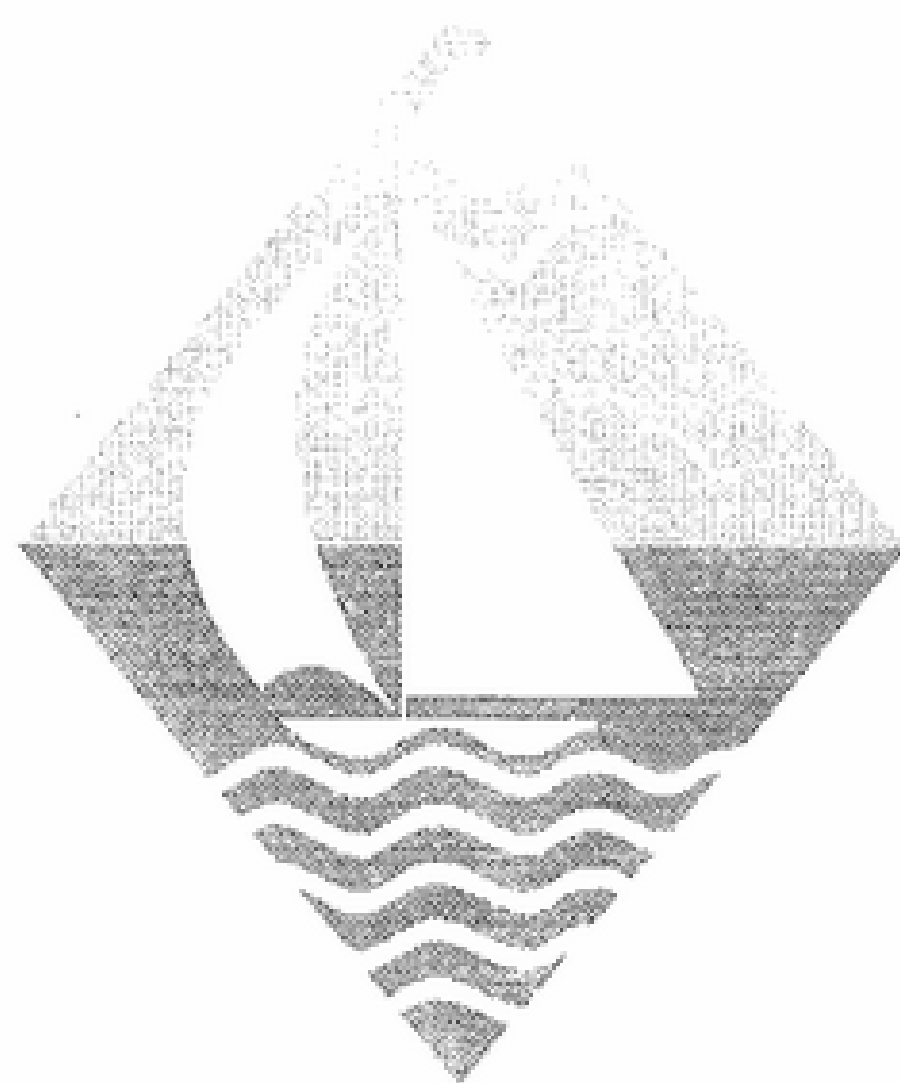
Toast bread and set aside. Spray inside of bowl with Pam. In bowl add egg and water and beat with a fork until creamy in color. Place in Microwave and zap for 1:30 minutes on high, turning it once. Remove from oven, top with cheese slice and allow to set a few minutes. Your egg should be big and fluffy, do not sub milk for water. The water is what helps it to become fluffy and moist. (Different ovens cook differently so it may take less or more time to cook your egg) Place your bread on a plate and make your sandwich. Serves one.

As written the Exchanges is: 1 protein; 1 Bread, 1/3 to 1/2 Veg, tomato counts and lettuce is free, cheese is a free exchange if it is fat free and 30 cal or under; if regular cheese it counts as a protein and a fat. I did not add any salt or pepper for seasoning but you may if you desire.

I sometimes will add fresh sliced mushrooms and pre-steamed diced onions to my egg before zapping it. I toast my bread mainly to keep it from falling apart on me as I eat it. Lite or diet bread does not hold up very well when you try to use it to make a sandwich. To make this a complete meal for me I add one 8 ounce glass of skim milk, and a fruit.

Until next month, enjoy life

Linda, N1LPN



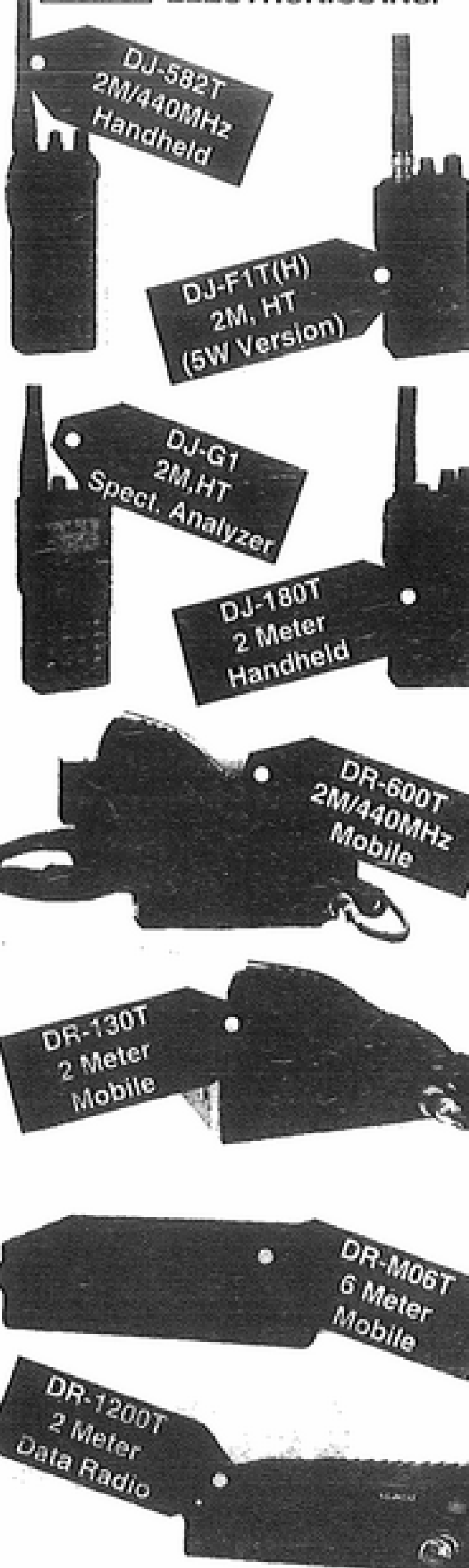
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Mid Oklahoma Repeater, Inc.

Minutes of the 2 May 95 meeting:

The meeting was called to order at 7:10 p.m. with President Scott, N5NYS in the chair and 37 members present (representing 14% of the membership); visitors and guests identified were Gladys L. Corliss, Betty leugyel-Gomez, Charlie Sheldon, KC5NBH; Scott Kelly, AB5MI; Ken Peterson, KA0BCD; Jim Powell, KC5MXB and Jake Sirmans, N5ZGW.

The drawn and sold Ham Holiday Tee shirts for the "Joe Harding Memorial Scholarship" fund were won by Ken Peterson, KA0BCD and bought by Ve Sanitphan, KC5ILM and Rene Quinalty. There are 14 Old Tees (Pre 1994) left: 1990s: 3 small and 11 Large; there are 20 '94s: 3 size small adult, 10 medium and 7 large.

The minutes of the April 1995 meeting were accepted as distributed. The absence of a treasurer yeilded no report available.

Mike, K15DF asked everyone who assisted with Disaster Services after downtown OKC's bombing to stand and be applauded by the membership for their efforts. He also announced there would be another "debreifing" for the volunteers soon.

Reports:

VEC - Toy, AB5ET reported the examinees from last night's session in Harrah were expected to receive their callsigns within 24 hours and the next scheduled session is next Sunday at 2 p.m. at the KOMA/KRXO studnios in Moore.

NETS - Rick, N5WNR reports the Prime-Time net is appearing to die from lack of

participation, but the "Foxhunt" is still scheduled for this coming Saturday.

Technical - Jerry, K5KNU demonstrated the .21 link to Davis, OK. Scott, N5NYS reported the difficulties with the equipment on Liberty Bank would be fixed as time and law enforcement allow and asked members to be patient.

CORA - Bill, NW5M reported that the latest CORA Board meeting did not resolve the current C&E impasse, but plans for Ham Holiday 22 are progressing; including MORI's effort for Non-Technical programs for which he and Liz, KC5GLP ask for other members' help and aid.

FIELD DAY - Marvin, WB5DXZ expressed his umbrage at not being identified in the minutes as volunteering to serve on the committee last month.

There being no old business brought before the club, the motion was made, seconded and passed to adjourn at *:05 p.m.

The next meeting is scheduled for 6 June 95, at the usual time and place.

{Note: The following month's regular meeting night falls on 4 July, so MORI will meet on 5 July at the usual time and place}

Jim, N5BEQ
 Secretary

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 theroy, at the Wilson Center in Altus, OK.

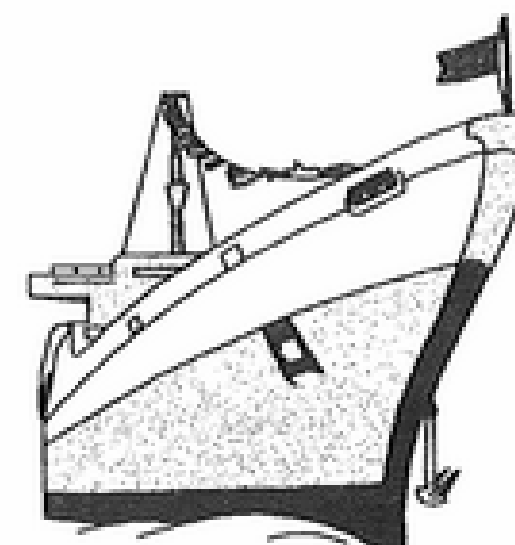
Hams on the Southeast side of Oklahoma City meet at various locations for lunch on Tuesdays from 11:00 - 12:00 a.m., to find out where they meet listen to 146.22/82.

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.

Hams from the Edmond area meet for breakfast at Gambrells Country Kitchen 8:00 a.m. Saturday mornings. Talk-in on the 147.135 + repeator.



