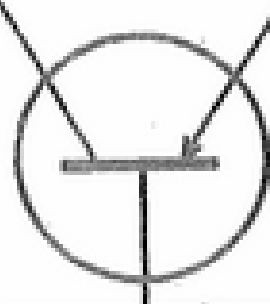


CENTRAL OKLAHOMA RADIO AMATEURS COLLECTOR AND EMITTER



50¢

Volume 8 OCTOBER 1982 Number 93

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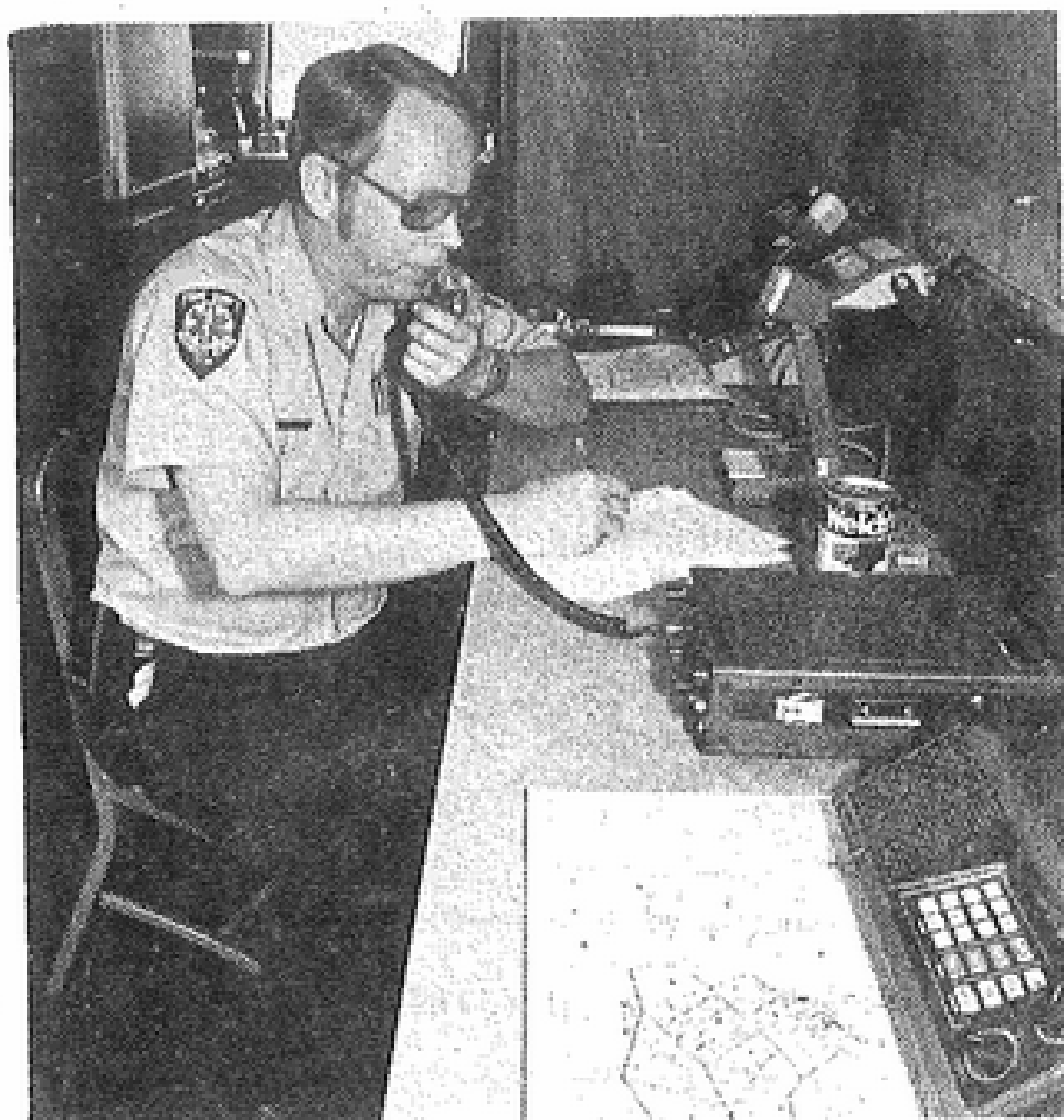
CORA GOES TO THE FAIR - Operation Watchdog

The 76th Oklahoma State Fair started on Friday, September 24, and thanks to amateur radio operators, REACT members, and AWARE volunteers, this fair should be one of the safest in history.

According to Art Roberts, W1GOM, police officials approached area amateurs and CBers with a request for the added communications capabilities these groups could provide. Art, who is also the newly elected Oklahoma City Emergency Coordinator for ARES, notified the local organizations in order to coordinate their activities.

The police were very interested in getting all the volunteer assistance they could. Lieutenant Adam Edwards of the Juvenile Division of the Oklahoma City Police Department said that he hoped that the volunteer help would prevent a recurrence of a situation similar to last year's, when two teenage girls disappeared after calling home that they would be at the fair. Neither girl has been heard from since.

Art next approached various volunteer groups, including area amateurs, and set the date for a coordination meeting. Just two days before the fair's grand opening local hams, CBers, and AWARE teams met with police officials to discuss the roles each would play during the fair. Lt. Edwards was introduced by Rob Runyon, AAØO, at the meeting.



Art Roberts, W1GOM, mans the Kenwood transceiver used for tactical communications during the fair.

The lieutenant reiterated the urgency of the situation, and discussed the procedures each volunteer group should practice to insure effective cooperation with the law enforcement departments at the fair.

At the meeting hams decided on two "talk-in" repeater stations, and two tactical simplex frequencies. A Regency HR2B was put into service for repeater work while a Kenwood 7400A with a 5/8-wavelength colinear whip covered the fairground simplex frequencies.

Art, who works for the Oklahoma City Fire Department, secured the use of his department's mobile command post for the communications center. Amateur, REACT, and AWARE communications were coordinated there. The REACT teams also had their own command post at the '89ers ball park. The fairground command post was located near the police department's command post, and the two were linked by telephone.

In theory lost persons reports would be sent to the police department, then relayed to the other appropriate agencies at the fair. Art's station would notify our portable stations, and the amateurs and CBers in the field would start searching. Radio was used to relay information and coordinate search efforts.

In at least one instance a lost child was found in the Lost Children Center. The center was operated as a service of the American Red Cross, and most lost children eventually found their way there. Then it became a matter of searching for lost parents.

Continued on Page Four (4)



Jim Stemen, WB5GSZ, patrols near the grandstand as TV cameras record for the nightly news. A star is born?

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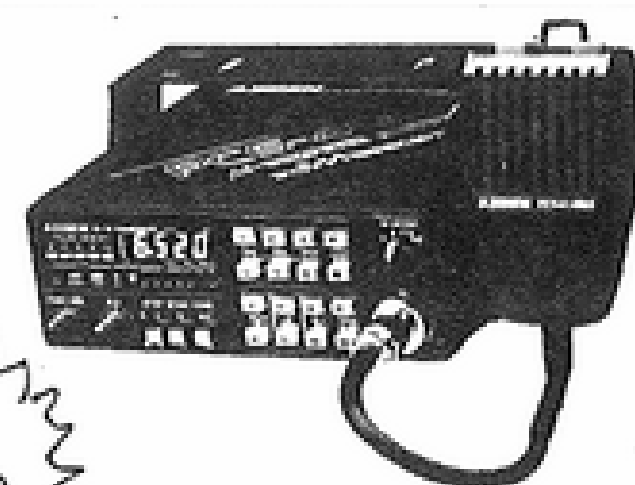
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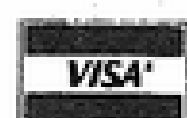
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1 AERONAUTICAL CENTER ARC
MEETS: 8:00 pm First Friday at Flight Standards Bldg., FAA Aeronautical Center
PR AA00 Robby Runyon 373-1818
VP N5ABL Holly Holcomb 799-2539
Se WB5UHW Jim Seignious 751-6698
Tr K5RJR Larry Vorheis 789-9629
EDITOR: Jim Seignious, WB5UHW 751-6698

2 OKLAHOMA CENTRAL VHF CLUB
MEETS: 8:00 pm Third Friday, Red Cross Bldg., 10th & Hudson, Okla City
PR W5VCJ "Steve" Stevens 341-8486
VP WD5IRB Ralph Bartow 521-8330
Se K5JB Joe Buswell 732-0676
Tr W5KE Ellard Foster 789-6702
EDITOR: Joe Buswell, K5JB 732-0676

3 MID-OKLAHOMA REPEATER, Inc.
MEETS: 8:00 pm First Tuesday, Okla City EOC, 4600 N Eastern
PR KC5HD John Clement 943-2467
VP W5HPR Don McDown 732-6749
Se KA5ERZ Connie Boland 348-0123
Tr W5K0Z Sid Gerber 737-1050
EDITOR: Susie Atkinson, KA5FED 842-8014

4 OKLAHOMA CITY AUTOPATCH ASSOCIATION
MEETS: 7:30 pm Third Tuesday, Okla City Fire Dept Training Center, N. Portland
Pr N5IH Henry Israel 722-3848
VP K2GKK D. C. Macdonald 672-4947
Se WB5NDO Kathy Whited 799-1457
Tr K5GL Guy Liebmann 787-9545
EDITOR: "Mac" Macdonald, K2GKK 672-4947

5 OKLAHOMA UNIVERSITY AMATEUR RADIO CLUB
MEETS: 7:00 pm Second Tuesday(Sep-May)
119 Wilson Center, 1334 S Jenkins
PR KA5CQI Peter Richeson 329-3217
VP KA5LZN Greg Smith 325-2418
S/T WA2YCA Mike North 325-5731
EDITOR: Greg Smith, KA5LZN 325-2418

6 ALTUS AREA AMATEUR RADIO ASSOCIATION
MEETS: 7:30 pm Second Thursday
North Main Fire Station (CD)
PR WB5MJS Charles Smith 477-1098
VP
S/T WA5CBF Loren Simms 477-0921
EDITOR: Loren Simms, WA5CBF 477-0921

7 BICENTENNIAL (76'ers) ARC
MEETS: 7:00 pm Second Tuesday, Air National Guard, Will Rogers Airport.
PR N5BEQ Jim Buswell 236-0368
VP
Se N5AUH Jerry Sproul 354-2061
Tr WA5RAQ Bill Rogers 632-4375
EDITOR: Bruce Goff, KC5CR 751-6276

9 WHEATSTRAW AMATEUR RADIO CLUB
MEETS: 2:30 pm Second Sunday. Location varies. See club section for location.
PR WA5GLD Dick Ruhl(Kingfisher) 375-4843
VP KA5FUU Tom Johnson(ElReno) 262-5631
S/T WA5PFK Ralph Wilder(Watonga) 623-4521
EDITOR: Ted Vanlaningham(ElReno) 262-1675

12 SHAWNEE AMATEUR RADIO CLUB
MEETS: 8:00 pm Second & Fourth Tuesday
Shawnee City Hall (EOC)
PR WB5ZBA Earl Couch 598-3212
VP WD5ETD Rick Wilson
S/T KA5FBC Jim Sullivan 273-3843
EDITOR:

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13 KAY COUNTY AMATEUR RADIO CLUB
MEETS: 7:00 pm Third Thursday at EOC
Ponca City
PR WA5UB0 Marsh Pronneke 363-2526
VP WB5NQT Pat Burnham 765-7229
S/T WB5YRN Delbert Foiles 762-4479
EDITOR: Marsh Pronneke, WA5UB0 363-2526

15 SOUTH CANADIAN AMATEUR RADIO SOCIETY
MEETS: 9:30 am Second Saturday, Red Cross Bldg., North Campus, Norman OK
PR KU5B Jack Bickham 329-1311
VP K5KDR Bill Oliver 329-6333
Se AF5X Jess McKinzie 329-1543
Tr WB5UUX Charles McCown 321-1061
EDITOR: Sam Barrett, WA5RPP 321-2601

16 EDMOND AMATEUR RADIO CLUB
MEETS: 7:00 pm First Thursday. See club section for location and type.
PR WD5DYI Mark Northcutt 755-4672
VP WB5MLX Glen Cochran 942-7148
S/T WB5UIY Stan Van Nort N/L
EDITOR: Stan Van Nort, WB5UIY N/L

17 TRI-CITY AMATEUR RADIO CLUB
MEETS: 7:00 pm First Tuesday, Location varies. See club section.
PR WB5UBB John Warriner 379-3149
VP WB5VLT J. B. Bills 379-3992
S/T WB5TYW Yvonne Warriner 379-3500
EDITOR: Yvonne Warriner, WB5TYW 379-3500

18 GREAT PLAINS AMATEUR RADIO CLUB
MEETS: 7:30 pm First Tuesday, Basement Woodward Court House.
PR N5CCV Gerald Bowman 994-5381
VP WB0PGD Ron Tice 994-2138
Se WB0QGW Carla Tice 994-2138
Tr N5EOY Gerry Ford 256-5342
EDITOR: Carla Tice, WB0QGW 994-2138

19 SOUTHEAST OKLA AMATEUR RADIO ASSN.
MEETS: 7:30 pm Second Monday. Location varies. Contact a club officer.
PR WB5TTU Ron Henson 326-5418
VP WB5ULI George Weldon 326-5672
S/T WD5FUE Orville Kaley 326-3650
EDITOR: Ron Henson, WB5TTU 326-5418

20 ARDMORE AMATEUR RADIO CLUB
MEETS: 8:00 pm First Wed. Red Cross Bldg Informal, 8:00 pm other Weds. 221 9th NW
PR W5HJ Tom Banks 226-3350
VP WB5VBK Fred Innis 223-1709
Tr W5BLW Charles Dibrell 226-0589
Se WA5YOM Tim Vandagriff 223-3582
EDITOR: John Merlyn, WD5FZD 223-9543

MANAGING EDITOR:
Joe Harding, WA5ZNF Phone 737-1044
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Bob Graham, WB5NSV Phone 677-8685
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CORA, PO Box 15013, Del City OK 73155

CENTRAL OKLAHOMA RADIO AMATEURS, Inc.
MEETS: 7:30 pm Fourth Tuesday (Except Dec.) Red Cross, Oklahoma City
PR WD5JNT Ted Vanlaningham 262-1675
VP K2GKK D. C. Macdonald 672-4947
Se N5BEQ Jin Buswell 236-0368
Tr K5GGL George Maschino 263-7614

The police department also requested that the volunteer radio operators keep an eye open for safety hazards, midway con artists, and other criminal activity. Radio was also used to notify the medics for injuries and other medical assistance.

At this writing it is too early to give an accurate count of the number of amateur and CB volunteers who participated in Operation Watchdog, or of the amount of service we rendered. But a good guess is that more than a hundred hams will have assisted throughout the 10-day fair.

Art Roberts indicates he has learned a lot from the experience, and that some rough spots had to be ironed out the hard way. But experience is a good teacher, and next time things should run much smoother.

And there will probably be a next time, according to Lt. Edwards. His preliminary assessment is that amateur and CB radio did contribute to greater security and better communications throughout the fairgrounds. He also indicated that he would like to see Operation Watchdog continued at subsequent fairs.

So, once again amateur radio has operated in the public interest. We didn't do anything special, but sure had a lot of fun doing it. Next year we'll see you at the fair.

Stew, KD5DL

TERRY FOX RUN:

Tinker AFB hosted a Terry Fox run on Sunday, September 19th. The run, which solicits funds for cancer research, is named in honor of Terry Fox, a Canadian cancer victim whose goal was to run across the full length of his country. His race was cut short when cancer required that amputation of one of his legs. Still, outfitted with an artificial limb, he continued his run until cancer finally claimed his life.

The Tinker run was a course ten kilometers long. Each runner asked for donations as a "bet" he could finish the course, as there were no winners or time limits. In fact, some runners walked, and one was pulled across the finish line by his poodle.

Three amateurs provided communications between the checkpoints. Tom Webb, WA9AFM, Rich Rice, N5DAC, and I were equally divided along the route. We kept in touch via simplex, but also had autopatch capability if it were needed.

Organizers of the run said they originally expected about \$500 from the limited run. The final tally was closer to \$2800!

Stew, KD5DL



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Shawnee Amateur Radio Club



WSSXA

The Shawnee Amateur Radio Club has finished "Operation New Repeater". The club can be proud of the new machine. All the membership has supported this project with their time and money. The club has never worked together better than they have on this project. The repeater is a Motorola with duplexers, hard line and a DB224 antenna. The antenna is at 200 feet. The machine is controlled with a 440 link and has an auto patch which is closed, but visitors to our area are welcome to use the patch. Any one of the members will be glad to bring up the patch for out of town visitors. The machine is on 146.31-91. Try it - you'll like it.

