



HAM HOLIDAY XVI HAS BEEN SET FOR NEXT YEAR THE LAST FULL WEEKEND IN JULY 28-29-30



First, a little news that missed the last C&E. Field day was a great success. I hear we earned 1342 points with over 500 QSOs, including at least one from Down Under! This was a great event for the members of OIDA and the Kay Co. clubs that joined efforts for Field Day '88. We're looking forward to '89. A Job well done to Steve Huston, KB5DOR, for coordinating the whole show.

The Ponca City Grand Prix was the site of another joint club activity. Many local Hams helped the AMBUCS with the Spectator Safety work. The weather was GREAT

I attended the SCCA meeting in OKC with Steve Scott, KASSJK, and the HAM help was given a rousing round of applause. Thanks a bunch for all the work to all those who helped. '89 should be a great year for this one too!

An astronomy demonstration was scheduled for the 9th of August, but cloudy weather caused the postponement of the show. Voyle Graham, the astronomy teacher at Ponca High had agreed to give the program, and is going to try again on the 13th of Sept. Truman Steiner is working with Voyle on this outing.

Glenn Bishop, WNSJ, gave a Packet demo at the July meeting. It was very interesting. Packet really looked great. Maybe for my birthday or Christmas..... Thanks a lot Glenn!

We discussed the idea of having a HAM booth at the Kay County Free Fair this September. After a less than enthusiastic reception from the Blackwell C of C, the membership decided to drop the idea for this year.

The preparations for the ham and electronics Swap Fest are coming along well. It is scheduled for Sept. 24th. It will be at the Airport Service Co. Hangar at the Ponca City Muni. Airport. A Ham Dealer is tentatively scheduled to attend as is an Avionics Dealer from Augusta, KS. He will be demonstrating such items as

airborne LORAN and STORM SCOPE WX detection systems along with other avionics. Should be interesting. Work towards an EXAM session is in progress. It looks like the tests will start about 10 AM. Debbie White, N5LFF, is coordinating the test preparations. Thanks to Biz Wichy for getting the fliers printed.

The membership decided to postpone the Novice and possible Tech. class until next winter due to the busy fall schedule. It was generally agreed that a better attendance could be expected then.

Glenn reports that the 2 Meter linking project for Ponca City to the MORI repeater(s) in OKC is progressing well. A site near Perkins is in the mill. The Chickasha link is ready to tie to the Lawton UHF machine, when it is up again.

The purchase of a new autopatch was approved as was the connection to Ma Bell's system for a year. The phone line is to be paid for from the gate of the Swap Fest. This is to be an open patch, so ya'll come up to the Fest and help pay for it! The patch hardware was to be purchased when funds were in hand. The funds materialized less than 5 minutes after the close of the meeting and the patch was on the air by the 14th! Great Work, Dave White WNSLUI, thanks to his better half, Debbie, N5LFF, for her support. A UHF repeater should be up in this area soon at an elevation of 400'. All this growth is GREAT!

73s,
Mike Morriss
NSJJR

BRICKS RE-OPENS

Where does your club meet? If it has been the Bricks Restaurant then take heart for it has reopened as The HOMESTEAD, same service same food and all, just a new name.

The 76'ers will meet there on 13 Sep at 7:30pm. Make the meeting for a good meal.

MORI will meet there on Oct 4th. In the meantime they will meet at CRYSTAL'S (South Side) for their September 6th get together.



ALTUS AREA AMATEUR RADIO ASSOCIATION

JULY NOTES

News reached us of a death of one of our former members. Phil Whitman, WB5UPM, passed away about a month ago in Washington. He had been having heart problems for some time. Phil was instrumental in starting the Ham Club and supporting the Southwestern Oklahoma Repeater Association.

More bad news, Chuck Smith, WB5MJS, and wife Linda were injured in a 2 car accident. Both are doing well, though Linda suffered a broken arm. What made the accident worse was the 600 pounds of bird seed which came "flying" forward on impact.

Field Day 88 went on though with little activity. Loren Simms, WA5CBF had pulled a muscle in his back while gardening. Sherwood, WA5TXG, reported working a few stations. Frank, WA5HUX, worked several stations also. Loren reported working lots of 6m SSB stations in several states. Band conditions on 6m was good he said. Dwight Dennis, WB5URH, said he suspected 6 meters is open more often than we think.

Dwight went to the mountain Saturday 9 July. He worked on the repeater and got it all in shape after 6 hours of work. Dennis, WB5UVU, went with him for moral support.

Word comes from Joe, W5CCO, about arrangements for the 9:00am Breakfast Meeting of the AAARA at Quartz Mountain Lodge at Lake Altus. Cost per person will be approximately \$5.00. Remember the last Saturday of the month. (Ed: Hope this is right.)

Janice Simms, WB5WNN, is recovering from major surgery in Comanche Memorial at Lawton. She will be out of action for a couple of weeks. we wish her well.



RE-ELECT JIM HAYNIE, WB5JBP WEST GULF DIRECTOR, ARRL

In late September you will receive your ballot from the ARRL asking you to vote for your league representative from the West Gulf Division.

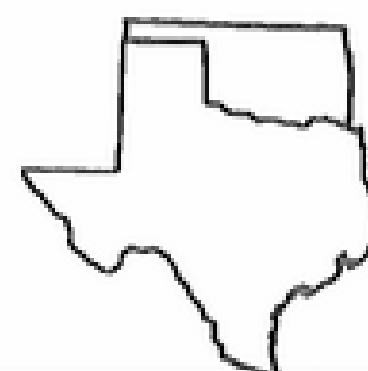
Your vote for Jim Haynie will assure a solid growth of not only your national association, but of the West Gulf Division. Read the minutes of the past board meetings in QST and you will see that Jim Haynie has improved the volunteer examination process. You will see that he has increased the participation of the ARRL with NASA and amateur radio. You will see that he has established new relations with our Mexican amateurs and the LMRE.

On the business side of our hobby Jim has dramatically improved the sales and operations of ARRL publications. During Jim's chairmanship of the publications group new and better books have been produced that help us in our hobby.

Jim Haynie represents the future of amateur radio. We need someone who is a proven leader and has the respect of his fellow directors.

In the years to come amateur radio will face the most difficult challenges we have ever known. The ARRL needs strong and aggressive leadership to assure us that the challenge is met.

Jim Haynie is that person!



Vote for Jim Haynie for West Gulf Director, ARRL!