**See You At Ham Holiday 22
 July 28 - 29, 1995
 At The OK Fairgrounds**

In The SPOTLIGHT

This is a new section in the C&E and will spotlight a different club or activity each month. The purpose is to introduce you to the different variety of clubs and activities within the CORA Ham Community. Each club will be responsible for writing their own article. If you see something a club does that is of interest to you, we invite you to visit that club. In recent months, I have discovered that most ham clubs are very willing to share ideas, experience and knowledge. The key is to just ask them. This month we will introduce you to EARS. Next month we will spotlight OCAPA.



EDMOND AMATEUR RADIO SOCIETY (EARS)

EARS is a group of amateur radio operators who are dedicated to supporting our community, our hobby, and our fellow hams. The club logo is 'Edmond Amateur Radio Society Reaching out to Oklahoma and the World.' They support their community by dedicating their repeaters and Club Station to support Edmond Civil Defense(CD), participating in Weather Nets, and any activities that require communications support. They support the hobby by providing a forum to deal with local, regional and national Amateur Radio issues, and to participate in local, regional and national events. They conduct training for prospective radio amateurs. Members are encouraged to participate in these training sessions as well as other activities. They support their fellow hams through the club repeaters and Club Station. The fellowship of both business and social meetings provides a structure to address both individual and group needs. Members do not see themselves as 'club' members but as members of a ham family. The opportunities for member participation are endless.

Facts about the club

1. Amateur radio training classes are conducted twice a year.
2. Business meetings are at 2:00pm on the third Sunday of every odd numbered month; usually at St. John the Baptist Church, 10th and South Littler in Edmond.
3. Dinner meetings are informal and held on the Friday preceding the third Sunday of every even numbered month at 6:30pm. The location will vary from picnics, restaurant outings, pot luck suppers, etc. This is a great time to introduce your family to fellow hams and enjoy the fellowship. Children are welcomed.
4. Coffee at the Country Kitchen is every Saturday morning sometime between 8:30am and 9:30am at 2nd and Coltrane in Edmond. The food and service are great. You are very welcomed to come and join us.
5. An information net is conducted each Monday night at 8:00pm on their VHF repeater (147.135 +) under the direction

of the Net Manager. Please check in, interact and keep up with local activities. Various club members serve as net control. If you would like to participate in net control activities, contact the Net Manager.

6. An informal on-the-air gathering occurs each Monday night following the information net. Tune in on 10 meters, about 28.390 MHz, USB. There is no agenda and no net control, just rag chewing.
7. A club station is located in the Edmond DOWNTOWN COMMUNITY CENTER on NE Main Street at Littler.
8. EARS is a member of CORA, Central Oklahoma Radio Amateurs, Inc.
9. EARS is an ARRL Affiliated Club. They do encourage individual membership to the ARRL.

If you are interested in learning more about this club, please call one of their officers. You will find them listed on page 2 of this C&E. You are more than welcome to visit the club meetings and to join in on the nets. They would love to have you.

You may write to them at: Edmond Amateur Radio Society; P.O. Box 48; Edmond OK 73083-0048. Or call for information at (405)359-4386.

On the Air

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

- 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 @ 8:00 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.

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Oklahoma City Autopatch Association

May 16, 1995

The meeting was called to order by Brad, KJ0W at 19:30. Members and visitors introduced themselves. The minutes from the April meeting were read by Perry, KB5TOT. The minutes were approved as read. The Treasurer's report was given by Cheryl, KB5WQR.

COMMITTEE REPORTS:

Vice Pres. - Mike, KB5WIC reported that we have about \$750 of donations so far for the repeater fund. With the seed money from the treasury that makes \$1250. This is still not enough money for the repeater. We have not collected all the money pledged yet. If you have second thoughts and want to resend your donation you can contact the Cheryl, KB5WQR. Discussion about purchase of a repeater moved to old business.

Severe WX - Tom, WA9AFM said Gary England accredited our spotters with letting him know that a storm approaching from the west was not bad, so he could focus on other areas. Net Control and Radar personnel will be meeting with Gary on May 18 at 7:00 pm.

Tom also announced that Mrs Keating, the governor's wife will be compiling a book with accounts from people who helped in the disaster in downtown OKC. The forms and accounts are due by May 25.

Tech Committee - Mike, N5VIT said that the repeater has been operating good. The 146.82 repeater operated for 5 days continuous without failure. The transmitter was changed out after 5 days due to the possibility that it was throwing spurs. Things went well during a critical time.

Properties - Ed, WA5YDF reported that all was OK.

Salvation Army - Frank N5FM thanked everyone and thinks we did a great job. He said he did not want to be involved in a critique because he considered that to be criticism. He said the key to be helpful and useful in a disaster is to be flexible and that we accomplished this. He thanked all the new "KC5" calls who helped...there was a lot of them and they did a great job. Frank, N5FM said about 295 people participated and that the net was up 363 hours.

Frank said we need to get a emergency kit ready and in our cars for emergencies just like this.

The Commanding Officers of the Salvation Army Headquarters were impressed with the use of the repeater and Ham Radio. Later some of the Salvation Army met with Frank about future cooperations between the amateur radio community and the Salvation Army. Some things we may want to do is to make a portable repeater with the club trailer.

Jay, K5JL talked about future repeater designs for the club. Jay listed off equipment donations to the Salvation Army that were provided by Oklahoma Comm., Kenwood, ICOM, and others.

There was more discussion about repeater design and tower mounting and ground mounting radios and equipment.

CORA Report - Chuck, K5NK said the last meeting was a good one. Perry said that CORA placed a \$600 deposit for the Fair Grounds for Ham Holiday. Hal, KB1ZQ said that Cynoak is now out of business and that Jim Kelly, WA5LKS will now print the *C&E*.

Scholarship Committee - Don, KC5BRO said we have had no applications. Cheryl KB5WQR said we need to raise about \$138. Linda, N1LPN said CORA gave us a permission to verify the requirement of the applicants' or applicants family member's membership in a CORA affiliated club.

OLD BUSINESS

Field Day - Hal, KB1ZQ said that the 3rd MOB would not be able to support us this year. The MOB is to send us a letter with possible alternates. There was discussion of approaching the Aeronautical Center Club for use of their generator. There was a motion to budget \$500 for food and beverages. The motions was seconded and passed. John, NJ1V gave the Field Day package to Don, KC5BRO. Mark, KC5HJQ will check with the Air Guard for a tent. Tom, WA9AFM will check with MWR at Tinker. John, N5SAM said that there is a club TA33 beam at his house that needs to be worked over.

There was discussion about the repeater project. We currently have \$1525 dollars in the repeater fund. Jay, K5JL talked about the historical designs of the repeater and pros and cons of placing the repeater on the tower.

Charles Alden (call pending), said he was a lawyer and that he would look into a liability release form for tower climbers.

Mike, N5VIT said it was the technical committee's goal to return the repeater to a better state of repair. He suggests having repeaters on the tower with back ups on the ground. NJ1V suggested the technical committee get together and discuss what to do. KB5WIC talked about funds for the project.

NEW BUSINESS

John, NJ1V read a letter from David Sumner, K1ZZ written to OCAPA. The letter thanked the OKLAHOMA CITY AUTOPATCH ASSOCIATION, the N5FM ARES Emergency Net, and the Salvation Army for their relief effort.

Carole, KC5EXR, announced that David Ragland and the employees and vendors of Duncan Equipment Company worked hard to get donations and equipment for the relief effort. The Duncan Equipment Company Donated about 67 orange safety vests for members of OCAPA to have on hand in case of another emergency. There was a motion to send a letter of appreciation to David Ragland of the

Duncan Equipment Company. Motion carried.

There was some discussion about ID badges. Someone said the Department of Public Safety makes ID badges.

Leonard Hanstein Scholarship Fund coordinators and N1LPN have arranged for a tupperware fund raiser at Ham Holiday. Proceeds will go to the Leonard Hanstein Scholarship Fund. The fund will accrue 30 cents on the dollar sold. Carole, KC5EXR moved to have a Tupperware fund raiser. The motion carried.

Prizes: \$10 Gift Certificate to Office Depot - Arch, AB5KE; OCAPA Shirt - Ed, WA5YDF; \$10 Gift Certificate to Office Depot; terrarium - Jeff, WD0GT; Quilt - Earl, KC5LDT.

Move to adjourn at 21:40. Motion carried.

Attendance 50.

Respectfully Submitted by,
Perry, KB5TOT

Minutes of OCAPA Meeting
June 20, 1995

The meeting was called to order by the Vice President, Mike, KB5WIC at 19:30. Everyone introduced themselves.

The minutes of the May meeting were approved of as read by Perry, KB5TOT. The treasurer's report was approved as given by Cheryl, KB5WQR.

Vice Presidents Report: We have purchased an ICOM RP1510 repeater which can be used on 22/82 or 21/81. The plan is to hook it up in the shack and connect it to the 850 ft. antenna for a test period. We have new connectors and will be doing some tower work. We will also be sending the controllers out one by one to be worked over.

Field Day Committee: Don, KC5BRO explained how Field Day was going to be set up this year. He passed out a list of things needed. He and Carole, KC5EXR solicited help for set up and coordinated

people to bring essentials to the site. He announced there would be a prize drawing for those who helped break down Field Day.

S.A. Army Report: Tom, N5TCG said everything was fine.

Properties report: Ed, WA5YDF said all was Okay.

Severe Weather: Tom, WA9AFM said severe weather season was officially over. He reported that we are looking into having a permanent transceiver installed at the station.

OLD BUSINESS:

A letter has been drafted to Mr. Ragland and will be mailed. Don announced that the Leonard Hanstein Scholarship has 4 applicants for this year. We will choose one this year after Field Day.

There was discussion about certificates for those who worked the disaster. Don, KC5BRO moved to allow use of the Club logo and for Kieth to get a cost estimate together for next meeting. The motion was seconded and passed.

NEW BUSINESS:

The membership selected Tom, WA9AFM; Forrest N5VWF; Chuck, K5NK; and Kieth, KI5XA to be on a officer search/nomination committee. There was a motion to accept this committee. The was seconded and passed.

There was a donation time during which tickets were given. The prizes and winners for the evening were as follows: Log Book--WA9AFM; 95 Hamvention Pin--W5LDF; "Reflections" book--N5NIO; Log Book--K5PER; "RF Design Handbook"--Kieth, KI5XA.

There was a motion to adjourn at 20:40 which was seconded and passed.

The attendance was estimated at 50.

Respectfully Submitted By,
Perry, KB5TOT

FIELD DAY 1995

Field Day 1995 is now over and now there is time to look back and catalogue the memories we want to keep and somehow misfile those we wish to forget.

