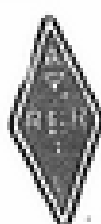


TYRONE TURKEY

GOES TO THE FLEA MARKET



Don't Delay!
Pre-register Today!
Ham Holiday '82



LEONARD HOLLAR, WA5FSN
SECTION COMMUNICATIONS MANAGER

As I write this, We are under Severe Weather Alert for the 2nd night in a row. We hope that nothing happens. However, if it does, I am sure that the Amateurs of Oklahoma will perform as admirably in the future as they have in the past.

One of my problems is, that many of them are probably eligible for a new piece of "Wall paper" to hang in the shack. Now the problem is that I don't get enough in the way of information to submit an article to QST to get the recognition needed for the Public Service Award Certificate. I realize that a great many of our Operators are truly operating in the Spirit put forth so well in Part 97.1 of the FCC. regulations. Really operating in the Public Interest, and helping his Fellow Man by providing the best of Emergency Communications without any thought of receiving any thing for his time and trouble- many times lots of both- deriving his satisfaction from the very fact that he accomplished what he set out to do. To me, the greatest satisfaction is the Thanks from someone to whom you have brought "Good News". Be it just a simple "Hello" message or an "All safe and well" Health and Welfare message out of a disaster area.

To me, these are the finest operators in the World. I would like to do more for them but, unless I hear about their activities, there is little that I can do. More and more of our operators and Club groups have received some nice letters and Certificates of Commendation from the Agencies that they have served.

We have been on the road this past month, with a trip to Durant to visit with a F.B. group and try to give them a little help in Emergency planning.

Then followed this by a wekk with a trip to Shawnee, accompanied by Bennett, W5ZTN to act for our West Gulf Director, Mr. Wangler, in presenting the Shawnee Club with a Certificate of Affiliation with ARRL. This brings to 20 the number of Affiliated Clubs in Oklahoma.

With the increased accent by ARRL HQ on Clubs and Club activities, It behooves non-affiliated Clubs to take another look and consider becoming affiliated. With a little "digging", it is not hard to find that by no means does all of your membership Dollar go for QST, But it does help provide many other services of great benefit to Amateur Radio.

I am looking forward to Ham Holiday 82 and to meeting as many of you as possible. We hope you will enjoy your visit and find "Just what you cannot do without" in the Flea Market.

Oklahoma Nets for April 1982				
Net	Sessions	QNI	QTC	WX
O.P.E.N.	4	218	14	
O.F.O.N.	22	315	67	
Sooner	25	405	73	
O.T.W.N.	26	437	380	337
O.N.O.N.	30	481	129	
O.L.Z.	30	192	68	
N.W.O.T.N.	13	170	10.	

I almost got in trouble. I nearly forgot to mention the wonderful time that We all had at Mooreland. Some good 'Swappin' As always some of the best "FOOD" anywhere. and lots of 'Visitih' time, with a lot of fine people.

73 Leonard Hollar WA5FSN

Can you wear

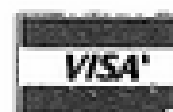
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Ask Doc, WA5CZN, about his fantastic contacts!

Managing Editor: Joe Harding, WA5ZNF 737-1044

Circulation Mgr. Bob Graham, WB5NSV 677-8685

CENTRAL OKLAHOMA RADIO AMATEURS, INC.

MEETS: 7:30 pm Fourth Tuesday (Except Dec.) Red Cross, Oklahoma City.

PR AD1S George Adkins 722-6195
VP WD5JNT Ted Van Laningham 262-1675
Se N5CIJ Frank Yohe 324-0772
Tr K5GGL George Maschino 263-7614

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: Bob Graham, WB5NSV 677-8685

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:

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 AD1S George Adkins 722-6195
Se KA5BJS Judy Macdonald 672-4947
Tr K5GL Guy Liebmann 787-9545
EDITOR: Henry Israel, N5IH 722-3848

5 OKLAHOMA UNIVERSITY AMATEUR RADIO CLUB

MEETS: 7:00 pm Second Tuesday 119 Wilson Center, 1334 S. Jenkins.

PR KA5COI 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 ARC

MEETS: Second Tuesday, Air National Guard Will Rogers Airport.

PR KH6JTE John Galway 670-5472
VP N5BEQ Jim Buswell 236-0368
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 (El Reno) 262-5631
S/T WA5PFK Ralph Wilder (Watonga) 623-5421

EDITOR: Ted Vanlaningham, WD5JNT (El Reno) 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:

13 KAY COUNTY AMATEUR RADIO CLUB

MEETS: 7:00 pm 3rd Thursday at EOC

PR WA5UB0 Marsh Pronneke 363-2526
VP WB5NQT Pat Burnham 765-7229
S/T WB5YRN Delbert Folles 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

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: 7:45 pm First Thursday See club section for location.

PR WD5DYI Mark Northcutt 755-4672
VP WB5ISO Wendall Cochran 943-4308
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 379-3149

EDITOR: Yvonne Warriner, WB5TYW 379-6448

18 GREAT PLAINS AMATEUR RADIO CLUB

MEETS: 7:30 pm First Tuesday, Basement Woodward court house

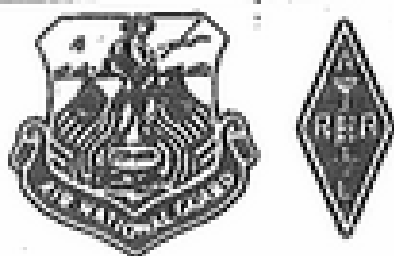
PR N5CCV Gerald Bowman 994-5381
VP WB0PGD Ron Tice 994-2138
Se WB0QGW Carla Tice 994-2138
Tr N5EOY Gerry Ford 256-5342
EDITOR: Carla Tice, WB0QGW 994-2138

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 326-3640



Since this is a special edition of the C & E, I won't bother with telling you all about alot of club business. Instead, I'll just give you a rundown of what the 76ers have been doing in their six years of existence.

The Bicentennial Amateur Radio Club was formed in the year 1976 (hence the nick name 76ers) through sponsorship of the Oklahoma Air National Guard. Through a number of guard personnel, the club was formed with the benefit of amateur radio in mind.

In the past, club training programs like license classes were sponsored by the 76ers through instructors like Coy Day N5OK, Bill Riddles N5WM, and C.Y. Chandler N5EDT (at that time better known as WB5TKG). Unfortunately, the program is no longer around because of a lack of instructors (none of the aforementioned are still members of the 76ers). Perhaps one day we can get this program running again.

We also sponsor a repeater in OKC. At one time it was on 146.97, but it was later changed to 146.76 when a vacancy occurred at that frequency. The change was made because of problems with intermod in the former frequency. (also, what better frequency could you pick with a club name like that?) It serves the entire metroplex with open autopatch and is for all licensed amateurs, member or not.

The 76ers also sponsor an annual Field Day team that has done well in recent years. Last year, no other OKC club sponsored a Field Day team, and it looks to be that way again. Needless to say, attendance for it has been quite good. By the way, you do not have to be a member to participate! If you feel like you want to try your hand at some contest operation, give the 76ers a whirl!

Lastly, the 76ers meet the second Tuesday of each month at the Air National Guard. Membership is open to all interested, licensed or not. Dues are just 10 dollars a year.
Bruce, KC5CR

PRODUCT REVIEW

Dennis, WD5CSM, and George, AD1S, recently received the KLM 7.2/10-30 LPA Skip-Log Periodic antenna (in kit form) and after a few agonizing weeks of construction, we put the monsters up on April 25! Initial tests indicate that on-the-air performance is everything KLM advertises! There is no measurable VSWR on 10-15-20 meters. In addition, the 8-element log array "hears" very well on the new 10, 18 & 24 mhz bands. Since it has a continuous frequency range of 10-30 mhz - it is an outstanding SWL antenna as well. Bandwidth on 40 meters is 250 Khz at less than 2:1 VSWR. (100 Khz at less than 1.5:1). Dennis has experienced a troublesome intermittent which causes SWR to go off-scale, but we are still researching this problem.

SPECIFICATIONS: (KLM) As stated by Mfg.

CONSTRUCTION: A 14-page instruction booklet is included with the kit, which consists of over 100 steel & aluminum parts plus nearly 1,000 pieces of hardware. (this is not an antenna for a beginner). After having assembled a KLM KT-34A and KT34XA, I was more than disappointed in the instructions provided with the log-periodic. KLM has made several design changes without telling the consumer. Example-steel truss support wires were replaced with the new "phillystran" but no instructions were included on how to use the strange thimble blocks which replace wire clamps. In addition, the balance point of the antenna was no where near the point of double reinforcement on the massive 3" boom. (thus the boom mast plate is attached at a point of

MINUTES FOR MAY MEETING

1. Meeting was called to order at 7:10 by Vice-Pres. Jim Buswell N5BEQ, in the absence of the President.
2. Introductions followed. There were 18 members and guests in attendance.
3. Secretary Report: Minutes were published in C&E and were approved as published.
4. Treasurer Report: We have \$382.12 in bank with 70 paid members on roll, including two new members who joined tonight. They were Paul KD5JZ and Hank KB5XM.
5. Motion was made to accept new members into club. Seconded and approved.
6. CORA Report: Still discussions on HH 82: Also some heated discussion on refusal of Editor to print some controversial articles in C&E.
7. Repeater Report: A request was made by Bruce KC5CR to do away with the "OKC" on end of ID. Was OK'd by club.
8. Old Business: Ken K5UAB brought along some old issues of QST Magazines for 76, 77 and 78 for anyone to take that wishes to have them.
9. Field Day 82: In the absence of Dick Baker WB5THW, Ted WD5JNT passed around the volunteer list and made an appeal for someone to take some of the jobs that have not been assigned. Dale WB5VBE volunteered to take care of log sheets and dupe sheets.
10. New Business: Ted WD5JNT asked if anyone would be interested in ordering new hats with the 76ers emblem. If you are interested, contact Ted. They will run about \$5.00.
Jim N5BEQ said that we have access to the Diamond Jubilee QSL cards printed by the state for Oklahoma's 75th anniversary. They are available through Jim for \$3.75 per hundred.
11. Motion was made to take a break and have program following. Meeting resumed at 8:00.
12. Program was the film we made at Field Day 81. Everyone seemed to enjoy seeing everyone working.
13. After the program, Jim N5BEQ V.P. announced that John Galway KH6JTE President has requested to step down from that position due to other commitments.
14. A motion was made that we accept John's resignation and set up a replacement committee.
15. The committee appointed Jim N5BEQ, Jerry N5AUH, Jim Hopkins N5BFD, Lou Kelly KA5DZQ. They will be searching for candidates and election will be held in June. If you are interested in this position, contact one of these men.
Motion was made to adjourn at 9:25.
Jerry N5AUH