1 AERONAUTICAL CENTER ARC

MEETS: FIRST THURSDAY, FLIGHT STANDARDS
BUILDING. FAA, SOUTH MACARTHUR 7:30 PM

PR JACK IMAN, WBSSVN WORK 444-4603
VP HOME 677-8537
S/T BOB PACE, WASCJG WORK 686-2788

EDITOR: BOB PACE, WASCJG 376-3569

2 CENTRAL OKLAHOMA VHF

MEETS: 11:00AM THIRD SATURDAY, THE BRICKS
RESTAURANT, 3100 N PORTLAND, OKC

PR JIM WILLIAMS, K5VAL 789-0769
VP LAST ONE TO ARRIVE AT THE MEETING PLACE
SE JOE BUSMELL, K5JB 732-0676
TR ELLARD FOSTER, W5KE 789-6702
EDITOR: JOE BUSMELL, K5JB 732-0676

4 OK CITY AUTOPATCH

MEETS: 7:30PM, THIRD TUESDAY
SALVATION ARMY, NW 50 & PENN

PR GEORGE ADKINS, AD1B 722-0074
VP DENNIS PATTERSON, W5CSH 495-0769
SE DAVID CAREM, KF5EB 722-2638
TR MIKE CRENS, N5DOB 721-4926
EDITOR: CHUCK WILHITE, K5NK 721-4926

5 OKLA UNIVERSITY ARC

MEETS: 7:30PM SECOND TUESDAY (SEP-MAY)
119 WILSON CENTER, 1334 S JENKINS

PR FRANK DONALDSON, N5IQJ 329-4172
VP JOHN MUSTENBERG, K5EN 325-2382
S/T JIM GREENSHIELDS, W5HPU 321-9981

6 ALTUS ASSOCIATION

MEETS: 7:30PM, THIRD THURSDAY, NORTH
MAIN FIRE STATION (CD) ALTUS

PR JAMES MOLLEDALL, K8SL 482-5308
VP NONE
S/T LOREN SIMMS, W5CBF 477-0921
EDITOR: LOREN SIMMS, W5CBF 477-0921

7 BICENTENNIAL (76er) ARC

MEETS: 7:30PM, SECOND TUESDAY. THE BRICKS
RESTAURANT. NW 31 & PORTLAND

PR DENNIS MUSSER, K8GTH 524-4760
VP DICK BAKER, W5THW 745-3877
S/T JERRY SPROUL, N5AHU 354-0017
EDITOR: JERRY SPROUL, N5AHU 354-0017

9 WHEATSTRAW ARC

MEETS: 2:30PM SECOND SUNDAY. LOCATION VARIES.
SEE CLUB SECTION FOR DETAILS.

PR NEAL N5KCO
VP PERRY JONES, W5MGZ 772-6063
S/T JOE GARLAND, W5FLT (CALUMET) 893-2660

EDITOR: JAN KUEHN, N5JUT (OKARCHE) 263-4480

11 EDMOND AR SOCIETY

MEETS: 000 MONTHS, 3RD SUNDAY, 2:00PM EDMOND
EOC. DINNER, EVEN MONTHS, 3RD FRIDAY.

PR PHIL WOLFENBARGER, N5HIP 789-0681
VP DEE MIZE, W5FHR 341-6163
SE GLORIA GUINN, K8S8GH 341-3886
TR EDITH VAUGHN, K5YPX 348-2961
EDITOR: DEE MIZE, W5FHR 341-6163

13 KAY COUNTY ARC

MEETS: 7:00 PM, THIRD THURSDAY, SEP-MAY,
PIONEER VO-TECH, PONCA CITY OK

PR MIKE MORGAN, N5LPZ 765-9539
VP STEVE HUSTON, K8SDOR 762-4726
S/T HARRY BEATIE, W5DPR 765-3862
EDITOR: DAVE LAAND, K5FX 762-8616

14 CIMMARON ARS

MEETS: 7:39 PM SECOND TUESDAY
W5Y PLAYHOUSE, 827 S 13, FAIRVIEW

PR RAY BARNES, AB5Z 274-3334
VP LEO PEIL, W5H 886-2998
SE MADINE PAINTON, N5FMH 764-3599
TR DENNIS PAINTON, W5V 764-3599
EDITOR: JACK DAY, N5Z 227-3462

15 SOUTH CANADIAN ARS

MEETS: 9:30AM SECOND SATURDAY, RED CROSS BLDG
NORTH OU CAMPUS. NORMAN

PR ANDI WOLFE, W5W 799-5150
VP DAVID MEDDERS, K5PL 360-4292
SE DORINDA SKAGGS, N5IUA 799-5363
TR MONTE BATEMAN, W5R1X 329-7485
EDITOR: DAVIS EGLE, K5IT 321-7570

16 EDMOND AR CLUB

MEETS: 7:00PM SECOND MONDAY. SEE CLUB
SECTION FOR LOCATION AND TYPE

PR MARK NORTHCUTT, W5DYI 755-4672
VP SANDY ORCUTT, K5ONI 340-0034
S/T KAY NORTHCUTT, W5DYJ 755-4672
EDITOR: MARK NORTHCUTT, W5DYI 755-4672

18 GREAT PLAINS ARC

MEETS: 2:15 PM FIRST SUNDAY
WOODWARD PUBLIC WORKS BLDG.

PR WINDLE HATCHETT, W5PLW (FT SUPPLY) 766-3561
VP RON TICE, W5OP6D (MOORELAND) 994-2138
SE ROD FORD, W5OYT (GAGE) 923-7683
TR FREIDA PATTERSON, N5EOX (NOMD) 256-2111
EDITOR: LOIS FORD, N5J6Q (GAGE) 923-7683

19 OKLA INDEPENDENT ARC

MEETS: 7:00PM SECOND TUESDAY
SOUTHWESTERN BELL OFFICES, PONCA CITY

PR VERNON TREIBER, Jr. N5ANV 767-6260
VP TRUMAN STEINER, W5MRE
SE DEBBIE WHITE, N5LPF 765-5707
TR STEVE HUSTON, K8SDOR 762-4726
EDITOR: MIKE MORRIS, N5JJR 765-6260

