



Dog X-Ray  
DX Pup

## Dog X-Ray

invites you to chase him in the  
OKC DX PacketCluster

<CONNECT> AD1S on 144.97 Mhz

Whether you're a BIG DOG or a young pup  
YOU are invited to join in the fun on the  
OKC DX PacketCluster. Now on the air!

For full information on DX PacketClusters, read the "Packet"  
Column in May 1990 QST Magazine. The DX PacketCluster  
Users Manual is available at Oklahoma Comm Center.

I remember with fading fondness  
the days of those "two-fers" at  
various local establishments,  
all in pursuit of rare DX and  
tales of exotic locations. Woe  
is me, those days appear to be  
only memories, as DXing in the  
Oklahoma City area has reached  
new levels of technology.  
Now a crusty DXer can sit at  
his/her computer screen and  
watch the entire world pass in  
review!

I am speaking, of course, of  
the new DX PacketCluster node  
right here in OKC! All a person  
has to do is tune their trusty  
packet station to 144.97 Mhz  
and stand back! From all over  
Oklahoma, Arkansas and Texas  
come reports of DX heard on the  
bands at that very moment!

Ya see, a PacketCluster is a  
network of stations linked to-  
gether by some fool so that  
everybody can see what other  
folks are hearing on the bands!  
Now that doesn't seem sporting,  
but it sure makes DXing a lot  
more fun.

Right here in OKC, there may be  
a dozen stations connected at  
one time, all sharing DX info  
and being sociable. The latest  
DX Bulletins, Propagation Fore-  
casts and the W6GO/K6HHD QSL  
Managers List are there for our  
use. In addition, you will find  
other files with valuable ref-  
erence information for DXers,  
including Contest data, IRC re-  
quirements, FCC Part 97 (all of  
it), CQ/ITU Zones, QSL Bureau  
addresses, and propagation  
forecasts for every DXCC  
country in the world.

You are invited to participate  
in the OKC DX PacketCluster.  
Just tune to 144.97 Mhz and  
<CONNECT> AD1S. You will see a

prompt that will get you onto  
the Cluster. Then type <H> for  
a list of commands to get you  
in the system as an active  
user.

Remember, the DX PacketCluster  
works best if all DXers stay  
connected whenever their packet  
station is not otherwise in  
use. The AD1S node can support  
up to 26 users at one time, so  
don't worry about overloading  
the system. If we get too  
crowded, we'll add another  
port!

If you stay connected, you will  
see the DX information as it is  
received locally and across the  
region. If you check in and  
want to see the latest DX info,  
simply use the SHOW/DX, DIR,  
SHOW/WWV or SHOW/USERS to see  
who or what is cooking. Now OKC  
has an up-to-the minute DX mag-  
azine and you can be part of  
the team.

Won't you tune in today? For  
information about the DX  
PacketCluster network, read the  
"Packet" article in May 1990  
QST Magazine. For information  
about the local and Oklahoma  
Cluster, check into AD1S on  
144.97 Mhz. No special  
equipment or software is  
needed. If you expect to become  
a regular user of the Cluster,  
I recommend that you pick up a  
copy of the DX PacketCluster  
Users Manual at the Oklahoma  
Comm Center. (\$4)

### DX LUNCHEON at HAM HOLIDAY

Amateur radio operators who are  
interested in DX and DX Packet  
Cluster operation are invited  
to attend an informal lunch on  
Saturday, August 4, 1990 at  
11:30 A.M. The location of the  
DX Luncheon will be announced  
at the Oklahoma Comm Center  
booth at Ham Holiday. In  
addition, the location will be  
announced on 146.22-.82 Mhz  
repeater no later than 11:00 on  
Saturday. The luncheon will be  
held at a restaurant near to  
the convention center, so you  
won't miss any of the exciting  
forums planned at HH90. The  
only cost will be the price of  
your meal. The meeting will be  
used to introduce Oklahoma  
DXers to each other, and to  
learn more about DX and the new  
DX PacketCluster network in our  
state. If you have any  
questions about the luncheon,  
please call (405) 722-0074.  
Leave a message and I will try  
to get back to you. Good DX, de  
AD1S.

### WATERMELON FEAST CHANGE

Every one is invited out to RIPPER PARK  
in Bethany for a taste of watermelon at the  
courtesy of the Aeronautical Center ARC and  
the Oklahoma Central VHF Club so come on  
out - Saturday the 18th of August to Ripper  
Park on 30th between Rockwell and Council  
Road at about 6:30 pm.

### THE COLLECTOR AND EMITTER HAS MOVED TO:

CORA Collector and Emitter  
9211 N. Council Road  
Apartment # 216  
OKLAHOMA CITY OK 73132

Address ALL mail to the new address:  
Effective August 6 1990

# HAM HOLIDAY-STATE ARRL CONVENTION

## AUGUST 3 - 4 - 5

## The South Canadian Amateur Radio Society

The July meeting of SCARS was held on the 14th at the Norman Red Cross. KA5EPJ was away on vacation so the meeting was called to order at about 9:45 by N5IUA. There was no treasurers report. The previous meeting minutes were not published in the C&E but were available at the meeting.

N18W announced that he was attending a meeting this time without asking for any volunteers for a bicycle race event.

Our CORA representative announced that everything was on track for Ham Holiday. Some pre registration tickets have been mailed out already. N5IUA will be needing help with non technical programs and KB5ABS will be needing help with setup for the flea market.

N5MAF discussed the field day totals and announced a departure from previous practice by mailing the completed material to ARRL this year. Earl also discussed several of the problems encountered with the effort this year. The club decided to establish a committee to work on materials needed for field day operation so that a "kit" of necessary items could be easily deployed.

A question was raised about the status of the repeater. The main receiver burned up (as in smoke coming out of the box). It has been replaced with a backup receiver that was designed for base station operation, not repeater use. So far the repeater improvement fund has somewhat more than \$300. The people looking into the possibility of getting a large donation to help with the upgrade have not been successful. We are still looking for ways to make the machine more dependable. We may have some more ideas at the next meeting.

See you at Ham Holiday on the 3rd, 4th, and 5th of August.

The meeting adjourned at 10:23. Ken, N5KUK

**SIREN TEST SATURDAYS**  
**OKC Civil Defense 12:00 Noon**

**NET at 1130**  
**145.41, -600 KHz**

**1ST & 3RD SATURDAYS**  
**Weather Permitting**

**PUBLIC INFORMATION STATEMENT**  
**NATIONAL WEATHER SERVICE OKLAHOMA**  
**CITY OK**  
**1210 PM CDT TUE JUL 24 1990**

**...A LOOK BACK AT THE SPRING TORNADO SEASON OF 1990...**

The relatively few tornadoes in the late 1980s had many Oklahomans wondering if tornado alley had shifted away from the Sooner state. The tornado season of 1990 ended the recent trend of few tornadoes and served as a reminder that Oklahoma is still in tornado alley. Meteorologists at the National Weather Service in Norman have compiled information on all Oklahoma tornadoes through June 30th, and the information suggests the spring tornado season was unusual.