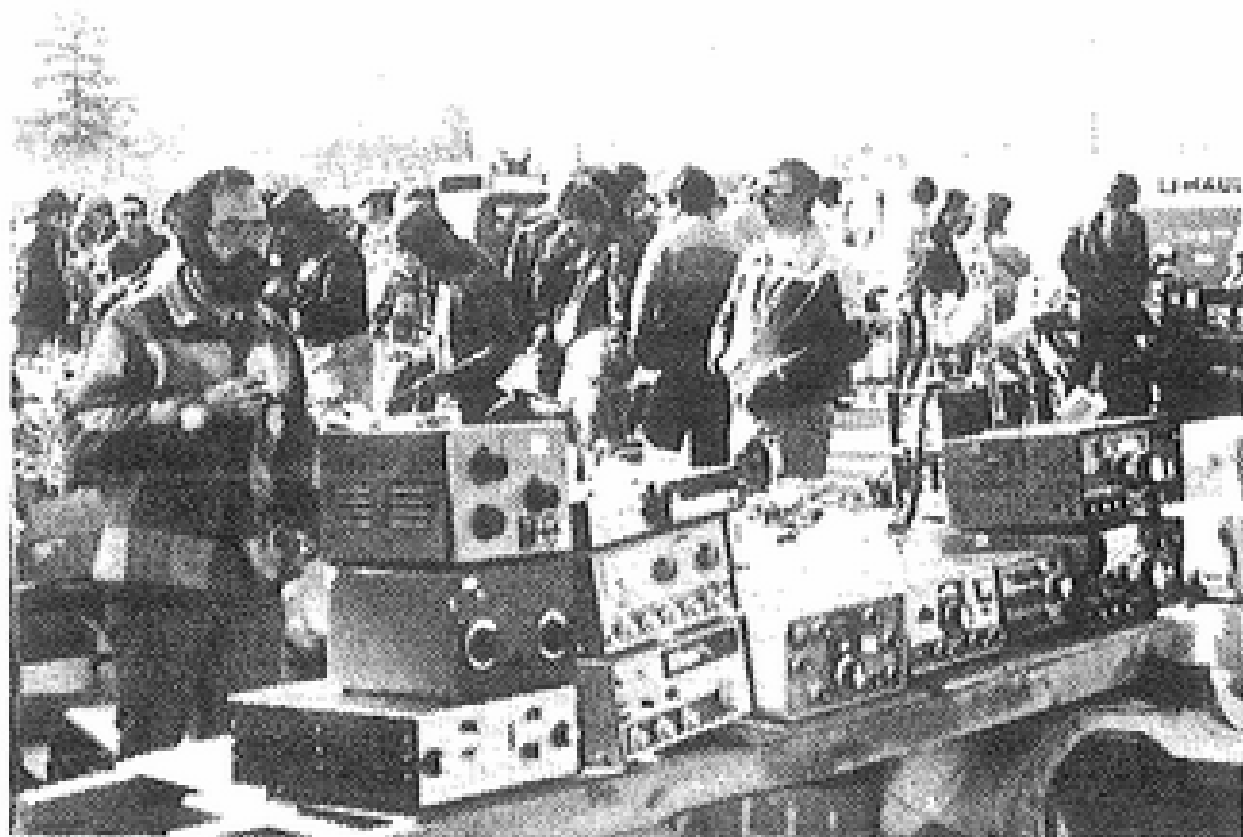
single thickness). The instructions referred to boom end-plugs but none were included in the parts list.

Fortunately, KLM was very helpful and promptly replaced parts and instructions and the antennae went together without too much difficulty.

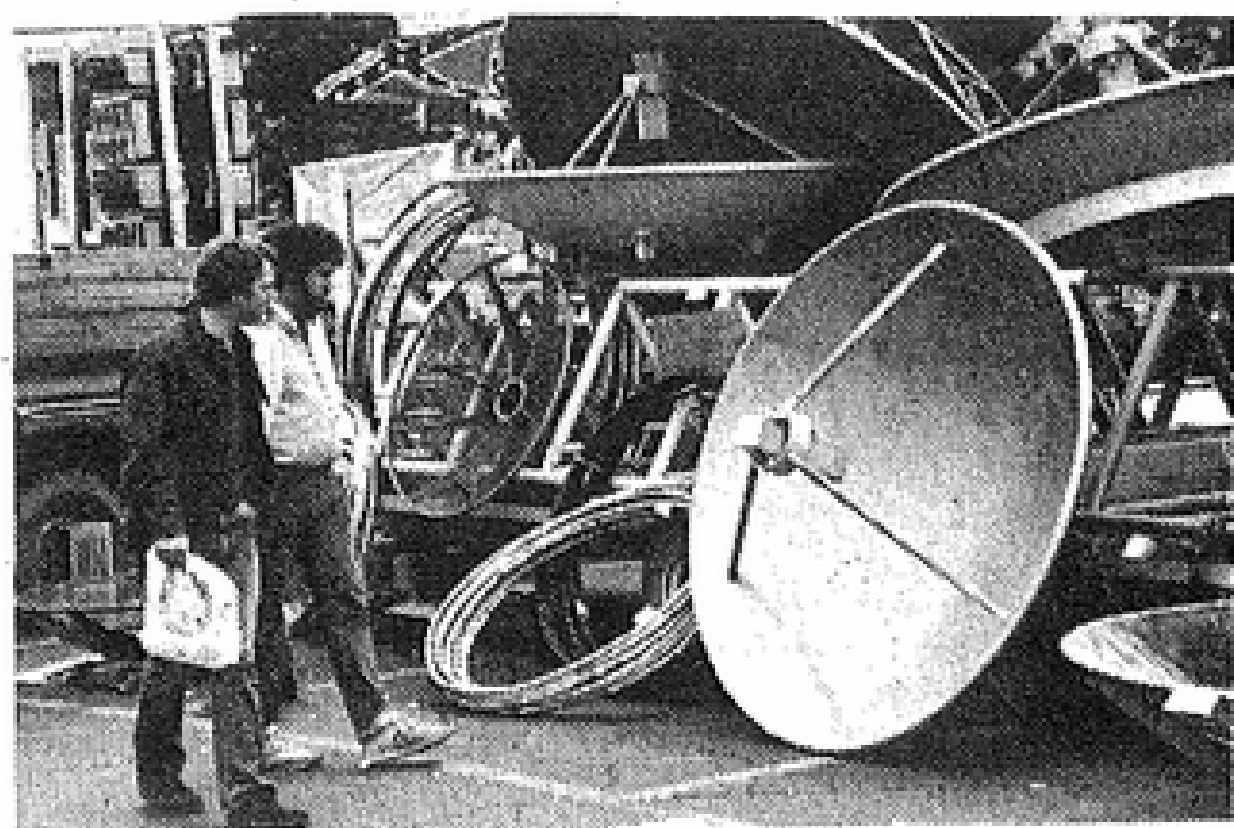
All 7 rear elements are driven and linked with crossed pairs of $\frac{1}{2}$ " phasing straps. The 40 meter linear-loaded element can be tuned to an optimum frequency or an "average" length will give 2:1 VSWR on the entire band (6.900-7.300 Mhz). I tested the antenna while it was resting on the roof of my house and the results were very "squirrely" due to the close proximity of a 20'x25' aluminum patio cover. When the antenna was pulled up to operating height (by a boom crane truck) it performed fantastically! I had no opportunity to test the resonant frequency at 15-20 feet off the ground as recommended by KLM, so it was a relief to see the end result.

In summary-this may be the antenna of the future. It provides the equivalent gain of a 3-4 element tribander, performance of a 2 ele. 40 mtr. yagi, plus provides 7db gain on all of the future ham bands. It is a natural partner for the new general coverage/ham XCVR combinations (Yaesu FT-One, IC-720A, Kenwood TS-930S). It is a mechanical nightmare but all the pain may be worth the benefits. We'll keep you advised. The array weighs nearly 100 pounds. The boom is over 42 feet long and the longest element exceeds 43 feet. KLM conservatively rates gain at 7db from 10 thru 30 Mhz. It has withstood the 60+ MPH Oklahoma winds of the past few weeks so appears to be of sturdy construction. Time will tell...HI. De WD5CSM es AD1S.

COLLECTOR AND EMITTER



1. Flea Market crowd.



2. Not quite big enough for TVRO, but dishes and hardline for microwave applications. The 10-GHz band is growing, as evidenced by the number of exhibitors displaying their wares.



3. More Flea Market.

So you missed the Dayton Hamvention - there is hope yet because there will be dealers galore and a huge flea market at HAM HOLIDAY which will be held in Oklahoma City at the Myriad Convention Center on July 23, 25, 25.



4. Just anything was available, including this "dummy" load.



5. Parts everywhere! If it ever was made for radio, chances were that they were available at the flea market.

DAYTON HAMVENTION SEMINARS

The 31st Dayton Hamvention is all but forgotten. More than 25,000 folks attended the three-day event, and most came home with thinner wallets and thicker luggage. Here is a short report on some of the seminars and forums conducted by the experts there.

The first forum dealt with computers and ham radio. The first speaker, Russell Genet, N8HH, discussed various applications of the el-cheapo Sinclair ZX-81. Russ is director of the research section of the Fairborn Observatory, and he uses the ZX-81 extensively in his work. During his talk, he recommended adding National Semiconductor MM58167 or MM58174 clock chips to the microcomputer, and, for remote controllers, adding Intel 8255 or 8253 stepper controller chips (for OSCAR work, for instance). The ZX-81 uses the popular Z-80 CPU, and is available for less than \$150 assembled (or less than \$100 as a kit).

When he asked for a show of hands of Sinclair ZX-80/81 users, almost 1/3 of his audience affirmed. We learned that a Sinclair users group meets near 14,345 kHz Wednesdays at 2100 CDT, and that Marty Irons, K2MI, publishes QZX, a newsletter about the Sinclair and directed toward amateur radio applications. One circuit I'm now working on is a Morse code reader using the older Sinclair ZX-80/8K computer. If you're interested in the Sinclair system, see the ads in the electronic magazines. And, if my code reader works, I'll publish the PC layout and software in an upcoming C&E.

Other computer forums covered Apple Bus Interfacint for CW (by KØEI), Amateur Radio Networks (W4RI), and Microcomputer Controllers for Amateur Radio (WB4YCB).

The Amateur Radio Emergency Service seminar featured several speakers, with Fred Myers, N8COU leading the session. Fred is the Emergency Coordinator for Monroe County, Ohio, a sparsely populated area in his state. He related many of the problems he faces to educate local civic officials about amateur radio emergency and public services. Next, Jim Weaver, K8JE, spoke of the value of assistant ECs, and how his Hamilton City emergency radio team get the attention, and the assistance, from local officials. His group has already converted some police and fire personnel to ham radio operators, and leaves other bureaucrats with the idea that "hams are doing something good here." He claims that his methods help amateurs get a foothold in many public service projects in his area.

Jim Schwitz, WA4CCF, gave an impromptu account of the part amateur radio played at the Air Florida crash in Washington, DC, last winter. Hams were among the first on-scene forms of communication, and were officially recognized for their work during the days it took to recover the airliner. They were prepared--they had a section of the police command post bus to operate from, and used the local autopatch repeaters to handle the terrific amount of rescue coordination communications. Jim also said that the emergency coordinator, ironically, was caught without his radio at the time of the emergency. The lesson learned is for us all--to always be prepared.

An update on spread spectrum technology was presented by Joseph Swingle, W9DGW, senior electronics engineer for the Foreign Technologies division of the Air Force Systems Command. He brought us up to date on techniques that have been pretty much classified since their inception in the early 40s. He showed how hams in the Washington, DC, area are using spread spectrum to achieve low power, high gain communications.

The military, he said, has used spread spectrum technology to enshroud electronic intelligence in signals very close to background noise levels and encrypted with digital cyphers, so as to

COLLECTOR AND EMITTER

evade enemy detection. He said that a relatively simple encoding system, operating at a million bits per second, could take the enemy at least 73,000 years to decypher; making the signal virtually an unbreakable code! However, the receiving end processor could take the low-noise signal and process it to better than 30-dBs of gain. Spread spectrum, according to Joe, may be the wave of the amateur future.

But he also admonished the drawbacks--the technology currently requires quite a broad bandwidth (contrary to existing amateur rules); and digital encoding techniques can encypher signals making them unreadable by FCC monitors--which is also currently forbidden. There are also problems with equipment parameters; problems with synchronization of the processing codes; and, perhaps, even a problem at calling CQ in the spreaded spectrum.

Bob Heil hosted different ways to use ham radio to communicate with other amateurs around the world, including a tutorial on "rubber duck" DX.

Bob, K9EID, is an audio expert and innovator in the 10-meter FM field. At his first seminar, he played a tape recording of a 2-meter to 10-meter link that spanned from California to Norway, and other recordings between US FMers and others in Japan. Bob also said that quite a few 11-meter CB boards, especially those manufactured by Cybernet (eg. some Hy Gain, Midland, Lafayette, and Kraco) were perfect to convert to 10-meter FM. To prove his point, he converted a surplus CB board to 10-meter FM, and it only took about five minutes! If you're interested, see his book, "The 10-Meter FM Handbook" as advertised in some of the national amateur magazines.

Bob also hosted a seminar about the advantages of audio equalization for the phone bands. He presented convincing data that audio problems, including solutions such as speech processing, might be easily eliminated with microphone equalization techniques. He then showed how his 300-3000-Hz equalizer flattened the audio response of various microphones in order to gain the greatest transfer to HF radio output.

Dr. Dave Tong, G4GMQ, attacked the audio problem differently. He invented a digitally controlled speech processor that used electronic switches to simulate a 5-gang crystal filter. His filter, which his company manufactures, provides variable width high- and low-passband selections and a variable notch filter. His best model processor simulates five filters per passband, contains 31 op-amps and 21 ICs. He claims that operation is virtually foolproof.