CENTRAL OKLA RADIO AMATEURS

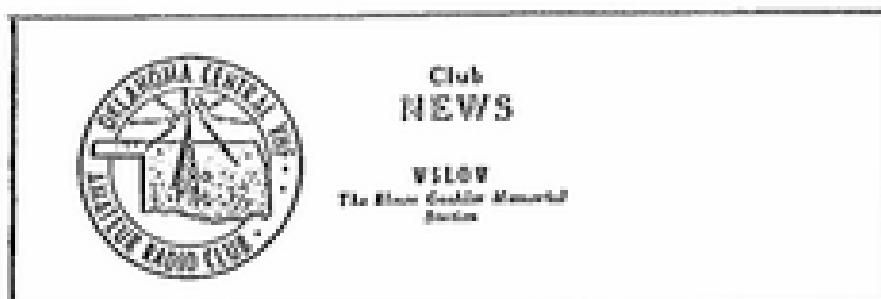
MEETS: 7:00PM FOURTH TUESDAY. RED CROSS
BLDG. 10 & HUDSON OKLA CITY (BACK DOOR)

PR JOHN THOMASON, W5SYT 340-1798
VP
SE YVONNE WARRIMER, W5TYW 379-3149
TR MARK KLEINE, N5H2R 329-4285
COM/COM: CHARLES HOFFERBER, N5FMU 346-4468

CORA COLLECTOR & EMITTER (USPS 116-150) IS
PUBLISHED MONTHLY BY CORA, INC, 1020 ARTHUR DR
MIDWEST CITY OK 73110. SECOND CLASS POSTAGE
PAID AT OKLA CITY OK. SUB: CORA MEMBER \$3.00
PAID SUBSCRIPTION: \$7.00 PER YEAR.

POSTMASTER: SEND FORM 3579 TO:
CORA, 1020 ARTHUR DR, MIDWEST CITY OK 73110

EDITOR: JOE HARDING, W5ZNF 737-1044
CIRCULATION: BOB GRAHAM, W5NSV 677-8685



Minutes of Club Meeting

There wasn't a meeting, silly! It was the time for the annual watermelon feed, held in conjunction with the Aeronautical Center ARC. I had a conflict and couldn't make it but President Jim, K5VRL, said there were about 20 people there in spite of the threatening weather. The when Jim went to make the watermelon purchase, he found that the normal Public Market supplier had closed up and gone home early (maybe to get out of the rain) and the group had to go to Safeway for the grub. There was enough for all so nobody went home hungry.

The next meeting will be at Homestead Country Kitchen, previously the site of the Bricks, on N. Portland. It will start with lunch about 11:30 a.m., September 17th. Joe, K5JB, Sec'y

Pluses and Minuses

This month has certainly had its pluses and minuses! It started with the trip to Oshkosh, WI. for the annual Experimental Aircraft Association (EAA) Convention (a plus) but we arrived while the area was having record temperatures and humidities (a minus). Jerry, KD5IS, and Rocky (no call) accompanied me, and in fact flew the plane much more than I. I let them do the exciting stuff like flying hundreds of miles with nothing in sight but haze, while I did the dull stuff like keeping track of where we were, getting back on course, and making occasional landing. When we arrived, traffic was backed up and the airport was closed so we diverted to Fond du Lac and rode the bus to Oshkosh (a minus). However, I learned from another pilot who was involved in the traffic back-up had to wait 2 hours to get parked and settled (our minus wasn't so bad after all).

The convention was so good, we decided to stay a day longer than originally planned. (Actually, it was so darned hot, we wasted about a third of our time looking for water and shade; we needed the extra day!)

I stopped by the amateur radio shack and visited a while. I was trying to locate Carolanne, WA1RNM, my friend, NOBIX's sister, and thought I might do so by leaving a note in the ham shack. I tried several times to call her on the radio.

using an arranged schedule, but no luck.

The return trip was fortunately timed. By waiting a day, we got to fly most of the trip in the cool, crisp air behind a cold front rather than slogging it out in the gunk that existed the day before. Our final dash into Oklahoma City was perfectly timed between thunderstorms.

Speaking of thunderstorms, I don't remember when I have had to keep the antennas disconnected for so long a period of time in the summer. I naturally raise my level of caution in the springtime, but cripes! This is August and it seems like the sky fire is flying about every third day. Maybe I am just more perceptive since last year's wipe out from a lightning strike. Keeping the packet radio on the attic antennas is a minus; not getting hit is a plus, I guess.

Ham Holiday was fun. There were a few complaints about this and that but it was a whole lot better than not having a Ham Holiday at all! One dealer said that it was a "buying crowd", I guess since we don't have many alternative radio shopping places. I expect to hit the Gaithersburg, MD hamfest in September, winding the hamfest season down.

Losing the lower 2 MHz of 220 was a big minus! I, like many others, don't operate there, so I am not really aware of what is going to be displaced. I guess that was part of the problem. Not enough of us are involved enough to know what we lost. Those who do operate there with links, auxiliary stations, etc. just seemed insignificant to the FCC, I guess. There are a lot on insinuations about this one smelling like a kettle of fish but I don't expect anything having to do with the FCC to smell like roses. They aren't our friends any longer.

Sigh, let's see what has been going on in packet. Joe, K5JB

Packet Radio Happenings

The summer has been hard on the network. If the heat wasn't burning things up, lightning was. WFOR was down for about a week, apparently because of a lightning hit, though I don't really know. The CEDAR/POND/-ENID setup has been crippled with N5DUB, WA7UIB making repair trips several times.

Glen, WN5J, was been preparing a Net/ROM node for installation at Olney, TX. He has it running under test at his home, using the node name, OVER. In earlier days, WA7UIB

lived there and had a heck of a good digipeater going. This Net/ROM addition should be a good one.

There is supposed to be an update to the ROSE code almost available and Phil, KA9Q, has added some things to the TCP/IP package, including Net/ROM support. He is also working on a driver for the DRSI PC packet Adapter. I am looking forward to that one (more on that later). I don't know but a fraction of what is going on with the networking. If you want the real skinny, contact Doug, N5DUB, to get on the NODE mailing list.

I received my copy of the August 88 Packet Status Register (PSR) this week and it was chock full of goodies. There were several project reports, including ones on Digital Signal Processing, the PS-186 (five port packet "engine" that runs in an IBM type computer); and, some details that have been worked out on the next four packet satellites. The same people have been working on all these projects and the satellites have been taking priority. (They are internally referred to as MicroSats since they are 228 mm cubes weighing 12 kg (except for one that weighs 14.5 kg). If you are interested in this kind of stuff, you ought to join TAPR, PO Box 22888, Tucson, AZ 85734. Cost is \$15 per year. Incidentally, TAPR's phone number has changed to (602) 323-1710.