A big thank you goes to the city of Shawnee and the other outside help that we have had on the project. Ron, KA5CAY has been our link with local city government.

Mrs. Gaines is working to set up an amateur station in her science class at Bethel school. She will be needing our support in this project.

Jay, KD5NX and Gene, WA5LAE are out of state attending job related schooling. KD5NX is a new call for Jay.

Jim, KA5FBC has moved to a new house. Jim Miller, WA5BVW has been in the hospital. Carl, K50QD has also spent some time in the hospital. Both are doing fine.

Carl, W5CEP is back in the state. Welcome back Carl!

The Shawnee newspaper has given local Amateur Radio some good coverage lately.

Ron, WD5CIG and Walt, KA5FIT have recently bought computer systems.

Fall will be upon us soon and we will need a good club project. How about a novice and general class?

The S.E.T. will be next month. Everyone needs to polish up their equipment and operation procedures for the big day in October.

Best wishes and speedy recovery goes out from the club to Leonard, WA5FSN.

Bryan Davis, WA5RDG was elected to the Technical Committee last meeting.

The night of Sept 13 was just another reminder of the old saying "If you don't like the weather in Oklahoma - wait a minute." Two separate funnel clouds were spotted over Shawnee. The amateurs did an excellent job of early warning.

Be nice to one another!

Earl Couch, WB5ZBA

BICENTENNIAL AMATEUR RADIO CLUB

"To Promote Radio Communications"

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SEPTEMBER MINUTES

1. Meeting called to order by Pres. Boswell at 7:20.
2. Sec. Report: Accepted as published in C & E.
3. Treas. Report: Submitted written report in absence.
4. Repeater Report: Dick collected \$220 on microwave gear.
5. C.O.R.A. Report: By Ted WD5JNT. Reflections on Ham Holiday '82, suggestions for improvements. Need to elect new CORA Reps.
6. WIGOM gave report about State Fair Patrol (Watch Dog). Meeting 7:30, Wed., September 22 at OSU Tech. to organize. Hams, React and scouts will participate. Art passed out sign-up sheet.
7. Old Business: Amendment to Para. 4 of Bylaws was read. Motion made to adopt by Ted WD5JNT; Motion carried. Dues now \$6.00 per year.
8. New Business: CORA Reps; Ask for volunteer for reps: Bruce KC5CR, Dale WB5VBE, Jim N5BFD.
9. John Galway asked for volunteers for the Terry Fox Fun Run.
10. Nomination Committee for '83 officers: Dick Baker volunteered, also old officers, John Galway.
11. Ken Burdick reported on facilities. We may have a problem with new management. Granada Mobile Village was suggested for new place. Art will check on Fire Dept. Training Center.
12. Ken suggested we buy our own coffee pot. Motion made, seconded, and carried with 2 opposing.
13. Dick wants everyone to keep lookout for tower for repeater. John Galway suggested we write Tinker AFB for some surplus tower. John will check on who to send request to.
14. Meeting adjourned.

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Club
NEWS

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MINUTES OF SEPT MEETING

Meeting was called to order at 8:03 PM by President Steve, W5VCJ, with 9 members present. Treasurer, Ellard, W5KE, gave the treasurer's report and the group applauded the rare presence of the Secretary. Steve gave an accounting of the Reunion collection and expenses. The small amount of money remaining was turned over to the Treasurer for the general fund.

Steve gave a recap of the adventures of putting the party together; Ben, K5IRO's work on the signs and the unfortunate sudden illness of his father.

Just a reminder: Ellard, W5KE, Paul, WA5HTL, and Fred, KA5CXW are CORA representatives for the club. Paul was given applause for his efforts in the ARRL booth at Ham Holiday.

Latest information was passed regarding Leonard, WA5FSN, and his medical mis-adventure. The club is wishing him best of luck and encouragement for a quick recovery.

Meeting was adjourned at 8:30 PM. Joe, K5JB

AMATEURS GET EVEN WITH PHONE COMPANY

Jim, K5VRL, sent the report regarding the Sept 12 fire in the frame room of the Southwestern Bell Lawton office and outlined the efforts of Amateur radio operators there, in Altus and in Oklahoma City in covering the communication emergency.

More than 50% of the phone service in Lawton was disrupted by the fire. To restore emergency communications, the Oklahoma state EOC was activated. Jim went to the EOC and first established contact on two meters with WD5DTX, Norm, in Duncan, who in turn, alerted Altus and Lawton to go to 7280 kHz for the net established there.

Though no emergency traffic was actually passed, the network was in place and operating in case it was needed. The very able technician working on the switchgear was able to keep at least one line open to the EOC. After one hour the net was no longer needed and was secured. Taking part in the exercise were: WD5DTX, Norm in Duncan; W5VXU, Mike in Altus; WB5KRH, Dwight in the Altus EOC; WD5HQM, Dick in Lawton; K5VRL, Jim in the Okla State EOC; W5REC, Ray in Enid and Mark Brown, WB5YTO, who offered his 146.4 simplex autopatch, if needed. Tnx to Jim, K5VRL for the report...

...OUT OF JB's JUNK BOX

Well, I thought by this time I would have something worthwhile to tell about my experience with Apple computers, but not so. I have spent most of my time getting whipped by their stupid 'integer' BASIC. After becoming completely whipped by the rinky dink string handling of the language, I fell back and regrouped, got out the old MOS Technology handbooks and started writing my stuff in machine language. One of these days I'm going to get that language card...

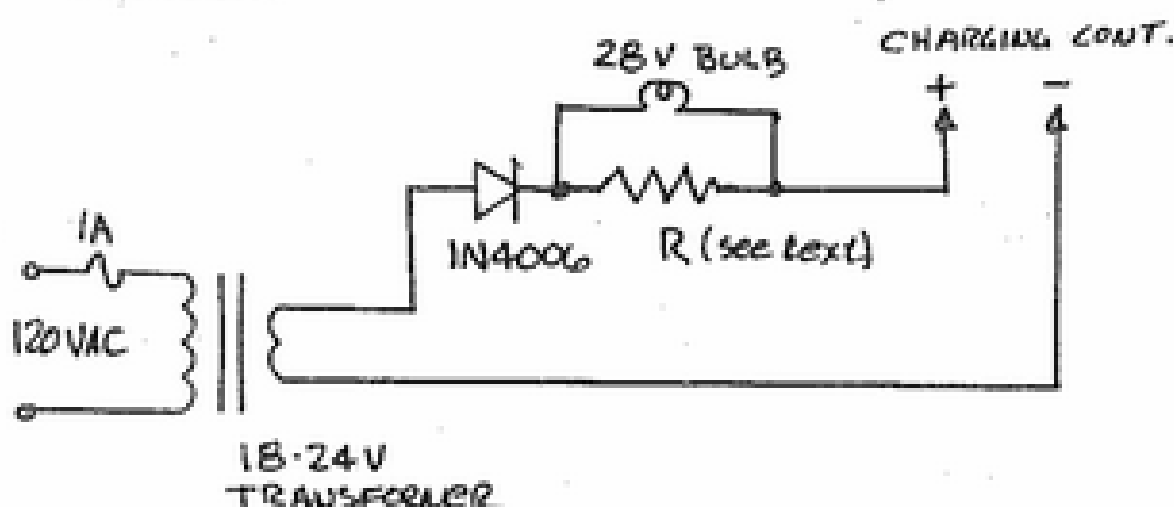
Anyway all this is to introduce the column for the month which is going to deal with falling back and regrouping on the art of home brew. ...the radio, not the drinking kind...

Again I got my inspiration from Lloyd, KC5FM, who was looking for a charger for his Motorola Handie Talkie™. I thought over the many simple chargers I have made and thought a quick review of the various designs might be useful to someone.

I wasn't planning on covering the more exotic multi-rate chargers, though I might, if I don't run out of time or paper first.

The most basic charger circuit for ni-cad batteries consists of a more or less constant current source that will charge the things at what is called the ten hour charge rate. It is really the 14 to 16 hour charge rate, because that's how long it takes, because of inefficiency of the conversion from electrical to chemical energy. If you see 450 mAh marked somewhere on the battery, it means that it has a capacity of 45 mA for ten hours. It happens that this same current can be used for charging the thing, and it can be left on indefinitely without doing any harm to the thing (Indefinitely is a long time. I personally define Indefinitely as several days.)

If a certain element of risk can be assumed, ni-cad batteries can be charged at a much higher rate. It is actually pretty safe to charge them in four or five hours if you think they are pretty well run down when you start. Anyway, the purpose of this article was not to discuss the fancy charge circuits but just get off ground floor and cover some simple chargers and mechanical details of their construction.



Basic charge circuit

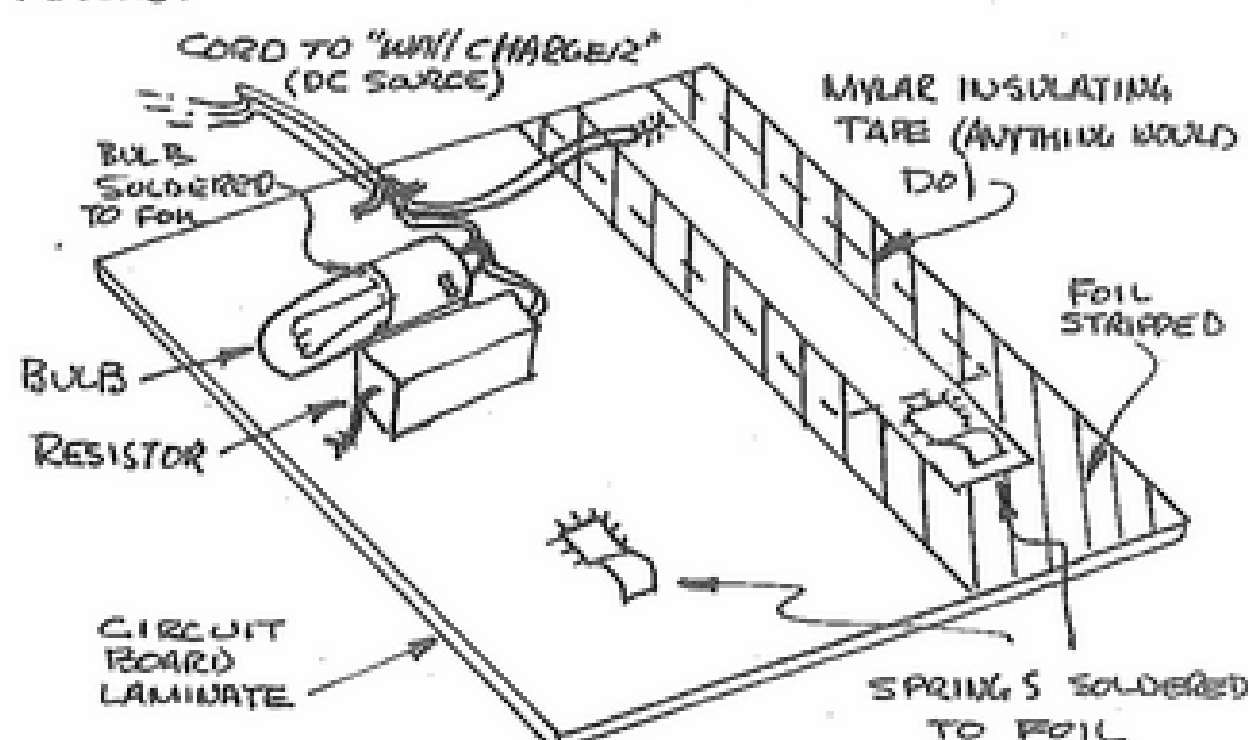
Starting with the basic charger circuit shown, the charge current can be adjusted by juggling values of resistors and light bulbs to get the desired rate. The transformer should have high enough voltage to permit a lot of voltage drop across the resistor. This causes the current to be nearly constant, regardless of the terminal voltage of the battery. a "12 volt" walkie talkie may run with from 9 to 16 volts depending on the design. It is quite practical to make a charger stand that will handle various types of radios, even if they have quite different battery capacity. In the circuit shown, there is only one diode, meaning the charging current is only half wave rectified. It is ok to full wave rectify the thing, in fact, if you intend to operate the radio in the stand, I would recommend it... and filter it while you're at it, so you don't have to listen to any hum when the thing is talking.

I find it is a good idea to pick a light bulb that has high enough voltage to withstand a short circuit across the battery charging contacts because that's going to happen eventually. If you are using a 24 volt transformer and a 28 volt bulb, like a 1829, you will never have a problem. The reason for the bulb is simple. It assures you that the battery is actually charging.

Now lets get down to the mechanical details.

A charging stand can be simple or elaborate. The simple ones are sometimes the best because they don't take long to build. I think the simplest one I have is one that is made out of a piece of circuit board and is shown on the next page. The thing that made it possible to be so simple was the wall mounted transformer I found in a flea market somewhere for a couple of bucks. The thing was capable of charging a 15 volt battery at 450 ma when the light bulb and resistor was shorted out so I used it to give my Motorola batteries a

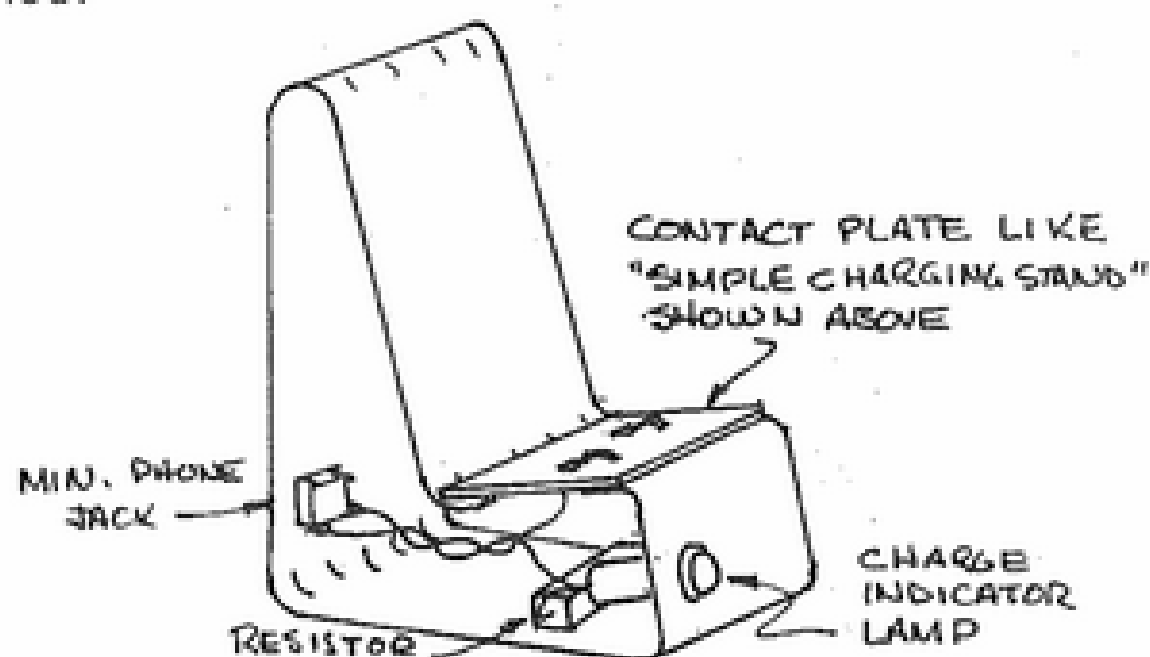
"quick charge" in the evenings, while out on the road. I mounted a tiny switch on the thing to short out the bulb, but I left it out of the sketch, for clarity. The resistor needs to be high enough wattage to not over-heat. Figure the voltage drop times the current and use a resistor of twice that wattage rating.



Simple charging stand

The foil was peeled loose where it wasn't wanted by scoring the boundaries with a knife, working the blade under the foil at an edge, and grabbing it with a fine bladed slim nose pliers. If you are careful it will come off in one piece. If you are unlucky and tear it, just dig up an edge and try again. The springs came out of an old relay and appeared to be beryllium-copper which is excellent spring material and easily soldered. I'm sure brass shim stock would work OK, though it wouldn't be as springy.

The next level of sophistication is shown in the next figure. I got an artistic flair one day and decided to make a charging stand for my Genave walkie talkie, which in it's day was quite a modern little radio. The only difference this charging stand has from the first is that it looks a little more complete. The part of the thing that has the charging contacts is just like the first stand, circuit board material, and all, so it is not shown in much detail in the sketch. Again, I used the wall mounted charger idea, but this time I put a little phone jack in the stand so the charger wouldn't be perminately attached.