So far this year there have been 29 tornadoes in Oklahoma. Normally there are 41 tornadoes during the same period. However, the 29 tornadoes recorded this year is the most since 1986, when 31 tornadoes were observed in the first half of the year and 47 were counted for the entire year. In an average year there will be 50 tornadoes in Oklahoma. The unusual aspect to the spring tornado season has been the intensity of the tornadoes. Typically, about 62 percent of all tornadoes are classified as weak, with winds speeds under 113 mph. Thirty-seven percent are classified as strong, with winds between 113 mph and 205 mph. The remaining two percent are classified as violent, with winds in excess of 205 mph. The spring 1990 tornado season produced 15 strong tornadoes, or 52 percent of the total. The remaining 14 tornadoes were classified as weak. There have been no violent tornadoes so far this year.

Three severe weather days have accounted for 23 of the 29 observed tornadoes. On March 13th 10 tornadoes struck south-central, central and north-central Oklahoma producing several mostly minor injuries. On May 15th 7 tornadoes were recorded in central and northeast Oklahoma. By far the most significant tornado that day struck Stillwater around 7:45 pm. There was one fatality and 12 injuries. On June 21st, six weak tornadoes were reported in northeast Oklahoma with damage mostly confined to uprooted trees and damaged out-buildings.

Other significant tornadoes include one that struck Ardmore during the early morning hours of April 10th, an evening tornado that caused significant damage in Shattuck on April 24th, a tornado that caused considerable damage in Adair on May 15th, and a strong tornado that struck Hinton on May 26th.

Cleveland county leads the list of counties with the most tornadoes with four, all on March 13th. Pawnee county is second with three tornadoes. Eight counties are tied for third with two occurrences.

It is logical to ask what has changed in the weather pattern to result in more tornadoes in Oklahoma. The answer is complex, but it is worth noting that there have been several consecutive years with below normal tornado occurrence. These below normal seasons are usually followed by a more "typical" tornado season. One reason for the variability in tornado occurrence in Oklahoma lies in the yearly fluctuation in weather systems that affect the state. Several conditions must come together at the right place and at the right time for tornadoes to develop, and there are some years when these conditions are present more frequently than others.

Other evidence points towards a 45-year cycle of tornado occurrence. The theory suggests that the region of the country that experiences the most significant tornadoes shifts clockwise and makes one revolution every 45 years. This theory suggests that the next few years will be active across Oklahoma and adjacent areas of the plains.

Although there are many theories about tornado occurrence past experience suggests there is no sure way to predict how many tornadoes Oklahoma will see in the future. The only sure thing is that there will be more tornadoes in the future, and the same warning system that resulted in a very low casualty toll will be needed in the future.

### **WELCOME TO HAM HOLIDAY & OKLAHOMA STATE ARRL CONVENTION**

This year we have more dealers, both new and used. We have more awards and more activities than ever. While you are here check out the "goodies" in the flea market. That bargain is just waiting for you to buy it. When not rubbing elbows with your fellow hams take in some of the activities around Oklahoma City. The Zoo and Lyric Theatre are two of the many places to go. So kick back and enjoy the fellowship and fun. Thank you for coming. 73 de Joe Lynch, N6CL, Oklahoma Section Manager.

WB5BTT: I just bought a new fire and theft insurance policy.

K5JB: Well, it's good to be covered by insurance like that.

WB5BTT: I'm not so shure. I don't think its very likely that my house will burn down while someone is robing it.

**1 AERONAUTICAL CENTER ARC**  
 Meets: First Thursday, Flight Standards Building, FAA, South MacArthur 7:30 pm  
 PR Ted Anderson, NY5W 685-4016  
 SE Doug Teachman, W0DXA 392-5458  
 AsPR Harold Todd, WA5VAO 685-3685  
 AsVP Charlie Greene, WA5JGU 943-5631  
 Editor Bill Oliver & Luke Ellis 329-6333

**2 CENTRAL OKLAHOMA VHF**  
 Meets: 1100am 3rd Sat, Favorite's Cafe, 3701 S. Western, OKC  
 PR Jack Muse, WB5ZKZ 691-1152  
 VP Fred Boardman, W5NL 427-2505  
 SE Joe Buswell, K5JB 732-0676  
 TR Ellard Foster, W5KE 789-6702  
 Editor Joe Buswell, K5JB 732-0676

**3 MID-OKLAHOMA REPEATER, INC.**  
 Meets: First Tues, 8 pm, listen to KA5TDA for location.  
 PR Steve Cornman, KB5CDF  
 VP Jim Buswell, N5BEQ  
 S/T Linda Moore, KA5NAV 799-1765  
 Editor

**4 OK CITY AUTOPATCH**  
 Meets: 7:30 pm, Third Tuesday, Salvation Army, NW 50 & Penn  
 PR Robert Shaw, WA5BOX 341-4763  
 VP Jim Bartlett, KA5PSF 359-1299  
 SE Leonard Hanstein, W5MEL 789-7201  
 TR Larry Davis, KF5JN 722-4564  
 Editor Chuck Wilhite, K5NK 721-4926

**5 OKLA UNIVERSITY ARC**  
 Meets: 7:30 pm, Second Tuesday (Sep-May)  
 119 Wilson Center, 1334 S. Jenkins  
 PR Frank Donaldson, N5IQJ 329-4172  
 VP John Wustenberg, KE5N 325-2382  
 S/T Jim Greenshields, WD5HPU 321-9981  
 Editor

**6 ALTUS ASSOCIATION**  
 Meets: 7:30 pm, Second Thursday, North Main Fire Station, (CD) Altus  
 PR James Molledahl, KB5LS  
 VP None  
 S/T Mike Schenkel, W5VXU 482-1797  
 Editor Mike Schenkel, W5VXU 482-1797

**7 BICENTENNIAL (76er) ARC**  
 Meets: 7:30 pm Second Tuesday, 1801 N. Lincoln Blvd, Parking in rear.  
 PR Bill Skipper, KB5BS 392-4612  
 VP  
 S/T Jerry Sproul, N5AUH 354-2061  
 Editor Chris Everett, KB5GGY 364-6794