On the night of August 23-24 there was a band opening and the monitoring program went crazy! From 10 p.m. until 5 a.m. it logged 30,000 characters. I scanned through that and went on to work. When I got home there was another 60,000 characters saved. Under normal conditions, a busy 24 hour period will yield maybe 20K of received characters. I was hearing Amarillo, New Mexico, Colorado, Kansas, Arkansas, and Missouri directly. One station in Lawrence Kansas was heard directly and the BBS in Topeka was heard several times. What a deal!

I am a little late in getting started on this column because DRSI delivered an update to their PC*PI software, and I had difficulty with it in my computer's normal environment, so I set out to fix it.

The new software ran fine if it was the only thing running in the computer. Unfortunately, a computer acting as a dumb terminal is quite a waste of resources so mine is usually available for other tasks while it is idling between packets. The main problem was that the new software was doing direct screen writes instead of using the operating sys-

tem. While the computer was off doing something else, suddenly a packet would appear on the screen! Phooey!

Dave, K5PL, and I set out to work up something better. Dave, as you remember, is the programmer, while I am the hacker. He has one of the two PC*PA cards I picked up in Dallas. Between the two of us, we figured out how to talk to the terminate-and-stay-resident portion of the code supplied by DRSI. (It was written by Software 2000, and has the WABDED command set, including the DED "host mode" to make it "computer friendly".) Well, I haven't learned how to make it "computer friendly" yet but I have noodled out some of the details. As a diversion, I wrote a simple terminal program and fixed it up so it would also be terminate-and-stay-resident. (Terminate-and-stay-resident, or TSR, programs are ones that are loaded and are available on call with a "hot key" combination.) The TSR supplied by DRSI is a complete TNC emulator and works in the background. It doesn't actually terminate though, it just goes underground. If packets are received, the program keeps working, saving stuff in a buffer until the user comes along, accesses the program and reads the buffer. The advantage of doing my little terminal program as a TSR is, once it is loaded, it doesn't have to be reloaded between terminal sessions. By hitting a certain key combination, it becomes the active program and I can peek at the activity the DRSI program has buffered. Sounds complicated but it isn't. What it means is that one half of the computer is monitoring one frequency with the smart monitoring program, the other half is doing what ever I want to do, and in that half, that task can be interrupted to see if the DRSI PC*PA has any stuff for me from another frequency.

Ultimately, Dave and I will want to implement the KISS code for the DRSI card, if Phil Karn doesn't beat us to it (and I hope he does). Dave dredged up the fundamental information we needed to program the I/O devices but we are still lacking some details about how these devices interact. I really like working with the KISS as it leaves the gory hardware details to the driver and permits absolute control over what is sent and received by the TNC. A disadvantage is that the whole AX.25 protocol specification must be managed by the host machine. Dave did it with nothing but the AX-25 specification for reference. I did it with that and some examples of how others did it!

Unlike Software 2000's Net/ROM vs. NORD<>LINK's TheNET, our results look totally different, but I wasn't going to mention that mess...

I need to get with Davis, KD5IT, the only other known local PC*PI owner and share my little TSR with him. May surprise him with a diskie in the mail!

This experience confirms my belief that in computerdom, the hardware isn't worth shooting if the software is no good.

In re-reading what I just said, it sounds like I am being harsh on DRSI. I didn't intend to be. The software works well; it just isn't compatible with my style of computer operation. They included quite a package. There were two versions of the TSR packet program, one for large buffer, one for small. There was a small, split screen dumb terminal program and a huge, full featured split screen terminal program with file saving, YAPP transfer, the whole works. Unfortunately the terminal programs did that direct screen write thing.

DRSI also included an updated version of the simple terminal program that didn't use the TSR. Also, they included a short fragment of C source code that illustrated how to talk to the TSR. One thing that was missing from the documentation was how to make the WABDED TSR get into host mode so all the stuff in that mode would work. (Answer: From the normal terminal mode, enter the command "JHOST 1".) I found that in my WABDED notes for the TNC1. Until I figured that out, the echo from the TSR was driving me crazy!

If I get anything that works real well, I'll just send it off to DRSI for others to use. Mean time I'll keep piddling. Joe, K5JB

Radio Direction Finding

There recent news item regarding the Oklahoma City Police finding a couple of bootleggers using stolen radios on a railroad frequency. They used equipment, described as a doppler RDF, owned by the Oklahoma City Fire Department radio shop. I presume it was similar to the ones I am familiar with called Little Elper (similar to the Happy Flyers design) or the one manufactured by a company, whose name I forgot, that displays direction with a circle of LEDs. (There probably have been improvements since I made mine several years ago.)

I have written reams about spook hunting, and done a lot of missionary work to get the equipment in the

hands of trained spook hunters, but that was years ago. I might look through the files and rerun some of the old articles if there is any interest in the technical aspects of "fox hunting".

From the hindsight perspective of having located and put several bootleggers out of business, I can give a couple of hints on the requirements and leave it at that.

First, it is necessary for there to be organization and discipline on a repeater frequency that is being bothered by a bootlegger. I can tell you from experience that it is much more difficult to locate a station if you have to separate it from several who feel they have to comment about the situation.

Think about it. The reaction to the presence of a bootlegger should be to get him off the radio. There are two ways to go about it. Find him and (what? shoot him? Remember that at the end of the hunt you have to be prepared to deal with the hunted animal), or ignore him. If the bootlegger isn't getting a reaction, he will normally find something else to do. By ignoring him, I mean acting like he isn't there. I have heard the locals do that to one of their buddies in fun and it drives the victim crazy, thinking his radio is broken. Do it to the bootlegger and he will normally go away, and in a short time.

Unless you are a member of a hunting party, don't assume anyone wants you to bait the bootlegger to keep him talking so someone can get a fix. If you hear someone baiting a bootlegger, stay clear. He may be baiting, or he may be ignorant of the best thing to do; but, by jumping in and putting your two cents worth you are only adding to the satisfaction of the bootlegger.

As I said, I would be glad to dredge up the technical details if anyone is interested. Suffice it to say that, properly and carefully used, my equipment has a resolution of less than one degree. That is sufficient to pinpoint a signal to within a tenth of a mile at six miles. One piece of advice I have never given in my seminars: what to do with a bootlegger if you catch him. Since you probably won't have authority to do anything, and will probably not have the right to be where you are, you will have to be creative if you are to keep out of trouble in a confrontation.

People shouldn't wonder why I prefer to piddle with the technical, rather than the social aspects of bootlegger control. Joe, K5JB

Central **O**klahoma **R**adio **A**mateurs **I**nc.

All Clubs Co-operating To Advance Amateur Radio

June 28, 1988

Regular meeting of COkA held at Red Cross Building, meeting opened at 7:00 P M.
Sharp by President John Thomason.