I would like to keep the first impression I had driving into Jay's (K5JL) place. The weather was excellent which is unusual for Field Day in Oklahoma. The temperature was about 85° Fahrenheit and there was a light breeze.

As I drove down the grassy road to the newly mowed area I saw towers and push up poles and cars and trucks and campers and canopies all strategically placed. The Salvation Arm food canteen was there and club volunteers were serving hot barbecue brisket sandwiches.

I walked around the sight and saw a packet station, a novice/tech station, a HF phone station, a 6 meter station, a satellite station, and a HF CW station. I had a seat at the CW station and watched the pro's operate. I even operated some.

At about 6:00 pm the pizzas arrived--30 large hot pizzas delivered by Mazzio's. Then breakfast the next morning was super as I was told. Even with all the eating there was a lot of contacts made. We proved in April and again in June that we are, can, and will be ready in a time of need.

The things I would like to misfile is the fact that I was not around for more of the work and that I only participated for about 8 hours. Don, KC5BRO and his wife Carole, KC5EXR worked hard planning and pulling off Field Day this year. There were others that worked hard too. If you see or hear either of them on the air, be sure to thank them for their hard work. Thanks Don and Carole

ES 73... Perry, KB5TOT

***** I thought this might be a fitting definition in anticipation of Ham Holiday. "BARGAIN: A transaction in which each party thinks he has cheated the other."



VHF Club NEWS

W5LOW
Elmer Goekler Memorial
Station

Minutes of June Meeting

Meeting was called to order by President Jackolyn, KA5ENU, at 12:03 p.m. with 22 members and guests present. Motions were passed that minutes be accepted as published in the C&E and that Ellard, W5KE's Treasurer's report be accepted. Ellard discussed the signature arrangement at the bank and need for another signature on file. Motion passed approving the Secretary, Joe, K5JB, be added to the signature file.

Bob, W5HXL, gave the CORA report and indicated that for next month's meeting there would need to be an alternate contact for Furrs management. Jackolyn agreed to be that contact. Fred, W5NL, and Ken, KF5JS, agreed to do the telephone reminding next month.

Note that next month the meeting room is unavailable so the club will pick a spot in the general dining area and set up meeting next month. The regular (small) meeting room should be available at Furrs every month after that one.

Fred, W5NL, announced that there was no QCWA opposition to the VHF Club joining it at its lunch meeting during Ham Holiday weekend. That meeting will be on Saturday, July 29, at noon, at Holiday Inn Northwest, NW 39th and Portland. It is a buffet.

Bob, W5HXL, made the "mooshen" that we adjourn at 12:22. I normally don't include motion making details, but I thought this one was noteworthy. It passed.

Joe, K5JB, Sec'y

Blank Computer Screen

That is what I am looking at. It really isn't blank because I did Ralph's Wheatstraw, and the club's minutes, but my mind is blank on how to complete this page.

I was hoping that Ralph's column would leave me enough space for about one col-

umn on a page but it left me with a whole page to fill. Since I haven't done anything many people would find interesting this month I am going to have to ramble a little (a lot!)

Bob, W5HXL, and I were reviewing our most recent ways to waste time, and I mentioned to him that I write all the computer programs that I use on amateur radio. In fact, I don't use the computer for anything but 1. Communications, and 2. Doing the C&E column. I went to the club meeting really zonked out. I had been working on a program the night before and knocked off about 3:00 a.m. I then got up for a schedule at 7:00 a.m. and when finished with that worked on the program until time for shower and hitting the road to the meeting. I was pretty sleepy but I managed to stuff my tummy, which made me more sleepy! I went home and took a nap before resuming my project. At the risk of boring you, I am going to describe what I wrote.

Software Pipe

In some computer systems, namely Unix, there exists in the operating system a thing called a "pipe". It does what you would expect. One program puts data in the pipe, and another takes it out of the other end. There is a thing in MS-DOS called a "pipe" but it works differently. It has one program send data to a temporary file, and a second program then reads that file, and the operating system deletes the temporary file. This is OK for some things but in communications where you may want to send a data stream from one process to another it is totally unacceptable. I run three communications processes on my computer in the ham shack. One is a packet radio bulletin board, and the other two are TCP/IP programs. The TCP/IP programs do sophisticated networking things that no other packet radio program can do. The reasons I run two programs is to divide the workload. One program uses three radios and the other uses one. In order to communicate between these two TCP/IP programs (like sending mail) I had to use the radio port, transmitting from one program, and receiving on the other. I clearly could use a pipeline between these two programs. (Incidentally, I run the multiple processes on the computer

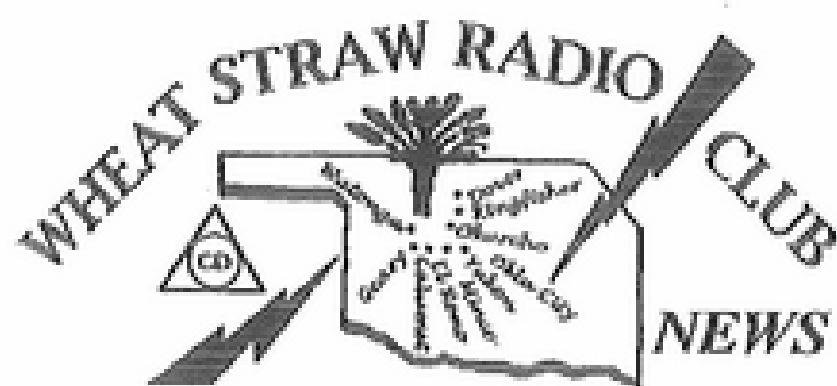
with DESQview to do the task switching. Windows 3.1 works sometimes but is pretty slow for serious communications programs so I don't use it. I haven't explored the later Windows doodads because I don't really dig the graphics and mouse clicking when there is serious work for the computer to do.)

I have pondered how to make a pipe in MS-DOS since the 80386, and later, processors became available. With the earlier processors I had already worked out a method for sending messages from one program to another but with the latter Intel processors there is a memory mapping that takes place that makes it really tricky for one process on the computer to find things in the address space used by another program.

There is a software protocol that is sometimes used for TCP/IP programs used on the land line to enable them to use networking cards such as Ethernet and Arcnet. Both of my TCP/IP programs have the necessary stubs to use this protocol (called "packet driver") and I decided to try it and see if I could create the pipe and let the programs send packets using the packet driver protocol. I had dabbled with packet drivers before so I dug out an old project and used it as a basis to make my pipe. The pipe simply consists of two memory areas. One is where one program sends information, and the second program gets it, and the other area is for the information flow in the reverse direction. This part is written in assembly language to keep it small. It is installed in memory and communications with it is established by using an MS-DOS function called, software interrupts.

Without going into any more technical details than that I can tell you that it works! I spent a little over a week making the thing work and testing it. I put it on the air prematurely and had a little trouble with it at first, but what da hay! It is only amateur radio. I would have had my butt kicked if I had done it in a professional environment. If it wasn't for amateur radio I wouldn't have needed it, wanted it, written it, proven it, and used it! There may even be someone elsewhere in this world who does serious things on packet radio and who could use it too!

Joe, K5JB



June Wheatstraw Meeting

Since there is no meeting for the month of June there is not much news. We will invite you to the thirty fifth anniversary on Sunday, July 9. We discussed having it earlier but harvest is hopefully coming up in June if it don't get washed away.

Being in a hurry, just because I have other rushing things to do, our garden is now planted on bottom land; all the topsoil is washed away. It was reported the rainfall for Friday was 4.99 inches.

There has been some sickness going around. I hope everyone is on the mend by now.

In the W5YI report I read some articles I thought may be of interest to some of you licensed and soon to be licensed amateurs.

Electronic License Application Filing

(From an FCC announcement) Another change to Part 97 has greatly reduced the time it takes for new hams to get on the air. The time and effort required for the VECs to send, and for Licensing to receive, application documents by mail has been eliminated. The form has been revised to accommodate electronic filing.

Over 95 percent of the applications for your new and upgrade licenses are received electronically from your VECs. They enter the data from your application document into an electronic form that is sent at high speed over the telephone lines to our license processing facility. The license grant is made within 24 hours or less.

New license Renewal Procedures

(From an FCC Announcement) For those of you whose license is due to expire later this year, you should be receiving an FCC Form 610-R that you may use for renewal. It will be filled out for you so that all you have to do is sign it and mail it back.

If you do not receive the Form 610-R from the FCC within 30 days of the expiration date of your license, you should make application on FCC Form 610.

When your application for renewal of the license has been received at Gettysburg prior to the license expiration date, your operating authority is continued until the final disposition of the application.

Driven by Inspiration

The adult Sunday school class was discussing formal and informal prayer, when one man remarked, "I do some of my best praying while I'm driving."

From the back of the room, in a quiet voice, the man's wife agreed. "I, too, do my best praying while you're driving."

Sight Unseen

Joe was looking for a horse to do light work around his farm. He heard that a horse was for sale by a Cajun out in the country.

When Joe arrived at the Cajun's house, the man said, "Yes, I have a house for sale, but he don't look too good."

Joe said he'd like to see him anyway.

"OK," the Cajun responded, "but he don't look too good."

Upon seeing the horse, Joe said he was just what he was looking for and bought him. The next day, Joe returned the horse to the Cajun and said, "Your horse is blind!" The old Cajun replied, "I told you he don't look too good!"

Corrected Directions

Forgive me, I have not figured this one out yet. I just blew it again. In the May issue of the C&E directions for getting to the American Legion Hall I wrote that when you get to the four way light at the southwest corner of Watonga that you turn *east*. Oops, that was wrong; you don't turn *east*. You turn *west* about 1/2 of a mile to see the blue Legion sign with the red arrow pointing north. On the north side of the hiway you will see lots of salvage oil field parts scattered all over. Turn on Taylor road just west of the

sign and used salvage yard. See you there. The other instructions are correct.