**9 WHEATSTRAW ARC**  
 Meets: 2:30 pm Second Sunday, Location varies, see Club Section for details  
 PR George Maschino, K5GGL (Okarche) 263-7614  
 VP N5JWK (Leroy)  
 S/T Joe Garland, WA5FLT (Calumet) 893-2660  
 Editor Ralph Wilder, WA5PFK (Watonga) 623-5421

**11 EDMOND AR SOCIETY**  
 Meets: Odd Months, 3rd Sunday, 2:00 pm, Edmond EOC; Dinner, even months, 3rd Fri.  
 PR Tommie Guinn, KA5WAL 341-3886  
 VP Joel Beasley, KB5FCF 348-1614  
 SE Don Seible, N5LZE 340-4339  
 TR Clara Granger, KG5UG 341-2968  
 Editor

**13 KAY COUNTY ARC**  
 Meets: 7:00 pm, Third Thursday, Sep-May, Pioneer Vo-Tech, Ponca City, OK  
 PR John Spoon, WB5YSX  
 VP Marsh Pronneke, WA5UBO  
 S/T Gary Robison, WB5WMD  
 Editor Dave Land, KD5FX 762-8516

**14 CIMMARON ARS**  
 Meets: 7:30 pm, Second Tuesday, WXSJ Playhouse, 827 S. 13, Fairview  
 PR Leo Peil, WZ5H (405) 886-2998  
 VP Vern Brewer, KA5SZI (405) 227-3017  
 SE Dennis Painton, WK5V (405) 764-3599  
 TR Nadine Painton, N5FMH (405) 764-3599  
 Editor Jack Day, NN5Z (405) 227-3462

**15 SOUTH CANADIAN ARS**  
 Meets: 9:30 am, Second Saturday, Red Cross Bldg, North OU Campus, Norman  
 PR Ken Neptune, KA5EFJ 321-7789  
 VP Dorinda Skaggs, N5IUA 799-5363  
 SE Ken Brown, N5KUK  
 TR Ken Esadooah, N5BEW 329-4667  
 Editor Ken Brown, N5KUK

**16 EDMOND AR CLUB**  
 Meets: 7:00 pm, Second Monday, See Club Section For Location & Type  
 PR Mark Northcutt, WD5DYI 755-4672  
 VP Wendell Cochran, WB5ISO 943-4308  
 S/T Kay Northcutt, WD5DYJ 755-4672  
 Trustee Dennis Orcut, WB5ISN 340-0034

**18 GREAT PLAINS ARC**  
 Meets: 2:15 pm, First Sunday, Woodward Public Works Bldg.  
 PR Bob Bayless, WB0GAX (Ft. Supply) 254-3561  
 VP Windle Hatchett, WA5PLW 766-3561  
 SE Rod Ford, WB5OVT (Gage) 923-7683  
 TR Freida Patterson, N5EOX (WDWD) 256-2111  
 Editor Willis Ridings, N5OO 689-2291

**19 OKLA INDEPENDENT ARC**  
 Meets: 7:00 pm, Second Tuesday  
 Southwestern Bell Offices, Ponca City  
 PR Vernon Treiber, Jr, N5ANV 767-6260  
 VP Truman Stiner, WB5MRE  
 SE Glenn Coker, N5NFC 762-1221  
 TR Jim Del Torto, K5FLL 765-6260  
 Editor Mike Morriss, N5JJR

**20 CENTRAL OK COMPUTER ORG.**  
 Meets: 9 am, Second Sat, Midwest City Community Center, Reno & Midwest Blvd.  
 PR Dorothy Roberts, KB5FDS 681-5220  
 VP Patrick Roberts, KA5ZYM 681-5220  
 S Donald Fox 733-8480  
 T Dale Goad 341-8525  
 Editor

**CENTRAL OKLA RADIO AMATEURS**  
 Meets: 7:00 pm, Fourth Tuesday, Red Cross Bldg, 10 & Hudson, OKC, (Back Door)  
 PR Frank Tassone, AA5GI 341-4945  
 VP Dorinda Skaggs, N5IUA 799-5363  
 SE Jim Buswell, N5BEQ  
 TR Tom Mangham, K5LDI 677-5291

PLEASE help us keep your information up to date. What time, where, when, who are your officers, editors, and their phone #. Check YOUR entry, it can be changed.

If there appears to be a mistake - check with your club official. We can't do anything about it. Below is a sample table.

4	90/01	2
WILSON, MIKE WA5RTY		
1234 W 49		
MCCLOUD OK 74851		

The "4" means Autopatch Club, 90/01 means he is overdue. The "2" is for postal rates.

Copy should be 3 inches wide. If you can not meet that dimension, send it anyway, I will reset it.

# H A M H O L I D A Y AND

## OKLAHOMA ARRL CONVENTION

### AUGUST 3, 4, 5

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Editor: Joe Harding WA5ZNF 737-1044  
 Circulation: Bob Graham WB5NSV 677-8685

GRAND AWARD: ICOM 735  
PRE-REGISTRATION AWARD: ICOM 2400  
SCHOLARSHIP AWARD: ICOM 2SAT

MANY OTHER HOURLY PRIZES

--> --> *FRIDAY THROUGH SUNDAY* <-- <--

Improved Flea Market Area  
Technical Programs Featuring Ham-Scientists  
ARRL Forum  
Banquet on Saturday Evening  
VE Testing Saturday and Sunday  
Fabulous Programs For Ladies  
Packet, MARS, Okla. Repeater Society, etc.  
Sunday Morning Worship Services  
The Regular and many New Dealers  
Huge Flea Market  
Informal Breakfast Saturday and Sunday  
Lunch/Sandwich Bar Saturday  
Talk-In-147.03 ↑ and 444.20 ↑ (PL 141.3)

**IT'S TOO LATE TO PRE-REGISTER BUT YOU CAN STILL ENJOY ALL THE FUN AND EXCITEMENT OF HAM HOLIDAY AND STATE ARRL CONVENTION BY SHOWING UP FRIDAY AND REGISTER, SEE THE WEATHER SHOW AND THEN COME BACK SATURDAY FOR ALL THE PROGRAMS, THE FLEA MARKET, ALL OF THE COMMERCIAL EXHIBITS AND A WHOLE LOT MORE.**