Directors present were:

ACARC: Tom Mangham K5LDI Charlie Greene WA5JGU Ellard Foster W5KE
VHF Bob Ashby W5HXL
76 ers ?? Jerry Sproul N5AUH ??
Wheatstraw: Joe Garland George Maschino
EARS Lee Vaughn KA5WIS John Thomason WB5SYT Frank Tassone AA5GI
SCARS: Marshall S Maddox WU5P Dorinda Skaggs N5IUA
CUARC: Mark Kleine N5HZR
EARC Phil Wolfenbarger N5HIP
Tri-City Yvonne Warriner WB5TYW John Warriner KE5MT
C & E Joe Harding
Ex-officio Jim Buswell N5BEQ
President John Thomason
Vice-President Lee Vaughn
Secretary Yvonne Warriner
Treasurer Mark Kleine

The minutes were accepted as read.

Treasur reported C & E account was \$232.78 and Ham Holiday balance \$1,152.96.

N5HIP Volunteer exam reported 12 applicants with 60% passing.

Joe Harding, C & E was without money and \$12.60 short in 2nd class postage permit.
May postage was \$72.60, June postage was \$120.04. Proposed \$150. for postage

Committee reports:

Pre-registration, 83 reg. 6 banquet, 19 flea tables; \$664.00
520 preprinted tickets Jerry Sproul
Registration ready, Lee Vaughn
Dealers, 9 George Maschino
All other committees are ready.

Auction at 1:00 P M. for scholarship to benefit, prize drawing to follow.

Yvonne Warriner, Secretary

Central Oklahoma Radio Amateurs Inc.

All Clubs Co-operating To Advance Amateur Radio

C O R A Meeting July 26 1988

Called to order By John Thomason WB5SYT at 7:12 P M at Red Cross building 10th and Hudson.

Minutes of June meeting corrected to show 76ers Jerry Spruill N5AUH and word "to" dropped from auction report. Also the word scholarship spelling was corrected. Minutes approved with the corrections.

C & E report: Joe Harding WA5ZNF

Nothing to report then reported Enid ARC Light ran a full page ad for HH-88. 12 pages for the July C & E. Chuck Wilhite K5NK questioned status of MORI, discussion followed.

Treasurer was not present, No treasurers report.

V E Test

Verbal report to President: 15 applicants, 4 upgrades.

Introduction of directors present:

Lee Vaughn KA5WIS	EARS	Frank J Tassone AA5GI	EARS
Joe Harding WA5ZNF	C & E	Ellard W Foster W5KE	ACARC
Chuck Wilhite K5NK	OCAPA	Bob Ashby W5HXL	VHF
George Machino K5GGL	Wheatstraw	David Medders K5PL	OUARC
Tom Mangham K5LDI	ACARC	John Thomason WB5SYT	EARC
Jim Buswell N5BEQ	Ex-officio	John Warriner KE5MT	Tri-City
Jerry Sproul N5AUH	76ers		

Comments by President:

Scholarship discussion

League forum, ARRL President

West Gulf Division for HH-89

August CORA meeting, discussion HH-88, forms for comments will be at HH-88

Committee reports:

Pre-registration, as of 07-25-88 353 pre-reg plus 25 more on 07-26, 65 to 70 flea market tables, 25 banquet tickets.

Registration, Lee Vaughn Will have 600 tickets at booth, needs AC at booth for Talk-in, frequency for HH officials. Facilities, table contracts, youth passes, tables a bit cheaper. Lincoln Plaza not happy about room reserved.

Dealers/Prizes

11 dealers registered, empty tables still available. Missouri Radio is bringing main prizes. 4 hour limit on hourly prizes.

Programs:

See July C & E, possible surprise program.

Banquet:

Gerry Skaggs WB5ULK, banquet at 48th & Independence, Price \$7.50 ea. Speaker may be QRZ's brother. Committed to 100 banquet meals.

No old or new business. Annual HAM HOLIDAY - Oklahoma City Meeting adjourned to coffee shop.

Yvonne Warriner Secretary.



I want to alert all members that there is a proposed change in the EARS by laws concerning the nominating committee. Under the by laws of EARS at present the committee to nominate a slate of new officers and board members for the up coming year is composed of three members with one being from the present board. This has worked very well in the past; however, with the membership being over 140 members the board feels if a committee comprised of 5% of the club membership would be more representative. This would be more representative. This would mean a 7 member committee at our present size. The board feels 1 in 20 members is a fair representation for an such important task. The president would still be an ex officio (non voting and not counted in the 5%) member as he of all EARS committees. The proposed change in section 8.1 of the EARS by laws would read as follows: The nominating committees will be comprised of a number equal to 5% of the club membership, with one member being from the present board. This change will be voted on at the September business meeting. So do turn out for this meeting and exercise your right to vote.

The Edmond Amateur Radio Society (EARS) recently awarded its first Bertha Watson Scholarship to Miss Valerie Rahn. Miss Rahn is a student at Central State University, Edmond Okla. with 72 hours completed and a four point grade point average. She has been active in the honor organizations of Phi Beta Lambda and Cardinal Key. Having recently transferred to Central State.

Valerie was involved in the Religious Life Council, Band, and the Student Dorm Board at Midland Lutheran College in Fremont, Nebraska.

The Bertha Watson Scholarship was developed in memory of Bertha Watson, a charter member of the EARS and amateur radio operator for some 39

years. Mrs Watson died this year after a lengthy illness. Her husband, Alan, remains an active radio operator and member of EARS.

Well Ham-Holiday has come and gone but well remembered by quite a few EARS members who were lucky enough to win some of the prizes given away to Tommy Guinn, Ken Stepp, Mary Wells, John Lewis, Dorothy Roberts, Bill Demand and Jamie Cook. Some were not so fortunate enough because they were not there to collect their prize. I guess my luck has run out for good.

Soon it will be time for another trip to Big "D" on Oct. 1. Bettered plan ahead and get your name in the pot for a seat on the bus. Contact Phil N5HIP.

Attention potential Ham Radio Operators. If you want to be a ham then you will want to enroll in the EARS Ham classes due to begin on Sept. 11, 1988. Contact any of the EARS members for information about the classes.

A walk-a-thon called "crop walk" will be held on Oct. 2 and if you want to participate contact Don Waits, N5KLI. The next board meeting will be Tue Sept. 13, 1988 and the next business meeting will be on Sept. 18, 1988 put these dates on your calendar.