(Ed. note: Ralph didn't blow it -- I blew it. He said "west" in his manuscript and I mistyped it as "east". But, Ralph, it was in the June issue, not the May one. I am sorry for the error and promise to get new glasses soon. Joe, K5JB)

I was glad to get the C&E this month as always. I can see a continual improvement in it. I think it is a good that many of we hams have different interests along with radio. I love the out of doors and things of nature. I read an article in the *Outdoor Oklahoma*, May/June Issue:

Outdoor Trivia

- (1) - How many young are in a litter of armadillos?
 - (2) - What are turkey chicks called?
 - (3) - What Department program recognizes landowners who enhance their backyards for wildlife?
 - (4) - When are controlled hunts applications due?
 - (5) - Do lifetime license holders need the Migratory Bird Harvest Information Permit?
 - (6) - When are Oklahoma's Free Hunting Days in 1995?
 - (7) - In what month are the most white-tailed deer born?
 - (8) - What species of bear are found in Oklahoma?
 - (9) - What is the State wildflower?
 - (10) - What percent of Oklahoma is covered by water?
 - (11) - What two rivers contain year-round designated trout fishing areas?
 - (12) - How many times a year to cardinals nest?
 - (13) - What is the only fish in Oklahoma that gives birth to live young?
- (Answers below recipe)

Recipe for a Successful Workshop

- 4-cups Intelligence
- 1 1/2-cups Responsibility
- 2-cups Open-mindedness
- 1-quart Understanding
- 2 1/2 teaspoons Attitude
- 1 3/4-cups of Sifted Initiative
- 3-cups Ambition

2-cups unbeaten Patience
1-cup Tactfulness
4-cups Ability
Dash of Judgement

Have all ingredients at body temperature. Sift intelligence, ambition and understanding together. Mix Cooperation, attitude and open-mindedness until dissolved. Add gradually ability, tactfulness and responsibility. Stir initiative and judgement thoroughly. Beat patience liberally with cheerfulness and bake in an oven of Determination. When absorbed thoroughly, cool and spread with common sense.

Answers to Trivia:

- (1) - They always give birth to four young, all the same sex.
- (2) - Poults.
- (3) - Oklahoma Wildscapes.
- (4) - June 1.
- (5) - Yes.
- (6) - Sept. 2 and 3.
- (7) - May.
- (8) - Black bear.
- (9) - Indian Blanket.
- (10) - Two percent.
- (11) - Lower Illinois and Mountain Fork rivers.
- (12) - Usually three
- (13) - Mosquito fish.

Re-licensing After Expiration

In the past years I have known several amateur radio licensees who developed other interests and let their licenses expire. When most realize that they let it happen, they just let it go. There is maybe some good news for those who wish they still had their licenses.

In the *W5YI Report* I have been noticing the ARRL has petitioned the FCC to do something about that. In the June 1 issue the headlines read:

Examination Credit

The American Radio Relay League's goal is submitting a Petition for Rule making (RM-8418) was to encourage former amateur operators to become involved again in the technical self-training and public service communications opportunities provided by the amateur service.

The ARRL believes that former license holders whose interest is rekindled should be permitted to reenter the amateur service without examination.

The FCC said, "We believe that the ARRL's position has merit. Former license holders previously passed examinations demonstrating that they qualified for the class of operator license held. Further, this proposal would relieve the VE's from the burden of preparing and administering examinations for former license holders."

The FCC proposed to authorize administering VE's to give examination element credit for any examination that the applicant previously passed in obtaining the former license.

The Commission also asked for comments concerning the criteria that we should use to allow any other qualified persons similarly situated (such as former and current holders of other types of operator licenses issued by the Commission, other United States government agencies, and foreign governments) to obtain examination credit, without examination for amateur operator licenses.

Section 97.505 is revised by redesignating paragraph (a)(10) as paragraph (a)(11) and adding new paragraph (a)(10) to read as follows:

97.505 Element Credit

(a)(10) An expired FCC-issued amateur operator license. The least elements required for the operator license formerly held. No examination credit will be given if the operator license was suspended for the remainder of the license term, if the operator license was surrendered to avoid enforcement, or if the operator license expired following revocation of the associated station license. Examination credit, however, will be given if the suspension period of the operator license was subsequently modified to denote a lesser time period.

Eligibility for a Club Station License

The American Radio Relay League believes that it is important for the FCC to determine that applicants for a club station license are

legitimate clubs and not just persons pursuing an additional call sign. ARRL petition RM-8462 recommends that a minimum of four members be required.

The current rules, Section 97.5 (b)(1), currently requires a club to be comprised of at least two persons. The ARRL states that only 10 of its 1,958 affiliated clubs have less than a minimum of four members.

The FCC agreed saying, "We believe that there is merit to ARRL's suggestion, requiring four members, rather than two, would assist in ensuring that radio clubs are bona fide organizations. Accordingly, we propose to increase the eligibility requirement to four persons for a club license."

Section 97.5 (b)(2) is revised to read:

97.5 Station License Required

(b) The types of station licenses are:

(2) A club station license. A club license is granted only to the person who is the license trustee designated by an officer of the club. The trustee must be a person who has been granted an Amateur Extra, Advanced, General, Technical Plus, or Technician operator license. The club must be composed of at least four persons, and must have a name, a document of organization, management, and a primary purpose devoted to amateur service activities consistent with this Part. The club station license is printed on FCC form 660.

Ralph, WA5PFX

Ham Holiday

I had a little space left in Ralph's column so thought I would at least say, and I am sure Ralph would agree, that we hope you have a good time at Ham Holiday this year. Ralph's club and mine are a couple of the oldest around, having started during the heyday of the 6 Meter operation. The Wheatstraw and VHF club share a lot of common roots and many people were members of both clubs when they started.

If you see either Ralph or me at Ham Holiday, stop and say hello, and let us know what you would like to see in our columns.

Joe, K5JB



A. R. R. L. Bulletins

From ARRL Headquarters
Newington CT

ARRL Bulletin 54
May 23, 1995

SM Election Results

Ballots have been counted for Section Manager elections in Nevada, New York/Long Island, and Utah. Terms of office begin July 1, 1995.

The results are as follows:

In Nevada

E. J. "Curly" Silva, K7HRW, 82
Billy Smith, Jr., W4HMY, 214
Richard H. Warren, Jr., N7RH, 144.
Smith was declared elected.

In New York/Long Island

Leonard A. Buonaiuto, KE2LE, 479
Rick Ramhap, N2GQR, 545
Ramhap was declared elected.

In Utah

Douglas G. Nielson, N7PPW, 42
James F. Rudnicki, NZ7T, 223
Jerry E. Wellman, WB7ULH, 134
Rudnicki was declared elected.

Six other Section Manager positions were not contested. The following were declared elected.

In Maryland/DC

William Howard, WB3V

In New Hampshire

Alan Shuman, N1FIK

In Northern New Jersey

Richard Moseson, NW2L

In Rhode Island

Richard Fairweather, K1KYI

In San Joaquin Valley

Mike Siegel, K16PR

In West Texas

Milly Wise, W5OVH

ARRL Bulletin 56

June 5, 1995

Director Resigns

ARRL Great Lakes Division Director Al Severson, AB8P, has resigned for health reasons. Effective June 5, Vice Director George Race, WB8BGY becomes Great Lakes Division Director.

Severson, who is still recuperating from a prolonged illness, said "The only reason for my resignation is ... my feeling that we need a vital and active member running this division."

"I am certain you realize how sad I am taking this action. However, I am extremely heartened to have my friends in the League family, and my good friend George Race to take my place," Severson said.

Severson had served as director since January 1, 1990, and, before that, as vice director.

ARRL Bulletin 57

June 8, 1995

NH Antenna Bill GO!

New Hampshire Governor Stephen Merrill has signed into law a bill protecting amateurs' rights to antennas.

The bill, HB 379, earlier passed both the state's House and Senate unanimously and was signed by the governor on June 5. It was originally written to include slightly stronger language regarding antennas than that contained in PRB-1; the language was then fine-tuned at the suggestion of members of the legislature who are "friendly to Amateur interests," according to ARRL New Hampshire Section Manager Al Shuman, N1FIK.

The bill was filed on the coattails of New Hampshire's HB 1380, passed in 1994, which provides protection from taxing Amateur Radio towers as real property. HB 379 reads:

"No city, town, or county in which there are located unincorporated towns or unorganized places shall adopt or amend a zoning ordinance or regulation with respect to antennas used exclusively in the amateur radio services that fail to conform to the limited federal preemption entitled Amateur Radio Preemption, 101 FCC 2nd 952 (1985) issued by the Federal Communications Commission."

In addition to Shuman, other New Hampshire amateurs who helped in this victory included Rep Ralph Rosen, WIHSB; Rep Tom Kirby, W1EJ; Rep Rudy Adler, W1GUA; Jack Sheehy, WA1ALM, and Cal Calvitto, W1WOK. Rep Rosen wrote the bill.

ARRL Bulletin 58

June 8, 1995

FCC on the Internet

The FCC has instituted an FCC homepage (<http://www.fcc.gov>) as an entry point to the Commission's on-line resources.

The page features selectable buttons to go directly to high interest items such as the Daily Digest, the Commission Agenda, Auctions, and current rule makings.

There also is a button called "Getting Information," providing a tour of what information is available and where it can be found on the site. It provides links to available on-line documents. There also is a link to the FCC telephone directory.

A general mailbox for electronic mail to the FCC is: [fccinfo at fcc.gov](mailto:fccinfo@fcc.gov).

ARRL Bulletin 59

June 9, 1995

Vice Director Appointed

John Thernes, WM4T, of Covington, Kentucky, has been appointed vice director of the Great Lakes Division for the unexpired remainder of the term of that office. John will serve until January 1, 1996. John, age 46, is a former section manager of Kentucky.

The vacancy in the office of vice director occurred when former Vice Director George Race, WB8BGY, became the new

division director following the resignation, for health reasons, of Al Severson, AB8P. Details of Al's resignation were carried in an earlier WIAW bulletin.

ARRL Bulletin 60

June 13, 1995

RFI Proposal Response

The ARRL has commented on an FCC proposal to deregulate the equipment and testing requirements for personal computers, peripherals, and individual components (in ET Docket No. 95-19).

The FCC proposal, made in February, would not change the substantive regulations governing unintentional emissions from Class B digital devices, and there is no proposal in this proceeding to increase the amount of permitted RF energy from personal computers, peripherals or their components.

"Theoretically," the League said, "radio amateurs will not be affected by this proceeding, notwithstanding the fact that the Commission's certification procedure is specifically intended to ensure that unintentional radiator devices not cause interference to radio services such as Broadcasting, Aeronautical and Maritime communications, and the Amateur Service."

But the League did express concern that the FCC was proposing to give up oversight that in the past has kept interference from Class B computing devices to radio receivers within "practicable limits." This is a special consideration, the League said, now that many radio amateurs have PCs as permanent parts of their stations. The League said it was important that the FCC reaffirm its intention to increase enforcement against non-compliant devices.

The League said it is the concern of the amateur community that new testing procedures could allow on the market more devices that either are

not tested, do not meet RF emission requirements, or both.