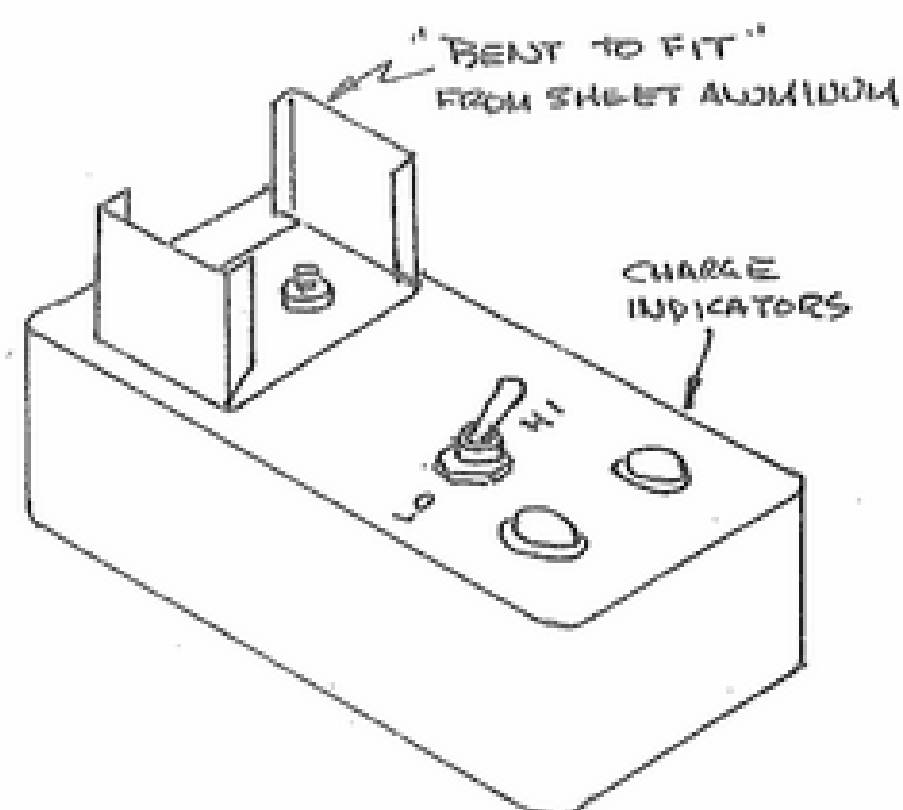
Fancier Stand

There was enough room inside the thing to put a transformer and rectifier, but I never got around to it. One of the reasons for the shape of the stand was that it was simple to bend the aluminum. It didn't hurt that the radio was a little more stable leaning back on the stand.

I am actually going backwards in charging stand evolution at my house. As I get older, I find myself getting lazier. The next stand I will describe is the first one I ever built and it was for a 2-meter Motorola Handie-Talkie™ (HT-200, that is). Those things were heavy and required a more substantial stand or there was serious risk of breaking the floor if one fell on it.

This stand was built using a plastic utility box like one finds at Radio Shack. the one

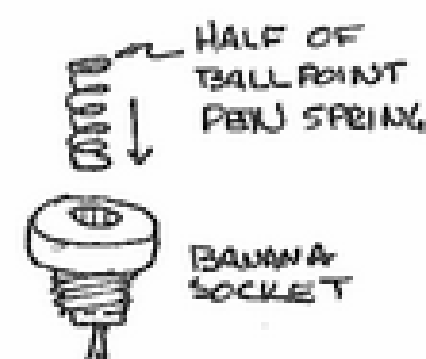
I used had an aluminum cover but a plastic cover would have been fine. This thing was built before I found out how cheap a charging sleeve would be in a flea market. Since its original design was for a pretty big radio it has been adaptable to several different radios since.



Fanciest stand

There is nothing particularly clever about the stand or the sheet metal work, but I thought the charging contacts were cute so I thought I might as well include it.

It is hard to make a big sketch of a charging contact so I'll squeeze the text up a little bit. As you can see, the basis for this charging contact is a banana socket, which happens to be about the right size to poke a spring from a ball point pen inside. To be more exact, half a spring, as one was cut in two to make two charging contacts. It just didn't look right to have a bare spring for a charging contact, I put a dot of solder on the top. I guess I thought it ought look like a flashlight bulb contact. I don't think lead is particularly good as a contact material, but it never seemed to complain.



Charger contact

There is no reason why a charger can't be made to work for two different types of radios by putting more than one set of contacts in the thing. The only considerations are whether there might be a short circuit with one radio or the other, and whether the batteries need different charge rates or voltages. As already noted, a constant current source can handle a wide range of voltages. If the batteries have different capacities, separate current limiting resistors, and even different light bulbs can be included for each radio. The bases of the radios may be of such a design that the charge contacts for one are located near non-conducting parts on the other. In my case, I was fortunate and could take advantage of the plastic cases being non conductive. On a pager, however, I had to add a little piece of mylar tape to the thing.

By the way, I don't remember mentioning it before but mylar tape makes about the most useful insulating material I have found. It is tough and has good insulating properties. The particular stuff I found is called book tape and is made by 3M. I found it in an office supply store. It has been valuable in insulating in close quarters of walkie talkies and is tough enough to resist ordinary abuse from cramming too many things in a small box. It can be cut by the sharp end of a cut-off wire stub but it is more resistant than most tapes. It has good adhesive properties, good enough to use as a protective film for things that are carried in a wallet. It certainly stands up in applications like the one shown in the first figure.

Joe, K5JB



MINUTES OF ACARC 3 SEP 82 MEETING

The meeting was called to order at 8:03 pm by the president, Robbie, AA00 with 37 members and guests present.

In the absence of the secretary these notes were taken by Joe, WA5ZNF.

OLD BUSINESS: The fall antenna party has been delayed until after the October meeting. We have a full set of prints for the tower installation so when we get around to making changes they will come in handy.

NEW BUSINESS: The CORA report was made by Holly, N5ABL. Last month's meeting was mostly a critique of Ham Holiday. Members were advised to see the September issue of C&E for a full report. CORA has written a letter to the OKC Council and Mayor asking for a solution to the parking problem at the Myriad.

CORA REPRESENTATIVES: The club reluctantly accepted the resignation of last year's reps and recognized their contributions W/Accolade: Hollis Holcomb, N5ABL, Frank Yohe, N5CIJ, Bob Pace, WA5CJG, Bob Graham, WB5NSV. Our new representatives are Don Rooker K5SJV, Harry Schoenhals WD5IDE, Bill Courtright KG6RH. The club's Ham Holiday Committee preference will be decided in the October meeting.

WATERMELLONS: The treasurer was asked to pay the VHF Club the \$11.08 we owe for our part of the watermelons consumed at the joint club feast last month.

440 REPEATER: We have access to an old tube type repeater at no cost. Robbie asked for comments and got (1) Let's go on a 440 repeater. (2) We need to use 220 or lose it. (3) There is little or no 440 equipment on the surplus market.

(4) 440 is being invaded by other services. (5) Guschke's is offering \$100 to the first club to install a 220 repeater. (6) Several members volunteered to help install and maintain the new repeater. Our present repeater is alive and well.

A motion was made by Holly, N5ABL to raise dues to \$5.00 for full or associate members and \$2.00 for Student Affiliates, to be effective on next renewal date. It was seconded by Bill, K5KDR and subsequently approved.

The smell of coffee perking and the aroma of doughnuts caused an adjournment at 9:01 pm. Joe Harding, WA5ZNF

FILE 0

What a pleasant surprise it was to see so many folks out for the September meeting. Given the facts that there was no planned program, and it was a holiday weekend, the head-count was excellent.

We did a fair amount of business at that meeting. A good discussion about a proposed club project to enter the UHF repeater world. Since 440 repeaters have "already been done", there were several good suggestions developed in support of a 220 machine effort of some kind, and maybe even a 220/440 link project. At any rate I detected a good base of support for a UHF project, and we will continue to develop the ideas and report on it from time-to-time.

Another area of discussion centered around the unavoidable fact of life called inflation, and wound up with a vote of the membership to raise the ACARC dues from \$3.00 to \$5.00 a year, and the affiliate membership from \$1.00 to \$2.00 per year. For those of you not already aware of it, we have three classes, of levels, of membership:

FULL MEMBER is open to all full-time, or retired employees of the Department of Transportation, holding any class of Amateur Radio license.

ASSOCIATE MEMBER is open to anyone holding any class of Amateur Radio license, regardless of employment.

AFFILIATE MEMBER is open to any DOT student in training at the Academy wishing to use the W5PAA station facilities without full membership in the local club.

The only difference between Full, and Associate membership is the voting privilege, and qualification for holding club office.

This is the season for CORA elections, and renewal of appointments of CORA representatives. In our case this year, our former CORA reps have requested some time off and declined reappointment. The time-off is well deserved. One of our very able reps left town. So a very grateful collective tip-of-the-hat to Frank N5CIJ, Bob WB5NSV, Holly N5ABL, and Bob WA5CJG for jobs well-done. For 1983 we will field a brand new CORA rep team consisting of Don Rooker K5SJV, Harry Schoenhals WD5IDE, and Bill Courtright KG6RH. These able troopers will represent ACARC this coming year with some initial help and guidance from Holly N5ABL for the transition.

There will be an antenna/station party called for sometime on October. W5PAA doesn't have any serious problems, just needs some "sprucing up" before winter sets in.

Thanx & 73 to all.

Rob AA00

FILE 0.1

The following article is from Worldradio, September 1982, and is reprinted with permission.

In our world of high-technology, and ultra-sophisticated voice and data communications systems, we often forget the very basics of things. NASA, who almost everyone acknowledges is a hi-tech outfit still recognizes the very real values of basic communications systems, and takes time to develop skills which some radio amateurs think are obsolete and unnecessary. Read on good friend...

CW in outer space

Nick Hauck, K6QPE

All radio operators learn it, Boy Scouts learn it; even the Armed Forces taught you a few letters, then tested your recall on their initial entrance aptitude test. And even the astronauts have to learn it.

During Scott Carpenter's training at the Control Center, NASA knew the success of the mission depended upon the communications of his voice and the way his reports were given. A NASA order said if an astronaut lost voice communications before orbit, the mission would abort and if it was lost after orbit, they could finish that particular orbit. The message was clear. Lost voice communications meant a lot of effort and money would be wasted.

Scott Carpenter felt differently about this NASA rule. He, along with the other astronauts, had learned and could use Morse code. One day inside the procedures trainer that NASA used to simulate space flight, the simulator crew wanted to see what would happen if all voice communications were cut off. Carpenter was not told and when the plug was pulled, he started using a hand key to pass his communications. He even sent word that the mission should be completed in spite of the communications failure. It was only a simulated test flight but these guys were taught for every emergency.

The simulator crew pulled the same thing on John Glenn. Without prior warning, he went to CW and continued to send all the necessary data. NASA now knew they had a backup communications system that had not been programmed.

It is doubtful that any astronauts objected to learning CW previously, even though they would not be using this mode. They knew code knowledge might save their lives.

ALTUS AREA
AMATEUR RADIO
ASSOCIATION

The Southwestern Oklahoma Amateur Radio Association met at 1930 hrs on September 9, 1982 at the North Main Fire Station. The meeting was presided over by Chuck Smith, WB5MJS. After a round of self-introductions of members and guests, a series of reports were made.

Loren Simms, WA5CHF, club Secretary-Treasurer gave a financial report. We have currently \$342.00 in our club treasury with no outstanding obligations except for the quarterly payment for CORA C & E coming up soon. Loren did announce that several members will have club dues due soon. Those members were: Don Hayes, WB5NRQ, 82-05; Bud Smith, WA5ZAR, 82-09; Charles Smith, WB5MJS, 82-08; James Molledahl, KB5LS, 82-09; and Joe Don Brown, WA5MCS, 82-06. Club dues are just \$8.00 per year which includes a subscription to C & E, a bargain to say the least.

Chuck called for a motion concerning the annual HAM-PEAST the club sponsors either in late September or early October of every year. A motion was made, seconded, and approved by those present to hold our annual bash at Lake Altus, Pavilion #1, Saturday, October 9 (the reserved time is from 1000 to 1500 hrs), 1982. The October 16, 1982 originally planned date was cancelled because the pavilion was unavailable, so we reserved the area for October 9 as a later date might run into weather problems. This year's menu will feature Hamburgers (what else!). The committee chosen (voluntarily and involuntarily) are Dennis, KA5KVU, Deanna, WB5UMH, Delayne, N5EST, and Chuck, WB5MJS. Several members offered help, notably Bill, KA6RTX and Mike, W5VXU. This year's chef will be none other than Chuck Smith considered in some circles an expert in his second hobby. What he does with Charcoal hamburgers and baked beans at past get-togethers are widely known.

The next topic at the club meeting was presented by Chuck concerning the December elections of President and Secretary-Treasurer for 1983. Both present office-holders feel it is now a good time to step down and give others an opportunity to serve your club. We have a great club going down here in Southwest Oklahoma. I hope all of us will give some consideration to this important matter.

Next Mike, W5VXU, asked a question concerning club activity in the up-coming S.E.T. in October. I think that Dwight Dennis, WB5KRH and Mike will be working on this important activity. We all need to lend them our support in this Section Emergency Test.

Chuck next reported on the activities of the Southwestern Oklahoma Repeater Association and the WR5ANX repeater. The repeater has been having some problems with thermal buildup especially on those late hot afternoons. Temperature sensing has been throttling back the power output when things get a little too hot up there. When it is hot, please use discretion when using the machine.

Chuck discussed the newest linking repeater (actually a remote base) located between our area of the state and Oklahoma City. A tower site has been located and path tests run. The equipment is being readied at the shop of Dan Osborne, WB5AFY. The transmitter has four selectable frequencies thru the proper control tones.

Gary Alexander, KA5MPK, reported on the activities of the Amarillo Hamfest. He said he was looking forward to the Wichita Falls Hamfest, the latter part of September. (September 25 & 26, 1982).

Mike, W5VXU, had several questions concerning the type of radio equipment (H.F. and V.H.F.) in the Red Cross Emergency Van. A discussion followed. Don Hayes, WB5NRQ, (one of the Red Cross Board of Directors) is in charge of that project.

Montie, K5HKW, of Stillwater, Oklahoma, told of some of the activities of that part of the state. He was the guest of Joe, W5CCV. We always welcome visitors to our club meetings. If the readers are in our corner of the state, please feel free to drop in on the 2nd. Thursday of every month at 1930 hrs in the basement of the North Main Fire Station.

Loren, WA5CHF, told the assembled group that there has been some H.F. activity on an informal net on 7260 KHz at 1300 hrs every Sunday. So far the check-ins include N5EST, N5AIP, WA5MCS, WA5CHF, N5AVU, and KA7IWQ. Needless to say it is a very informal net.

We have a new Ham in the area by the name of Phil, WA2JXD. Phil is a pilot stationed at Altus Air Force Base. He is active on 6 meters SSB. With Phil stationed here, maybe we will have a little more activity on that

band. Those who have 6 meter capability include KA6RTX, K9PNT, WA5CHF, and WB5AFY. Phil has PCS here since June. He is very interesting to talk to especially in discussing some of the places he has flown to.

We had 13 members and guests at our club meeting. They were: WB5MJS, Chuck; KA5MPK, Gary; K5KCJ, Frank; K7BSY, Shorty; KA5KVU, Dennis; WA2JXD, Phil; WA5PGV, Charles; KA6RTX, Bill; W5VXU, Mike; K5HKW, Montie; W5CCV Joe; N5EST, DELAYNE; and WA5CHF, Loren.

The next get-together is the cookout scheduled for October 9, 1982, Saturday, 1000 to 1500 hrs at Pavilion # 1, Quartz Mountain State Park. The next scheduled club meeting is 1930 hrs on October 14, 1982 at the Emergency Operations Center, North Main Fire Station. Everyone is welcome to attend. Please pass the word of these two meetings.

QRM, QRN, QSY, QRT, QSB, QTR

WB5KRH, Dwight, goes back to nite-school at WOSC (pronounced wu see) taking a small business course.

KA5MPK, Gary and family have literally a new addition to their home in addition to the new addition to their family. They are having a new family room and fireplace added.

WB5UMH, Deanna, is going back to nite school also at WOSC. Paul, WB5BRO, is going to be treated to all sorts of new sweets as Deanna is enrolled in cake decorating. Poor Paul is going to gain 10 pounds by the time the semester ends.

KA5KVU, Dennis, has a new 50 foot Rhon 25 G tower. We all want to know who had to climb it? (I should not say anything!).

WB5WMN, Janice, 's leisure time this summer came to and end as a new school year starts.