Now is the time for planning our xmas dinner program and xmas party. If you know of a good place to hold this event let me know so plans can be made to secure a date for the event.

73's
Dee, WD5FHR

RSC ELECTRONICS, INC.

Electronic Components Connectors

Belden Cable
RCA SK
Transistors

Now Open - OKC Branch
8109 S. I-35, OKC, OK 73149
7729 or 800-522-4801 (0)
Fred Noble, N5JIK

VOLUNTEER EXAMINER PROGRAM

V.E. TEST SESSIONS ARE HELD THE 3RD MONDAY OF EACH MONTH AT 6:00 AT THE OLD OKLAHOMA CITY RED CROSS BUILDING AT 10TH AND HUDSON.

THESE SESSIONS ARE CONDUCTED UNDER THE WSYI PROGRAM AND ARE SPONSORED BY C.O.R.A. AT THE AUGUST SESSION WE HAD A TOTAL OF 9 APPLICANTS WITH ONE NO LICENSE TO NOVICE, FOUR NOVICE TO TECH., ONE ADVANCED TO EXTRA, AND TWO S.W.P.M. CODE CERTIFICATES.

TEST SESSIONS ARE FOR ALL LICENSE GRADES; FROM NOVICE TO THE EXTRA CLASS. WALKINS ARE ACCEPTED. WHEN ATTENDING A TEST SESSION, PLEASE BRING THE FOLLOWING:

1. A FILLED OUT FORM 610
2. PEN OR PENCIL
3. CALCULATOR (IF DESIRED)
4. DRIVER'S LICENSE (OR OTHER SUITABLE I.D. FOR MINORS)
5. ORIGINAL HAM LICENSE (YOU KEEP)
6. XEROX OF HAM LICENSE (WE KEEP)

IF YOU DO NOT HAVE A FORM 610, ONE WILL BE PROVIDED. A \$4.55 FEE WILL BE CHARGED EXCEPT FOR NOVICE TESTS. IF POSSIBLE PLEASE BRING THE CORRECT CHANGE. THIS FEE COVERS AS MANY ELEMENTS AS YOU SUCCESSFULLY CONTINUE TO PASS (YOU LOSE NOTHING BY AIMING FOR THE HIGHEST LICENSE AND IT WILL GIVE YOU THE OPPORTUNITY TO SEE WHAT YOU MAY BE IN FOR AT FUTURE TEST SESSIONS).

HOPE TO SEE YOU AT THE NEXT TEST SESSION.



73 DE JERRY--WR5G

EXTRA CLASS
AMATEUR RADIO
WSKE

FIRST CLASS
RADIOTELEPHONE
LICENSE

ELLARD'S EX EL

ELLARD W. FOSTER, OWNER
5905 N.W. 42nd Street, Phone: 405/789-6702
OKLAHOMA CITY, OKLA. 73122

COAXIAL CABLE
DEVICES

USED TEST
EQUIPMENT

EXCESS
ELECTRONICS

SCARS

met on August 13 at the Norman Red Cross. The meeting started at 9:35 am. There were 18 members at the meeting and one guest, Chris, KB5GGY, who enlisted in the best amateur radio club in North America (maybe the whole continent!). Ur umble reporter missed the meeting cuz he was operating mobile (see below) so Monte, W5SRZX, wrote the following minutes.

The problem with

the stadium link was found to be defective capacitors in the power supply, which were fixed. Since we didn't need a new receiver, the club purchased KSPL's Micor receiver (for \$100) which we have been using on loan for the stadium receiver for three years. Donation monies were also used to add a PL decoder board and a touch-tone decoder board to the stadium link system. Now we can turn on the PL decoder with a touch-tone code, and we can also turn off the link transmitter with a touch tone code.

Ham Holiday was

a success! Attendance was up 4% over last year. The banquet was enjoyed by everybody, as Jack Bickham, KU5B, was the speaker. He told us some of the history of the Great One, ASA, himself. Larry Price, W4RA, the ARRL President, was present and commented that this was one of the best banquets he'd ever attended. (Larry, baby, we always do it better.)

The O'Connell's

Cup race is coming (Sep 25) and we have been asked to provide communications. We will need 9-10 people...if you are interested, please contact Steve Wolfe, N18W.

If any corrections to the recently distributed roster are necessary, please contact Monte, W5SRZX. Many were wondering about the "ADS" on the current roster --- it stands for "Auto Dial Slot". Now you can look up what your auto-dial number is if you forget. The meeting adjourned at 9:45 AM.

"Another first"

I muttered as I negotiated my van along I44 toward Rolla, MO. I had just worked Vlad, UA1ZBY. Seems like he said he was in Rumansk but I can't find that on my maps. What made this more incredible

was I was operating mobile for the first time and with a borrowed antenna.

I had to make a trip to Urbana, Illinois and drove because I had originally planned to take the XYL and make it a short vacation. That fell through shortly before I was scheduled to leave so rather than use \$700 of state funds to fly 700 miles on a last minute commercial flight, I thought it would be a good opportunity to try mobile HF. The original intention was to buy a bumper mounted vertical at HH and use that but Ken, KASEFJ, convinced me that his RadCom 20 meter short dipole would be better on a van than a vertical. So I borrowed this eye catching gadget and installed my 751 on Friday before HH. Initial tests that evening were disappointing. Although I could hear the world, apparently the world couldn't hear me.

However it wasn't that way the next Sunday as I motored up I44 to Tulsa. I worked California, Florida, and Delaware with ease. Actually the biggest problem was writing down the call and name (short memory is an occupational characteristic). However I was very surprised to hear this UAl working 3's and 8's as I wound through Missouri later that day. It took me about 30 minutes, including a 10 minute rainstorm, to get him to answer but he did answer. Now with any luck he won't be a bootlegger from Cleveland.

The OK QSO party

is scheduled for 1200Z Nov 12 to 1200Z Nov 13. This will be the first ever of this event for the state. A copy of the rules were printed in the August C&E. We sure hope you will encourage your friends around the state to participate. Although this is a "contest," you don't need to be QR Zedd to work a few stations on your favorite band. And, who knows, you may get to work a UAl!

The NOVICE class

for this fall is scheduled to begin on Monday, October 10. At least that is the tentative date because the Red Cross calendar hasn't been checked as of this writing. However if the room isn't available we will work something out. So pass it on to your friends and relatives.