Dave also demonstrated another design of his, a unique up-converter using parametric mixers. His design uses a synthesized local oscillator to excite varactors at the mixer transformer, then the higher heterodyne is detected and processed. He showed one model that upverts HF to VHF, where it is detected by an all-mode 2-meter receiver. He claims that the parametric mixer is advantageous because of better off-frequency signal rejection, very little loss in signal strength, lower equipment costs, and, through upverting, some degree of mixer gain.

Dayton had quite a number of technical and social seminars, and I wish I could have attended them all. All of the military branches discussed their MARS programs. Wayne Green, editor of 73 magazine, talked about technological advances he envisions for ham radio. The ARRL conducted several forums, including their own technical seminars. There were club forums, code forums, DX forums, contest forums, homebrew forums, slow scan TV forums, RTTY forums, AMSAT forums, media forums, and YL forums. There are, in fact, enough forums and seminars to keep me interested in Dayton for many years to come.

I hope to see you there next time.

KD5DL

JUNE

Salem

1982 DAYTON HAMVENTION--MECCA OR MADNESS??

When last we left our intrepid travellers, they were busily engaged in preparation for the annual (star) trek to that granddaddy bigdaddy of them all, the (ta dah) (drumroll and cymbal crash) 1982 DAYTON HAMVENTION.

Actually, it looked like the yearly trip was running at half speed this year. I had trouble convincing people this year that April in Dayton was where it was at, amateur radiowise. Fortunately, there were a few stalwarts like Joe Garland WA5FLT who could be counted on, but a couple of our usual diehards like Jim Shideler WB5YWO and Joe K5JB were vacillating. Ultimately, the crowd would finally swell to six as Stan WB5UIY came in for the count and we gained a rookie in the lineup WB5FZD.

The plan for transportation this year was a Delta flight out of Tulsa on Thursday before the opening day in Dayton. Jim WB5YWO made me promise not to abandon him solo on the flight by jumping over to the private flight. This promise became even tougher when thursday's morning weather showed absolutely beautiful skies for a milk run all the way. It hurt even more when Sunday's weather was passable coming back, but a couple of thunderstorms along the route would have kept us on our toes. Sigh. K5JB was less than enthusiastic since he spends a good deal of time on airplanes, but he eventually came around. Stan was champing at the bit to go, especially since he missed last year with the impending birth of his son (Stan was always the master of timing, this year we made him circle the important day on the calendar in red. Abstinence makes the heart think of Dayton) Also, wonder of wonders, rookie John was an odds on favorite (5 to 2 at the last posting) to actually be on the plane. He has had a lot of false starts in the past. This time, I personally purchased his ticket to make sure that he would at least have the opportunity.

The plan was to truck over to Tulsa and catch the flight out about 9 p.m. or so. Sure would be nice if Delta came in to the city. Oh, well, the fare savings was about 35% for this red eye extravaganza. The plan was to meet Jim at Joseph's restaurant on our way to Tulsa. This would require an intermediate stop at Drumright. I wouldn't say that JB broke the speed limit on the way, but the travel was just a little brisk after we all arrived at the meeting place late. A similar trip to Tulsa after dinner brought us to the airplane a whole 10 minutes before blastoff. The stewardesses on the flight were nice, but not friendly. I am usure that they didn't know quite what to think when six amateurs got on their flight with a HT average of about 2.4 per amateur. They were obviously exiled to the late night flight for prior misdeeds. One got into the spirit of the event and permitted herself to be photographed with the group after I told her that I was a photographer from Playboy Magazine doing a pictorial called the "Girls of Delta Airlines."

The plane changed over at Atlanta (don't know why we go to Dayton by way of Atlanta, Quo Vadis Delta?). This time the stewardess were not friendly, but downright hostile. As our group was chatting away, an attendant sided up to me and suggested that some people on the flight wanted to sleep. I told her in no uncertain terms that they could ask for the sleeping section of the plane and as far as I was concerned, she could leave a wakeup call for Dayton. I drank three extra cups of coffee just to make sure she didn't sleep on the flight. The N5MS Drink-A-Talkie also got a workout on the flight (See February 1981 issue of C & E).

God Bless him, Hoss WA5ZAI was waiting for us at our arrival at 1:45 a.m. Now that's a friend. One of the first snafus of the trip occurred at the Hertz counter when I went to pick up the rent car. The guaranteed reservation wasn't. Now, I know that I made that reservation and confirmed it also. Now I would like to know what they have a reservation center for if they don't reserve cars. I looked up at the board and saw that as a promotion, they had a reservation waiting for O.J. Simpson, one of the Hertz resident runners. I told them that we would take his automobile since I knew that he would not be there. A quick thump on the table and a mild threat and the counter person produced a full-size Regal (nothing is full size to six bruisers with Walkie Talkies and a lot of luggage).

I handed the keys off to Stanley as our resident driver and we headed off to our smancy fancy Holiday Inn. They called it the Dayton Mall Holiday Inn, but this is a misnomer because it doesn't appear to be anywhere close to Dayton being basically 15 miles south of downtown and about 20 minutes from the arena site. This is what you get when you send in for reservations only 4 months before the big event. The place was posh though with a jacuzzi and enclosed swimming pool just off the balcony, three floors straight down.

We divided up the rooms and hit the rack so as to make an early start the next day. One plan was to hit Mendelson's Surplus downtown on the way to the Arena. We really didn't get moving until about 9:45 or so and we completely drove past downtown, do not pass go, direct to the Hamvention site. The opening festivities were a little more organized than last year when we had to wait about 15 minutes for them to drop the rope. This time we purchased our tickets and sauntered into what should have been a closed flea market after slipping after a couple of cops. This way we had a whole extra hour of shopping before the market was actually open.

A plan of action in the flea market, especially at Dayton demands that you make a quick sortie through the area with the long range scanners in operation. I quickly bogged down in the first row when I saw a table full of Motorola. Several in the group struck gold in the this preview shopping. Jim WB5YWO found the buy of the day with a Motorola PT-400 with with charger sleeve and AC power supply. JB began some serious negotiations toward the eventual purchase of an Azden 10 meter FM rig. I would have followed suit, but by the time that Joe's resistance finally broke down and he purchased, they were all gone for me. Missed again.

The flea market was definitely a buyer's market this year, especially for Motorola. There were hard times and I have never seen so many UHF HT's go begging. The advent of the synthesized walkie talkie has really put a crimp in the commercial radio converted to amateur radio market.

The market was open until about 7 p.m. so that means that we put in about 8 hours the first day alone. Whew. My feet were already begging for mercy. Back to the motel. JB went out for dinner with a couple of the locals after we all got invited to the house of N8ADN for a little serious beer drinking and snacks. It was here that John WB5FZD and Jim WB5YWO reached their stride proving unequivocally that Oklahomans do know how to drink beer. The weather was simply outstanding this day and there is nothing like a drunk's singing on a clear nite. What a sight. We went back to the hotel to pick up Stanley and then nose around for a place to eat. One thing about the Dayton Mall, there were a few nice places to eat. We drove around until we saw a familiar spot, Chi Chi's, so we stopped. Now, why did we go all the way to Dayton to eat Tex Mex?

After six hours of sleep, I was ready to go back to hit the flea market again, this time a little harder than

the day before. This time, the work began in earnest. I started at the southwest corner of the flea market and began working the rows one at a time. I priced a couple of Avanti antennas and made preparation for a purchase of a couple of their thru the glass antennas for the next day. It was also a fortunate thing to catch Joe Kelly W5LFK and Gilly Wood W5NUT in the flea market and they graciously consented to take my overload back to OKC if they had room. I was already pushing my weight limit after buying a 12 volt 10 amp lambda power supply. I quickly deposited this at our local rest stop with the Miami Valley FM Repeater group and went on. I found a test set for my UHF Motorola MSY repeater as well as a PL encoder and a couple of 8072 spares for the 90 watt finals. I should know better than to buy used tubes in the flea market, but these look like brand new tubes. My usual rule is don't buy batteries or tubes in the flea market or something you can't carry in one hand. I saw WA5BPS walking along contributing a little Oklahoma color to the flea market with his furlined feather filled cowboy hat.

Toward the shank of the afternoon, I began to feel a little guilty because I had never attended one of the seminars in my 7 trips to Dayton. I saw Stan inside and he led me to the Advance Computer Controller booth and we drooled over a microprocessor controlled repeater device that had voice telemetry. This thing can do it all in a most spectacular fashion. It has everything from a voice synthesizer to remote base capability. One of its neatest functions was its reverse autopatch. The person who dials in on the repeater is answered and he then hits a series of tones corresponding to each club members call. The repeater's voice synthesizer then calls the club member by call and listens for an answer. If there is no answer, the repeater hangs up. Another clever function is the use of a 75 millisecond delay analog "bucket brigade" delay line. In this fashion, by switching the audio in real time, the repeater will chop off the squelch tale or mute the touch tones before a peep is heard out of them. Well, after all of this, I finally went to hear WA6AXX talk about the device at one of the seminars that afternoon.

The flea market shut up early in order to allow everyone to get back to the motel room to clean up before the banquet that night. Hoss decided to go hear Roy Neal K6DUE of NBC talk. It was a close decision for me, but eventually all of us went with Keith WA8ZWJ to a real honest to goodness, you guessed it, "Mexican" restaurant. Oh, no, twice in one weekend and I learned the hard way that the pepper seeds can grow to be the size of small boulders overnite.

Back at the motel, some of the troops were fading fast. John WB5FZD made a quick situp drill when Stanley decided to test the smoke alarm. The man must have reflexes like a cat. Which reminds me. John lost the war of the nerves when he tried to dunk me with cold water on Friday morning while I was in the shower. Fortunately, I only caught a small part of it, but I don't really blame John for the shenanigan. I blame the broke door lock on the bathroom, so it is all really Holiday Inn's fault. We moved into different rooms the next night and I made sure that our room had a bathroom door that locked. The next morning while John was in the shower, I grabbed up the ice bucket and filled it full of cold water, then checked to see that old trusting John had left the bathroom door open. This time rather than trying to throw the water over the top which makes aiming the shot a real problem, I came in from the side and scored a direct hit. I locked the door, then ran out. Just to make sure that the revenge was complete, on Sunday before we checked out, K5JB found a Frederick's of Hollywood sack under his bed while policing the area. I retrieved it from the trashcan and repacked it into John suitcase while he was in the shower. He told me that Cathy, his wife, usually unpacks his bags when he gets home . . .

Jim was in fine form for the weekend. He brought along enough cameras and film to sink a Fotomat lady. And if that wasn't enough, he brought along some special glasses for each of us. I left the bunny ears and arrow through the head at home. Those were just a little bold. Jim got some decent snaps especially when he took off Saturday afternoon to go to the Air Force Museum out at Wright Pat AFB. The only problem is that he didn't know when to leave and John WB5FZD was with him. Jim was outside darting around snapping pictures like crazy right at 5:00 p.m. when one of the guards drove up and told him that it would soon be time for him to leave. He said yeh, yeh, and snapped a couple of more. Finally, the guard suggested that he get in the car and he would give Jim a ride to the front gate to wait for us to show. As Jim and the cop drove up, John was standing by the gate and Jim suggested to John that he better go find a lawyer for him and have them come over to the guard house because he thought that he would need some help getting out. John's eyes went to the size of baseballs and started looking for a phone before Jim told him that everything was cool.

One of the more interesting services I found was the Kenwood and Icom User's group started by Rob Pohorence N8RT of Port St. Lucie, Florida. One of the services provided by Rob is the Trio/Kenwood and Icom Newsletters that are published by him 10 times a year. Rob also makes various kits available for improvements in these radios. Rob also runs a Kenwood/Trio User's Net which begins on 14,320 Khz (+5 Khz) at 2000 UTC. The frequency shifts to 21,400 at approximately 2100 UTC. The Icom User's Net meets each Saturday at 1800 UTC on 14,320 Khz (+5 Khz) and shifts to 21,400 Khz at 1700 Khz. This is quite a useful service even though just a little commercial in nature. The subscriptions for the Newsletter run \$8.00 each year for each one and subscriptions run from October to September for the Icom newsletter and February to January for the Trio/Kenwood. I bought a couple of sets of back issues and they were quite interesting indeed. One of the Icom issues contained the latest poop on a remote controller for the IC-720, something that Icom is obviously dreaming up right now. The only problem is that part of the material was written in Japanese. Like I said, subscriptions are \$8.00 a year and that entitles you to all the back issues plus all issues during the newsletter year. I will say this about the nets. Rob or any net control operator doesn't refuse to discuss your problem on the air even though you may not be a subscriber. The nets are open to everybody.