The ARRL said its greatest fear is that there will not be significant enforcement of the new rules, nor any effort to evaluate the level of compliance on the part of the manufacturers, and that there will be no disincentive to simply market non-compliant products. Since the Commission's field offices today seldom respond to complaints of interference to home electronics products, the only time that such issues can be adequately addressed is at the time an unlicensed device is marketed for sale to the public, the League said.

Finally, the ARRL said that since Class B PCs can malfunction due to close-by RF fields, that every PC's declaration of conformity should identify where the owner can go for assistance in getting the device to function properly in the presence of RF.

ARRL Bulletin 62

June 16, 1995

WIAW Field Day Sked

From 2000Z June 24 to 0300Z June 25, WIAW will not transmit code practice due to Field Day operations. CW, RTTY and SSB bulletin schedules are not affected. Regular code practice transmissions will resume with the 2000Z session on June 25.

ARRL Bulletin 61

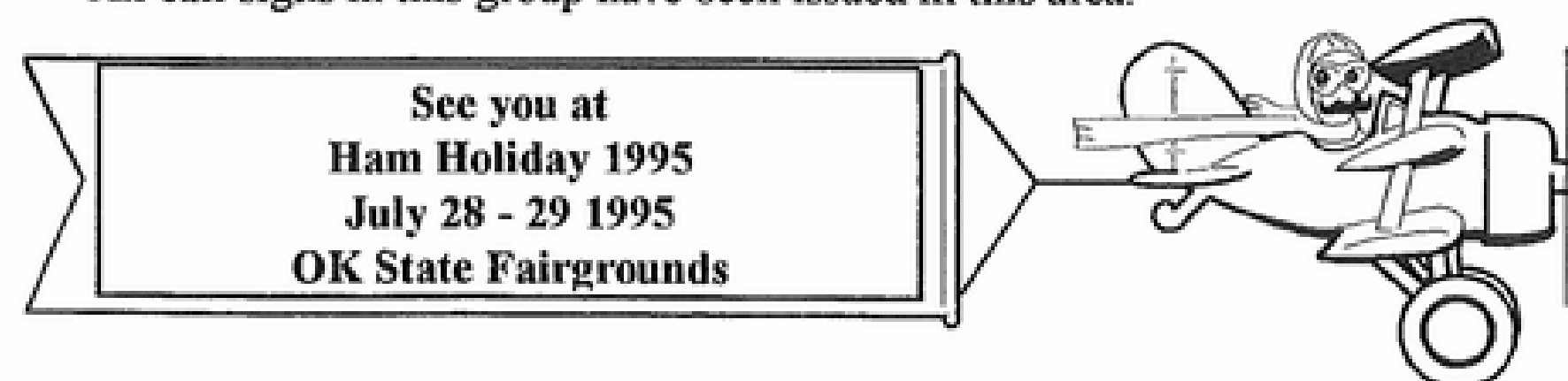
June 15, 1995

Ham Calls, 1 Jun 95

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

District	Group A Extra	Group B Advanced	Group C Tech/Gen	Group D Novice
0	AA0XW	KG0XC	++	KB0SWQ
1	AA1NO	KE1BU	N1VGK	KB1BSD
2	AA2XP	KG2CX	++	KB2UXP
3	AA3LW	KE3TS	N3VOD	KB3BJL
4	AE4IU	KS4YB	++	KF4AQY
5	AC5DE	KK5PK	++	KC5OYU
6	AC6NN	KO6WN	++	KE6URO
7	AB7KN	KJ7OI	++	KC7LLW
8	AA8TS	KG8RR	++	KB8ZWA
9	AA9PB	KG9CQ	++	KB9KSE
N. Mariana	KH0R	AH0AW	KH0DW	WH0ABC
Guam	WH2P	AH2CZ	KH2NT	WH2ANM
Midway	++	AH4AA	KH4AG	WH4AAH
Hawaii	++	AH6OD	++	WH6CVT
Amer. Samoa	AH8O	AH8AH	KH8CI	WH8ABB
Alaska	++	AL7QC	++	WL7CNA
Virgin	WP2R	KP2CE	NP2IG	WP2AHX
Puerto Rico	++	KP4ZO	++	WP4MYZ

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



What Is Packet Radio?

Packet Radio is (yet another) digital transmission method available for use on Amateur Radio. It provides 'error free' transmission and reception of messages (information/data/etc.) between two stations. This error free capability is a prime consideration ('error free' in this context does not mean that your 'typing or spelling' mistakes will be fixed, but that all transmitted 'data' will be received 100% intact, as sent). In fact, if the data cannot be delivered 100% intact, the sending is eventually aborted and the user is informed that there is no longer a 'connection' between the two stations.

The 'Packet' in 'packet radio' comes from the method of transmitting your information over the air. Your 'data' is broken up into packets (or blocks) that are transmitted. Each packet contains the sending and the receiving station call signs and some optional 'routing' information. A packet can contain from 0 to 256 data (or information) bytes. The users normally do not need to be concerned with this 'packetizing' of their messages. Each packet is sent and then acknowledged by the receiver when received. If a packet is not received correctly, then it is automatically re-transmitted (up to a maximum number of times).

One of the more popular protocols used for Amateur Packet Radio is known as AX.25. This is very similar to the commercial X.25 standard. There is also a growing TCP/IP user base. If you are not network oriented, then the details of these protocols are not important to you as an operator of a packet radio station.

Be aware that most packet radio operation at this time is at 1200 baud. This will seem slow when compared to what is happening on networks, and on telephone BBS's....but what is gained is world wide access, for NO COST. Once you have your equipment, and your license, there are no fees (except for the electricity that your computer and other equipment use :) What kind of equipment do I need, and how do I use it with my computer?

Since you have a computer, you already own the most expensive part of an Amateur Radio Packet Radio station. The other piece of equipment that you need is the TNC (Terminal Node Controller). The TNC contains all the software and special hardware that you need. It actually contains the MODEM (to interface with your radio) and (usually) a microprocessor with the packet software contained in EPROM. You interface your computer (or even a simple dumb ASCII terminal) with the TNC via serial RS-232. Use your favorite 'terminal emulation software' on your PC (the same software that you use with your telephone modem will probably work fine).

Most 'primary' packet radio operations occur (in the USA) on the two meter band. Check out the following frequencies (they may be different in your area, check with some local hams if you don't hear anything) even the typical 'police scanner' can be used to listen to these frequencies: 145.01, 145.03, 145.05, 145.07, 145.09 Mhz also, if the above are busy, many areas also use: 144.91, 144.03, 144.95, 144.97, 144.00 Mhz

Yes, this is with a 'standard' FM radio set for SIMPLEX transmitting. If there are packet radio transmissions you should hear a sound like:

BBBBbbbbbrrrrraaaaaaapppppppp

3) How much technical (hardware) proficiency is required to manage a packet radio system? (I have a general understanding of hardware, but am more comfortable programming.)

Well, if you can plug an RS-232 cable into a modem, and wire the TNC to your radio (most TNC's connect to the microphone plug of an FM rig, normally only needing Push To Talk, and Transmit Audio. Plus a connection to the speaker audio output from the FM receiver), then you have all the ability that you need. If you are not comfortable with wiring a microphone connector...I am sure that there are hams that would be glad to help you.

It really is very simple, and once it is done, there is virtually no maintenance. Just plug in your TNC in place of your microphone and external speaker jack,

and you're on the air...to return to voice operation, plug in your microphone. If you like, build a simple switch box to allow easy changing between your TNC and voice operation. I don't recommend it, but some wire the TNC and Microphone in parallel, so that they don't need to change the plugs, or switch anything at all.

4) Just what's out there for me to access via packet radio?

Here comes the interesting part....I believe that packet radio is still in its infancy...It seems like every day a new application for packet radio is announced...some are good ideas...others not.

Here is a *simple* list that just highlights some of the available uses of Amateur Packet Radio.. I am SURE that I have forgotten something and left it off the list:

EMAIL: At this time we have 'world wide' email distribution. I personally have received email from a few continents, and from all over the USA. Of course, this is limited by the Amateur Radio rules/regs, so there can not be any commercial messages. This is possible with "store and forward" bulletin board systems (BBS) that automatically forward message from location to location until it reaches a destination BBS.

Bulletin boards (BBS), which are similar to telephone BBS and carry postings similar to the stuff on Usenet and other computer services and also often have archives of useful files (such as local ham license testing sites). These are usually the same systems that transport email which also makes it possible to post notices on BBS all over the country.

File transfers. Better at 56 Kbaud (as some hams are doing), but feasible at 1200 baud. This includes all types of files, not just ASCII text, so it is possible to transfer programs, graphics, etc. The capability for doing this is dependent on what type protocol in use and the amount of traffic on the frequency being used. On TCP/IP, you just start it and forget it, so you can do them overnight or at some other time when you don't care whether it takes a while.)

Local networks: Here in New England there is connectivity over most of the 6 states. From Derry, NH, for example, it is possible to 'connect' to other stations from the following areas consistently: Canada (Quebec), Vermont, New Hampshire, Maine, New York, Connecticut, Rhode Island. Of course, on HF there can be 'world wide' connectivity, depending on many factors.

DOSGATE: A system that allows you to execute programs remotely. A DOSGATE system may have many programs for you to use over the air. You don't need to download the programs to use them, you are actually running programs remotely. For example, my DOSGATE system has the following programs available for use by 'remote' packet users:

AUTOEXAM: take the latest Amateur Exams from Novice to Extra, used as a study guide, or to see if you are ready for the licence exam.

SeeSats: Real time satellite tracking. Informs you of where the current OSCAR (and other) satellites are located.

AUTOCALL: Online Amateur Radio USA 'callsign' lookup database. Simply enter the callsign of any amateur radio operator in the USA and it will print out the name, address, licence class and previous callsign (if any).

GAMES: Several 'adventure style' games that can be played online.

Repeater database: A database of many of the repeaters in the area.

DOSGATE allows those who don't have a computer to run programs via packet radio.

Databases. It is also possible to access databases without DOSGATE. There are several available in different parts of the country. You can remotely access callbook (address information), vessel tracking info, HAZMAT (hazardous materials). The DX Packet Cluster also provides a variety of DX information from its database.

PacketCluster-DX spotting: This is a specialized system that allows a couple hundred users to be 'connected' to the

same system at one time. It is used by those Amateur operators who seek contacts with rare stations throughout the world. When any one user 'finds' a rare station on the air, he simply types the information (callsign, frequency and mode) into his terminal, and within a minute or so, everyone of the other users connected to the 'packet cluster' are informed of the rare station!!! So called "DXers" (people who love to hunt these rare stations) LOVE this system. These users can be spread over a wide area (our local packet cluster system has connectees from Maine to New York).