W5UVX, Les, has been on the lookout for another old car to restore and add to his collection.

K5KCJ, Frank, has set a new record: two club meeting attendance. One of those doesn't count because of the ice cream get-together.

KA5MPK, Gary, thinks he has been moved to Memphis, TN to work full time to instal all of the new equipment for a TV relay system.

WB5AFY, Dan, has the good life of expense paid vacations (combining business and pleasure) galloping all over the country.

WA5MCS, Joe Don, is getting some travelling experience in driving our Oklahoma roads. Even if he is a Texan, I is Seeing Oklahoma First.

WB5KRH, Dwight, the Civil Defense Director, has added some color as a needed improvement to the EOC. Painting has been the big project of Dwight and his helpers: KA5KVU, WB5BRO, and WB5UMH. The final color selection: a nice mild blue color. There is a rumor going around though about the three gallons of bright PINK paint selected at first.

The following article was written from material gathered from an old log book found at the EOC and an interview with Frank Martin, K5KCJ, on 3-23-82.

DO YOU REMEMBER WHEN OPERATING ON 2 METERS MEANT NOV AND AMPLITUDE MODULATION?

Yes, Novices had a phone band at one time- Two meter in addition to the lower three bands of 80M, 40M, and 15 (CW). If you do remember, then some of us might pass the rumor around that you are an "Old Timer".

Frank Martin, K5KCJ, related a story on the first two meter communications in the area. It seems everyone used two meter A.M. with the Heathkit "Lunchbox" as the most popular equipment. The frequency was 145.1 MHz or "the abouts". The antennas were horizontally polarized. Some of the operators back in the "AM Days" were: W2FIR/5 (W5UVX), Les Brown; K5KCJ, Frank Martin; WA5OGC, Olive Meeks; WA5ZNW, Ross Longley; WA5ZAR, Bud Smith; WA5MYF, Brownie Brownlow; N5OX, Jack Cox; K5LYM, Robert Parks; W5KLH, Roy Reece; K5ACR, Phil Zimmerman; K5SKB, "Doc" Holt; WA5TXG, Sherwood Harris; WB6MPN, Rick Van Landirham; and K5EKF.

Several weather watches were conducted on 2 meter AM between Feb. 1, 1970 and May 26, 1971. The latter date is significant because it marks the date the first 2 meter FM repeater (146.34-.94 MHz) became operational. This early day 2 meter FM repeater will be the topic of a later article for C & E. The two meter AM operators were probably active before Feb. 1, 1970, but the log book only contained information from that date.

To sum up, Those were the days!

Statement of Understanding Between the American Radio Relay League



and The American National Red Cross

Foreword

The American Radio Relay League, Inc., and The American National Red Cross have had cooperative statements of understanding since 1940. The original statement of understanding was updated in 1964 and again in 1974 by agreement between the two organizations.

The American Radio Relay League, Inc., (ARRL) is a noncommercial association of radio amateurs, bonded for the promotion of interest in amateur radio communication and experimentation, for the relaying of messages by radio, for the advancement of the radio art and of the public welfare, for the representation of the radio amateur in legislative matters, and for the maintenance of fraternalism and a high standard of conduct. A primary responsibility of the amateur radio service, as established by Part 97 of the Federal Communications Commission's regulations, is the rendition of public service communications for the general public, particularly in times of emergency when normal communications are not available. Using amateur radio operators in the amateur frequency bands, the ARRL has been in the forefront of this service, direct to the general public and through government and relief agencies, and continues to be so. To that end, in 1935, the ARRL organized the Amateur Radio Emergency Corps, now called the Amateur Radio Emergency Service (ARES), and in 1949, the ARRL created the National Traffic System (NTS). Together, ARES and NTS comprise the ARRL's public service field organization of volunteer radio amateurs.

Red Cross chapters are responsible for establishing, coordinating, and maintaining continuity of communications during disaster-relief operations whenever normal communications channels are disrupted or overloaded.

This document revises and updates previous statements of understanding and renews the status of close cooperation and coordination between the two organizations for the public benefit.

I. Purpose

The purpose of this document is to state the terms for an understanding between the American Radio Relay League, Inc., and The American National Red Cross that will serve as a broad framework within which volunteer personnel of the ARRL may coordinate their facilities and equipment with the Red Cross for communications in disaster relief, inclusive of any disaster except those caused by enemy action.

II. Definition of Disaster

A disaster is an occurrence such as hurricane, tornado, storm, flood, high water, wind-driven water, tidal wave, earthquake, drought, blizzard, pestilence, famine, fire, explosion, volcanic eruption, building collapse, commercial transportation wreck, or other situation that causes human suffering or creates human needs that the victims cannot alleviate without assistance.

III. Recognition

- The American Red Cross recognizes that the amateur radio service, because of its excellent geographical station coverage, can render valuable aid in maintaining the continuity of communications during disasters and emergencies when normal communications facilities are disrupted or overloaded.
- The American Radio Relay League recognizes the American Red Cross as the agency chartered by Congress through which the American people voluntarily extend assistance to individuals and families in need as a result of disasters.

IV. Authority of The American National Red Cross

By congressional charter, dated January 5, 1905, The

American National Red Cross is charged with the following responsibility:

To continue and carry on a system of national and international relief in time of peace and apply the same in mitigating the sufferings caused by pestilence, famine, fire, floods, and other great national calamities, and to devise and carry on measures for preventing the same.

V. Organization of the American Red Cross

The national headquarters of the American Red Cross is located in Washington, D.C. National headquarters is responsible for establishing and implementing policies and regulations that govern Red Cross activities and for providing administrative and technical supervision and guidance to chapters and national sector units.

The chapter is the local unit of the American Red Cross within its assigned territory, subject to the policies and regulations of the corporation. There are more than 3,000 chapters across the United States.

Each chapter is responsible for developing a special disaster preparedness and relief committee composed of the best-qualified volunteers available. This committee studies the disaster hazards of the territory and surveys local resources for personnel and for equipment and supplies, including transportation and emergency communication facilities, that are available for disaster relief. It also formulates cooperative plans and procedures with local governmental agencies and private organizations for carrying on relief operations should a disaster occur. Disaster Services at national headquarters coordinates the total resources of the organization for utilization wherever needed for large disasters.

VI. Organization of the American Radio Relay League

The American Radio Relay League is governed by a Board of Directors composed of 16 persons and elected by the membership. Its headquarters is located in Newington, Connecticut. Since 1914, the ARRL has been the standard-bearer in amateur radio affairs throughout the United States.

The ARRL has a field organization that covers the United States, including U.S. possessions and Puerto Rico, and Canada. This field organization is administered under elected section managers in 73 sections. (A section is an ARRL-created political boundary roughly equivalent to states and provinces or portions thereof.)

For local emergency communications, the ARRL sponsors the Amateur Radio Emergency Service (ARES), which is organized under local and district emergency coordinators and is directed in each section by a section emergency coordinator. Complementing the ARES is the National Traffic System (NTS), which functions daily in the handling of medium- and long-haul formal message traffic and whose network operations can be stepped up to meet the needs of an emergency situation. National Traffic System activities at the section level are supervised by a section traffic manager.

VII. Method of Cooperation

In order that the communications facilities of the ARES may be coordinated and utilized to the fullest advantage during disasters and emergencies, the American Red Cross and the American Radio Relay League have agreed to the following:

- Through its national headquarters in Newington, Connecticut, the American Radio Relay League will maintain liaison with Disaster Services at American Red Cross national headquarters in Washington, D.C., so that there may be the closest possible cooperation in emergency communications planning and in the coordination of amateur radio communications facilities for disaster relief operations.
- The American Red Cross welcomes the cooperation and assistance of the American Radio Relay

League, through its field organization, to extend emergency communications planning into the jurisdictions of the local chapters. Red Cross chapters may further this cooperation by requesting an American Radio Relay League emergency coordinator to serve as a Red Cross disaster volunteer, as appropriate, for emergency communications predisaster planning and during disaster emergencies.

- Whenever there is a disaster or an emergency requiring the use of amateur radio communications facilities, the Red Cross, through its local chapter or through the national sector, may request the assistance of the officials of the American Radio Relay League nearest the scene of disaster or emergency. This assistance may include—
 1. The alerting and mobilization of volunteer emergency communications personnel in accordance with a prearranged plan.
 2. The establishment and maintenance of fixed, mobile, and portable station emergency communications facilities for local radio coverage and point-to-point contact between Red Cross officials and locations, as required.
 3. Adequate provisions for maintaining continuity of communications for the duration of the emergency period or until normal communications channels are substantially restored.
- Detailed operating plans for the full utilization of

the communications facilities of the amateur radio service should be developed by the local Red Cross chapter in cooperation with the ARRL emergency coordinator.

- The American Red Cross will recommend to its chapters that membership on disaster preparedness and relief committees include representation from the appropriate officials of the American Radio Relay League.
- The Red Cross will furnish chapters copies of this statement of understanding and the American Radio Relay League will similarly furnish copies to its field officials.

This agreement is in force as of the date indicated below and shall remain in effect unless terminated by written notification from either party to the other.


July 13, 1982

George M. Elsey

George M. Elsey
President
The American National Red Cross

Victor C. Clark


Victor C. Clark
President
The American Radio Relay League, Inc.



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Operation Watchdog

As this issue goes to press, approximately 100 volunteer members of CORA are involved in OPERATION WATCHDOG, a public service project to provide extra eyes and ears for the Oklahoma City Police Department at the State Fair.

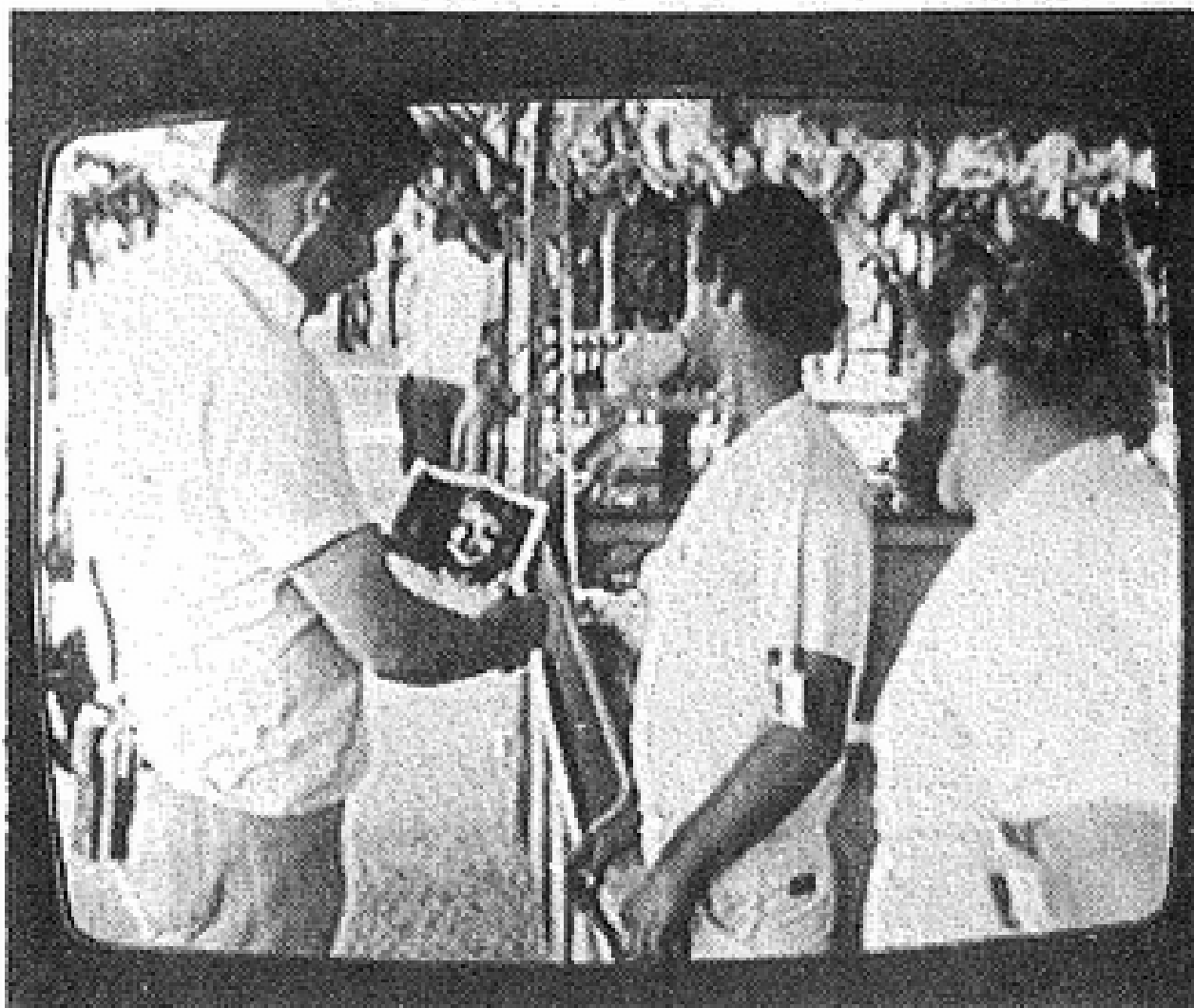
Operation Watchdog was hastily and expertly organized after the August CORA meeting by Art Roberts, W1GOM, who did a fine job of getting good publicity for the amateur radio service on local TV and radio stations. Art's assistants for Operation Watchdog were Fred Taylor, KA5CXW, and Jim Williams, K5VRL.

Besides the amateur radio operators, local members of REACT citizen's band emergency group and the Explorer Search and Rescue group provided safety communications. Amateur frequencies used were 146.94 (rpt), 146.52, 146.58, 444.3 (rpt), and 446.0. The REACT group used Ch 23 for calling and Ch 14 for working with Ch 9 monitored. The GMRS groups use 462.65 and 462.675.

Mobile operating headquarters van for the net control amateur station was provided by the Oklahoma City Fire Department (as well as coffee, cokes, and a place to SIT DOWN!) Thanks.

Lt. Edwards, of the juvenile division of the OCPD, said at the orientation meeting that he really appreciates the response of the hams and other volunteers. His instructions to us were primarily to roam freely on the fairgrounds and parking areas and listen to the net control for descriptions of lost children or whatever. He asked that spotters report all suspicious or dangerous activities without getting involved with any problems.

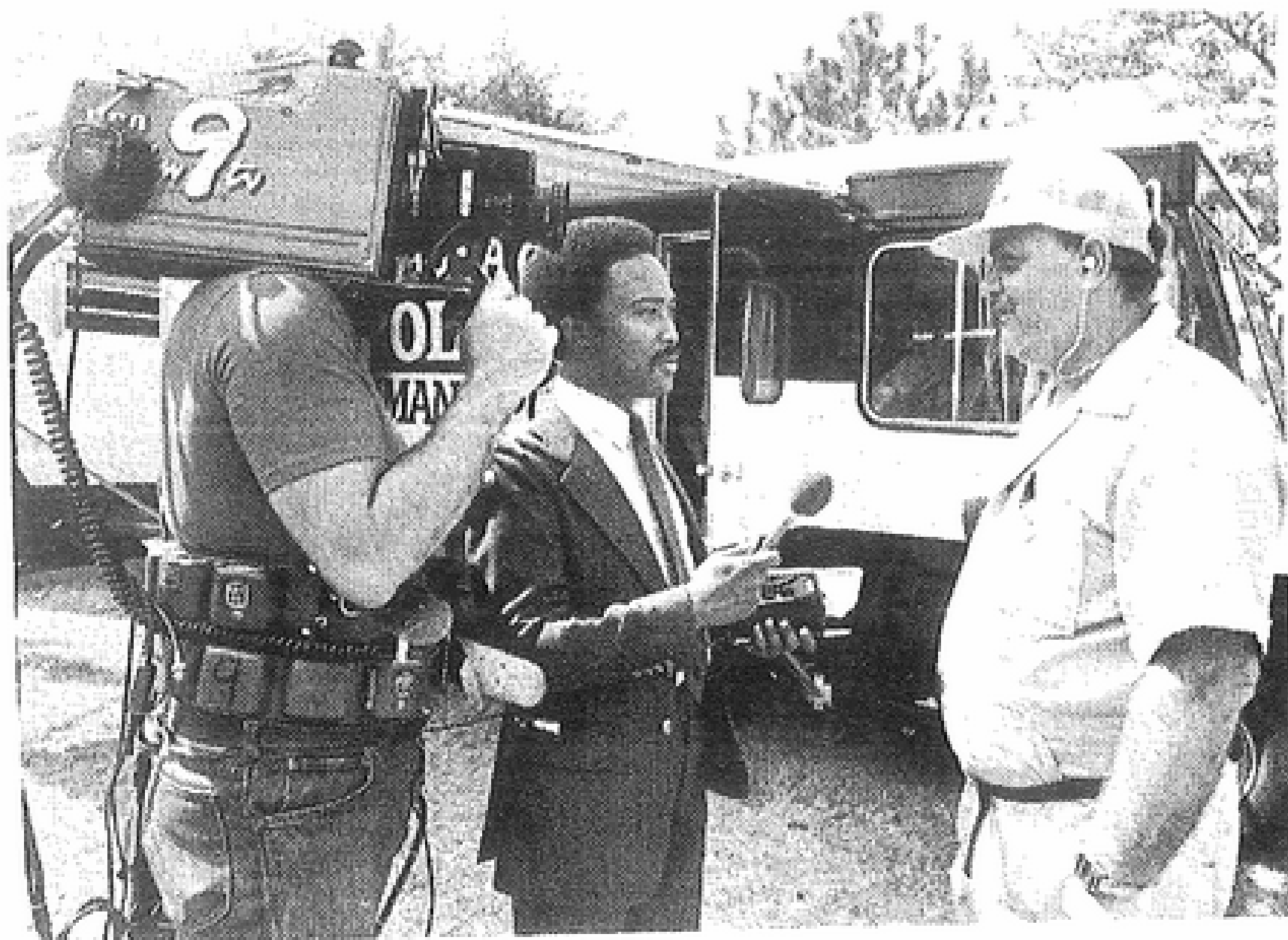
Operation Watchdog was a very satisfying project because it was a visibly needed service that received proper public recognition.