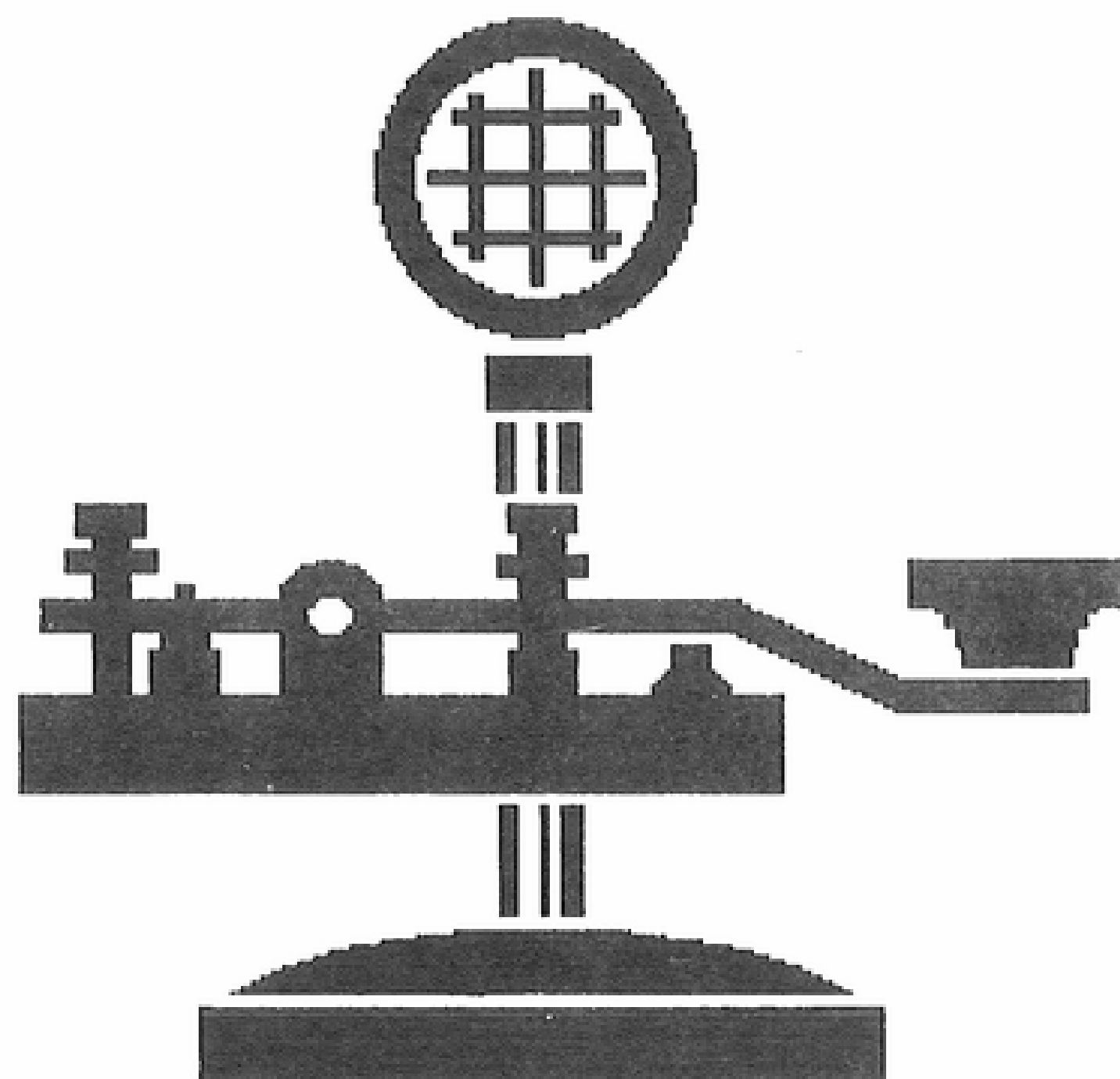
**THEN SUNDAY MORNING ATTEND THE RELIGIOUS SERVICES, THE ARRL FORUM AND THE AWARDS.**

CENTRAL OKLAHOMA RADIO AMATEURS PRESENTS

# HAM HOLIDAY

STATE ARRL CONVENTION

OKLAHOMA  
CITY



1969

AUGUST 3rd, 4th & 5th

LINCOLN PLAZA CONVENTION CENTER



## Club NEWS

WSLOW  
The Elmer Goodier Memorial  
Station

### Minutes of July Meeting

Will be posted next month. My travel schedule will not permit me to work on the C&E between club meeting time and paste-up. Joe, K5JB, Sec'y

### Forty Meter Proposal

Here is a little tidbit that Mac, K2GKK, thought you might be interested in. I don't know who the "Industry Advisory Committee" is but if you have any comments, you could get to the author, whose name and address are tacked on the end. It came via the USENET and packet BBS circuit:

A tentative agreement was reached on June 29th at a meeting of the informal working group concerned with shortwave reallocations at WARC- 92. If it sticks, it could resolve the current (suboptimal) situation in which hams in North and South America share part of the 7 MHz band with international broadcasters.

The Industry Advisory Committee working group tentatively agreed to propose to the FCC that hams be allocated 6950-7250 kHz on an exclusive basis worldwide, while broadcasters get 7250-7750 KHz on an exclusive worldwide basis.

There will be a follow-up meeting early in July, and in a few months, the FCC will get together with US Government spectrum users and put together the US positions to take to WARC. So the above proposal is quite preliminary. But it was agreed to rather quickly, and no opposition was voiced within the group (pending successful reaccommodation of certain fixed services).

Robert Horvitz, 1122-1/2 E St SE,  
Washington DC 20003-2232

### ROSE Switch - Finally!

It has been two years since the Radio Amateur Telecommunications Society (RATS) of New Jersey hyped that they had the do all and end all of packet radio switch control programs. It was called COSI Switch at that time, it ran on the TNC-2, and was supposed to run on the PacCom DR-200 dual port switch.

Before we go further, let me explain that a packet switch is simply a device that routes packets according to some kind of a plan. Net/ROMs and Kanodes are examples of switches. Switches that only operate on a single frequency are kind of crippled (I refer to them as eunuchoid nodes), but they are still switches. A switch that has two or more ports is necessary to make any significant network throughput improvement because without frequency separation between traffic going in different directions the switch competes with itself for air time.

Now, back to ROSE. I picked up the code at the 1988 Dayton Hamvention and when I got home I found a note that there was a bug that caused a problem in the DR-200. Sure enough - I couldn't get it to work except in fits and starts. In October 1988, RATS sent out disks to those who asked for them and the code in this version was supposed to work in the DR-200. I couldn't get it to work. The switch would queue up a bunch of packets and go catatonic. Several minutes later it would release all the stuff it had stored up. Totally unusable on the DR-200, and I couldn't find anyone who had actually run it on the DR, so I gave up.