Gateways: Even though you may not own any HF or UHF equipment (many packet radio operators only use a simple 'hand-held' FM transceiver), you can gain access to other bands and operating modes by using a gateway. A gateway allows connectivity between two normally unconnectable communication technologies.

Public Service: Many packet stations are used to help out with sending messages during disasters. Amateur Radio operators help out whenever they can, and many Hams have their packet stations ready for portable operation to help when needed. There are many 'training' exercises during each year to help practice and test the 'readiness' of the emergency stations.

OSCAR Satellites: OSCAR stands for Orbital Satellites Carrying Amateur Radio. We have our OWN satellites in orbit that are dedicated for Amateur Radio use. There are some satellites that are dedicated to packet radio (sometimes called "PACSATS"). Some of these are special, others are for 'store-and-forward' operations to help distribute 'packet traffic' around the world.

Station-Station: I almost forgot...many people just like 'chatting' with their neighbors....The could be people across the street...or in the next state... or half way around the world!

I am sure that I have missed something... maybe others can fill in the gaps here. You asked about potential...as I stated at the beginning, we are just getting started!!! Many people are just finding out about packet radio. I believe that the only limitation is our imagination!! We could

have a world wide network (we do currently have a 'slow-speed' world wide network) in the near future...It just takes a little imagination...

5) How much will a packet radio set-up cost me? How COST EFFECTIVE is packet radio?

Well, if you own the PC already...TNC's can be purchased from about \$120.00 on up. There are a few for less money, and several that provide for operating on many digital modes besides packet radio (i.e.: the Kantronix KAM will provide for: PACKET (HF:300 baud/VHF:1200 baud), AMTOR, RTTY, ASCII, NAVTEX, WEFAX, CW (morse code),...).

If you already own an Amateur FM transceiver (or an HF SSB transceiver) then you have all the equipment needed. If not, a two meter FM rig can be purchased for: used: from \$100-250.00, new: from \$300.00 on up.

Cost effective....Hmmm, well first be aware that Amateur Radio cannot be used for any commercial or business purposes...But where else can one get hours (years) of 'enjoyment' and service out of \$450.00 (\$350 for a radio and \$100 for a TNC, assuming you already have the computer or terminal). Note: This stuff can be contagious....be forewarned :-)) !!

6) What legal issues do I need to consider regarding packet radio? Do I need a license?

Yes, you need a Valid Amateur Radio License. There is Packet radio activity on the Novice bands. But if you want access to the 'mainstream' of packet radio, you will want at least a Technician Class Amateur Radio License.

There are a few books, etc...but I have found that most assume that you already know about Amateur Radio. You need to find what we call (ready for another term?) an "Elmer"...An "elmer" is a friendly, helping Amateur Radio operator who will 'take you under his/her wing' to help and guide you as much as you need. I hope that you can find someone to help you...it takes a special kind of person to be an 'elmer' (gosh I hate that term).

Taken From AOL 3 July 95, Transmitted: 94-07-31

AMATEUR RADIO NEWSLINE

Articles printed in their entirety and credit is given to AMATEUR RADIO NEWSLINE as the source.

FCC RIP -- NOT YET

Is the FCC on its way to oblivion? A think tank with ties to House Speaker Newt Gingrich released a proposal to dismantle the Federal Communications Commission and replace it with a small executive branch office. The plan would turn over the nation's airwaves to broadcasters, cellular companies and other current holders of FCC licenses. Future licenses in all services would be sold to the highest bidder. How could such a sweeping change impact on Amateur Radio?

Whatever support amateur radio gets from the FCC now would be a thing of the past if the Commission is dismantled. That's one opinion voiced by an opponent of the Progress and Freedom Foundation's plan. The foundation proposes to drastically reduce the Commission's staff which numbers about 2,200. Perhaps most significant to amateur radio all FCC rules and regulations including Part 97 governing the amateur service would be phased out. The foundation's idea is getting thumbs down from Alabama ARRL Section Manager Tom Moore, KL7Q.

The Foundation proposes setting up a new office of Communications. It would oversee privatization of the airwaves. Many federal laws would be repealed, which must of the FCC's regulatory responsibility being transferred to the states.

Anti-trust regulators would take over some functions. Moore believes amateur radio would be a loser under the think tank's plan.

Hams aren't the only ones who don't seem to like the idea of dismantling the FCC. The proposal is also drawing criticism from Commission Chairman Reed Hundt.

And the FCC is far from being down and out. Representative Edward Markey of Massachusetts, the senior Democrat on the House telecommunications panel says that Congress is considering legislation that would give the FCC even more power and influence than it has right now.

NEW SAREX LAUNCH DATES SET

NASA managers have set new launch dates for two Shuttle Amateur Radio Experiment missions scheduled to fly this summer. Space Shuttle Discovery on Mission STS-70 is now targeted for launch on July 13 and Endeavour is set to be launched on Mission STS-69 on July 30.

The new target launch dates for Discovery and Endeavour were established after the launch team finished assessing the impact of a decision to roll Discovery off Launch Pad 39-B.

As previously reported, the rollback was required in order to make repairs to the foam insulation on the external tank caused by woodpeckers eating away the outside foam insulation.

Also, there is a SAREX operation scheduled for the STS-71 Mir Rendezvous mission which should be underway as this newscast goes to air.

ARIZONA 2 METER HIGHWAYS

A couple of road stories for you. The next time your in your local magazine shop to pick up a copy of the June-95 issue of Arizona Highways magazine. WA2RCB says via packet that there is a very good article in there about ham radio operations in that state, along with a state map keyed to show many 2 meter repeaters.

LOST SATELLITE LOGS

VE2VB, of Quebec Canada has reports that he lost a computer file containing logs of some of his recent satellite contacts. Benoit says that he made about 30 contacts on AO-10 and AO-13 in the month of April. He asks anyone who may have worked him during this period to contact him so he can build his log up again and issue QSL cards to those who need them.

Benoit can be reached on packet radio at VE2VB at VE2CLJ or via the Internet at: ve2vb@mtlgw.ampr.org. His postal address may be found in any Callbook from 1987 on.

DX

In DX, Tunisia as 3V8BB is currently active again. This time activity will be on CW, SSB, RTTY and the satellites. 3V8BB was heard on 14240 kHz SSB around 2230z, 14030 kHz CW around 2315z and operator Mike, JA2PDQ, was heard on RTTY around 14083 kHz between 0030 and 0130z. Activity is to last until the middle of June. QSL via JF2EZA.

Also KF7AY, reports that members of the Page DX Association and the Central Arizona DX Association will be traveling to Vietnam in January of 1996. Tentative dates of operation will be January 23rd through February 2nd of next year. Plans call for an emphasis on the low bands from the coastal city Nha Trang, with concentrated top band activity during the 160 meters contest. The primary mode of operation will be CW, but there will also be RTTY and SSB activity on 40 through 10 meters, plus the WARC bands. Permission and logistics permitting, there may be a limited first time Island On The Air effort from the Island of Hon Tre, which is part of the Mein Trung group in the South China Sea. No call sign has been issued as of yet. As with previous operations, the Vietnamese government will likely assign fixed frequencies and these will be published well in advance.

Monk Apollo, SV2ASP from the monastery at Mount Athos writes that he is not QRV on CW mode. QSO's and QSL's for contacts with SV2ASP/A on CW from January 1st to the present won't count.

Also, look for a special operation on the road so as to speak. Newsline correspondent Linda Reader, N7HVF reports that Sister Alverna O'Loughlin, WA0SGJ, of the Handi Hams will be traveling from Minnesota to Alaska and operating on the 40 and 20 meter bands. Listen for her on 7.2685 Mhz and QSL as directed.

TWO VEC's DOWN

Gordon Girton, W6NLG of the Sunnyvale V.E.C. says that it is beginning to look as if the nation will be down to 16 V.E.C.s as of July 1st. Gordon notes that Great Lakes V.E.C. has not proctored a test session in the past six months. Also says Girton, the Charlotte V.E.C. has notified the FCC that it will stop testing on July 1. This, due to health problems with one of the groups senior administrators. W6NLG adds that the new and badly needed 610 V and 1070 V forms appear to still on hold but he hopes to know more as a result of the V.E.C. Conference in Gettysburg on June 23rd.

NEW ADVANCED QUESTIONS

Also on the examination front, effective July 1, 1995, a new Advanced class question pool takes effect. V.E. exams beginning on that date will use questions from the new pool. The new, 4th Edition of The ARRL Advanced Class License Manual is now available and covers these new questions.

SSTV at W1AW

A complete, modern slow scan television system has been donated to W1AW. The system, designed by John Langner, WB2OSZ, includes his PASOKON TV software, a "frame grabber", a 486 color computer, and a charge coupled device (CCD) camera.

The system, valued at some \$2,000, was donated by Norm Creller, W8MPM. Creller is a manager at Chrysler Motors in Toledo, Ohio.

The new SSTV equipment is set up for use by visitors to W1AW. They will be able to observe SSTV on the HF bands as well as to send pictures.

MANUFACTURER UPSET WITH QST STORY

Telex Corporations Steve Morris K7LXC is angry with the American Radio Relay League over an article in the April issue of QST Magazine and he has made his frustration known to other members of the ham radio business community.

According to the May 15th W5YI Report ham radio newsletter, Morris vented his

anger with the QST article at the Amateur Radio Industry Group meeting held in conjunction with the recent Dayton Hamvention. There says W5YI, the Telex representative gave a presentation that was extremely critical of an article that he says urges new hams to shop for equipment using 800 telephone numbers rather than patronizing local dealers.

Morris said that he strongly objected to the League publishing an equipment purchasing system that he considers as being detrimental to the amateur radio equipment supply industry. This, because it plays one mail order firm against another.

The ARRL has not commented officially or publicly on Morris comments and it is very unlikely that they will. This, based is the long standing albeit unofficial policy of never to commenting on matters of internal policy.

Also, there is another question to be answered. That being if W5YI did the proper thing in publishing the story in the first place.

Since its inception, the industry association has had a rule that says matters discussed at these meetings are considered as being top secret confidential. Like a closed board of directors meeting of a private corporation.

As such, the ham radio press is there only as an unofficial guest. Those press people who attend have long known that they are supposed to leave their reporters note pads at the door or not bother to walk in.

RESCUE AT SEA

Amateur Radio has once again been a life saver on the high sea. The crew of a vessel in distress are alive only because of the quick response to their call for help heard by a Canadian ham.