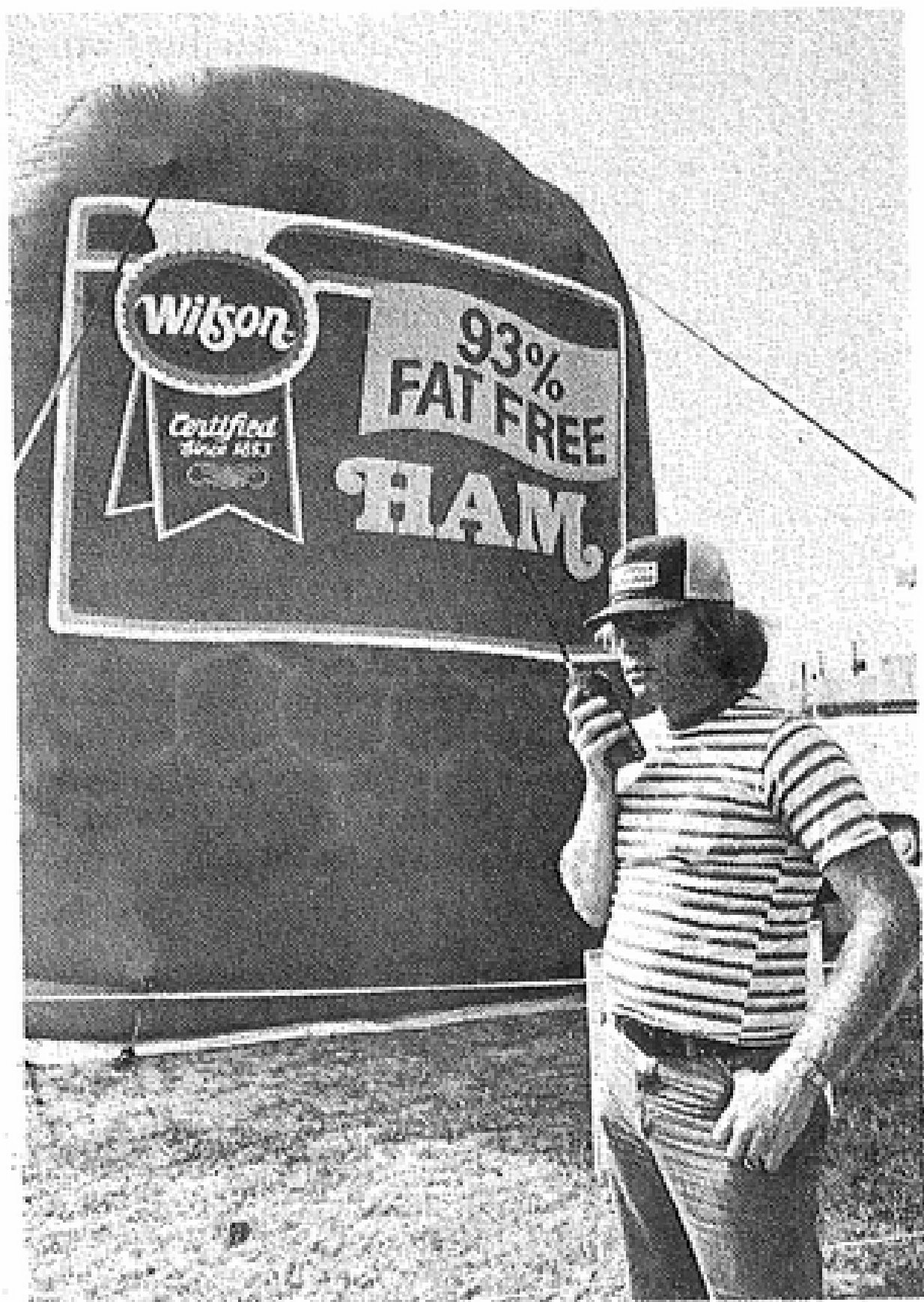
Our photographer, "Stew", KD5DL who is responsible for the pictures on these two pages and front cover was caught on a TV monitor as he queries two midway barkers about the two teenagers that disappeared from last year's fair. Amateurs, REACT & TV working together.



One way not to lose a kid....



Camerman Barry Zukerman and reporter Michael John of KWTU-TV interview Sid Rose, WA5TAR, about Operation Watchdog.



World's leanest ham, or just another Wilson's antenna design? At least the guys are non-resonant, according to Vern Douglas, K9JTW.



Some hams make the day a family affair. Jim Williams, K5VRL, and XYL Helen, spent several days patrolling the fairgrounds.

Salem

SATELLITE SHADOWS--DBS--Ku Band--Spacing

The TVRO (television receive only) satellite industry is apparently here to stay, but could get a shakeup in a couple of years or so because of the recent announcement by the FCC of the possibility of reduced satellite spacing in orbit. Bob Cooper W5KHT pioneered the use of small dishes for picking up the 3.7 to 4.2 Ghz downlinks and brought about a completely new industry where none previously existed. I remember attending the very first Satellite Seminar at South Oklahoma Junior College many years ago. Most of the people there just wanted to find out how to build satellite downlink receivers as a hobby. A few, with the proper commercial interest, wanted to go into the business of manufacturing and selling these devices. Many of them started as cottage industry "mom and pop" outfits and flourished while others have withered on the vine. The best indicator of competition in the field came in the way of price. At the time of the seminar, the cost of a receiver and antenna was just under \$5,000.00. The price is now under or pushing \$2,000.00 to \$2,500.00 for the typical system.

Cooper has gotten away with selling "how to build satellite receiver" for some time. Bob is a very unique character. It took someone with vision and thought to come up with the idea of first building a receiver, then drumming up the business by selling, not the receiver, but the information of how to build it. This in turn generated people who decided not to build receivers but instead turned to a commercial market. All in all, a cozy symbiotic relationship.

I used to chuckle at the discussion that occurred at that first seminar with regard to copyright and royalty. (I got copies of all of the programs on video tape after lugging my machine up there every day, this was before Bob learned that he could hold the rights to the video tapes and market copies of the tape himself instead of giving them away) Everybody was sitting there winking to themselves that nobody was going to violate anybody's copyright by watching those first run movies from the satellite. Funny, though, I remember signing a fairly ironclad agreement for nondisclosure when I first walked onto the grounds promising not to copy or duplicate any books distributed or tapes dubbed. No question that everybody understood the copyright laws and contractual protection issues there. Basically, it was no "copyright" violation to watch the satellite (on the theory that if you don't get caught, you don't owe anybody anything) but don't even consider making copies of the materials provided at the Satellite Seminar, otherwise, you would get sued. Well, there are double standard everywhere.

Actually, something was happening to the satellite programming quality as the price on TVRO receivers was dropping. It got worse in quality. HBO used to show some fairly decent movies. Now most of the stuff on the channel reeks. You only have to look at the TV schedule to know that HBO and Showtime take turns showing the same old claptrap. Some channels on the satellites have picked up, but for the most part, premium satellite channels are not anymore. Oh, Playboy has added a new dimension in that the naked girls actually walk and talk (walking could be OK, talking sometime is a disappointment) and this is all done without stomach staples. Satellite programming has gone the way of most commercial TV programming. It stinks. The only decent cultural channel that I have seen, CBS Cable (it is on the Norman Cable system) is planning on folding within 90 days because of massive losses.

Which brings me to one of the items that I have been thinking about. Coop pioneered the use of the 10 to 12 foot dish and found that it could be marginal, but workable. It was inevitable that the C Band electronics would come down in price. Dish fabrication and cost was a different story. Up to that time, satellite downlink receivers cost about \$100,000.00 apiece and use 20 to 25 foot dishes with very conservative design parameters. Coop started using 6 to 8 foot dishes with high dollar LNA's (Low Noise Amplifiers). This decrease in antenna size plus a consumer product approach to microwave receivers made the industry possible. But a recent fly has appeared in the ointment. In October of 1981, the FCC issued a Notice of Inquiry in which it proposed to reduce orbital spacing for C-Band Satellites from 4° to 2° because of the unprecedented demand for satellite services. What could be expected if additional satellites were plopped in on every other now existing slot? Probably total chaos. Interference would more than likely result with adjacent channel satellite spillover. Even the commercial operators like cable companies would suffer because they, like the TVRO buying public bought into Coop's antenna size. Actually, no one might really know what will happen because of the wide range of systems, feeds and receivers around, the problem could vary from minimal to hair pulling time. The 10 to 12 footer is marginal anyway. Bigger dishes may be needed.

The problem stems from the fact that as a practical matter, there are only two orbital segments generally useful to the U.S. domestic satellite business. 70 to 104 degrees longitude and 117 to 143 longitude. The central portion of the arc from 104 to 117 is being held for Canadian satellites because they have to look so far south anyway. The two segments provide approximately 15 slots open for satellites and these are all in use now or have been assigned for use within the next couple of years. In addition, the FCC has authorized the construction of four additional satellites for which orbital slots have not yet been designated. If the FCC does chose to reduce orbital spacing to just 3 degrees, then the four additional satellites will just barely squeeze in.

Of course, it becomes important for receivers and antennas to be able to adapt to close spacing. Most of the cable operators and other commercial users say they could handle 3 degree spacing, but that 2 degrees is just a little much. RCA says that they consider 3 degrees acceptable but on the threshold. This leaves those with the TVRO machines quivering a little. They really aren't suppose to be there anyway, so they really don't have a voice before the Commission. Two factors determine directivity of an antenna. Mechanical construction and design. Mechanical construction does include size. And of course, there is an almost direct effect between size and beamwidth, that is, the larger the antenna, the narrower its beam and the better its ability to avoid receiving unwanted signals. Similarly, the use of more sophisticated design techniques also increases the ability of an antenna to avoid the reception of unwanted signals. Unfortunately, both of these techniques make the antenna more expensive to produce.

Soooooo, what will happen? It is unknown for sure what the eventual outcome will be, but it is unlikely that the Commission will decrease spacing any time soon to 2 degrees as long as the cable industry has the large dollar investment that they do. The clamor for more satellites may mean that we will have 3 or even 2.8 degree spacing in the future. Three degrees is close to threshold with small diameter dishes. The persons who will surely benefit will be the antenna manufacturers who will get to sell an occasional bigger dish.

Another issue that is developing is the use of Ku-band communications satellites. At the Ku-Band, the down-

link frequency is 12 Ghz instead of the now current 4 Ghz downlink. If we compare C-Band (4 Ghz) and Ku - Band, there are some advantages:

C-Band Versus K-Band		
C AND K-BANDS		
	C-BAND	K-BAND
• DOWNLINK FREQUENCY	4 ghz	12 ghz
• DOWNLINK WAVELENGTH	7.5 cm	2.5 cm
C-BAND ADVANTAGES		
• PROVEN TECHNOLOGY		
• LARGE IN-PLACE PLANT		
• MINIMAL RAIN ATTENUATION		
• CHEAPER ELECTRONICS		
• GREATER MECHANICAL TOLERANCES		
K-BAND ADVANTAGES		
• DOES NOT SHARE MICROWAVE FREQUENCIES		
- NO REGULATORY LIMIT ON DOWNLINK POWER		
- NO INTERFERENCE FROM MICROWAVE SYSTEMS		

C Band electronics cost less and is a proven technology in the satellite service. It is affected very little by rainfall whereas K band signals can be completely swallowed up. C Band manufacturing plants are already in place and represent an investment of millions of dollars. Finally, C band antennas and waveguides can be manufactured to wider tolerances. I remember some early discussions that the antennas for TVRO had to have a surface tolerance along the lines of thousandths of an inch. Later work proved that just not to be true. Just about anything within working tolerance would work. This may not be true at K band. Ku -Band also does not share frequencies with the terrestrial service as does C-Band. Frequency coordination will be considerably easier. It is thought that in some circles that the cable industry will not benefit from a change to the Ku Band. More than likely the Ku Band will find some salvation with the Satellite Master Antenna Television service or SMATV. In this service, hotels, motels, hospitals and multi-unit residential dwellings would erect a K Band antenna on the premises to receive signals directly from the satellite. The degree to which SMATV can compete with CATV depends on a variety of factors including the size of the potential audience, copyright, regulatory, programming and a lot of other factors not related to technology.

SMATV antennas could be as small as 2 meters. This would be similar to proposed receiver antennas in the Direct Broadcast Service (DBS). DBS will also operate in the K-band with an expected downlink frequency in the 12.2 to 12.7 Ghz, just above the Ku-band communications satellite. The difference between DBS and Ku-Band satellites is mainly power. Ku-band satellites will have a power level of 20 to 30 watts, while the DBS spacecraft will employ 10 times this much power. The downlink signal will be further intensified by concentrating it in a particular geographical area, perhaps a single time zone. DBS spacecraft will be spaced further apart on the orbital arc--perhaps as much as 15 degrees. This will permit small antennas to be used without suffering from inter-satellite interference. Providing this much power will be costly for the programmer. The lease rate for a single channel on four satellites (one for each time zone) will be about \$75 million per year.

The antenna diameter for DBS antennas would be 2 or 3 feet and installed cost is expected to range from \$500 to \$700. The key factor is programming. The initial people who will be interested in DBS will be those who are not served by cable or other TV technology. The cost will be prohibitive to those already served by cable so only creative programming will wrestle the viewers away from present conventional

TV sources. It is expected that DBS will be a 12 channel system. RCA has made an application for a DBS system expected to cost about \$750 million. The audience potential for DBS will be about 15 to 20 million homes according to RCA. They expect their audience to be composed of people who have access to no TV or limited access to a variety of programming and hobbyists. It is possible that some cable systems will elect to buy DBS service and provide it on their cable systems much like RCA sells slots on their Satcoms now. More than likely, the service will be subscription.

One factor of concern in all of this is a point made by W5YI a couple of months ago. He was quoting a comment by an FCC official in the land mobile division that television sources have grown at the expense of need for land mobile radio frequency allocations and others. The Commission always seems to be able to find a frequency for the TV viewer, but the paucity of frequencies available for other services is clear. Start thinking of all the video channels that one has access to on a daily basis or in comparison to 5 or 10 years ago. With DBS, these allocations could reach over 50 quite easily and if you throw in a TVRO receiver you could easily push 100. There used to be only 3 television stations in the OKC market, now there are umpteen. And with the Commission considering applications for low power television stations, that number could grow even higher. Think of the competition and the programming costs. CBS Cable went down the tubes because of lack of advertising support. Advertisers may find it difficult to target an audience with them so widespread. The quality of television programming, as bad as it is now, could only get worse as a certain fixed amount of revenue is spread among more and more stations and programming ventures.

Of course, DBS may only prove to be a replacement for a television technology that already exists. That could be a problem considering the investment that most stations now have in equipment and personnel. What would the local stations do if NBC decides it will start simulcasting with DBS. As people began to convert to DBS, the local stations would gradually have their market eroded away. Cable TV was different. It helped the local stations because out of town viewers could now watch. It is true that there was some dilution because of the increased number of channels, but overall, it must have been a help.