Then, the weekend before July 4th, J, KB0QJ, brought the latest version of the code and documentation over to try again on a DR-200. He wanted to try it for an Arbuckle project. (J had EPROMS programmed with code to put ROSE in a couple of TNCs. He remembered that there were some unused DR-200s around that, if they work, would free the TNCs for use elsewhere. The switch may not go to the Arbuckle site, but that site is used in the examples which follow.)

I burned an EPROM, put it in a DR-200 and it still didn't work - in fact, it seemed worse than it ever had been before. The switch didn't even act like it would do anything. J left discouraged.

After he left, I browsed the documentation. Aha! There was a section on modifying the DR-200. It had to do with making clock pulses available to the serial controller, among other things. I had done a similar modification earlier at RATS' suggestion so I compared earlier mods to the ones currently recommended. They were different. Guess what; after the modification, the darned switch started halfway working. I say halfway, because the second port still seemed to be dead.

After a couple of days, I discovered why. I had a ground loop that was putting some AC ripple on the receive audio line on that second port. An OP amp in the receive filter circuit was amplifying the hum enough to cause a phantom carrier on the 7910 world modem chip. When I disconnected the RX line, the DR-200 spewed all the things it was trying to say, but couldn't because of the phantom. To shorten the story a bit, I'll just say that the OP amps have been replaced by simple passive filters and all is working fine.

Jay contacted Joe, WA5FLT, who donated a partially assembled DR-200 to the project. I finished the construction but omitted all the RX filter associated components and it took off like a champ with the ROSE EPROM. Jay put the switch on the air at his house and I modified a second switch and put it on at my house so he would have something to test against. His switch is a eunuchoid node and mine has the second port connected to a UHF radio on the local backbone.

The ROSE switch is kind of quirky and I have not yet decided whether it is better or worse than Net/ROM (they are both quirky but I am talking about effectiveness for passing traffic). At least there is only a nominal cost involved in ROSE (it is shareware, which most people don't pay for anyway) and it is not an out-and-out theft, as is RIP/ROM. As time permits, I am watching its operation and trying to form an opinion.

It doesn't broadcast node tables like Net/ROM and is not as senile about dealing with bad RF paths. It does seem to keep a virtual connection to its neighbors open by sending polling frames every 10 minutes and expecting responses. Routes are explicitly loaded into ROSE over the air by a control operator. In fact, all the configurable code is loaded to the ROSE over the air. After a reset, the DR-200 (or TNC-2) with a ROSE EPROM only knows the call and address that was burned in and has an application called LOADER. The control operator has to connect to LOADER and add the rest of the intelligence to the switch.

It doesn't adopt your call or alter the SSID as does Net/ROM. It does do some other hinky things when you connect to it but I patched a work-around which I show in examples to follow.

I don't know if the ROSE switches will ever be incorporated into our inter

city-network (or whether we will ever have an inter-city network) but for the next few weeks I plan on leaving one on the air so you can play with it. It has drawn very little attention in the first two weeks it has been on the air.

In a nutshell, here is how to use ROSE switches. In these examples I used vias and commas though they may not be necessary for your TNC and wouldn't be necessary for Net/ROM. If your TNC won't accept all numeric callsign like 405732, use a "o" instead of zero or "i" instead of one in that area code.

A connect request using ROSE consists of three parts, the desired destination station call, your local ROSE switch \_CALLSIGN\_ (one you can connect to), and an \_ADDRESS\_ of the ROSE switch near the destination. The examples here are for two situations - one where you and the destination station are connected to the same ROSE switch, and one where two separated switches are involved. First the "local" example:

To use a ROSE switch to make a connection to another station that is also local to that switch, use the call sign of the switch and address of that same switch. Also use this method if you want to connect to a defined user on the alternate port. In my case, if you could hit K5JB-5 but not OKC (unlikely) you would issue a command like:

C OKC v K5JB-5, 405732

If you wanted to connect to my IP station's mailbox (K5JB-10), using the K5JB-5 switch, you would use the command:

C K5JB-10 v K5JB-5, 405732

(and send a carriage return after you are told the connection is established so the IP mailbox will know what kind of protocol you are using.)

K5JB-10 is defined in the K5JB-5 switch as a user on the UHF port, with the connect path of K5JB-10 Via WD5HJL-2. I have to use WD5HJL-2 as a digi because the ROSE switch and the IP rig use the same transmitter.

Now for some non-local examples.

For a contrived example of a non-local circuit connection, using K5JB-5 and KB0QJ-7, which are both set up in Okla City for test, you can connect to the OKC Net/ROM with the following connect string:

C OKC v KB0QJ-7, 405732

In this case, OKC is the destination station, KB0QJ-7, in Bethany is the switch you are connecting to, and 405732 is the address of the destination switch; my switch in Midwest City. (732 is my telephone prefix.)

Remember that this is an example of a circuit using two switches that are in two different areas. In real life, switches would be further apart and you could do something useful like this:

C OKC  
C PUR  
C AXS v KB0QJ-7, 405875

The first command is a connection to a local Net/ROM. The second command is to get closer to Ardmore using Net/ROM circuit. The third command is to connect to Altus Net/ROM via ROSE switch in Ardmore and ROSE switch in Lawton.

In this example, PUR will issue a connect request to AXS but the Ardmore switch, KB0QJ-7 will intercept it and act as an alias for AXS as far as PUR is concerned. KB0QJ-7 will look in its tables and see that 405875 is the address of the WJ5Y-1 ROSE switch in Lawton. It will tell the Lawton switch about you and the Lawton switch will connect to AXS. The result is that you will have a circuit to the AXS Net/ROM. Instead of AXS you could have used the call of someone the Lawton ROSE switch can reach and it would have attempted a connect to that station.

To get information on what ROSE switch addresses are available you have to depend on the ROSE switch control operators posting the information. I will soon explain how you get the information.

You can connect to "applications" on the ROSE switches. Depending on what has been loaded by the control operator, you may be able to connect to "HEARD", "USERS" or "INFO". To find addresses of network switches that are available you would use the INFO application which is configurable by the control operator. To get INFO on the K5JB-5 test switch, do:

C INFO v K5JB-5, 405732

This is the INFO application, followed by your local switch, followed by the address of the switch you want to get INFO from. Substitute 405369 in this example to use K5JB-5 to make con-

nection to INFO on the KB0QJ-7 switch. If you simply connect to K5JB-5, and send a carriage return, you will get the same information as INFO, followed by disconnect. INFO sends information as soon as you connect to it. HEARD and USERS wait for a carriage return, or for 60 seconds before sending information to you.

I see a common error of sending: C K5JB-5 v 405732. This simply doesn't do anything except send a connect request to K5JB-5 through a non-existent digipeater.