We had to leave early so we missed the prize drawing. (Actually, I missed all of it. I was still out scrounging in the flea market) Fortunately, nobody had to worry because nobody got the the grandprize that I know. A slight miscalculation in time and a last minute stop for something to eat had us arriving at the airplane checkin point with under a minute to spare. Our timing was getting better. A couple of hour layover gave us an opportunity to sample some of the local firewater and we chatted and pulled and tugged over the goodies. I had barely gotten in to sit down when the plane began moving. The flight got back about 10:15 or so that evening and after another hour and a half on the road we were back. Whatatrip!! Now, there is a new twist. The Hamvention people are taking reservations right now for rooms for next year and I need to find that address now

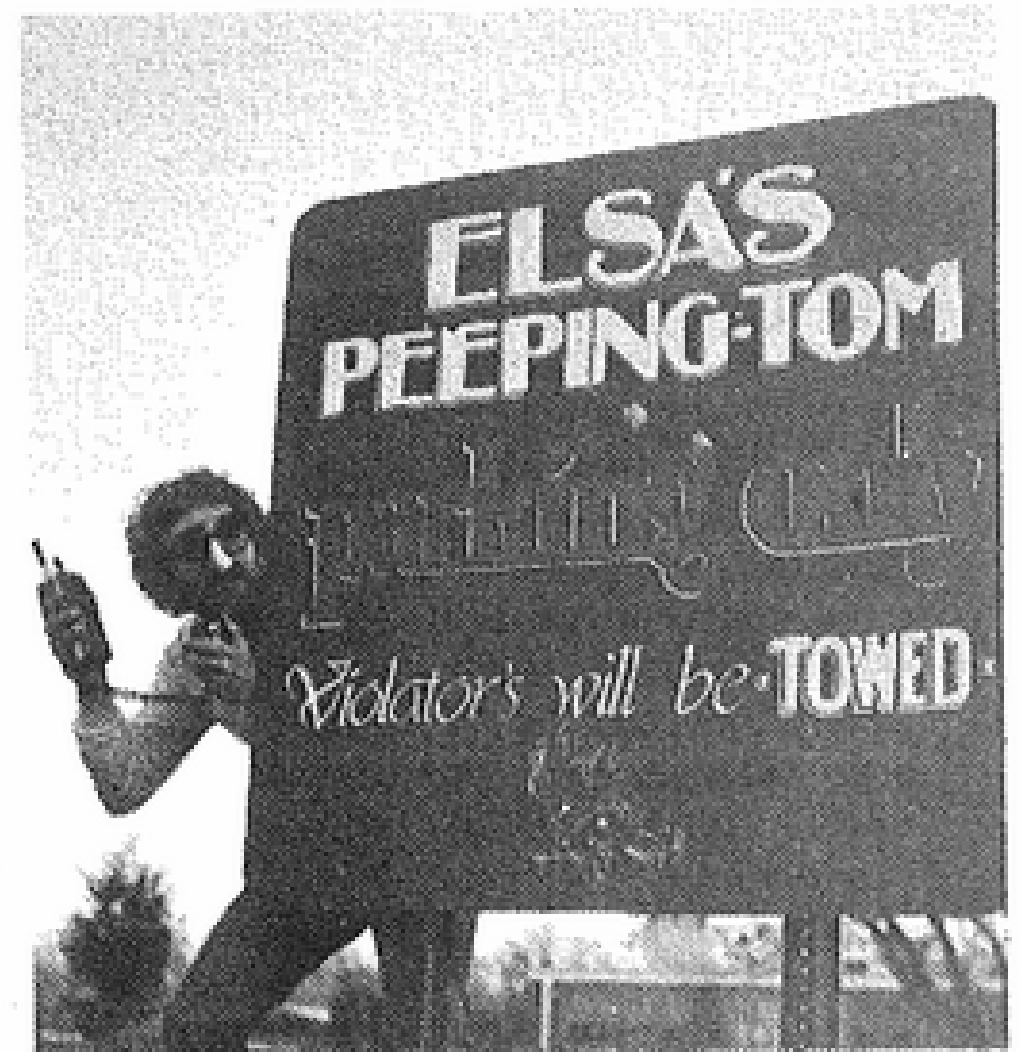
Micheal Salem N5MS



1.



3.



2.



4.

L. to R.: 1. OKC group talk at Delta Terminal before departure. (Hams are easy to spot with h.t.s) 2. WA5FLT, portable peeper at Elsa's Mexican Food. 3. WB5UIY, K5JB, & N5MS check early morning flea market bargains. 4. This is a group shot of the crazy crew from OKC. Joe, WA5FLT; Jim, WB5YWO; Joe, K5JB; John, WB5FZD; Mike, N5MS; & Stan WB5UIY. Notice the noses, nobody is a straight man anymore. 5. Icom shows off with an 8 foot walkie-talkie and N5MS reaches for the PTT with a little help from WB5UIY, WB5FZD, & K5JB..... Check Mike Salem's Column for details.



5.

COLLECTOR AND EMITTER

Last month I said that I would present a touchtone decoder using a variety of different circuits. This subject is just a little heavier than I thought. It appears that the best approach will be to briefly mention a couple of new monolithic DTMF decoders, then describe a complete receiver that I have laid out using an AMI switched capacitor prefilter and the Mostek 5102 decoder. Actually nothing about this stuff is brand new, but I have not seen a lot of literature about them. I don't think that I will be able to wrap this up this month, so the S3525 and 5102 decoder will probably appear next month along with a PC Card layout.

Since the advent of the digital filter, one of the natural uses for these devices has been DTMF receivers. Touch tone has almost completely become the standard for repeater control as well as telephone. I have been through the whole wash with TT decoders starting with the omp amp with feedback inductors and capacitors through the very latest in PLL NE567 including prefilters and missing pulse detectors and now the digital circuits. In a word, the new circuits are nothing short of fantastic both in size and operation.

The SSI 201 DTMF Receiver is a monolithic single chip 22 pin decoder that is simplicity itself. It is made by Silicon Systems Incorporated, a custom chip outfit in Tustin, California. Their telephone number is (714) 731-7110. The hookup of this circuit is shown below. It only requires two external bypass capacitors. The output is hexadecimal or binary 2 of 8.

The SSI201 started out over \$100 in single quantity price, but it appears that the price is dropping somewhat. I had a quotation that the chip was down to \$40.00 or so at last check. I didn't have time to confirm this before press time. I acquired a couple of these about three weeks ago or so and will try to have something on them next time. The circuit is, of course, easy.

The price drop of the 201 is really no surprise. This is happening with a lot of different chips. The Mostek 5102 also has dropped in price from about \$50.00 to about \$25.00. The Mostek still requires a prefilter for proper operation. The January issue of QST for 1982 described a circuit that interfaces some ITT prefilters to the 5102. The only problem is that the ITT chips are hybrids and cost about \$60.00 for the set. The QST article also had a PC card layout. Not wanting to do this the easy way, I laid out my own card using the AMI S3525 DTMF prefilter that uses switched capacitors. The circuit for the AMI is relatively simple and is subject to some parts value diddling if you choose. I have the circuit on the next page for those of you who are interested. This is not the complete circuit that I used. I added a couple of extra outputs and a variety of doodads to increase the cards versatility. The card is double sided and I hope to have some prototypes available soon. The AMI chip is only \$16.50 each from Schweber and that is a pretty decent price for a complete prefilter. AMI has some Ap Notes that show how to hook the S3525 up to a variety of different DTMF receivers including the Collins Rockwell and others.

There are other monolithic DTMF decoders. Mitel has a nifty one that is also switched capacitor prefilter with digital decoders that is quite neat. I have access to a couple of those and may try to work up something with them. Next month, more on DTMF.

Micheal Salem N5MS

One of my avowed purposes of going to Dayton was to take a serious look at some Avanti through the glass antennas. My old car was quite a warrior, but it had to be put to sleep when I bought the new pontiac. Although it probably would not have bothered me much, I just couldn't quite bring myself to drill a hole for the antenna. Or actually I should say antennas. I was planning on having a VHF, UHF and 10M FM setup eventually. For occasional short jaunts, I even thought about going HF mobile, but that will come after I can come up with some way to put a mount on a plastic bumper.

The Avanti through the glass antenna appeared to be an attractive compromise to the problem. In the old bug, I had a couple of Phelps Dodge antenna and I was never that impressed with the operation. It just seems like my old antenna specialists VHF antenna worked so much better. I expected even more of a compromise when I realized that the energy to the antenna would have to transfer through the glass capacitively. It just looked like magic to me.

The antennas were about \$30.00 apiece (average) at Dayton. I bought a AP 151.3G for VHF and an AP 450.5G for UHF. Both of the antennas came home with Joe Kelly W5LFK because I was already carrying my limit on the airplane.

Once I got back, I sauntered down to TD's Radio to have a little professional help in completing my radio installation. And it was well worth the cost. Bruce helped me run the cables and power plus make the battery connection while I installed the antennas and ran the cables. After some thinking, and following a suggestion by Darrel WA5TOO, Bruce and I went down to the local auto parts house and bought a six fuse block and mounted it under a panel by the glove compartment. Bruce put a large fuse block under the hood, then brought the power cable through a hole in the floor up to the fuse block. He terminated the wire on one side and I can now run individual fuses to four different pieces of equipment (I cut off one side of the fuse block to leave just four fuses. Bruce then ran another power cable down the side of the passenger compartment and into the trunk. This will eventually terminate in another fuse block for trunk mounting a couple of amplifiers. While we were at it, Bruce also ran three different pieces of RG58 for RF connections. Just to make sure that I had not forgotten anything, and I mean anything, I had Bruce run about a 20 foot length of 30 conductor ribbon cable for miscellaneous control lines. We also had to route the UHF cable to the front and I mounted both of the Avanti antennas on the back window.

The installation was quite simple. You must first clean the glass inside and out until it is squeaky clean. Then using a cardboard cutout, you position the metal foot until you know where you want it. It does make a difference in the tuning, by the way, if you have imbedded wires in the glass for rear window defrostering. You then partially assemble the part of the antenna that goes on the outside, then peel off a stickum on the metal foot and carefully position the antenna, then press onto the glass. There is only one chance to do this right. Once it is on, it will not come off. I partially solved this problem by just resting the edge of the foot on the glass at an angle, then once it was at the desired position, I would roll the foot forward on the glass.