The crew of a yacht that nearly sank off the Mendocino coast is safe and back on dry land. This, thanks to a Ham radio operator in Canada who picked up their distress signal when Coast Guard officials nearby could not.

The 36 foot ketch lost its rudder and was drifting helplessly in 24 foot waves off Point Arena Thursday June 1st when Doug Burrows in Alberta heard their faint mayday calls on his radio. Burrows called the U.S. Coast Guard in San Francisco, which dispatched a cutter and helicopter. The three crew members, who stayed with their boat, arrived at the Coast Guard Station Golden Gate the following day. The yacht was towed in by a Coast Guard patrol boat.

BOWERS vs. FLORIDA

The final chapter in the antenna and tower battle of WA4SNT and N4XLF versus their neighbors appears to have been written and the neighbors have been victorious. W5YI reports that a final ruling from Florida's Forth District Court of Appeals that says that the transmissions of electronic apparatus in the possession of David and Sharon Bowers may not interfere with neighbors electronic devices.

As previously reported, the Bowers had appealed to the American Radio Relay League to take on their tower fight, but the league turned down their request. In a letter to amateurs who had written asking for ARRL intervention the League noted the court had found that the residents of the Bowers community had mutually agreed not to annoy one another. That the Bowers installation of their eighty seven foot tower and subsequent operation had violated this agreement.

Even the FCC which had come to the aid of Mark Nadel, NK2T in his battle with a Long Island New York community turned down the Bowers. Writing at the request of U.S. Senator Bob Graham, the FCC's General Council William Kennard responded by noting that the commission did not believe the Bowers case to be appropriate for FCC to intervene. Probably because it is an issue dealing with deed restrictions over which no regulatory agency seems to have any jurisdiction.

HAM RADIO AND MORE

Ham Radio and More is now on shortwave. The weekly ham radio talk

show began airing on WWCR, tape delayed twice per week on June 5th.

Ham Radio and More airs on WWCR each Monday at 3:00am Eastern Time on 7 dot 435 MHz and again every Saturday at 5:00pm Eastern on 12 dot 160 Mhz.

The show is produced and hosted by Len Winkler, KB7LPW.

(Con't)

The Lunar Loan Program

by Carole Perry WB2MGP

Lucky is the teacher of Amateur Radio in the classroom! There's probably no other curriculum that lends itself to such a myriad of subject areas to pursue. Working with the SAREX (Shuttle Amateur Radio Experiment) program has lead to all kinds of interesting paths to explore with the children. I recently attended a NASA teacher's workshop, and left with a suitcase filled with notes of great ideas for the classroom.

Once you get the kids involved with speaking with astronauts, building projects, watching some of the terrific NASA videos, or listening to shuttle retransmissions, you won't be able to hold back the flood of excitement that the children will get caught up with. Every term I include a unit on Space Travel and Communications. I'm always pleasantly surprised to see how creatively each group pursues its own interests in this fantastic area of study.

The Lunar Loan Program is a wonderful program for educators that is worth getting involved with. I interviewed Richard Crone from the Educational Programs Office at the Goddard Space Center for details about the program. He

stressed that Goddard handles the Lunar Loan program a little bit differently from the other NASA field centers. He suggests that any teacher who does not live in the Northeastern part of the country which is serviced by Goddard should contact their local NASA Teacher Resource Center for applicable information.

Richard explained that each center has a different method of certification. I'll explain how to get certified by the Goddard Space Flight Center for this program. On July 20, 1969 Neil Armstrong became the first of only 12 astronauts to explore the surface of the moon. These space-age pioneers brought back 382 kg of lunar material. Luckily for educators, a small portion of this "extraterrestrial" material is available for classroom use.

In 1985, the Education Office at the Goddard Space Flight Center accepted responsibility for lending samples to educators in Connecticut, Delaware, Maine, Maryland, Massachusetts, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, Vermont, and the District of Columbia. The lunar sample disc is 15 cm in diameter and consists of 6 samples representative of the moon's geology. Goddard officials recommend that the disc be studied using a binocular microscope. The samples are examples of basalt, breccia, highland soil, anorthosite, mare soil, and orange soil.

The Educational Programs Office has direct responsibility for 19 lunar discs. The discs are mailed to "certified" educators on a first-come, first-served basis. A teacher can become certified by attending a full day program in November at the GSFC. Educators participating in this conference will be briefed about the security requirements for the disc, current

NASA educational programs, and Goddard's Teacher Resource Laboratory. In addition to the briefing sessions, each educator will participate in a group tutorial session with a Goddard scientist.

Educators who have been certified to borrow lunar material must submit a written request at least 1 month before the first date of the requested loan period. The normal loan period is between 1 and 2 weeks. We can easily appreciate that the lunar material in the discs is irreplaceable. Although the samples have no "cash value" they do represent a national treasure. Security must be a prime concern for anyone involved in the loan program. Exact specifications of how the samples must be stored will be provided to the participant.

The lunar disc is part of an educational package that contains: 25 copies of the publication "What's New on the Moon", a 16mm film and VHS video tape copy of the film "Reading the Moon's Secrets", a filmstrip and audiotape, and a teacher notebook containing actual photographs of the assigned sample along with several student activities.

Richard Crone invites you to contact him for further information. He can be reached at Code 130.3, Educational Programs Office, Goddard Space Flight Center, Greenbelt, Maryland 20771 or at (301) 286-7205.

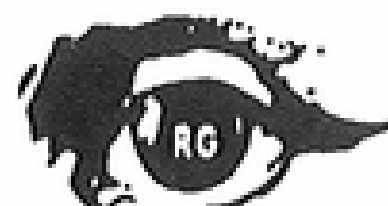
Be sure to stop by the Instructor's workshop and or the Youth Forum at Dayton this April to say "Hello" to me and the terrific kids who will be giving presentations. An ICOM 2m HT will be presented to a youngster under 18 who is in attendance.

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Word Search

by Edith,

HAM HOLIDAY

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

CRYPTO Clans

By Forest, N5VWF

Each list contains related items: word structure and single letters are clues.

Example: Telegraph Key
 XAYAILRMP JAG

AMATEUR RADIO

- | | | |
|---------------------------|------------------------|---------------------|
| 1. _____
ROY QZYHRN | 2. _____
ZFOZN | 3. _____
PRKLNRL |
| 4. _____
KZOOHVQZUFQXN | 5. _____
LZFHRLZO | 6. _____
VROOHLN |
| | 7. _____
KZTTXQOELY | |

Answers in Next Month's Issue of Collector and Emitter

WORD LIST

Aeronautical Center ARC
 Central OK Radio Amateurs
 Cimmaron ARA
 Collector and Emitter
 Edmond ARS
 Exhibits
 Eyeball QSO Party
 Fleamarket
 Forums
 Grand Prize Drawing
 Ham Holiday
 Hourly Door Prizes
 Mid-OK Repeater INC
 Native America
 New and Used Dealers
 Non Technical Programs
 OK Central VHF ARC
 OKC Autopatch Assn
 Oklahoma City
 Preregistration
 Programs
 Scholarship Fund Awards
 South Canadian ARC
 State Fairgrounds
 Technical Programs
 Wheatstraw ARC

Newsline (Con't)

DX SEBORGIA

Seborga is now T8A to T8Z. DL8AAM reports that The ITU has issued T8A-T8Z to this small country while invalidating all 1P prefix calls.

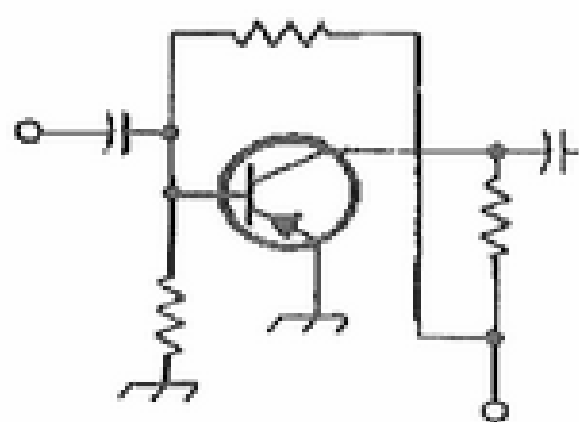
Also, the Radio Society of Great Britain reports that UA9OBA and RW3GW will be part of an Antarctic scientific expedition lasting several months. If possible, the two hams hope to activate Bouvet Island in early November if the can get the necessary permission from Norweigan telecommunications officials. The probable call sign will be 3Y/R0FL.

DX PHONY QSL LISTS

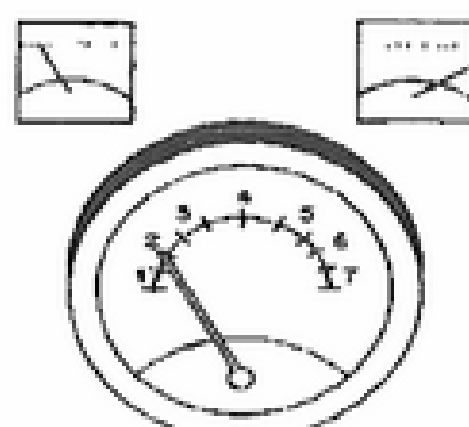
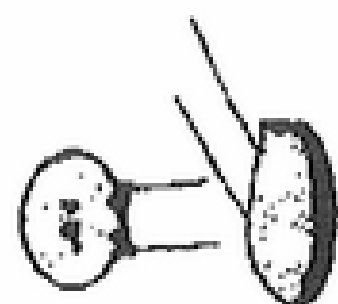
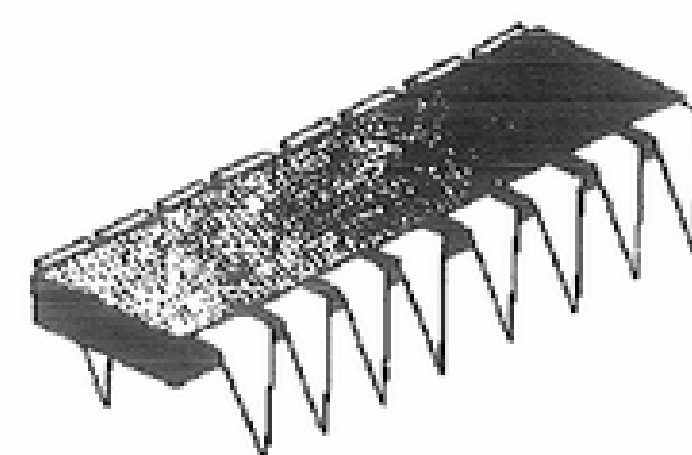
Also, DU7CC advises via packet radio for hams to be aware of phony QSL operations. Tom says that some people are allegedly are selling long outdated QSL Manager Lists and asking dollars or IRCs. Tom says he has found his name listed on a number of these sheets for operations dating back well over two decades ago.