The ROSE switch can't handle any connect string with more than one digipeater in it so you have to get within one digi of one to use it. It won't work, for example if you try:

C K5JB-5 v PUR, OKC  
or  
C INFO v K5JB-5, 405732, PUR, OKC

These commands will cause the switch to return a DM packet. Just remember the three required elements in the connect string: destination, your local switch's call, the remote switch's address.

Since there has been some criticism of the bogus connect message that results from the hinky way ROSE twiddles with call signs, I made some patches to code in my EPROM to give the following responses. Here is the result (modified for this dinky 32 column screen):

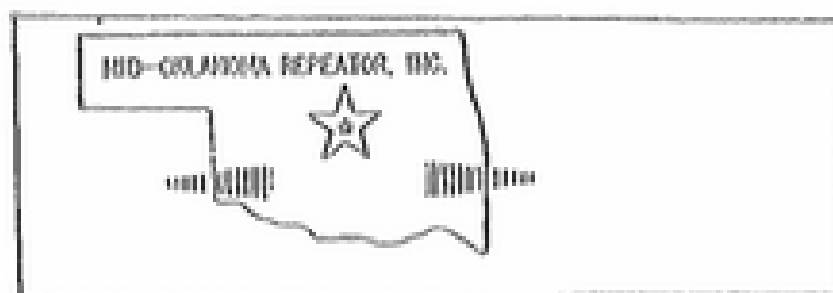
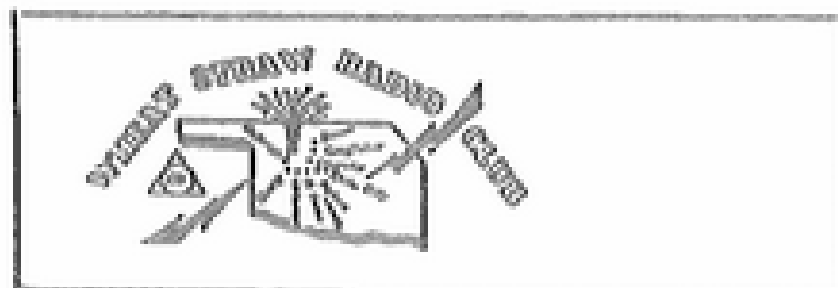
```
c users k5jb-5 405732
*** CONNECTED to USERS
Not really connected - Wait...
NOW yer connected to USERS-0 @
3100405732
ROSE Switch 900203 - W2VY. Maybe
hit RTN if nothing's happening.
```

The three responses I modified occur right after getting the bogus \*\*\* CONNECTED to message. The original responses are:

```
Call being Setup
Call Complete to USERS-0 @
3100405732
ROSE X.25 Packet Switch Version
900203 by Thomas A. Moulton, W2VY
```

I changed the first two responses to reflect the real connection status. Then, I added the "Hit RTN..." advice because the switch acts like it is hung at that point; it is waiting for 60 seconds before continuing. I'll have more on ROSE later, if it lasts. Joe, K5JB





The weather was hot and the wind blowing strong, but twenty seven attended the Wheatstraw ARC meet-ing. There were five visitors W5ZKW Carol, her husband Frank, son Jeff the twins Kevin and Wendi. They enjoyed seeing old friends and meeting some new ones. The Sissons now live at Duncan Ok.

NSJUT Jan & NSJWK Leroy Kuehn hosted the meeting in the patio of their home. Everyone in the shade with the high wood fence breaking the wind, it was nice. K5GGL George, our president, called the meeting to order at two thirty. Ham Holiday, Field Day and our repeater operation was about all the discussions. After the meeting everyone went into the house for refreshments, returning to the patio for eating, visiting and fellowship. We missed those that did not make it. We also miss Father Joe W5JEB, he was transferred to Hennessey. When he gets an antenna up we can still talk to him. Besides his church work he was active with the literacy program here, and he was Chaplain of the American Legion Post 125. He is always there to lend a helping hand, speaks ill of no one.

We all want to thank the Kuehn family for having the club at their home. They have a lovely home and the refreshments were great. Thanks to those who helped with the refreshments.

#### HOT CHILI DIP

By Margaret Fish, W5RLP

Saute 1 pound of ground beef until done, stirring, then crumble and drain off grease. Add 2 cans of chili (with out beans) when heated well, add 2 (8 oz.) packages of cream cheese (cubed). Heat until all is well blended. Serve hot in chafing dish with large size corn chips.

#### LEMON COOKIES (By W5RLP)

1 box of Lemon Cake mix, 1 box Yellow Cake mix, 4 large eggs, 2 tea spoons water, 1 cup of oil. Divide dough into three parts, wrap in wax paper and refrigerate for two or three hours. Take out one package at a time, roll 1-t- dough in a ball, roll in sugar and bake. Makes 80 cookies.

The next meeting will be August 12 at Canton Lake, hosted by the Canton Amateurs. It will be a covered dish dinner served at 1:30 pm. Visitors are invited. With your own covered dish bring your own setups for eating. If you want to lean back while you are there, bring a lawn chair. Meeting starts at 2:30. It will be at the Canadian Shelter, located left of the west end of the dam, past the camping area among the trees, then turn right, north to the shelter in the turn.

We hope to se you there.

W5PFFK Ralph

What happens when the repeater goes down?

Usually what happens is that a lot of users get on the twisted pair to call the club president, or trustee, or one of the control operators. Usually to complain about being members in good standing and expecting the repeater to be there whenever they want to use it.

What really happens when a repeater goes off the air is 1) it is broke, 2) the control operator shut it down for some reason, or 3) something else drastic happened.

MORI was without several of it's repeaters a few months ago, and in both cases it was because of reason 1, a broken antenna mount in one case, and an intermod problem in the other. Our trustee, KA5TDA, explained it all at the club's July meeting.

What really happens when a repeater goes down is that the control operators know about it immediately and they notify the technical comittee.

The technical guys start the next step, which is to find out what the problem is and fix it. Sometimes the problem is easy to fix, but the parts are on the other side of the country. More often than not, though, it takes several trips to the repeater to trace the problem, get it fixed, and then put the repeater back on the air.

What happens when the repeater is several hundred feet up on a TV tower? Usually that means that the technicians can only get to it during normal working hours on weekdays, and that also means that they have to take time off from their regular jobs and donate the lost time (and pay) to the club.

Then there's the problem with Oklahoma's weather. The TV station won't let anyone on the tower if the winds are out of limits, or if it's icy up, or if it's stormy out. It's frustrating to take a few days off from a paying job and not get the opportunity to even get near the repeater.

And there's always the question of help. Sometimes the tower climbers need someone on the ground crew, for safety reasons, or for some other less-than-technical job.