Actually, there may be no change. Radio was suppose to eliminate records and tape was suppose to eliminate records, and it didn't. FM radio didn't wipe out AM and Cable TV did not cream commercial TV. I doubt that any change that DBS will bring about will occur so fast that local TV and the networks will not be able to see the handwriting on the wall. I suspect that there may be room enough for everybody. I just worry about the viability of programming these 100 + channels.

Micheal Salem N5MS

TOUCHTONE DECODER BOARD (Oops should be a Register TM in there some place) At long last, I hope to take delivery on some real live touchtone decoder boards sometime within the next couple of weeks. This will be the same board featured in the August issue of C & E with a few small changes. Those of you who have trouble getting the Mostek 5103 and AMI S3525A can let me know and I will try to help you round up whatever you need. I have ordered some and can get them for about \$41.50 a set. The Board will be double sided and plated through with a reflow solder mask and priced around \$25.00 apiece. The decoder works extremely well and has a readout. I only have a limited number of boards and may not order more unless there is a demand for the same. Right now

I am interested in getting back my investment on the boards and the prototype unit (which incidentally may be for sale for the cost of the parts and board). I have diddled with the decoder for some time now and it works very well. It would easily decode 10 digits a second. The display allows you to read the digit as it is being decoded. The display uses a BCD input and decoded a full 16 digits, but the code for * and # and A, B, C, & D is a little strange. Anybody still interested give me a call at 321-5453 or 360-1302 at your leisure.

Micheal Salem N5MS

W8JK (Alias THE BIG EAR) JOHN KRAUS

N5SW gave me a book to read the other day about somebody that I had heard about for a long time, but had never met. The book was THE BIG EAR by John Kraus W8JK. This gentleman is truly one of the pioneers of radio and should now be about 72 years old or so. The inventor of the 8JK antenna (naturally) the helical antenna, and the corner reflector antenna (a standard for UHF TV reception) apparently sat down in 1976 and wrote this book as a sort of memoirs of his amateur experience and life. From the time in 1920 that he built a galena crystal radio to pick up WWJ in Detroit through his exploits with a telegraph system in his back yard to a neighbors house to his experiments and later construction of "The Big Ear" Radio Astronomy telescope at Ohio State University, the story is one of continual searching and curiosity on the part of this most brilliant man.

Kraus not only built the mandatory crystal radio as a youngster, he developed a thriving business manufacturing and selling crystals as a kid. It only lasted for a year or so, just long enough for him to experiment with quartz and tourmaline as a quartz substitute. While at the University of Michigan at Ann Arbor, he helped a glider club along and began his studies toward eventually obtaining a Phd. In 1933 he read an article in the Proceedings of the IRE by Karl Jansky, the father of radio astronomy. Jansky was a radio engineer with the Bell Telephone Laboratories who had been assigned the problem of studying the direction of the arrival of thunderstorm static. If a predominant direction could be found, then Bell would be able to install antennas to take advantage of the phenomenon in the design of its transatlantic circuits. Jansky discovered noise from local thunderstorms, distant thunderstorms and a steady hissing type static of unknown origin. He noted that the direction of the hissing noise changed slowly, going almost completely around the compass in 24 hours. Jansky was able to show that the hissing noise came from the Milky Way. Thus began Kraus' lifelong interest in radio astronomy. His early attempts to hear sun noise were not too successful, but as he became more sophisticated and the quality of his equipment improved, he became more aware of the variety of noise sources in the sky.

Kraus' modesty is indicated by the short section in the book in which he described his invention of the corner reflector antenna. Its description occupies less than a page. His initial calculations demonstrated that it would be capable of about a 10 fold power increase. The first corner reflector was built to work at 5 meters. He later designed corner reflectors for higher frequencies in the 1 meter range. Yet here is an antenna that has been duplicated millions of times; for UHF TV reception.

Another project that Kraus was asked to help with involved a doctor who RF signals in a diathermy machine to treat severe colds involving sinus congestion. Remember, this was long before people became interested in the detrimental effects of nonionizing radiation. Not only did the doctor want Kraus to build him a machine for diathermy, he wanted him to do something that most of the other

machines of commercial manufacture lacked, an accurate calibration for power dosage. Doctors could only guess how much power they were using. Since the machine was designed to work on the head, Kraus built an artificial "head" out of a wooden box and filled it with about 8 inches of water. He then placed the head between the electrodes and turned the machine on. Since he knew the volume of water involved, the temperature rise and the time it took, the heat absorbed and hence the power dosage could be easily calculated. The only problem was that he could not get the water to readily absorb the heat, so he began to experiment with a variety of mixtures, but nothing seemed to work. Finally, he bought a loaf of big white bread, mixed it up with some water and put the gooey mess between the electrodes. It worked like a champ! Soon he had a calibration curve for dosage for the machine.

During the war Kraus worked with the Naval Laboratory on a variety of problems. One of these concerned a new design German mine that activated magnetically and was apparently quite effective in sinking several ships. Kraus began working on methods of defeating the mine since the magnetic sensors did not require actual contact with the boats, but only that they come close enough to measure the magnetic field. The solution was to actually wind large coils around the boats and "degauss" them by running current through the coils. This required working over every ship separately and developing current requirements. Since the ships would become magnetized because of their alignment in the earth's magnetic field, it became necessary to change the current flow everytime the ship changed course, a considerable amount of trouble, but not too bad since the method worked. The motto around the laboratory became "Degauss with Kraus."

Kraus' most interesting project (and the largest) involved the construction of the "Big Ear" a radio telescope that covered 20 acres, more or less, at Ohio State University. The "Ear" became one of the major radio telescopes facilities in the world. I hadn't realized the significance of radio astronomy before, but the source of radio noise helped the optical astronomers in determining where to aim their lenses. In many instances, the radio "sky" was very different from the optical sky.

I had the opportunity to talk with Dr. Kraus a couple of weeks ago by telephone. He is still active and in fact as he said has overcommitted his time by about 200%. He is involved in revisions and rewriting of his textbook on Electromagnetic Radiation (Kraus' book on Antennas is considered a classic in the field) and still actively spends much time with the radio telescope. Several years ago I got a complimentary copy of a magazine called "Cosmic Search" which involved the latest information on the search for extraterrestrial life. Kraus was listed as one of the editors. I didn't think to ask him about it, but in his book he makes a very persuasive argument just on numbers of the possibility of extraterrestrial life somewhere else in the Universe. Unlike the movie, Kraus draws no conclusions. In 1973, the Big Ear began a systematic program of Search for Extra-Terrestrial Intelligence (SETI). The difficulties of such a project are obvious.

over

Kraus probably has 100 scientific articles to his credit and several books and textbooks. W8JK is truly one of the bright lights in the amateur field. "The Big Ear" is a fascinating volume of the life and times of this brilliant man. One warning, don't read the book unless you have a scientific bent and an experimenter's mind. Kraus does not load it up with scientific detail, but his methodology is quite interesting and one experimenter is always interested in how another experimenter solves problems.

Micheal Salem N5MS

NEXT MEETING: 19 OCTOBER 1982

The October meeting of Oklahoma City Autopatch Association is set for Tuesday 19 October at 1930. Our regular site of the Fire Department Training Center in the 700 block of North Portland Avenue will be used. The entrance is in the rear. The program for the evening has not yet been confirmed but we expect George (AD1S) to set one up.

Our president, N5IH, has promised to try to shorten the business portion of our monthly meetings. The Executive Board meetings will (hopefully) be the sole time and place for long, drawn-out "discussions." Quite a few of us have heard comments from other members which expressed disinterest in meeting attendance because of the lengthy "discussions." Perhaps most people prefer to "let George do it." I guess we will find out in the coming months.

Our September meeting was very successful. We had many guests present for a slide presentation of the AD1S/N5DIM DX-pedition to the western Pacific Islands. George narrated the show with considerable help from Vicki. They spent some two and a half weeks travelling and operating in Western Carolines (KC6WS), Eastern Carolines (KC6WS), Saipan (AD1S/KH0), and Marshall Is. (KX6OS). Unfortunately, propagation to the States at that time was pretty stinko so not many of the locals were able to hear and work them. They managed to work over 8,000 QSOs altogether in spite of bad propagation, low power, and vertical antennas. I'm not sure, though, that Vicki will ever forgive George for making her sit through the huge pile-ups of JA operators on SSB. We all enjoyed the slides. I don't know if I should continue to complain about Oklahoma chuck-holes after I saw what other countries' roads were like. Many of us in the audience who have been in some of those islands in the quite distant past could hardly believe how much development there has been. All in all, a fine evening for all who attended. Thanks again, George and Vicki. The status reports from our technical committees are a bit of a mixed bag this month. The six meter system continues to percolate along. The UHF system sort of faded into the west after a recent storm, then mysteriously came back to life several days later. In fact, it works better after the self-healing than it did before! The intermittent problems with the VHF systems continue to cause pains in the neck for our maintenance team. We ALL hope the new connectors for the hard-line come in soon. Larry (WB5NYX) and Buddy (KA5AQY) have really been putting in a lot of hours so that the rest of us can continue to use the 82 and 21 systems.

As of this writing, The State Fair of Oklahoma has opened and Operation Watchdog seems to be going well. OCAPA's own Art Roberts (W1GOM) is the chairman and organizer of this public service effort. I understand that specific stories and pictures of this event are to be included in this issue. Make sure that you read it.

Why are we hearing so many poor quality audio signals on the systems lately? Don't blame the systems! It appears that the rising tide of mushy and distorted audio may lie in different microphone techniques and/or operating environments found in the land of Coors and Fords as opposed to those found in land of the rising sun. We Yanks must have bigger voices, shorter arms, and noisier houses and cars than the JA hams. The VHF and UHF FM transceivers now and past invariably need to have their microphone gain reduced to preclude high deviation on background noises and excessive clipping/deviation limiting on the desired voice signal. The fact that a piece of equipment came from the factory set up in a particular way does not absolve the operator from the responsibility to operate it in "accordance with good engineering practice." We hams are supposed to maintain higher quality signals than many I have heard recently. Take pride in your signal! It is a large part of your radio reputation.

Best regards until next month,

Mac, K2GKK/5



LEONARD HOLLAR, WA5FSN
SECTION COMMUNICATIONS MANAGER

I am writing this in between trips to the hospital and ahead of what I hope is the last one for a long time. By the time this goes to press, I will have had surgery (9/20) and sincerely hope they have found the 'Root' of the problem.

I am so very thankful for all of the Cards, Messages and other Get Well expressions. There is no way that I can ever thank Ray Miller, W5REC enough for all of the fine work that he has done in carrying on for me. I hope to be back in full swing by Oct. 1st.

One of the actions of the ARRL Board was the doing away with the long standing appointment of "Official VHF Station". The feeling seemed to be that it no longer served a useful purpose. Be that as it may, I do hope that our VHF DXers and Experimenters will continue to contribute to the "50mhz and Up column". Along those lines, I am informed that WD5EGB and KA5JLS are now holders of #s 742 and 743 W.A.S. Certificates. All done on 6 Meters. P.B.

I have sent letters to all of the former OVS appointment holders, inviting them to apply for one of the other appointments available through the SCM's office. Also, along that line, one of the requirements of holding an appointment in the C.D. of O.R.S.: O.B.S. or O.O. is regular reporting of Station Activities. In looking through my records, I find quite a few that I have not heard from in quite some time. Appropriate inquiries have been sent to these. In order that the files may be clarified and new Certificates issued shortly.

Looks like I will miss Wichita Falls Hamfest, but look out. Beaver, Oct. 10th and Texoma Hamarama Oct. 22-24th. C.U. there??

President Reagan signed the RFI Legislation into Law on Sept. 13th. This is a big boost for Amateur Radio.

Also, I was pleased to receive word today that Mr. Wangler and Mr. Comstock, our Director and Vice Director respectively have been declared reelected without opposition.

Oklahoma Net Report for August, 1982.

Net.	Sessions	QNI	QTC	WX
N.O.N.	31	544	117	
N.W.O.T.N.	13	201	13	
O.F.O.N.	21	208	51	
O.L.Z.	31	190	67	
O.T.W.N.	26	391	359	303
S.T.N.	26	397	119	
Q.C.W.A.	5	191	19	
O.P.E.N.	5	246	12	

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6-2

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The South Canadian Amateur Radio Society

SCARS' AFFILIATION WITH ARRL IS OFFICIAL

Five years ago as of mid-September, the South Canadian Amateur Radio Society got its start in a meeting at the Cleveland County Red Cross. Charter membership certificates are dated Sept. 24, 1977.

It was an anniversary celebration, then, when about half the SCARS membership and their spouses met for a dinner meeting early in the month. But the dinner at Furr's on Norman's Main Street was more; it marked the handing-over of the official certificate marking SCARS' affiliation with the ARRL. The affiliation was announced in QST for September, and Ray, W5REC, motored down all the way from Enid to hand the framed paper to club president KU5B.

In his remarks, Ray explained the advantages of ARRL affiliation. Thanks for working so hard to get the certificate in hand, Ray, and for being with us!

The dinner meeting marked the climax of two months of progress for SCARS. At an earlier meeting not yet reported, the membership voted to LOWER club dues, effective with the 1983 memberships.

The new dues structure is as follows:

FULL MEMBERSHIP..... \$12

(Includes repeater use)

ASSOCIATE MEMBERSHIP... \$6

(Full voting privileges and C&E)

Glenn, W5UAX, became the first member to renew for 1983, handing a club officer the cash to cover a full membership.

In other business, SCARS voted to store its new emergency alternator in the Red Cross storage area, pending Red Cross approval, and heard a treasurer's report showing \$630.25 in the new, consolidated checking account. It was noted in a lengthy discussion that the money will be useful soon; the 66/06 machine must be moved to the new police station, and is in bad shape. The club is looking for a new repeater to fit with its state-of-the-art duplexer and commercial-quality four-pole antenna.

The club heard a report from KU5B that his personal machine (KU5B/R, formerly WA5RPP/R) had been sold and moved to south Oklahoma City by its new operator. While in Norman, this machine operated on a coordinated frequency of 146.625/025.

Next SCARS business meeting will be October 9 at the Red Cross. Discussion of the annual Christmas party and naming of a nominating committee for 1984 officers will head the agenda. K5KDR is expected to chair that day, as KU5B plans to be in New York. With any luck, Secretary AF5X will be in town to assist, and WA5RPP will return to his much-appreciated duties as club reporter.

-- KU5B

ARDMORE

ARDMORE AMATEUR RADIO CLUB Community Service Since 1948

A small group met at the American Red Cross office for the official monthly business meeting the first Wed. of Sept.. When the chips are down this club is all business but it is sure hard to get a full contingent to a business meeting without "CHIPS", or something to eat. No such problem for our Saturday morning breakfast, Sept. 11th. Twenty six members enjoyed good fellowship, breakfast and gallons of coffee. A slide presentation by Charles Dibrell, W5BLW, of a trip on a narrow gauge railroad that ran through New Mexico and Colorado, was well received. We saw many colorful scenes. Everyone was ready to immediately take the same trip. Two new members were present, both have recently retired. LEO RYAN, KA5OMS and XYL Jean. JIM CHILCOAT W5JCX, who spent many years with the National Park Service. We welcome Leo, Jean and Jim.

Nine members assisted the local running club and the Red Cross in the "Sun Run" which kicked off the United Ways Fund Drive. Operators relayed time and information to the Finish Line on the location of runners on the three separate courses, provided a floating watch, which monitored runners and placed a operator with the mobile Red Cross, first aid team. Luckily assistance was only given to one runner who suffered leg cramps.

Plans were laid for a pot luck picnic to be held at Lake Murray, Sept. 26 th. @ 3:00pm chow down at 5:00. Attendance is always good at the picnics, for it is well known Amateur Radio Operators do like to eat.

Eight local Hams now have computers and are spending spare time hitting the books. The computers are being geared to RTTY, CW, SSTV and code practice. There may be several demodulator boards on the work benches. We are glad to hear that Cecil Shelton, K5OK, our old friend is recovering from a recent operation. In spite of the fact he lives in Okla. City, we still consider him a member of our local club. -73- John WD5FZD.

ZEDD'S RADIOSPORT TRIUMPH DOCUMENTED

NEWINGTON, CONN. (CNN) -- Official totals released here this week confirmed that Oklahoma's Q. R. ZEDD, only holder of an FCC one-by-one callsign, A5A, smashed all competition in the recent IARU Radiosport.

The official top 5, world, were listed as follows:

1. Q. R. Zedd, A5A, (US) -- Exact winning total withheld by judges "to protect other entrants from despair at seeing how soundly they were thrashed," according to the judging committee.

2. Boris Badenov, UA1AAA, (USSR) - A total of 22,341 contacts, which, with multipliers, gave a total of 2,777,341,897.65 points.