The inside coupling box is mounted in the same way. The outside foot must be protected from water and this is done by spreading a layer of RTV sealer around the metal mounting foot, then pressing a plastic cover over the RTV. I would suggest that you try to scrape away as much of the RTV as possible after pressing

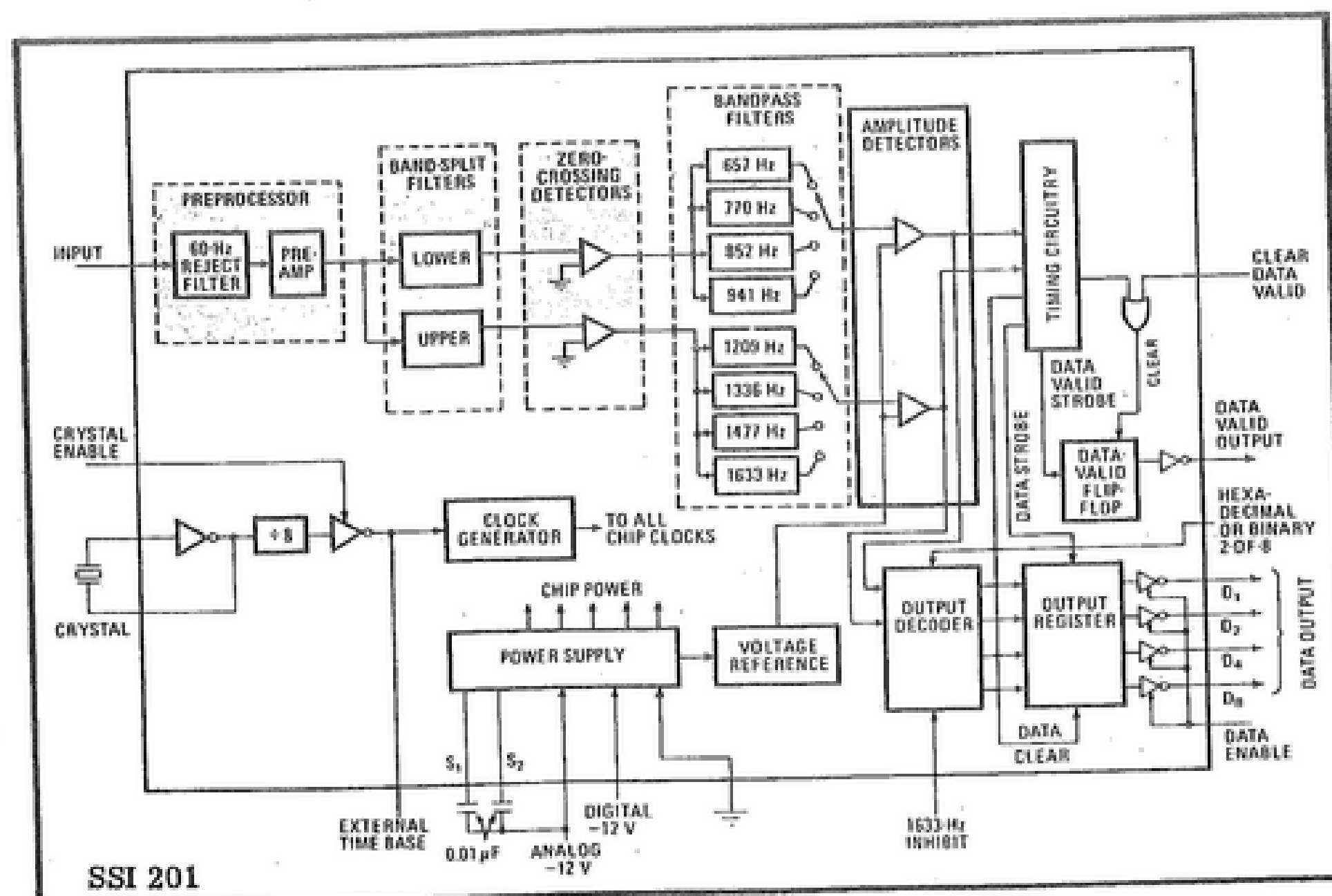


Figure 1. One chip DTMF receiver. This contains all the circuits for a dual-tone multifrequency receiver which requires high-pass, high-Q bandpass, and bandsplit filters, in addition to extensive digital logic, are all integrated with second and third order switched capacitor filters on a single chip. Data output is hexadecimal or binary 2 of 8 output. The receiver uses a single crystal of the 3.58 Mhz variety. The minimum amplitude the receiver will accept is -124 dbm at 600 ohms and the maximum amplitude is +6 dbm (runs from 53 millivolts to 1.3 volts). The 201 will accept twist from +4 db to -8 db and can detect a valid tone in the presence of 2 volts of 60 hertz interference. Power dissipation is about 350 milliwatts from a 12 volt supply.

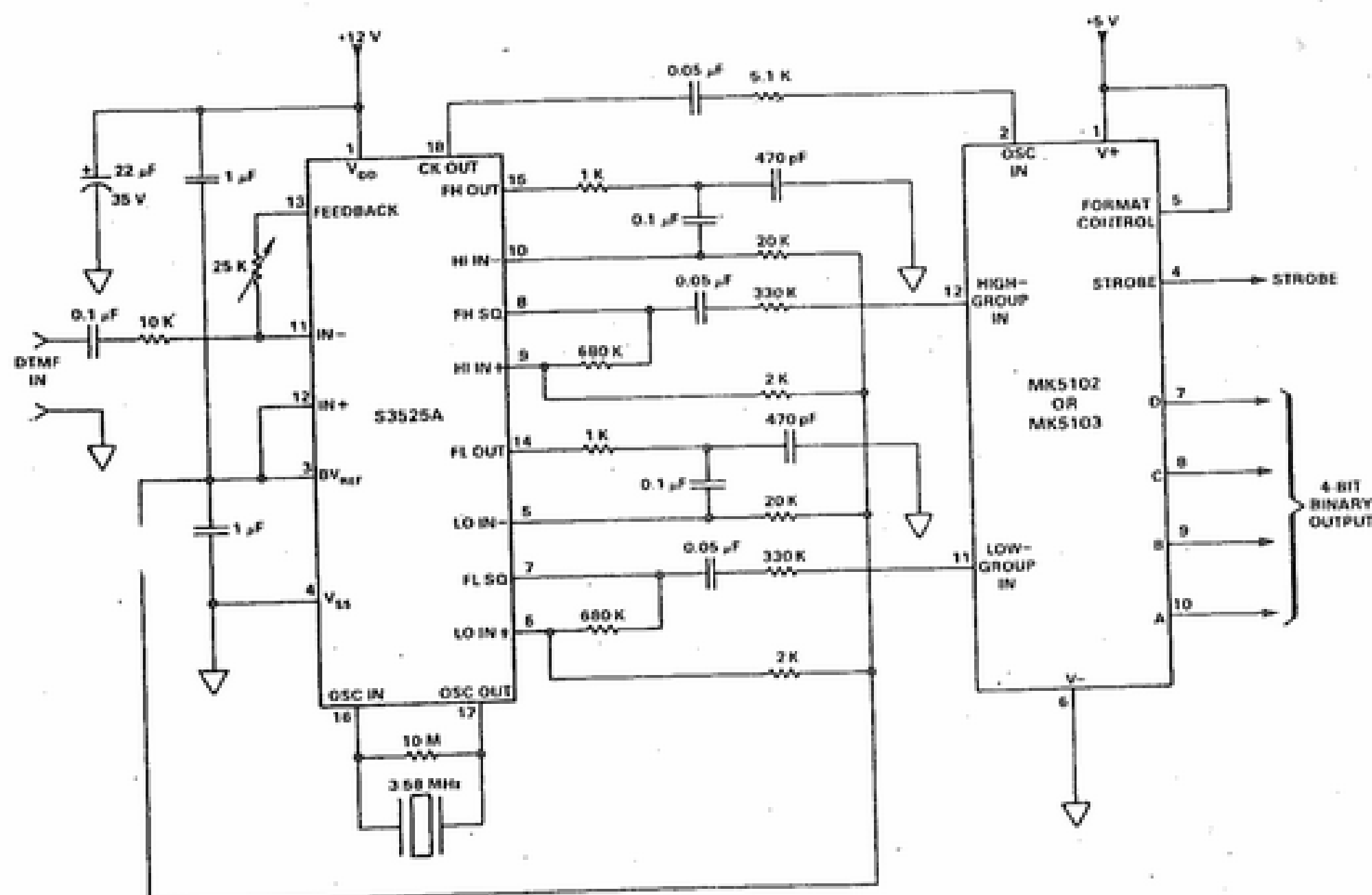


Figure 2. A Mostek MK5102/AMI S3525A DTMF Receiver. The S3525A is an 18 pin monolithic CMOS switched capacitor prefilter that uses a 3.58 Mhz crystal as the time base and has a buffered clock output to drive the oscillator of the MK5102. The S3525A also has on-chip comparators which can be used to construct adjustable squaring circuits. The dynamic input range of the tone decoder is 32 db and has a twist acceptability of 18 db or so. Typical decode time is about 40 milliseconds.

the plastic cover to the metal foot and glass. The excess can be cleaned away after the RTV has dried the next day, but this could also result in you scratching the glass with the razor blade as you try to cut it off.

Each of the inside coupling boxes have a screw adjustment on the box for tuning. They also have some type of ground attachment. The instructions make it clear that grounding the antenna is not necessary, but helpful. The VHF antenna uses a clip to connect to a nearby screw if available. If not, they offer a metal plate to capacitively couple to the metal of the car. The UHF antenna has some foil which is suppose to capacitively couple to the metal of the car also. I ran the cables under the trim. The UHF antenna went to the front of the car while I terminated the VHF antenna in the trunk. At this point, I interfaced the antenna to an amplifier which would typically cook about 60 watts out. I put the amplifier in the trunk because I did not want the losses in delivering power to the antenna through a long cable run. Also there was no room in the front of the car for the amplifier.

Tuneup was a breeze. Darrel helped and we found that the reflected power went to virtually nothing with full output from the amplifier just by turning the adjustment screw. Never had an antenna do that before. And the same was true when I tuned up the UHF antenna the next day. I did have to clip it, but not too much. On UHF the power fell to virtually nothing but did budge the needle up just slightly (maybe about .05 watts or so) with a full 2 watts to the antenna.

I used one of my cables to run to the VHF amplifier from the front. The result was a cool 60 watts and Darrel and I tried it out. He was running about 75 watts in his blazer truck and he drove all the way to Del City and we were just starting to break up so badly we couldn't hear each other.

The antenna is a 3 db gain antenna on VHF and 5 db on UHF. Of course, Avanti makes CB antenna, so I am not really sure if they know how to build antennas or write ads for them. It doesn't seem possible that these antennas are gain devices. The VHF seems to work extremely well. I can hit just about anything I can hear. I can switch the amplifier in and out by raising the high low power switch on the radio. This way I can put out either 200 milliwatts (which is not enough to key the amplifier or the full 60 watts. Eventually, using a couple of conductors from my 30 wire cable I will fix the amplifier to be switched in and out. I will also probably have to modify the TR switch in the amplifier to key on the lower power level.

The UHF antenna I can not really say that much about. I have not used it that much recently. It is small on the glass and appears to be a relatively good radiator, but I don't have a large enough sample yet to make any determinations.

All in all, I will say that I think that the Avanti's represent a new and novel system of antennas. I talked with WB5DUC the other day who has had an Avanti for quite some time and really likes it. They definitely make the installation easier and keep you from drilling any unnecessary holes. Destallation requires only a sharp bladed putty knife. I have not had the opportunity to talk to Avanti about replacement glue to put the antenna on another car, but I haven't had the need to yet.

I would say that these antennas are every bit as good a radiator as my old antenna specialists. This may not be a coincidence as I understand that AS has just bought the Avanti line factory.

Avanti even provides window cleaner, silicone adhesive and a little plastic trowel as a part of the installation kit. The instruction manual for each antenna is quite complete and is a real help.

The antenna can be set at any angle from the mounting foot. I wondered what would happen if you went through a car wash and gave a good tug on the antenna or if you ran under a low slung branch. The solution here is that Avanti just doesn't place the metal directly on the glass. There is a layer of tough cellulose type material between the glass and the metal foot. In a nonlinear situation, the cellulose would probably tear off before it would harm the glass. In addition, if the mounting screws are adjusted just right, the odds are that the antenna, if hit, would lie down before tearing off its mount. Since the antenna is so light, it really does not need a lot of tension on the screw to hold the antenna up.

Avanti also provides you with a little rubber cap in case you want to take the antenna off and need to protect the screw mount. They also provide a luster cap I guess for corona protection. I dunno.

PARTS LIST

AP 151.3G

Part No.	Qty.	Description
SUB 331	1	Coupling box
PS-135	1	Coax Assembly
2981	1	Whip
SUB-332	1	Hardware Kit Complete
PS 136	1	Shielding Foil
2975	1	Luster Cap Large
2885	1	Chrome Mounting Foot
2886	1	Ferrule
2887	2	10-32 x 1/2" Screw
2889	1	Luster Cap Small
2893	1	Grip Nut
2883	4	Coax clip
3179	1	Window Cleaner
2882	1	Silicone Adhesive
SUB 378	1	Plastic Cover
3173	1	Trowel
3177	1	Tape
3204	1	Owners Manual

All in all, the antenna is quite a performer and my new mobile installation appears to be working like dynamite with the new antennas in place. I would recommend them to anyone who needs a simple no holes mobile installation. Or also for those of you who are apartment dwellers and want to get to the outside world. The 10 meter version of this antenna should work well.