The moral here is about club support--if you feel you have to call your club, or any club, about repeater problems, call to offer your assistance.

On the subject of club support--do you regularly attend club meetings? Or are you one of those members who figure your membership dues are support enough?

Actually, you are probably cheating only yourself by not attending club functions. Quite often "...a good time was had by all!" is published in C&E's club news section, so if you weren't at the meeting you missed sharing in the fun.

What if the club has Top Secret information about the new computer-controlled DF equipment connected to the repeater. Just like the 911 system, it'll provide the club the capability to locate any kerchunker and bootlegger within 85-miles of town.

You miss the meeting, so you don't know about the DF doodad. You kerchunk once and you don't know why everyone in town gives you dirty looks.

Or you missed the meeting when whozit mentioned a quick and simple fix to a problem common to a radio you own, and now your rig is enroute to the factory for a two-month stint on the wait-a-while shelf just so you'll think they did something to deserve the humongous bill they'll be sending.

It's true that club meetings aren't always educational or fun, but you won't know if you don't go. No matter what club you belong to, make it a point to attend the next meeting.

de kd5dl

W5NRG: Do you have any invisible ink?  
N5ID: Certainly, sir. What Color?

#### SECRETARIES\TREASURERS TO MEET AT HAM HOLIDAY

All club Secretaries and Treasurers are reminded of the special meeting to be held at Ham Holiday on Saturday at 4:00 pm. Both Tom Mangham (CORA Treasurer) and Joe Harding (C&E Managing Editor) will be present along with a new printout of the status of every member of your club.

It will be a short meeting, but necessary.



Central Oklahoma Radio Amateurs, inc.

MINUTES

26 JUN 90

The Meeting was called to Order at 7:30 pm at the Village Inn Restaurant, 2601 N. Classen Blvd. (for its Air Conditioning) with President Frank AA5GI in the Chair and the following Directors in attendance (No Visitors nor Guests):

ACARC - Tom Mangham K5LDI

EARS - Steve Hamlin KG5IP

OCAPA - Jim Bartlett KA5PSF  
Baron Bieber N5PQK

76ERS - Jerry Sproul N5AUH  
Jim Buswell N5BEQ

C&E MNG ED - Joe Harding WA5ZNF

EARC - Phil Wolfenbarger N5HIP

SCARS - Joe Green KA5AXQ and Don Schader KB5ABS.

The Minutes of the 22 May 90 Meeting were accepted as distributed.

The Report of the Treasury was accepted as distributed.

The Editor reported again explaining C&E billing to CARA (Cimarron Amateur Radio Association).

The VEC announced next and future tests will be administered at Salvation Army headquarters building, NW. 50th @ Pennsylvania, 6 pm local time on third Mondays each month beginning 16 July 90 and lasting till notice otherwise. Phil N5HIP also stated that he would like to be replaced as Chairman of CORA's VEC.

HAM HOLIDAY #17 (1990)

PUBLICITY - announcements were in CQ, QST, WorldRadio, Radio Scan and at HamCom in Dallas;

FACILITIES - we are OK! this year and are "pencilled in" for 26-28 Jul 91 (HH #18);

DEALERS/AWARDS - confirm BCD, Rocky Mountain Antennas, Missouri Radio, Arnold, Madison Electronics, Engelman, GLA Systems, Jay's Engraving, M&R Data, Trionyx, Ron Fullmar, Ellard's ExEl and Oklahoma Communications Center;

PRE-REGISTRATION - 147 so far include a few Banquet seats and Flea Market tables;

REGISTRATION - waiting, will be tasked to sell the Scholarship-fund-raising Tee-shirts as well as Banquet tickets and released Flea Market tables, each as available;

TALK-IN - no report/er(s);

PROGRAMS - only the Sunday Worship Service remains to be placed in the schedule and on the floor plan;

NON-TECHNICAL PROGRAMS - no report/er(s);

BINGO - still seeking a blower-type ball selector, prizes are in hand;

DINNER - reserved for 7 pm Saturday at The Pepper Steak, 3845 N. Lincoln Blvd. to include both American and Oriental cuisines;

FLEA MARKET - will have all of Lincoln Plaza's tables because of no competition, still need to know how many have been sold in advance;

SECURITY - still looking for daytime volunteer coverage, preferably uniformed;

SCHOLARSHIP - need an ongoing chairperson;

BREAKFASTS - Governors' Club, 7 am, Sat.; QCWA's @ Sprig's, 8 am, Sun.;

The insurance policy with liability coverage to \$1 Million is in hand.

Next Board Meeting is 24 Jul 90 at Lincoln Plaza unless notified otherwise.

Planning for Ham Holiday #18, 26-28 Jul 91, will begin at the 28 Aug 90 Meeting.

This Meeting was adjourned at 9:02 pm.

Secretary,  
N5BEQ, Jim.



NEWS OF PAST MEETINGS OF CENTRAL OK COMPUTER ORGANIZATION: About 30 people attended the picnic in May at the Kiwanis park. Synthetically generated music of all types and Dorset's electronics program was the entertainment. Several people donated equipment and software-- Mr. Pace and Mr. Fox. Thank you!! Very few people brought food, but Don brought some chili, chesse, and chips; and Prez. brought buns, potato chips, and drinks, so no one went away hungry. It was lots of fun. Hope you got to come.

Only about 12 people, including, the officers attended the June regular meeting back at the Midwest City Community Center. Our condolences were sent to the C&E editor, Joe Harding, on the loss of his wife. Everyone-- and I mean everyone-- won a door prize, and there was enough doughnuts for a calorie binge. Since the turn-out was so underwelming and we didn't have any demo, the meeting faded quickly into the East (parking lot).

THE SATURDAY, JULY 7, 1990. REGULAR MEETING OF THE COCO CLUB: came to order at 9:13 with 23 and all officers attending. The used disks were on sale for June, July, and August. The PUBLIC DOMAIN DISKS were also on sale, and THEY WILL BE AVAILABLE AT FUTURE MEETINGS.

The people attending introduced themselves by name and resident city. It was discussed and approved to reserve a sale table at Ham Holiday (Saturday until 1) to sell some of the software/hardware accumulated by the club; the public domain disks will also be on sale. Any members who want to sell

merchandise at the booth will be asked to give a commission to the COCO club. The club also needs volunteers to man the booth for part of Saturday morning, because the Prez. wants to go bargain hunting. Members will have a chance to bid for the available software/hardware before Ham Holiday via COCO Net. All items will be listed for bids; bids will close at noon on Thursday, July 26. The highest, reasonable bid will be accepted; however, the Prez. has the right to remove items for lack of interest or low bids.