Monte, W5SRZX, and Davis, KDSIT, are planing the same format used

KAY COUNTY
AMATEUR RADIO KLUB

NEXT MEETING-

Remember, our next meeting is September 15th. (the third thursday) and it will be in the Vo-Tech building as usual at 7 P.M. This will be the first meeting with our new prez, Mike N5LPZ, so come out and see what he has up his sleeve. Bring along your thinkin' cap, 'cause we will be planning our activities for the next year. Things like the Christmas party (gotta get those reservations in early!) and programs for the year. There's lots to do, so come! NO EXCUSES! Gotta keep it short this month, 73 for now, Dave KD5FX.

COLLEGE CLUB MEETS

NOVICE CLASSES SCHEDULED

The Oklahoma City Community College Amateur Radio Club is having its first Fall Meeting on September 13 at 8:00 pm in the Main Building, Room 2N2, OCCC, 7777 S May Ave. They've been closed down during the summer and are going to re-organize.

Other than re-organization they have gathered up a bunch of well known amateurs as teachers and plan to start a Novice class. You had better be there that night to get a good start. If you know of someone interested in becoming an amateur, let them know.

For more information call Don Graham, WA5TAW at work 682-1611, Ext. 212 or at home at 364-9457.

since 1985. There will be eight classes aimed at preparing a newcomer to pass the novice CW and written exams and then take the technician exam. A VE exam will be given during the eighth week. Code upgrade practice sessions will also be held at the same time but in a separate group. For information contact Monte at 329-7485 or Davis at 321-7570.

The next SCARS

meeting will be on Saturday, September 10, at 9:30 am in the Norman Red Cross. Remember you will find friendly folks at the Red Cross every Saturday morning for coffee and donuts.

-----KDSIT-----

Ham Holiday '88

On Friday, August 5, the Central Oklahoma Radio Amateurs (CORA) opened "Ham Holiday '88" held in Oklahoma City's newly remodeled Lincoln Plaza, with a session on "Advanced Spotter Training" given by Dr. Charles Doswell of the National Weather Service. The "standing room only" crowd was taught storm spotting techniques and some advanced weather theory.

The registration booth opened and began registering the 501 people who did not take advantage of the pre-registration. The 494 pre-registrations brought the official attendance total to 995, one of the largest crowds in recent history.

On Saturday, there were hundreds of bargains to be found as the 115 flea market tables came to life. This year's flea market was moved upstairs to the Lincoln Plaza's "Gold Crown Room" to accommodate all of the amateur vendors. Regional vendors of all kinds demonstrated and sold the latest and greatest in radio's, computers, interfaces, and all of the other necessities of the hobby.

Programs and special interest groups were well attended throughout the day.

For the first time, a nursery was provided that allowed "Ham" parents some free time to take in the sights. Children of all ages were entertained by the OKC Zoo's Zoomobile, which brought a variety of interesting animals to see and touch.

The W5YI Volunteer Examiners tested approximately 75 people on both Saturday and Sunday, allowing the attendees to upgrade their current classifications.

This year's banquet was an all you can eat bar-be-que dinner held at the Mayfair center with Jack Bickham as the featured speaker. Q.R. Zedd (A5A) was in attendance, and enjoyed Jack's speech with the 75 others that attended.

Last year we had the largest attendance nationally for an ARRL forum, and this year it was even more crowded. Many ARRL staff spoke, and attended, including Larry Price, W4RA, the president of the ARRL.

Many thanks to the hundreds of Hams, and others, that assisted in preparing for this year's Ham Holiday '88, and there is no time like the present to start work on Ham Holiday '89. Mark your calendars, Ham Holiday '89 will be held on July 28th through July 30th, 1989. If you wish to be part of the planning for Ham Holiday '89, contact your club's C.O.R.A. representative, or become a C.O.R.A. representative, or come on down to the next C.O.R.A. meeting. The meeting date is always the fourth Tuesday of the month, and the time and place are announced the C&E calendar!

73 & see you at Ham Holiday '89, or the next C.O.R.A. meeting. -de n5hzz-

Q. R. Zedd

HOMER DIDN'T MAKE IT!

It might have been overlooked in all the excitement at Ham Holiday '88 (what with Tondelayo modeling that thing she wore in the style show and all), but Homer Klott did NOT take the novice test. Again.

Homer, faithful readers will recall, is the ultimate nerd who caught the great Q. R. Zedd, A5A, in an expansive mood after the annual Christmas party of the South Canadian Amateur Radio Society many moons ago. Zedd was saying he could take any person and teach him the secrets of amateur radio, and that was when Homer appeared out of a freezing mist in the parking lot, CB radio dangling from his ear, to take the great one up on his offer.

Zedd, world's greatest DXer, had no choice but to follow through. He soon invited the cement-headed Homer to Honor Roll Ranch, just a hoot and a holler south of town, to start him on his lessons.

Homer quickly proved to be a problem. It took him four months to learn Morse for the letter *T*. Ten weeks later, when he had the dit for *E* down fine as well, he had forgotten the *T*. Theory was worse.

Zedd, between DXpeditions to the North Pole, the birth of his first son, and other distractions, has stayed with Homer's education, however, and thought his protege might be ready to take the test at the hamfest.

Puffing an oom-Paul and rapidly adding to the world's stock of crushed Coors cans, Zedd gave the nerdy one an oral test just a few days before the convention. It went like this:

Q. -- Give me Ohm's law.

A. -- Home's law is pie are squared and cornbread are round. That is why it is Home's law, because you can't get no better cooking than at your own home, God bless it, amen, ten-four?

Q. -- What is DC?

A. -- DC is in Washington, and that are where they is both the White House and sometime other. It is similar to the FCC, which is at the Gettysburg Address.

Q. -- How many license classes are there for amateur radio?

A. -- There is two.

Q. -- Two? Did you say two? Tondelayo, go in the gun room and get me my --

A. -- Forty roger! There is

upper and lower. The upper is like the two meters and the lower is seventy-five! Two is upper more than seventy-five because the number is backwards from what you would expect! Like when your ground loop is on the wire and your aerial is an inverted vee!

Q. -- No, don't get the .45, Tondelayo. Somebody hold me back. I am going to be calm. I am going to be calm. Okay. Fine. Homer. Think hard now, son. Give this one your best shot. What is an A-1 transmission?

A. -- An A-1 transmission is when you start off and it don't slip or slide and it shifts real smooth, and when you come to a stop it don't clunk or make other funny noise and it don't leak on your driveway.

Q. -- And F-1 would be...?

A. -- The right stuff.

Q. -- What?

A. -- The right stuff! Like what's his name, he sells Delco batteries and stuff now, Yeager! He flew them F-1 right through that sonic thing! Boom! Shazam! And they thought he had crashed only he hadn't crashed at all on account of he had right stuff!