Micheal Salem N5MS

DALLAS HAMCOM--BIG "D" WEEKEND

So why would I promote the Dallas Hamcom in a special edition of the C & E designed to promote the Ham Holiday set for OKC? Why not? And more especially, Ham Com is coming up shortly and may very well be over before you read this. But for a few of you who will have this C & E in hand soon, Dallas HamCom is a lot of fun. The Northpark Inn is a good location and the air conditioned flea market is nice. I think that I enjoy the trip to Dallas the most and the fact that a bunch of us go out to dinner on Saturday evening make it a real treat. I generally go down for the Saturday festivities and come back that night. The airplane makes this an easy trip. Last year we had about 15 or so in the dinner party and the people at Southern Kitchen really had their hands full with us. So check it out. Besides, Hamcom is next in the hamfest schedule.

Micheal Salem N5MS

GREAT PLAINS A.R.C.

Our May meeting was called to order with 14 members and guests present. The secretary and treasurer reports were read and approved. Gerry N5BOY reported that the swapfest cost the club \$49.14. We thank everyone that donated time, money, or paid for things to make it a success. We had 171 registered.

The Wheatstraw Club sent a thank you card for the good time at the swapfest.

After discussion a request was made that we contact ARRL about the procedures for obtaining an E.C. and to relate the clubs feelings about how the E.C. should be appointed. Gerald N5CCV said he would call ARRL.

A motion was made to make the Eyeball QSO and Swapfest and annual affair. Motion carried.

The swapfest at Wagoner, Ok. was announced. Our guest, V.J. Niemeyer WA5PUX, from Tulsa explained the various features and what it was all about. Sounds like a good one.

Meeting adjourned

OTHER HAPPENINGS

Oren WB5EDD got to work some rare DX the other day. He got to talk to his son-in-law in Woodward. (Darrel had just received his new call N5EPO.)

A huge congratulations goes to Rick WB5BOZ. He went to Oklahoma City and took the test for his advance ticket. He not only passed it but went back in and took the test for his extra license and passed that one also! We are all mighty proud of you Rick!

Gerald N5CCV has a new 10 meter rig. (Psst, it has a channel 19 in it. What do you think of that!)

Darrel N5EPO finally got his mobil out of his XYL's car.

Jay N5EPI got his tower up. Gerry N5BOY went down to help him. I hear they had lots of problems.

Gerry N5BOY, David WN5LUI, and Gerald N5CCV are still taking trips. Keep trying fellas.

Joan has a new rig. She's about to learn what all the knobs are for. Keep trying N5EPJ!

Arnold still hasn't drilled the hole in his house to bring his coax in. We're wondering if he (KA5LTW) is still trying to get his XYL

Nona KA5LTT to let him drill it! Hi!

Freida N5EOX is to busy fishing to ham. Hope you're catching some big ones!

Gordon KB5XI got caught talking baby talk on 2-meter. Right Doyle?

Larry K0CIO wasn't at the last meeting so he got volunteered to coordinate field day. Let everyone be warned! Attend the meetings!

Wes has a new phanetics for his call, W4ZSL. He's now the Zany Storm Looker.

David WN5LUI got a new VFO for his Kenwood. Now if he can get the cords he will have it made.

Harry KC5OU passed his code for his extra license and he is waiting to hear about the written.

If you missed the Enid/GPARC Eyeball QSO and Swapfest at Mooreland you missed a go-o-o-d time. People started gathering around 9:00 A.M. and it wasn't long before the swap tables started filling up. Amateurs got to meet radio friends they had never met as well as old friends they hadn't seen in awhile. XYL's got to meet other XYL's as well as the harmonics. From a personal point of view it was great for me to see so many other lady amateurs!

During the morning session Don Steele N5CMX from Enid presented an excellent program on CPR. He did a great job.

Dinner was started at 1:30 P.M. Oh my, you should have seen those tables. It was a carry in dinner and carry in they did! Six long tables were loaded with everything from

the meats to the desserts. The XYL's out did themselves. I heard lots of comments on how good everything was!

Our after dinner entertainment was the Gospel Lights from Vici. They are a young group getting started of whom two are amateurs Jay Ladd N5EPI and Rick Ladd WD5BOZ. The groups music and singing was outstanding! Everyone sure enjoyed their music and they were given a standing ovation at the close of the final number. The after noon lady's program was presented by Peggy Chambers from Enid. She presented a program on flower arrangement. It was an excellent program and she gave the ladys many new ideas.

The day was a huge success with 171 registered. Everyone enjoyed the day of visiting, swapping, music, programs, and dinner.

Its the spring of the year and among the other spring happenings are the sever weather alerts. On May 5 the Northwest Oklahoma Weather Net was called up at 5:30 P.M. Bill KD5JR, Doug WB5EGZ and two Woodward city police manned the radar site. Larry K0CIO was net control. Spotters were Darrel N5EPO, Oren WB5EDD, Gerald N5CCV, Gordon KB5XI, Nolan KA0KEK, Ron WB0PGD, Carla WB0QGW, Ansel W0DOZ, O.C. WA5OUV, Lee W5HGH, W.B. K5MUT, David WN5LUI, Jim KA5AAE, Harry KC5OU, and Gerry N5BOY. We had spotters

covering all of northwest Oklahoma and south central Kansas. Hail and high wind were reported. Net secured at 7:00P.M.

The weather net was again called May 11 at 6:58 P.M. Bill KD5JR and Doug WB5EGZ manned the radar. Gordon KB5XI manned the 2-meter, Woodward police officer Jerry Nichol manned the police radio. Also Ed Dawson Woodward city manager, Jim Arnold Woodward under sheriff, and Melvin Gaston Woodward County Administrator and EMT were at the radar site to help with the sever weather emergency. Net control was Larry K0CIO. Spotters were Ron WB0PGD, Carla WB0QGW, John WB5OVQ, Gerry N5BOY, Oren WB5EDD, Nolan KA0KEK, Willis N5OO, David WN5LUI, Darrel N5EPO, Gerald N5CCV, Frank W5HFZ, Lee W5HGH, Harry KC5OU, Wes W4ZSL, Jim KA5AAE, Windle WA5PLW, Doc WB5ECY, Rod WB5OVT, and O.C. WA5OUV. Also to check in to the net were Dennis WB5ISN at Edmond and Tom WD5JPI at Byron. Northwest Okla. and south central Kansas were well covered. Luckily no lives were lost. Wind, hail, rain, and 5 tornadoes were reported. The cooperation shown during the alert by the people at the radar site and on the air is greatly appreciated by Doug WB5EGZ Civil Defense Director, Bill KD5JR Emergency Coordinator and all the Northwest Oklahoma Weather Net spotters. Net secured at 9.58 P.M.

Its a good feeling to see so much cooperation and professional workmanship among so many people in all capacities during emergencies. Keep up the good work!



Club officers of Great Plains and Enid Amateur Radio clubs at the hamfest, featuring Leonard, WA5FSN. Pix: Bill Wyatt, KD5JR

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VHF CLUB ANNIVERSARY & REUNION DATE SET

COINCIDES WITH HAM HOLIDAY/ARRL CONVENTION

All members and former members of the Oklahoma Central VHF Amateur Radio Club, originally known as The Oklahoma Central 6 Meter Net, are invited to attend the 25th Anniversary celebration, Friday, July 23, 1982, at the Quality Inn Motel Convention Center, Reno and Eastern, in Oklahoma City. This event will precede Ham Holiday and the ARRL State Convention on Saturday and Sunday at the Myriad, only two miles away, with easy, 4-lane road access.

If you were ever a member (we have a list of over 500) you are invited, and any guests you may wish to bring. We are planning for 250 to 300, since an early survey indicated that many from out-of-State would be there, as well as many who are inactive or have dropped their calls. It is reported that 54 are Silent Keys.

Old timers will really enjoy recalling all the fun of 6 Meter DX, the Certificates that went out all over the U.S. and to several foreign countries, the Gold Award, transmitter hunts, emergency nets, State Fair operation, March of Dimes pickup and the social activities that made the club so successful.

The Reunion program:

- 5:00 P.M. --- Eyeball QSO's and perusal of memorabilia.
- 6:15 P.M. --- Buffet Dinner with music
- 7:30 P.M. --- Program

The program will include a memorial service in memory of our deceased members; and entertainment, with a "Magic Show" that will be enjoyed by everyone.

We have reserved a block of 100 rooms at the Quality Inn Motel at a special rate of \$35.00 per night (single or double). These are also available to anyone attending Ham Holiday. Room reservations are made direct to the Motel, 112 N. Eastern, OKC OK 73117, and state "VHF Meeting" to get the special rate, whether or not attending the Reunion. The deadline for room reservations is July 8, 1982.

Make reservations for the Reunion on the form below. Deadline is July 10, 1982...but don't delay, mail it now, so we will know how to make final plans for this big party. W5VCJ

TWENTY FIVE YEARS!

That's a long time. It was twenty five years ago when the Six Meter Net first formed. At that time there were two other clubs in Oklahoma City, the Aeronautical Center Amateur Radio Club, which is still flourishing; and the Oklahoma City Amateur Radio Club, which is extinct.

At its peak, there were over 100 members of the Six Meter Net, later to become the Oklahoma Central VHF Amateur Radio Club. Most of them lived within driving distance of the club house. In total, there were as many as 288 names in the six meter net directory which listed operators who were within ground wave (technically "direct wave") range of Oklahoma City.

Steve Stevens, W5VCJ, who must have been a kid when this all started, has been contacting as many of the members as he can. He started on the project a year ago and at the first of the year he had identified about 300 members who indicated they would be able to attend the reunion planned for the weekend of Ham Holiday. Sadly he had identified 53 silent keys. He published a list of 81 missing people in the December 1981 C&E, asking information on whereabouts. The results of his efforts will not be known for sure until the reunion, which is going to begin the Friday evening of Ham Holiday weekend.

Details are covered below. Even if you are not a member of the VHF club, you might want to come and look over the memorabilia that Steve has collected. I got a sample of it at the 20 year party and got a big kick out of the pictures of the gang back when they were the "old gang".

Besides the highlights of the 6 meter caravans and other social activities, it should be interesting to follow the evolution of the club from the strictly VHF days (which were pretty salty in themselves - with the sunspot peak in 1958, etc.) to a versatile group with strong public service mission.

Few people know that at one time the Oklahoma City EOC was adopted by the VHF club which arranged for equipping and manning the communication center with multi-band amateur radio equipment and operators. Some of the county Civil Defense equipment was installed by the club. Prior to the arrival of 2 meter FM, the U.S. Weather Service Office at Will Rogers field was equipped and manned by the club during periods of bad weather. The frequencies of 50.25 and 50.5 MHz (the change occurred with incentive licensing) were the place to be to find out what was going on. (cont. next page)

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• DON'T DELAY - MAIL IT TODAY! •
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VHF-25 RESERVATION FORM	
MAKE CHECK TO: VHF-25. MAIL TO: T.W. STEVENS (W5VCJ), BOX 976, EDMOND OK 73483	
NAME _____	OLD CALL _____ NEW CALL _____
ADDRESS _____	
<u>DEADLINE IS</u>	RESERVATION FOR ONE MEMBER @ \$13.00* <u>13.00</u>
<u>July 10, 1982</u>	RESERVATION FOR GUEST(S) @ 10.00* _____
<u>HURRY!</u>	AMOUNT ENCLOSED _____
NAME(S) OF GUEST(S) _____	*DINNER INCLUDED
(ALSO-CALL, IF ANY)	

My own initiation in Net operation began with the old Nite Owl Net which met every night on 50.25, and with advent of incentive licensing, on 50.5 MHz. Net control was selected by a toss of the coin, or by whoever wanted to do it. The Net Control Station would spend the evening twisting the beam around to catch the Sixers (Heathkit, that is), 50 miles out. I didn't have the luxury of a beam for quite a while; a turnstile served my purpose. W5HXL liked 'em and talked me in to it. He claimed they worked equally poor in all directions! In fact, he had two of the things, stacked. Single sideband broke up that old gang of mine. The new fangled rigs just weren't compatible with the unstable AM (6A3) rigs that were common. Separate net frequencies were established for the new A3J rigs but as the numbers became divided, they also dwindled, much of the gang drifting off into HF land. Then came the 2 Meter repeater. First there was a division of opinion about the legality of the things. The conservatives felt that since they were not mentioned in the regs, they were not legal. The liberals felt that since they were not mentioned in the regs, they were not illegal.