3. Bill Blast, AA7AAAA, (US) -- Total of 12,321 contacts, 1,547,880,202 points.

4. Phrrdx Kkkwqlzxc4q, T866XZ@, (A last-minute entrant from the planet Saturn) -- 12,221 contacts, 3,600,481 points.

5. Dingfod Armstrong, AAA5AAA, (US) -- 11,999 contacts, 3,589,770 points.

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9-2

THE WIT AND WISDOM OF THE GREAT Q.R. ZEDD

The opening of the football season brings to mind the fact that Oklahoma's premier DXer, the great Q.R. Zedd, was also a great sports star in his younger days, and remains today one of the most brilliant analytical minds in the sports world.

This should not surprise us. When you are great -- as Zedd himself is wont to remind his pals -- you are great.

"I predict that it is going to be a great season for the Sooners as well as for the Cowboys of Stillwater," Zedd, his booted feet propped up comfortably in the den of his home at Honor Roll Ranch, told us recently. "I expect OU to mop up on everybody and OSU to be close behind."

Zedd, who was an all-American in four college sports -- football, basketball, baseball and DXing -- made a number of cogent gridiron predictions, among them the following:

Oklahoma will change its offense, putting the ball in the air at least fifty times, ten or fifteen of these times on purpose.

Oklahoma State will back away from its plan to redshirt Pistol Pete, and Pete will be out there as usual.

Tom Osborne will figure out still another way to lose a couple of games (including Oklahoma, of course), and will write a book about it.

Texas will go 2-9 for the year, winning only over Oklahoma and the Little Sisters of the Poor.

Notre Dame will lose a game, starting a fan campaign to bring back Terry Brennan.

Ohio State will lose a game, starting a fan campaign to bring back Woody.

Northwestern will lose a game... and then another game... and then another game....

Sportswriters will write a lot about having college football playoffs again. This will give them something to put in their Thursday columns, between the Wednesday columns about the latest football ratings and the Friday columns about how stupid the ratings are.

"Actually," said Zedd, "my favorite sport aside from DXing is basketball. It is little known, but I helped Billy Tubbs a whole lot with his team last year. You might say I taught him everything he knows."

"We had a great team my senior year in college," Zedd went on, waxing nostalgic. "We played firewagon basketball. We tried playing defense in my junior year, but nobody liked it much. So in my senior year we just let you score as fast as you could so we could get the ball and go score on you. It usually worked great, as everyone knows."

"We had a play in my junior year, too," Zedd went on. "We would come down and throw the ball into the post. Only we all kept forgetting how it went so we gave up on that, too."

"What we would do is, our point guard would hold up one or two fingers as he brought the ball upcourt, and people would think we had plays. It confused everybody, a little like when you call out of turn in a list operation and then act so innocent and apologetic that the MC decides to be a good guy too and lets you in after you missed the list."

"As history records, we had a truly great team. I think we would have won the NCAA if our center hadn't been showing off for the cheerleaders and jumped up and fractured his skull on the backboard one night, which came right after our best-coordinated forward fell off the bench while tying his shoelaces and twisted his knee...."

Baseball was wonderful also, Zedd reminisced. "I used to love it when the big, fat guys were finished with football and the tall skinny ones were through with basketball and only us supremely gifted and well-rounded athletes were left, cavorting around out there on the diamond," he said.

Zedd pitched for his team, recording seven no-hitters and a dozen one-hitters in his illustrious career. When not on the mound he played center field, and was an all-American at both positions as a junior and senior. He batted .722 as a senior, with 42 home runs in 39 games, including the college World Series in Omaha where he beat Southern California with a no-hitter, 4-0, and went four for four at the plate, including three triples and a double, and four runs batted in. He was offered a job with the New York Yankees, as is well known, but declined because he preferred DX and did not want to put his pal Mickey Mantle out of work.

It was at this time that Zedd went to Hollywood for a few months, playing Ronald Reagan in three chimpanzee epics.

Zedd is also a superlative Frisbie player. He used to be a common sight on the University of Oklahoma's South Oval, frolicking with the unspayed faculty dogs and student weirdos, but he had to quit when some lesser Frisbie players grew so discouraged after watching his excellence that they took the extreme way out and went to class.

"There is, however, no sport as great as DXing," Zedd opined. "No other sport -- not even Monday Night Football -- is so demanding of great endurance and steadiness under pressure. Howard Cosell may think it's tough to be an NFL quarterback, but that's nothing compared to trying to crack a pileup with only a few kilowatts and a wide-spaced monobander. Why, only the other night I heard a horrendous pileup and recognized that it was for my good friend Randi in New Delhi. As I had not spoken with Randi for two days, naturally I tried to break in. Would you believe that even with my equipment and great natural talent on the airwaves, it took THREE calls to get him? I was nearly a nervous wreck!"

"I am reminded of the time I was operating alone from high mountains in Tibet. The native bearers had deserted me. Even Ronald Coleman had gone home. I pluckily stuck it out, working the key with alternate hands while warming the other one with an ice cube. I worked 13,500 in two days, and was later given the Legion of Merit award by a grateful French government for my brave exploits when it developed that a lost regiment of the Foreign Legion saved itself from certain death in a desert sandstorm by setting their bearings on the steady, unfailing note of my distant CW transmitter. Or consider the time I went to Russia and saved a wrecked train by sending CW signals from the site with torn telegraph wires I held in my teeth. Why, son, it is possible to have sport and adventure in DXing even in your own home. No baseball team can say that."

Naturally we longed to hear more from the great man. But there was a contest on 40 meters, and Zedd said he felt an obligation to get on and allow a few hundred lucky stations to work him before bedtime.

"You mean," we said, aghast, "that there are actually stations out there you have not yet worked?"

"New stations are licensed every day," Zedd pointed out to us. "And others are reinstated. I feel I have obligations, you know, and miles to go before I sleep."

With that, he headed for the west wing of his modest shack. Soon we heard the howl of the generators and saw the artificial aurora effects caused by Zedd's antennas. His voice sounded a bit tired on the mobile rig as we listened to him work the lucky ones on our way back to town. But he did not complain. Such are the burdens of greatness.

-- KU5B

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GREAT PLAINS A.R.C.

September is here and school has started everywhere. Please drive carefully, children don't always watch like they should.

We had an outstanding club meeting on September 7. We had 24 members and guests present and would like to see more turn out. After the business meeting a film borrowed from Neal Marchbanks, on storm spotting was shown. When the meeting was over a large group of us regathered for supper and good times at the Pizza Hut.

OTHER HAPPENINGS!

Wa5PLW had a tower raising!

Lots of fishing is going on at KB5XI and his YL's.

N5CCV, YL, and the harmonics took a day off and went to the state fair.

There is lots of building going on the WBØPGD's.

There was a surprise birthday party at KØCIO's and boy was he surprised! He said it was his 29th.....

Hang on gang he's done it again! Who you sat?? Our own Whiz Kid Gerry n5EOY, for a short time KD5RL. But don't get to use to the new call because this lad went to Dallas and passed his extra exam! Exactly 2 years and 1 day from the day he passed his novice thest he became the proud holder of his extra class license. WBØ PGD said he was stepping mighty tall when he came out holding the new license. Congratulations Gerry!

The club is sporting new club jackets with each one's name and call. All except one that is, oh well, Gerry maybe that final call will be in soon! They sure do look shapely!

This ham found another exciting sport. I went to my first tractor pull and bou was it exciting. Of course being an old country kid from way back I can tell you the tractors I drove on dad's farm never looked like any of those! And too, watching KØCIO's tractor out pull anything there made the evening!

And talking about KØCIO, if you missed the picnic September 19 and his and his YL, Eleanor's you sure missed a great time. In fact the weekend started off with a "slumber party" Friday night as the clam started gathering and leading the pack was KA5DUO. The ladies asked that next year to please not invite them to the all night "slumber party"!

I tell you WBØPGD finall got it. I've been telling you about all the things he's pulled on others. Well, it seems that there is a running joke around here that any time an Okie crosses the line into Kansas he needs a pass and likewise when a Jayhawker comes to Oklahoma he needs one. Well, as WBØPGD was going very carefully through Coldwater, he got the red light turned on him! KØCIO said KA5DUO was rolling on the floor as he listened on the radio! (I just had to tell them that Ron had got stopped.) Leo said he owed Ron one ever since he ran his legs off answering Ron on the radio at the Wheatstraw picnic!

There were lots of fun and frolic. For example, ask any one there why a man would stand up in a boat in the middle of the lake and practically beat the bottom out of his boat with his new net!

Also lots of fun was the transmitter hunt! We parked and called the pack and thought they never were going to find us. One, (KB5XI and his YL) even got lost?! Gerry KD5RL, Frank WØDSM, and Al, KØCIO's son fin-



CORA COMMENTS

This will be my final column written as C.O.R.A. president. First, I want to say THANKS to the many amateurs who have made the past year a successful period for C.O.R.A.

We are pleased to have added the Ardmore ARC as a participating club. We were thrilled to be able to double the major awards at Ham Holiday. We are grateful for the opportunity to provide a public service through emergency communication at the 1982 Oklahoma State Fair.

Thanks to the hard-working Board of Directors for their support. I will continue to serve C.O.R.A. as ex-officio representative to the board.

This brief note is written on the eve of September C.O.R.A. board meeting, so I do not yet know who will succeed me as president. (See the editor's column for the roster of 1983 officers)

Please give your support to the new officers. C.O.R.A. has accomplished alot but has greater potential. Our potential as a group can only be realized through your combined efforts. One person cannot do it all. 73 de ADIS

The September meeting of CORA was held on 28 September with representatives from MORI, Wheatstraw, VHF, Bicentennial, Autopatch and ACARC present.

The treasurer reported that after all (hopefully) of the bills from Ham Holiday had been paid we ended up with \$28.72 less than the \$2000.00 seed money we started with, so we are starting even for next time.

Informal reports were made about CORA's furnishing EMERGENCY COMMUNICATIONS for the OKC police at the State Fair.

There was no new business to be attended to so the Directors proceeded with election of officers for the next year.

Our President starting 1 October will be Ted VanInningham, WD5JNT (acclamation); the Vice-President is D C "mac" Macdonald, K2GKK (acclamation), in a one vote victory Jim Buswell, N5BEQ is the new Secretary and George Maschino, K5GGL was re-elected treasurer. In his acceptance speech, Ted asked that ALL clubs get serious about what committee they can handle in next years Ham Holiday - make up your minds, and have your club representatives attend the October meeting ready to commit the club and get started NOW on next year. Any club which wants to take the same committee that they had this year will have first choice, that way there will be some experience carryover.

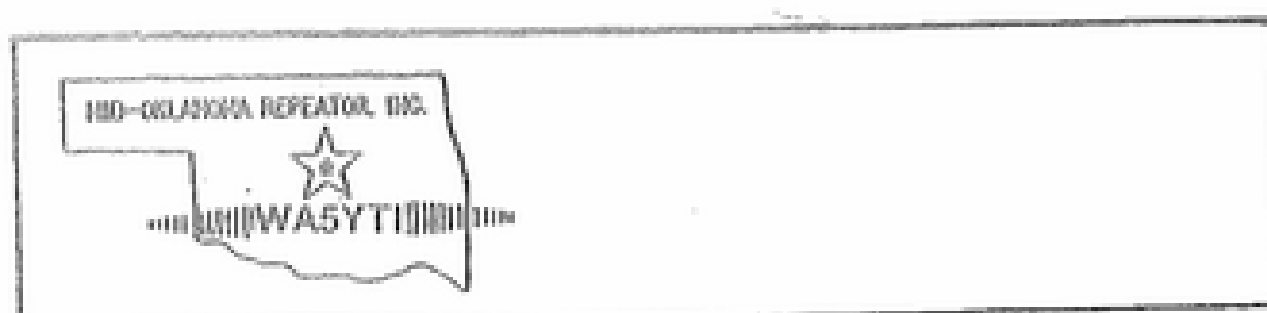
With all that attended to the departing president was given a big round of applause for a job well done - then he adjourned the meeting to The Villiage Inn, except for Frances and I, we headed home to set this report and wrap the Collector & Emitter up ready to take to the printer in the morning.

Joe, WA5ZNF

ally found us. Gerry was presented a brand new transmitter at the picnic by N5CCV. (A pen light.)

You notice I haven't said a thing about the food, I left the best until last. Friday evening we had a steak dinner grilled outside by KØCIO with corn-on-the-cob, salad, and lots of other goodies. Then Saturday evening 32 people feasted on grilled hamburgers down by the lake. The local law enforcement and their families along with clubmembers, families, and friends enjoyed lots of good food and a beautiful evening. The weekend was topped off Sunday afternoon with a covered dish picnic. The same crowd again gathered and enjoyed an evening of fishing, boating, visiting, and good food.

Until next month -- 73's Carla WBØQGW



Hi Everyone!

I want to begin my article by saying thanks to Fred for "filling in the gaps" while I was in Brownsville, and Mexico and I just want to echo a few of his comments plus a few more.... I would personally like to recognize the people I worked with during "HH-82". To begin with, there was Gordon (WB5BXW) who was the coordinator of the ladies committee, programs and prizes, and of course the hospitality room, he was real great and guided in the right directions. Thanks to Billie Tutor for helping me select the prizes that were given away at Bingo, her assistance and willingness was greatly appreciated. She also brought some of the refreshments for the hospitality room and so did many women, some I think deserve the credit are Rosemary Eason, Garnett Foster, Myrtle Broudy and many others. Thanks to Fred (KA5CXW) and Jim (N5BEQ) who broke away from some of the programs and called the numbers. A SPECIAL THANKS to the people that devoted some time to present us with the programs... SHINGLETON'S APPLIANCES (Microwave Cooking) JAZZERCIZE (Kathy McAbee and Gloria Seignious) BINGO - prizes were purchased from Woolco, Target, Sears, Montgomery Ward's, etc., and again thanks to Fred and Jim.

Okay, now what should I mention -- oh yeah, MORI, OCVHF and the AERONAUTICAL clubs had a combination annual watermelon feast Friday, the 20th, and I understand everyone really indulged to some really good eating and fellowship... Would you believe I even had watermelon that night in Brownsville, Texas and about the same time for the gathering here, so we were on the same wave-length -- HI!

LOOKING BACK... Labor Day weekend has already come and gone, but I would like to pay a big compliment to Ron, WA5GAM and Fred, KA5CXW and some of the Tinker Air Force guys in setting up a rest area where they served coffee, cokes, etc., to the people that were tired and weary from driving. Fred was even a television celebrity.

LOOKING AHEAD... The State Fair is approaching us real soon and we received a special request from the OCPD to assist them again this year, but it will be a little different, if you are interested in attending, plan to attend the meeting at OSU Tech on the 22nd of September, 7:00 or see Art Roberts, W1GOM for details. I am sure he would appreciate anybody and everybody that can participate.

OCTOBER is Halloween month as we all know, and a real big event for the kids, (and maybe some adults) so be Smart and TREAT them, do not TRICK them, so we can have a nice holiday.

The next meeting for MORI will be October 5, at EOC at 8:00 PM Hope to see you there and I guess if there are any changes, you will hear it on 07/67.

73, KA5FED (Susie)

PUBLIC SERVICE CALENDAR

EDITED BY DON, K5SJV 721-2119

EVENTS NEEDING AMATEUR RADIO ASSISTANCE

DATE/TIME	EVENT	CO-ORDINATOR
10-16/17-82	ARES SET	ART, W1GOM 947-5347
1st & 3rd SATURDAY EACH MONTH 12 NOON APRIL, 1983	OKLA. CITY SIREN WATCH 146.34/.94	JIM, N5BEQ 236-0368
AUGUST, 1983	SYMPHONY RUN FOOT RACE, OKC	--
SEPTEMBER '83	WATERMELON FESTIVAL, RUSH SPRINGS	MARK, WB5YTO RUSH SPRINGS
	OKIE DIRT RIDERS ENDURO DRAPER LAKE	DON, K5SJV 721-2119

THERE MUST BE MORE EVENTS WE CAN HELP WITH. ASK YOUR EVENT CO-ORDINATOR TO CALL DON, K5SJV (405) 721-2119 FOR A LISTING IN THIS CALENDAR NEXT MONTH. -73-



by
W5JNT Ted VanLaningham

The watermelon feast was a huge success. Our Birthday Boy, Dr. Fred and Perry are to be congratulated for their fine organization of the party. I wondered why there were so many watermelons left over but Perry didn't count on Ralph and Marvin not being there and that would amount to at least 10 watermelons.

We were sorry that Dr. Fred wasn't able to make his birthday party with the club but thanks to Goldie we had plenty of birthday cake in his honor.