SOFTWARE PROBLEMS: The COCO Max distribution disks received by several members of the club were without a boot program. There is a "fixed" COCO Max available. There is a commercial program available to make an IBM think that the second drive is a COCO; however, there is a public domain program "COCOUTIL2" that will transfer COCO files to an IBM.

HARDWARE PROBLEMS: The members were without hardware problems except the fact that the "Numberjack" numeric keypad is not in production and a substitute is needed -- with the extra shifted keys and <Enter>.

Ron Folk did give and interesting disucssion on his visit to the Chicago COCO club. The Chicago area had about five clubs devoted to the COCO, and they all meet on the same night at the same place. The club he visited was interested in commercial software production and hardware demonstrations. Ron suggested a similar demo at our COCO. He then went on to give some statistics on the new OS-9 machines and comparing the Tomcat and MM1. A summary of the info will be given in future articles.

DEMO: Bill Demand presented more information on the university's television satellite and video system

which he helped develop. The system is controlled by a COCO. More details of the demo will follow in next month's article.

The June C&E contained a list of COCO members receiving the publication. If you are having trouble revceiving your copy, please do not call the C&E -- please contact our treasurer, Dale Goad at 418 Gaycliff Terr., Edmond, OK 73034 or 341-8525. Cecil Borin, Theodore Anderson, and Fred Cundiff would you please give Dale a call or the Prez. at 681-5220 with an address correction. Thanks!

THE "MAKE-MY-DAY" LIST: Would the following members PLEASE BRING BACK the materials checked out of the bring-back library!!!!

526	425
40	401

Door prizes were awarded after the break, and the meeting was adjourned. The next regular meeting of the COCO club will be on the second Saturday, August 11, at 9 a.m. at the Midwest City Community Center. The Prez. will be on vacation, so any volunteer helpers for coffee-doughnuts, door prizes, or demos would be grovellingly accepted. PLEASE!!

The Prez. of COCO  
Dorothy A. Roberts

Joe Harding is moving. He sold his house and is moving into an apartment and wont be able to use lots of stuff so he is offering - to CORA Collector & Emitter patrons only - to sell everything that he has except his 2-AT.

THIS IS YOUR CHANCE TO FULFILL YOUR DESIRES AT JOE'S EXPENSE. Call him at 737-1044, make an appointment to see what he has. He will accept any reasonable offer. No set prices.

What is left will be taken to HAM HOLIDAY Saturday and offered to whoever has the cash.

You will have to move fast.

# HAM HOLIDAY-STATE ARRL CONVENTION

## AUGUST 3 - 4 - 5

# P R O G R A M

FRIDAY AUGUST 3, 1990

5:00 pm	Registration opens in the lobby. closes at 9:00 pm	
7:00 pm	Weather program presented by Chanel 9	STARS

SATURDAY AUGUST 4, 1990

9:00 & all day	P u b l i c Demonstrations	BLUE
9:00 am	PC Boards in Ham Radio	SEMINOLE
10:00 am	Combined M A R S meeting	STARS
10:00 am	V E Testing (Session 1)	TIERED
10:00 am	Basic Antenna	ROTUNDA
10:30 am	Citizens Against Crime (Non-technical)	SEMINOLE

12:00 NOON      EAT ANYWHERE YOU CAN !

1:00 pm	AMSAT, Getting started in OSCAR	TIERED
1:00 pm	ARES\RACES	ROTUNDA
1:00 pm	BINGO until 4:00 pm	STARS
2:30 pm	Oklahoma Repeater Society (ORSI)	TIERED
4:00 pm	CORA Club Officers Meeting	ROTUNDA
7:00 pm	Annual Banquet	





SUNDAY AUGUST 5, 1990

9:00 am	Baptist Ham's Worship Services	SEMINOLE
10:00 am	V E Testing (Session 2)	TIERED
10:00 am	Vertical Antenna Phasing	ROTUNDA

12:00 NOON      EAT AT YOUR FAVORITE PLACE

12:00 pm	ARRL FORUM	STARS
2:00 pm	Ham Holiday Awards Presentation	STARS

Then we will have a Special Award for turning in your badge.  
The award - a Free Pre-Registration for next years Ham Holiday.

<p>JULY</p> <p>S M T W T F S</p> <p>1 2 3 4 5 6 7</p> <p>8 9 10 11 12 13 14</p> <p>15 16 17 18 19 20 21</p> <p>22 23 24 25 26 27 28</p> <p>29 30 31</p>	<p>SEPTEMBER</p> <p>S M T W T F S</p> <p>1</p> <p>2 3 4 5 6 7 8</p> <p>9 10 11 12 13 14 15</p> <p>16 17 18 19 20 21 22</p> <p>23 24 25 26 27 28 29</p>	<p>1</p> <p><b>AUGUST</b></p>	<p>2</p> <p>AERONAUTICAL WATERMELON FEAST</p>	<p>3</p> <p><b>HAM HOLIDAY</b> ARRL CONVENTION</p>	<p>4</p>
<p>5</p> <p>GREAT PLAINS</p> <p>LAST DAY HAM HOLIDAY AWARDS</p>	<p>6</p> <p>Full Moon</p>	<p>7</p> <p>MORI</p>	<p>8</p> <p></p>	<p>9</p> <p>ALTUS AREA CIMARRON</p>	<p>10</p>
<p>12</p> <p>WHEATSTRAW ARC</p>	<p>13</p> <p>EDMOND CLUB VE EXAM RESALVATION ARMY 6 PM Last Quarter</p>	<p>14</p> <p>O U 76'ERS OIDAR</p>	<p>15</p>	<p>16</p> <p>KAY COUNTY</p>	<p>17</p> <p>EDMOND SOCIETY</p>
<p>19</p>	<p>20</p> <p>New Moon</p>	<p>21</p> <p>OK CITY AUTOPATCH</p>	<p>22</p> <p>EDIT NIGHT FOR C &amp; E</p>	<p>23</p>	<p>24</p> <p></p>
<p>26</p>	<p>27</p> <p></p>	<p>28</p> <p>CORA CORA CORA CORA</p>	<p>29</p>	<p>30</p> <p></p>	<p>31</p>
					<p>18</p> <p>VHF CLUB WATERMELON FEAST RIPPER PARK BETHANY 6:30 PM</p>

## CENTRAL OKLAHOMA RADIO AMATEURS

proudly invite everyone to attend

our *bigger and better*



**HAM HOLIDAY ARRL CONVENTION**  
**LINCOLN PLAZA INN**

Oklahoma City  
AUGUST 3, 4 & 5