The VHF Club never did seriously consider putting a repeater on the air, except maybe a portable one that could be activated at a remote site in case of an emergency. Repeaters sprouted up like dandelions and there wasn't much pressure to put another one on the air.

One thing characterizes the VHF Club now, and as far as I know, always has, and that is a hassle-free association of folks with common interest in Amateur Radio; ready, of course, to pitch in when emergency happens. The Saturday morning coffee sessions at the Red Cross started when Bob's Amateur Electronics closed and left the Amateurs no place to congregate on Saturday mornings and swap yarns. The policy was to make everyone welcome, club member, or not.

Well, for someone who is relatively new to the Club, I have rambled a lot about history. If Steve, W5VCJ, or one of the other "old timers" had written this it would have been more complete, accurate, and more interesting. One time Steve took me aside and gave me a bunch of wisdom related to the difference in attitude between the old timers and the eager young bucks. I don't remember much of his advice now, and that is the difference between history and folklore. I remember what I want to - about things that I heard about. so I guess I have been rambling about VHF Club folklore rather than history. Well that's what happens when you keep re-electing a flakey secretary. Enjoy Ham Holiday! Joe, K5JB, Sec'y

...will be published next month. Because of the large mailing, this issue is being composed early, before the club meets, this month. We'll get 'em in next month. Joe, K5JB, Sec'y

Because of the number of prolific C&E contributors I saw there, I'm sure there is a bunch of reporting elsewhere in this issue on the antics of the Dayton Hamvention. I have been to several of them and I judge this one as one of the best. The flea market was the highest

Since I travel by commercial air quite often, I stifled my impulse buying, except for things I could put in my pocket. (Same trick as riding my motorcycle to a flea market!) Many times I lamented not driving the Cessna pickup this year, but I have to admit having a lot of fun travelling with the big gang from the area.

VHF AND UHF RADIO RANGE APPROXIMATIONS

On the return trip from Dayton, on the leg from Dayton to Atlanta, (makes no difference if you're going to heaven or hell, still have to change planes in Atlanta), I sat next to a man from Hustler (antennas, not magazines). We chatted a lot about relative quality of various manufacturer's products. No matter how much praise I could dish out, couldn't work up any freebees. (I might have tried harder if it had been the subject of magazines.) Anyway, we agreed on one thing. A dB is a dB, and that hasn't changed since Hertz was a pup. Some time ago I had a similar trip with an antenna representative and was a little more successful in getting a freebee. Of course he wasn't returning from a convention of scroungers.

He was from Antenna Specialists Co. and was doing some homework (planework?) on a customer's system, I suppose, and was using a radio range calculator configured like a little slide rule. I made my eyes real big, uttered some "Gee Whizzes", and he gave it to me. I have tried it on some sample problems and the results were pretty close. At the risk of oversimplification, I think I can cover the gist of the thing here.

It considers seven factors and by using the trick of adding dB's, comes up with estimated range. The range estimation is contained in a table of values which could be handled mathematically but it would be a bit cumbersome since the equations would have non-integer roots. I'll reproduce the table, half of it anyway, picking every other data point.

The factors considered are transmitter output power, tower height, receiver sensitivity, mobile antenna gain, base station antenna gain, transmission line loss, and terrain. One additional factor I forgot is noise generated by the mobile unit.

The way range is calculated is to add all the factors in dB's and look up the range in the table. Some of the factors have negative values. They are subtracted, (actually added al-

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• DON'T FORGET TO SEND IN YOUR RESERVATION

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• FOR

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• VHF CLUB 25 YEAR CELEBRATION PARTY

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• (SEE COUPON ON BACK)

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gebraically). So, lets start with transmitter power.

Using one watt as 0 dB reference, 2 watts gives 3 dB, 10 watts gives 10 dB, 100 watts gives 20 dB, etc. Pick an output power and write down the equivalent dB value.

Tower height effect requires use of a table to make it simple. The calculator was based on a 0 dB reference tower height of 6 1/4 feet. If you want you can calculate the tower factor by assuming 6 dB increase for each doubling of tower height. The table below gives the same results:

tower height	rel. dB
25 feet	12
50	18
75	21
100	24
150	27
200	30
300	33

TABLE 1. Tower height effect on range

Receiver sensitivity appers to be a mistake on the range calculator because if it were rated to have the same effect as transmitter power, doubling the receiver sensitivity (halving the microvolts) would be equivalent to quadrupling the transmitter power. Anyway for what it is worth, I'll tabulate the factors:

Rx. Sensitivity	rel. dB
0.25 uV	30
0.50	27
1.0	24
5.0	14
10.0	6

TABLE 2. Receiver sensitivity factor

Antenna gain is handled in the conventional manner. Mobile antenna gain is referenced to a ground plane and base station antenna gain is usually referenced to a dipole. Write down the assumed gains of both mobile and base station antennas.

Now we start taking away. You have to reckon with the transmission line. (Boy, did I have to reckon with some last weekend. On 450, some of the line I was using was "dummy load with incidental leakage out the other end"!)

This is pretty straight forward. Just look up the factors for the transmission line you intend to use, at the frequency you are going to use it, and add this quantity, a minus, to your notes. For RG-8/U, a hundred feet worth, figure -2.6 dB for 2 meters and -5 dB for 450. If it is vinyl jacket foam, it will be a little better when new but will soon be about the same as the old jive RG-8 after the plasticizers contaminate the foam.

Now come the fudge factors. If you are operating in industrial area, flat terrain, figure in -3 dB. If it is urban area, flat terrain, use -2 dB. If it is suburban, flat terrain, the range contribution is 0 dB. If you are operating in hilly terrain, industrial area, use -6 dB; urban area, use -4 dB; and suburban area, -2 dB.

If the vehicle has noise crank in in another -3 dB. If the vehicle is equipped with a noise blander (usually only happens on low band) give your self +3 dB.

Now you can add up all these numbers and get the range factor that will be applied to the table on the right. the net range factor is the total of the factors you have been adding (and subtracting). There are three columns for range. Use the low band column for 10 and 6 meters, the high band column for 2 meters,

and the uhf column for 450. I suppose you could split the difference between high band and uhf to get an approximation for 220 MHz. In order to shorten the table, I picked every other data point so if your net range factor falls between two values given, split the difference between values given in the appropriate range column.

APPROX. RANGE IN MILES			
NET RANGE FACTOR	LOW BAND 25-50 MHz	VHF 130-174 MHz	UHF 450-470 MHz
48	14	--	--
50	15	--	--
52	16.5	10	--
54	18	11	--
56	20	12.5	--
58	22	14	--
60	24	15	10.5
62	26	16.5	12
64	28	18	13.5
66	30	20	14.5
68	34	22	16
70	36	24	17
72	39	26	18
74	41	28	20
76	44	30	22
78	47	33	23.5
80	50	35	25
82	54	38	27
84	57	40	28
86	60	43	30
88	62	45	31
90	65	47	32
92	67	48.5	33
94	70	50	34
96	72	51	35
98	72	52	36
100	75	53	37

TABLE 3. Range vs. range factors

I don't know what the criterion was for satisfactory performance but I imagine it was 20 dB of quieting in an FM receiver. We can squeeze more out of our radios than the commercials can because we are used to listening down in the noise. The values in the chart are interesting for comparison purposes anyway. One could assume some factors for acceptable degradation, add them to the range factor and look up an approximate range to be expected.

I ran a trial with some numbers I was familiar with from experience and found some problems. First, assume two mobile units on 2 Meters. With 10 watts, the range factor is 10. Add zero for tower height. (Now I see why 6 1/4 feet was taken as zero reference.) Assume 0.25 uV sensitivity and add 30 to our range factor. Total is now 40. If 3 dB gain antennas are used on both ends, add 6. Total is now 46. Assume feedline losses are negligible and we are operating in flat suburban terrain. These things contribute zero so the total is still 46. Look up our range...oops! Not even on the chart. Now I have worked 10 miles quite often with just such an equipment layout so there must be other factors. Of course if either vehicle is on high ground, effective antenna height is greater, and this can be taken into account by estimating HAAT, or height above average terrain. A twelve and a half feet hill gives us the 6 dB gain we need to get a range factor of 52 and put us on the chart. I suspect the 6 dB is actually in the amount of degradation we accept without complaining.

A better example is the path between Joe, WA5FLT and myself. It is noisy but we can do it with 10 watts on each end, 9 dB antennas on each end, my height about 40 feet, his at 50. Assuming 6 dB feed line loss (3 on each end), the range factor comes up to 85 which gives us 41 miles. The 9 dB needed to make 50 miles is probably the degradation we have over what the chartmakers call acceptable. Try it, see what you think. Joe, K5JB

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 ンリウツ リトミ サオトミ スセネ ホモリネ オ モリヤン ウリオミ. ナスセ
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Thought I should change elements so every-
 one could read this Jibberish that I am
 about to create. I bet it got your attention
 though! Didn't have much to tell or time to
 tell it last month or the month before so
 will try to tell it all here today.

At the March meeting we voted to hold the
 Novice Class this fall, for its hard to hold
 Intrest during the summer, for people would
 rather be out mowing their lawns or digging
 out all thoes little yellow flowers that
 come up every spring and go to seed before
 you have time to get them dug out! But that
 just gives you more to dig out next year....
 If you do have them under controll then you
 would rather be out fishing, camping, swimming,
 you name it, every thing but studying. So
 hope we have a good croud this fall for the
 class. Dave KD5FX, Vern N5ANV, Have volente-
 ered their services to teach the class with
 HELP from other club members.

The April meeting was held at our new
 meeting place...The Pioneer Drivein Bank
 across from the Pioneer Woman at 14th. st.
 and Highland. Looks like we might stay here
 for a while for every one likes it best
 so far, from the comments I have received.
 At least we have it for the rest of the year.

The business was short and quick for
 Grady WB5SAG was going to give a C.P.R.
 course to the club. He gave this about a
 year and a half ago and I think each year
 it should be one of our programs, for you
 never know when it could come in handy! And
 with us helping during a Disaster you might
 get a lot of pratice. THANKS GRADY.....

The May metting was held the 2nd thursday
 instead of the 3rd, for the room was not
 going to be available and I was going out of
 town. Several topics were brought up and
 tossed about. First the club is going to
 get caps with the lettering KAY COUNTY A.R.C.
 silkscreened on them the cap will be gold,
 that way we should stick out like a sore
 thumb at the diffrent events that we help
 with in the city, and for times that we go
 out on thoes things that we hope never happen.

But if they do it looks like the KAY
 COUNTY A.R.C. EMERGENCY COMMUNICATIONS TRUCK
 will be ready in a few months!!!!!! Yes
 thats right we finally got the beast! and
 what a beast it is, A 1972 Ford 1.5 ton 4X4
 Truck. It used to be a Seismic Recording
 truck that Conoco Inc. donated to us back
 eight months ago and just got. A lot of
 Thanks go to C.L.Hallmark W5ZWM for the
 last two years that he has been trying to get
 the thing donated. Grady WB5SAG & C.L. W5ZWM
 worked at stripping some junk out of the box
 the other night, while I got the Engine back
 to where it would run down the road instead
 of a slow walk, for it had sat for 3 years
 and just didn't want to go. Was sure glad
 Grady had some GO JOE and Lava soap when I
 got done for that thing sure was DIRTY, GREASY
 and just UCK. It will be a while before it
 is all done for a lot of work has to be done
 to it and some more equipment gathered for it.

It found a tempoary home untill it is done

at my farm for no problem with neighbors to
 yell What the #%** is that BIG thing doing
 their. And all the equipment to do the work
 to it is also at the farm. Once it is done
 it will pe parked at the PoncaCity Police
 station and will be centralely located that
 way. Some of the work such as the sand blasting
 of the box and painting will be done at a
 lalcal Business that is equped for that larg
 and type of vech. as a donation to the club
 As soon as I get all the plans drawn up and
 worked out on paper the work will begin and
 I will call on some folks to help me get the
 show on the road if you will.