Q. -- What does a resistor do?

A. -- Go to Canada on account of you don't want to get drafted.

Q. -- And a capacitor?

A. -- That are how many it holds, like OU's stadium holds I think about 75,000 capacitance.

At this point Zedd's chair went over backward and he ran toward the gun and hunting trophy room, trailed by your reporter and his nubile bride, both of whom were trying to stop him.

Behind us Homer cried: "Hey! Don't you want to ask me about them inductance? -- I know that one, too! That is when your resistance don't work and if the draft is on and they catch you, they take you downtown and you are inductance into the army!"

Tondelayo hit Zedd with a flying tackle just as the great man hauled a thumb-buster out of his cabinet and started punching big cartridges into the chamber. Your reporter turned and fled back into the hamshack to grab Homer and haul him out of there. Things had turned serious, and the best that could be done, while Zedd was being delayed, was to drag Homer down into the bullrushes beside the big bass pond and hide him there.

Buried low in the weeds, we passed several hours before things quieted around the ranch house. It was impossible to keep Homer quiet. He was so keyed up, the propellor on his beanie kept rotating even after I took the battery out.

Homer did a memory dump. Everything else he knew about

CYNOAK PRINTING

9105 N. COUNCIL RD.
OKLAHOMA CITY, OK 73137
728-3610

QSL CARDS !

Unisys Packard-Bell Acer
Wyse NEC Okidata MFJ Products

O.T.S. Computer Systems

Single/Multi-User Systems
On Site Support & Service

Howard Liles
(405) 321-0441
N5HZU

1005 N. Flood
Suite 104
Norman, OK 73069
3-9

amateur radio and electronic theory.

Here are just a few of the things he explained:

1 -- A dipole antenna is so called because the guy from Warsaw who invented it was killed in a fall during test installation.

2 -- A diode is what the dead Pole left in unpaid bills.

3 -- Circular polarization is an ad sent out by the elves who work for Santa Claus at the North Pole.

4 -- The maximum allowable power for a novice station is 200 horsepower.

5 -- A GasFET is the procedure by which a radio operator converts his station from electricity to natural gas.

It came as no surprise, after these and other revelations, to learn that Zedd soon afterward:

A -- Had forbade Homer from taking any test at Ham Holiday (and had tied him up in the smokehouse to make sure), and

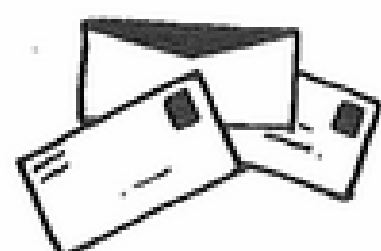
B -- Had taken off in one of his experimental private airplanes to clear his head.

As is well known, Zedd did return in time to appear at the Ham Holiday banquet, though in such a clever disguise that few of us recognized him.

When last heard from, Homer was still in the smokehouse. His ropes had been untied by then, but he said he wanted to stay in a while longer since everything seemed clearer there.

-- KU5B

SUN	MON	TUE	WED	THU	FRI	SAT
AUGUST S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	OCTOBER S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	SEPTEMBER HAM HOLIDAY XV1 JULY 28-29-30		1 AERONAUTICAL	2	3 <i>Leaf Quarter</i>
4 GREAT PLAINS	5 Labor Day	6	7	8	9	10 SCARS
11 WHEATSTRAW Grandparents' Day New Moon	12 EDMOND CLUB Rosh Hashonah	13 OLDAR OU ARES 76'ERS CIMARRON	14	15 ALTUS AREA KAY COUNTY	16	17 VHF
18 EARS	19 VE EXAMS RED CROSS 10 & HUDSON 6:00PM <i>Leaf Quarter</i>	20 AUTOPATCH	21 Yom Kippur	22 1st Day of Autumn	23 EDIT NIGHT FOR C & E	24
25 Full Moon	26	27 76 CORA CORA CORA CORA CORA CORA CORA CORA CORA CORA	28	29	30	



letters to the editors

To: CORA

Subject: Reduce the possibility of Murphy Striking another HAM next year. p Since I missed obtaining one of the "comment sheets" as they were handed out prior to the drawing at "HH 88", I feel it is necessary to answer Chuck's (the MC's) question - "I don't know who or why anyone keeps putting the blank ticket in the hopper?" - - - Well, Murphy's Law struck again. I was one of those idiots that put the wrong stub in the hopper; WHY? H-e-e-r-e's Murphy - I guess I just got the wrong stub in the wrong hand !!!

Let me suggest getting back to the tickets that have no left overs....

CLAIM TICKET	PRE-REGISTRATION TICKET	GRAND PRIZE TICKET
-----------------	----------------------------	--------------------------



ALTUS AREA
AMATEUR RADIO
ASSOCIATION

AUGUST MEETING

The A A A R A met for its monthly breakfast on Saturday 30 July 88 at Quartz Mountain State Park Lodge. The 9:00am meeting was attended by Mike W5VXU, Joe W5CCV and Irene, James WB5LS, Calvin Fox N6?? and wife plus Loren WA5CBF and Cris Simms.

The meeting lasted about an hour and a good time was had by all.

The AAARA met at the North Main Fire Station on 11 August at 7:30pm. We had five memb-

Now to let you know who I am, After all, anyone can make a mistake, as a matter of fact, there were two of us - since there were two blank tickets drawn out of the hopper !!!

73 - and hope next year is better,

Joe, WB5RAG
(Joe Satterwhite)

ers present (WA5CBF, W5VXU, WB5LS, KA5YWY, WB5URH) and one visitor. Our visitor was Ron Jackson who was interested in securing his Novice license.

Jim KB5LS, opened the meeting with a rehash of our last Breakfast meeting on the 30th July. Loren WA5CBF, stated we currently have \$272.44 in the club treasury. Jim brought a load of donuts which were enjoyed by all except Mike W5VXU - seems he is on a diet!

It was decided to hold our annual ice cream get-together at Braums (North Main) on Saturday August 27th at 7:00pm.

The next regular meeting is scheduled for September 8th at 7:30pm. TWX.

Loren, WA5CBF

Items for sale or trade:

ICOM 735 WNSJ

KDK FM2030 WNSJ

330 Watt GE Pro series VHF Power Amp, 15 watts drive, in rack with metering. Manuals available. This is a nice unit. Call Dave, WNSLUI, 405 765 5707(H), 762 5521(W).