Our next meeting will be a caravan to the 6th Annual Amateur Radio QSO in Beaver. They share our .01-.61 frequency and would just like to test their antenna power again. If anyone would like to join the caravan tune in at 9*00 Wednesday on .01-.61 for exact details. Everyone is welcome to join us.

Registration (\$1.50) starts at 10:00am. The coffee pot will be on earlier. Covered Dish Lunch at 1:00 pm. Ladies programs, swap tables. Talk-in on .01-.61 & 52.

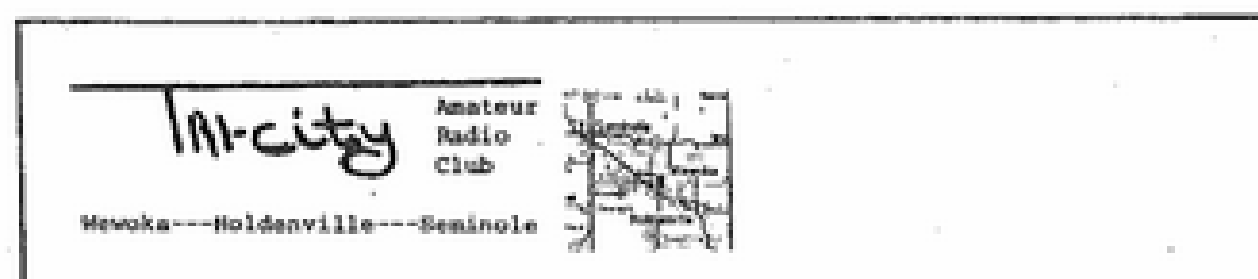
ATTENTION RADIO CLUBS' PROGRAM CHAIRMEN:

Ah, what a thankless task you have, but perhaps I can help you at some future date! N5DLM and AD1S have a colorful slide presentation of their recent DXpedition to the Pacific and Micronesia. George & Vicki will be pleased to show the slides, narrate and display Micronesian handcrafts for your club or hamfest.

Stops on the three week trip included Eastern and Western Carolines, Saipan and the Marshall Islands. KC6WS and KX6QS logged over 8,200 QSO's and the slides will make you feel like part of the fun. Contact AD1S for scheduling. Out-of-town meetings and hamfests are also scheduled for reimbursement of transportation expenses.

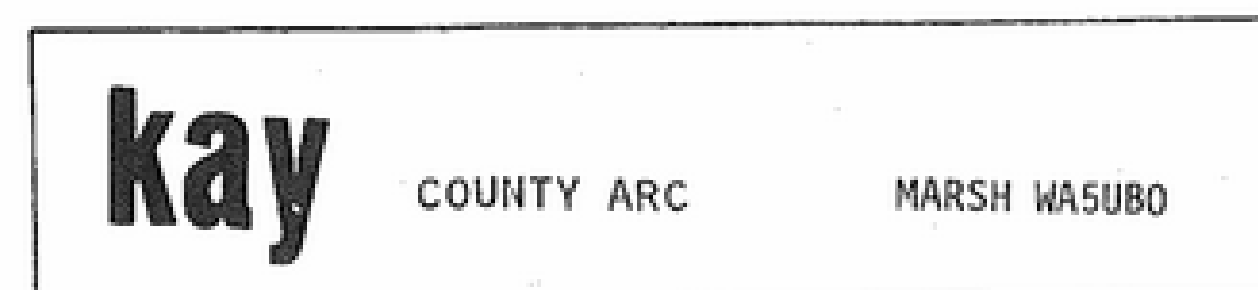
FOR SALE: ICOM 720A HF transceiver/general coverage receiver; CW filter, microphone, PS-15 power supply. All in excellent condition. Will demonstrate at your convenience. \$1100 complete. Call George, AD1S-722-6195 nights, 947-0511 days.

I HATE WHITESPACE JOE, W5ZNF



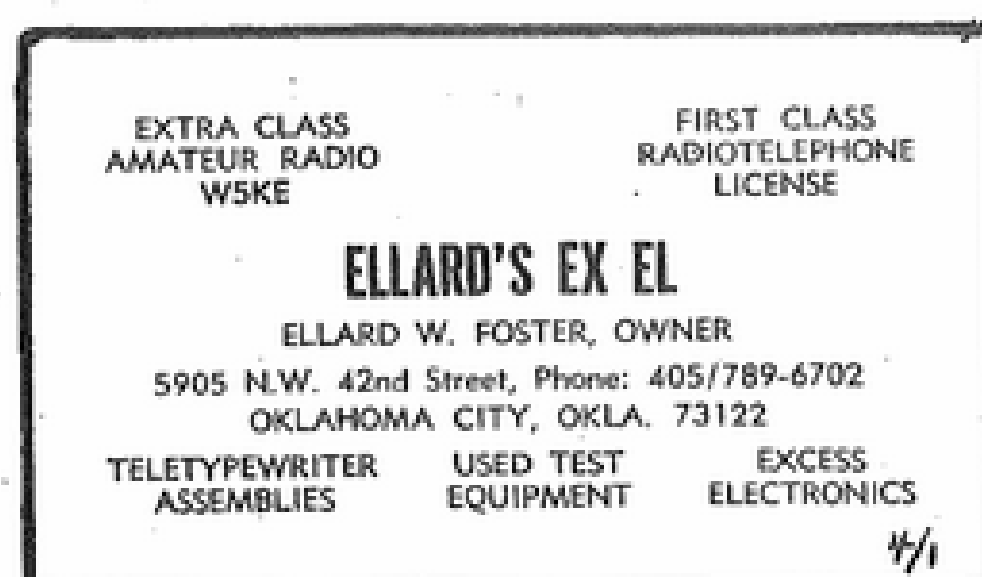
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ok-dx

NEXT MEETING: OCTOBER 11, 1982

The next OK-DX Association meeting will be held on Monday, October 11, 1982 at the WATERHOLE Restaurant, 3333 N.W. Expressway (across from the Baptist Medical Center) Oklahoma City. The meeting will start as soon as you get there...usually around 6:00 PM... and you are invited to stay as long as you like! Come celebrate the "temporary" lapse in Monday Night football...everyone is invited, especially if you enjoy HF DXing-and whether you have worked 30 countries or 300 countries.

DX News- The International DX Foundation has done it again! This group, which gave you CR9, Navassa, Des-echeo, and countless others has pulled off a successful DXpedition to St. Peter and Paul Rocks. * The PY0SP group landed late on September 27 and were heard making phone patches back home around 2300 UTC on 14.235 Mhz. By the time you read this, the action should be fast and furious! I have heard that the group only has 52 gallons of gasoline, so activity may be curtailed. I hope you got this one! The Rumour continues that TL8GE will soon have permission to operate from CHAD, TT. Outside of West Beirut, I can't think of a friendlier place to have a DXpedition! Best wishes go with TL8GE. Listen to the usual DX nets and bulletins for late-breaking information. One note: TL8GE may elect to operate only from lists, and then only for about an hour a day. Hopefully we will have more for you at the October 11 meeting. The CQ World Wide DX Contest (phone) is scheduled for the weekend of October 30-31. Check CQ Magazine or the October QST Contest Corral for rules and details. CQ World Wide is the "grand-daddy" of the DX contests and it is possible for a modest station to work DXCC in one weekend! All it takes is fortitude and patience and lots of coffee. Give it a try! Is there anyone out there interested in mounting a serious try at CQWW from Oklahoma? Let's discuss it at the OK-DX meeting. Hopefully there is someone who has a computer who can dupe logs-HI! I have received several phone calls this month from new DXers and from experienced DXers who recently moved to this area. Everyone is welcome--and bring a friend, 'cause our meetings are really lots of fun. There is no business meeting, no minutes, no boring reports. We do exchange DX info, tell lots of "fibs" about China on eighty meters, etc. See you this month at OK-DX. Box 88, eat your heart out... de AD1S.

irks?

INTERNATIONAL REPLY COUPONS for sale to specially selected Amateur Radio operators. (Whoever calls first) AD1S has IRC's, hereinafter referred to as IRKS, for sale-- 10 for the meager sum of \$4.00. I will mail postpaid any order of 30 IRKS or more. The lowly IRK now sells for 65¢ at His Majesty's Post. Contact AD1S.

ROBERTS ELECTED OKLAHOMA COUNTY EMERGENCY COORD.

Art Roberts, W1GOM has been elected to the post of Emergency Coordinator for the coming term. Amateurs interested in assisting Art should contact him as soon as possible. Art is primarily responsible for the very successful C.O.R.A. project which provided communication on an emergency/back-up basis at the 1982 Oklahoma State Fair.

Leonard Hollar, WA5FSN underwent surgery recently and continues to recuperate. I am sure that he would enjoy hearing from his many friends in the amateur community. Address your cards to Leonard Hollar, Kingfisher Hospital, Kingfisher, OK. (though this is not the precise address, it will get a card to Leonard.) Vicki, N5DLM stopped by and visited with Leonard on Saturday September 21 and reports that he is getting stronger and feeling better each day. Leonard, we wish you a rapid recovery! We will miss your attendance at CORA and the many other meetings you attend. De AD1S.

SO YOU THINK YOU'VE GOT TROUBLES....?

When things start going sour for you have you ever thought about chucking it all for the leisurely life of a South Seas island? Well, before you set sail, you'd better read this.

Victor Rivera, ZK1CG, is a one-man DX-pedition to several South Pacific island/countries from his home QTH on Cook Island. This is his account of how disasterous the leisurely life can get:

"I left February 22 aboard the ship Mataora bound for Manihiki, North Cook--a trip that normally takes three to four days. It was a warm afternoon and the wind didn't seem to be too strong. My XYL, Marsha, and some friends were there to see me off with flowers and one last cold beer.

"The captain had given me permission to operate from the wheelhouse so I could work MM going up. On the deck I had a couple of boxes that contained my IC 701 and its power supply, the power supply for my IC 730, the mike, a 2500-watt generator, a 44-gallon drum of petrol, a 6-element beam, a large box of food, a container of oil, my XYL's camera, some clothes, and a case of rum (for medicinal use).

"The boat left at 4:00 PM. The boat always leaves at 4:00 PM. The captain's watch is broken at 4:00 PM, so he shows it to anyone that we are not leaving late, as we pull free of the wharf at 7:30. The waves started to wash over the railings onto the deck, and at times hitting the tarpaulin that hung over the deck. A wave hit the boat and I got soaked. As I stood up under the tarpaulin a man asked if I owned a green tool box and a case of rum. I said yes. He then raised up a bottle and said this is all that's left of it.

"I put on some rain gear and laid down next to my remaining things. I started to fall asleep, if that seems possible. I was dreaming 'What the heck am I doing here.' I awoke to a loud roar, to see the tarpaulin burst open over me. This wall of water carried me across the deck, and everything went with me too!

"My foot got tangled on a bicycle that had been tied to the bulkhead. As I hit the bike I was turned completely around. I felt nothing but water under me. The water washed off the boat and I found myself in the walkway. that rung along the cargo holds. One woman was hanging over the side of the railing, and another man and I pulled her back on board. Another wave washed over the deck and pushed my gear into the walkway under eight feet of water. The boxes fell apart, spilling things into the water, and some of it was being washed through the large drain holes into the sea.

"I will stop here because it only gets worse." (A Manihiki newspaper article recounts how Victor himself was washed overboard).

Victor salvaged what he could, and was able to work more than 10,000 contacts from Manihiki--80% of them with US DXers. But it cost him more than \$3000 US in lost or damaged equipment.

Now for the bad news; Victor's XYL came back to the States to visit her family--and was hit by the IRS with a bill for \$900 for back taxes. So, even though Victor salvaged his IC 730, he had to sell it to help pay off Uncle Sam's debt.

If you'd like to help Victor get back on the air, you might consider a small contribution to the "salt water fund." Write him at PO Box 618, Rorotonga, Cook Islands, South Pacific. Then look for him as ZK1CG in the Cooks, or as 5WIDJ in Western Samoa, or as KA7HRK/KH8 in American Samoa.

Stew, KD5DL

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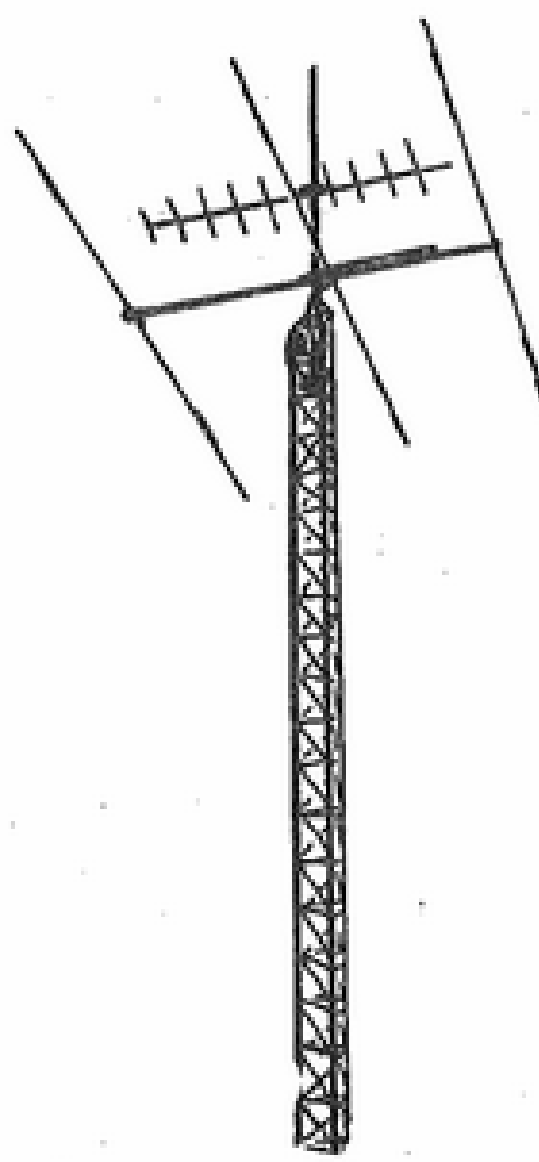
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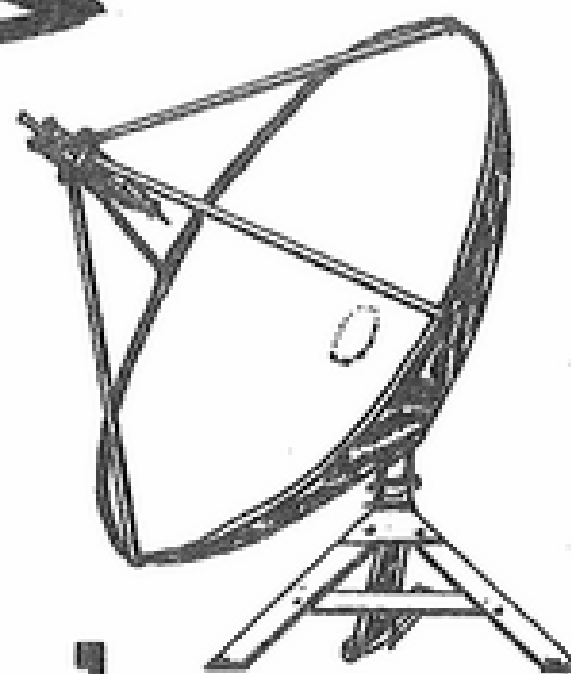
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
OCTOBER					AERONAUTICAL CENTER 1	2
3	4	M O R I GREAT PLAINS TRI-CITY 5	6 ARDMORE	7 EDMOND CLUB MEETS	8	9 S C A R S ALTUS HAM FEST ARDMORE BREAKFAST
WHEATSTRAW AT BEAVER 10 QSO	SEOARA OK-DX 11	76'ers SHAWNEE 12 O U	13	14 ALTUS	15 V H F	16 SET
17 SET	18 A R E S	19 AUTOPATCH	20	21 K A Y	22 TEXOMA	23 HAMARAMA
24	25 E D I T Collector & Emitter	26 CORA SHAWNEE	27	28	29 MAIL C&E 4:30 PM RED CROSS	30
31						




★ BIRD ★ DRAKE ★ DENTRON ★ ICOM ★ YAESU ★ DAIWA ★ AEA ★

TEN-TEC ★ CUBIC ★ SWAN ★ HUSTLER ★ LARSEN

★ MOSLEY ★ CUSHCRAFT ★ KLM ★ HY-GAIN ★ TELEX ★







Chuck Guschke, N5SW
(405) 789-1951

TUESDAY 10 - 6
WEDNESDAY 10 - 6
THURSDAY 10 - 6
FRIDAY 10 - 7
SATURDAY 10 - 4
SUNDAY CLOSED
MONDAY CLOSED

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