D. W. ELECTRONICS

ELECTRONIC PARTS



Come in and see for yourself.

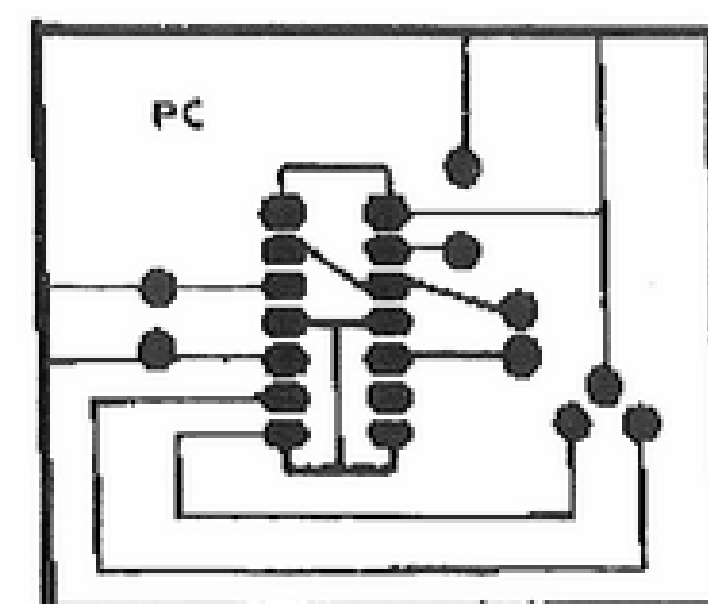
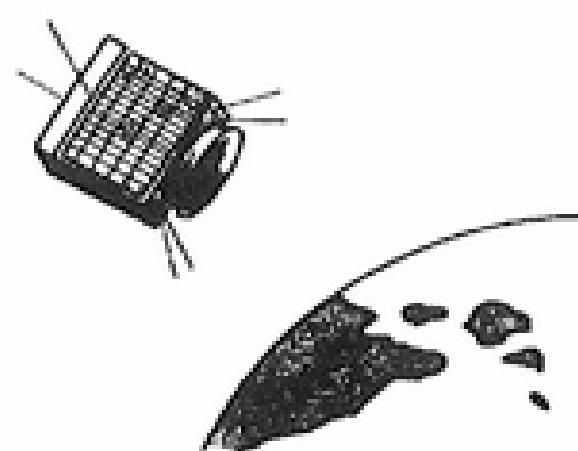


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A LOOK INTO OUR PAST: APRIL 1980

THE MONKEY CLUB

I have read many of the articles in past C&Es that were written by K5NK. The topics of these articles vary greatly. A few of his articles are educating the ham community while many are written to bring a smile to your face and a chuckle or two. The following articles were written over a period of months concerning the forming of a NEW CLUB!!! I was wondering if this club was still in existence and if they were planning to meet during HH this year? Oh yes, a personal note to the author, You said I could reprint any of your past articles and this series was hidden in the middle of a clubs newsletter. (Am I in hot water? NILPN)

NEW RADIO CLUB: There are at least a dozen or so amateur radio clubs in the metropolitan area of Oklahoma City and I suppose some are members of most or all of the clubs around. All these clubs have a good membership and serve their purpose. I, don't know of any club which has a restriction on membership as long as one will cough up the dough to obtain membership. However, a new club has been formed and membership in this club is very exclusive. At the present time we have only five members and there is a vacancy for one more new member. We can't be a complete club until this vacancy is filled. The club has no dues and actually serves no purpose at all. We as of yet don't have a repeater. As our president, we have Mr. Ron Recer, KE5M. The vice- president is none other than Mr. Robby Runyon, AA0O. As secretary, yours truly, K5NK fills this capacity. Just in case we ever decide to collect dues for the club, Mr. Tom Cassidy, KF5E serves as our treasurer. As our fearless reporter, Mr. George Adkins, AD1S does a wonderful job. As stated, this is a very exclusive club and not just anyone can join. We would like to fill our one vacancy, but, to do so, the call must end with the single letter 'Y', such as KF5Y. Anyone out there in radio land who might upgrade or get a new call and it ends with the letter 'Y', please contact one of the officers. We will be more than happy to make a MONKEY out of you.

K5NK

May 1980: MONKEY CLUB NEWS

CLUB MEMBERSHIP FULL: It was reported in last month's issue of the C&E that a new club had been formed, namely the MONKEY CLUB, and that we were looking for a member to fill our one and only vacancy. After much searching, this member has been found and has agreed to join this prestigious club. We welcome Mr. Allen Alger, AI5Y, of El Reno, who will become our program chairman just in case we ever have a meeting of the club and need a program. Talk is going around that perhaps the club will hold a meeting at this year's Ham Holiday and discuss some monkey business. Just in case someone missed out on the list of the members of this club, they are: KE5M, Mr. Ron Recer, president; AA0O, Mr. Robby Runyon, vice president; K5NK, Mr. Chuck Wilhite, Secretary; KF5E, Mr. Tom Cassidy, treasurer; AI5Y, Mr. Allen Alger, program chairman; and AD1S, Mr. George Adkins, reporter. We realize there are perhaps many out there in radio land that are jealous of us for not being able to belong to this fine club, but that's their tough luck. Perhaps you could form your own club. I hear that Mr. Donald Duck, AE5N is thinking of starting a QUACKERS club. Maybe you will fit into this one.

K5NK

June 1980: MORE

MONKEY CLUB NEWS: All Monkey Club members be sure to remember our first annual meeting at Ham Holiday Convention in July. The main item of discussion will be to consider the input frequency of our proposed repeater. We plan to discuss the output frequency at the 1981 Ham Holiday.



K5NK

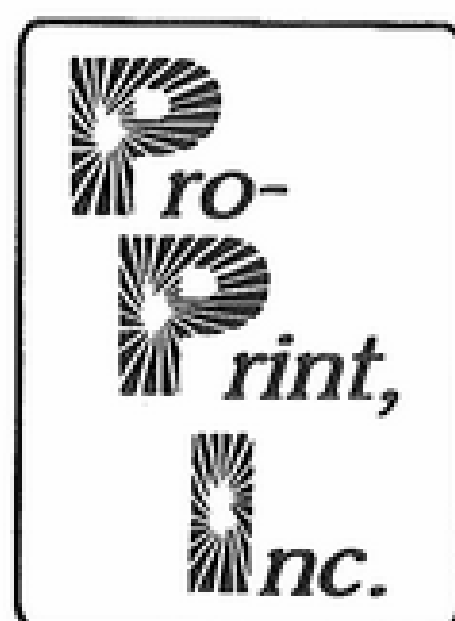
August 1980:

MONKEY CLUB NEWS: The first annual meeting of the Monkey Club is now history. It was a great success. The meeting started promptly at 3:00am on Sunday morning at the 8 foot level of the swimming pool at Lincoln Plaza during Ham Holiday, and immediately it was the 9 foot level, with all the beef the members make up. All members were initiated into Monkey Hong. We had 2 check-ins on the Monkey Net and AD1S won the flea picking contest, finding 23 flies on KF5F. AA0O won the banana eating contest, devouring a whole stack in one minute's time. It was a toss-up on the Prehensile Appendage contest, with AI5Y AND KE5M Sharing honors. K5NK probably made the biggest goof by bringing a right-handed Monkey Wrench instead of a left-handed one as all others did. A repeater input frequency of 21,999.9 MHz was decided on for our proposed repeater. We will decide on the output frequency at the 1981 Ham Holiday. The only casualty occurred when AD1S swallowed half the water in the pool when he decided to work a little moon bounce, thinking he was on a water bed. 73 applications for membership were refused.

K5NK

July 2 to August 5, 1995 Schedule of Events:

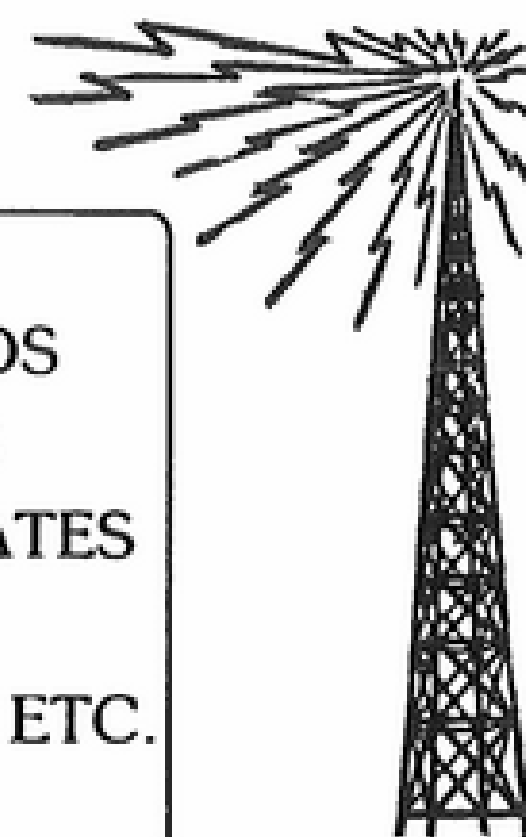
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
2 2:00 p.m. MORI VE Exams	3		5 7:00 p.m. MORI	6 7:00p.m. Aeronautical Center 7:30 p.m. CARA	7	8 9:30 a.m. SCARS 10:00 a.m. SCARS VE Exams
9 2:30 p.m. Wheatstraw	10	11	12	13	14	15 9:00 a.m. VE Exams (RSC) 11:00 a.m. VHF Club
16 2:00 p.m. EARS	17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



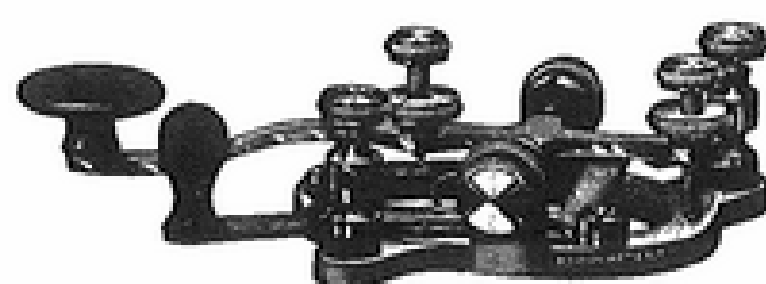
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