Feild Day was also discussed, it will be
 at the shelter house at lake Ponca, same as
 the last two years. We will have a covered
 dish dinner as last year that worked out
 real good the only thing you need bring is
 a covered dish, all you married guys got
 that licked with ease! And you NEED to bring
 your own fork, spoon or whatever you use. Soft
 drinks will be firnished and cups etc.

Plan to have 3 rigs operating from the
 looks of it now.

The dinner will start about 6:00 pm Sat.
 eve. If you have any questions ,Delbert
 WB5YRN, Dave KD5FX & Lewis KA5JLZ are
 the Feild Day Committee just ask them.

Other tipics at hand, one of the local
 Hams Larry KD5CU put a local Radio station
 back on the air the other week. KPNC blew
 some parts in their xmitter power supply and
 the station Engineer knew Larry had some
 parts he was collecting for his amp. to build
 and called him in the middle of the night and
 got the parts and got the station back on the
 air in short time. HAM RADIO to the rescue
 again.....

Back to the May meeting the main topic was
 elections of Officers for the 82-83 year.
 Thats right the Midnight Special ran down
 the tracks that night.

President--Marsh Pronneke WA5UBO
 Vice Pres--David Land KD5FX
 Sec. Tres.-Delbert Foiles WB5YRN

Why that's the same crew that was their last
 year except for David Land--Welcome aboard
 Dave.

Well I need to get this in the mail so it
 makes deadline so see you on the air.

BEAMER ME UP SCOTTIE

--73' Marsh'WA5UBO

FOR SALE: Drake TR4 transceiver with Swan 117CX
 power supply in extra good condition. Works
 fine. Complete, \$375. Swan phone patch in large
 cabinet with 8" speaker completely wired and
 ready to use. \$50. KDK FM-144-10SX wired for
 TT mike, just back from factory for recondition
 with original mike, \$180. Can furnish new
 standard or TT mike for additional cost. Morse
 Morse-A-Keyer keyboard keyer (like new) works
 fine, \$100. Harry, KC5OU, Vivi OK 405-995-4761.

FOR SALE: Improve your fist overnight. InfoTech
 Model 10'D morse keyboard in original carton.
 \$150.00. Call Cliff, WB5TFM, 691-1194 (OKC)

July 23, 24, 25, 1982. Write those dates on your
 calendar now. Save that weekend for the best
 family hamfest ever.

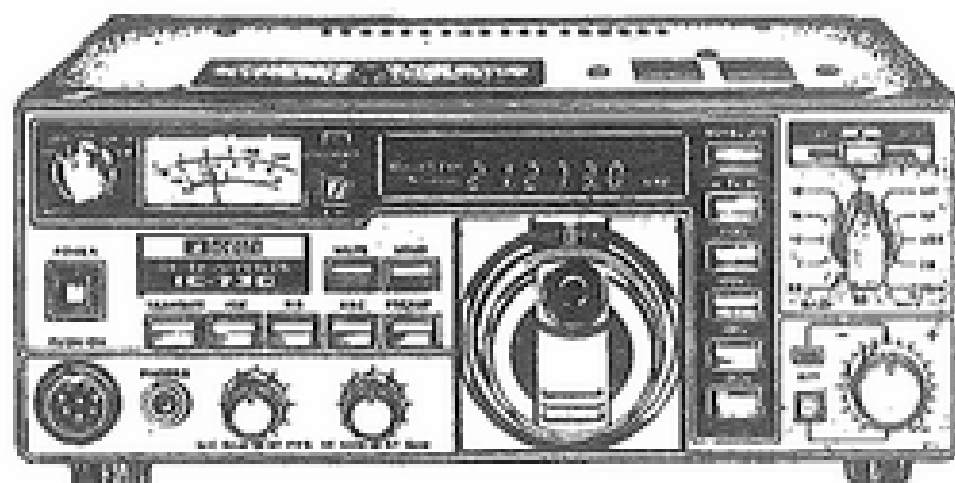
Now clip out the special pre-registration form
 inside this issue, and mail it in right away with
 your check. It's your guarantee to be eligible for
 lots of great fun at the Myriad Convention Center
 this summer when HAM HOLIDAY time comes
 around.

(Cont'd.)

More Information about:

- **HAM HOLIDAY '82**
- **COMPUTERFEST**
- **ARRL STATE CONVENTION**

**JULY
23, 24, 25
1982**



**MUST BE
PRESENT
FOR ALL
AWARDS***

**GRAND AWARD - \$1,000 VALUE!
ICOM IC-730 with mike & power supply**

*** Prize Policy:** The winner and/or his ticket must be present to claim any award except the pre-registration award. You may sign your ticket for someone else to hold for you. Unclaimed registrations will not be deposited for the main drawing - only for the pre-registration drawing.

Pre-registration: \$6.00 with attached form. All envelopes must be postmarked not later than midnight, July 17, 1982, to be eligible for pre-registration prize drawing. Registration packet with badges and tickets will be held at the door. No limit on number of tickets. No refunds or confirmations. Winner need not be present for this drawing only.

Admission: \$6.00 pre-registered; \$7.00 at the door. (Same price as last year.) This price is for everyone attending—visitors, wives, and teenagers—licensed or not. Children age 12 or younger admitted free with parent, but are not eligible for prizes. Badges must be worn as proof of registration for entry into any area, including exhibit hall, flea market, coffee lounge, and banquet/dance.

Facilities: Ham Holiday activities will take place in the northwest area of the Myriad Convention Center in downtown Oklahoma City (same as last year). All events Friday will be held on the main floor while commercial exhibits are being set up. Security has been arranged to protect the area at night. Upstairs meeting rooms will be open all day Saturday for forums, demonstrations, and ladies' programs. Saturday night banquet and dance will be downstairs adjoining the main area. Sunday drawing will be in the rear of the flea market / dealer display area.

Programs: Something to interest everyone. There will be the usual number of topical displays, forums, and seminars; but this year we are inviting computer people to present programs from beginning to advanced levels. There will be programs on DX, antennas, satellites, FM, alternate energy sources, and many others. Special groups are planning meetings: ARRL, Night Owls, Oklahoma Repeater Society, SMIRK, and CORA, to name a few. There will be the QLF and QRM contests, as usual. Ladies will have plenty of interesting things to do, although the plans are not yet finalized.

Flea Market: (Non-commercial only) Every person pre-registering gets a free table reservation. The 30,000 sq.ft. area is indoors and air-conditioned, with easy-access loading doors on Sheridan St. for setting up. If any tables are unclaimed Saturday morning, they will be offered free on a first-come, first-served basis.

Accommodations: The Sheraton Century Center across the street has offered us a block of hotel rooms at the reduced rate of \$50 each (unlimited occupants) and free use of a hospitality room during Ham Holiday. Underground walkway will be open to the Myriad and various downtown shops, restaurants, parking, and other hotels. To make reservations, contact hotels directly. See ads elsewhere in this issue.

Parking: Ample underground parking is available under the Myriad at the usual rate. In addition, there is substantial on-street and off-street parking located close to the Myriad.

Preregistration Award

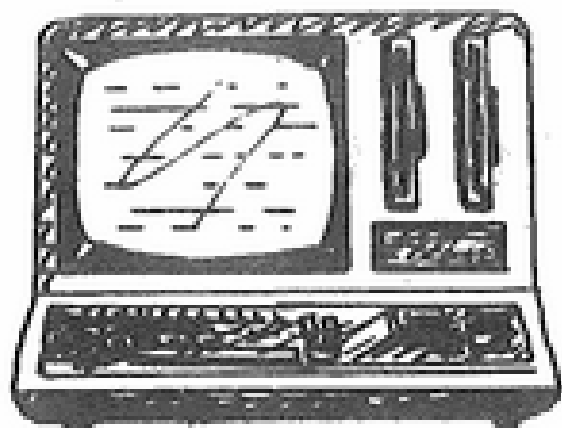


**USE THIS FORM
PRE-REGISTER NOW**

OVER

TAKE A TRS-80® COLOR COMPUTER HOME!

Three for the price of one:



Computerfest



H H '82



State Convention

CENTRAL OKLAHOMA RADIO AMATEURS

proudly invite everyone to attend
our *bigger and better*

HAM HOLIDAY '82

July 23, 24, 25

**Myriad Convention Center
Downtown Oklahoma City**

Bring a Friend!

OVER

PRE-REGISTRATION DEADLINE: Postmarked by July 17, 1982
to be eligible for Pre-registration award

Registration packet will be held at the door. Please do not request refunds or confirmations.

USE THIS FORM TO PRE-REGISTER

You may buy as many registrations as you desire at \$6.00 each. All participants and all guests over age 12 will be required to register to enter any area. Tickets at the door are more expensive, so pre-register the whole family!

Name _____	Single Registration	___ 1 ___ @ \$6.00	\$6.00
Call _____	Additional Persons (how many?)	___ @ \$6.00	\$ ___
Address _____	Saturday Night Banquet & Free Dance	___ @ \$8.00	\$ ___
City _____	QCWA Sunday Continental Breakfast	___ @ \$2.75	\$ ___
State, Zip _____	Total of check		\$ ___

**Make check or money order for this amount (no cash, please) payable to C.O.R.A.
Mail to C.O.R.A., P.O. Box 15013, Del City, OK 73155, before July 17, 1982.**

JUNE

A non-commercial flea market table is free to pre-registrants if reserved ahead. Specify whether you want it for Saturday only or for the whole weekend, so we can plan the arrangement more efficiently for you.

Please reserve one non-commercial Flea Market Table for me: ___ Sat. only ___ Sun. too

**Mail to C.O.R.A., P.O. Box 15013, Del City, OK 73155,
before July 17, 1982.**

HAM HOLIDAY - TENTATIVE SCHEDULE OF EVENTS *

FRIDAY

5:00 - 9:00 PM Registration
(MAIN HALL ENTRANCE)

6:00-9:00 PM Eyeball QSO Party
(MAIN HALL ENTRANCE)

7:30 PM QLF Contest (bring your
"KEY")
(MAIN HALL ENTRANCE)

Oklahoma City VHF Club celebrates its 25th anniversary with a gala banquet on Friday evening.

SATURDAY

7:30-9:00 AM Flea market set-up
(pre-registrants only)

9:00 AM Doors open to flea market
(MAIN HALL)
Ladies reception
(HOSPITALITY ROOM)

10:00 AM Ladies Program
(HOSPITALITY ROOM)
Personal Computers-The
Beginning
(CHEROKEE ROOM)
FM Forum-The Deviation Plan
(OKLAHOMA ROOM)

11:15 AM Ladies Program
(HOSPITALITY ROOM)
Emergency Radio-Central
Oklahoma
(CHEROKEE ROOM)
DX'ing-TYall Slides & Tapes
(OKLAHOMA ROOM)

12:00 LUNCH

1:00 PM Bingo
(JUBILEE ROOM-ADJOINING
MAIN HALL)
Personal Computers-Software
and Expansion
(CHEROKEE ROOM)
Oklahoma Repeater Society
(OKLAHOMA ROOM)

2:15 PM Bingo (continues in
JUBILEE ROOM)
C.O.R.A. - Annual Meeting
(OKLAHOMA ROOM)

2:15 PM
CONTD

6 meter DX-Outlook for the
80's
(CHEROKEE ROOM)

3:30 PM

Antenna Forum-SWR vs VSWR?
(OKLAHOMA ROOM)
AMSAT Forum-by Doug KO5I
(CHEROKEE ROOM)

6:00 PM

Flea Market Closes

7:00-8:30 PM

Western Bar-B-Q Banquet

8:30-Midnite

Western dance-featuring
the "Dixie Road Runners"
clogging team plus lots of
country music. Free west-
ern dance lessons.

9:30 PM

Night Owl Net

SUNDAY

8:00 AM QCWA Breakfast
(ADJACENT TO MAIN HALL)

9:00 AM Flea Market Opens
Ladies reception
(HOSPITALITY ROOM)

10:00 AM ARRL Forum
(CHEROKEE ROOM)
Personal Computers-Advanced
Programs
(OKLAHOMA ROOM)

11:15 AM DX Forum - QSL'ing
(OKLAHOMA ROOM)
Ladies Program continues
(HOSPITALITY ROOM)
Alternate Energy Resources
(CHEROKEE ROOM)

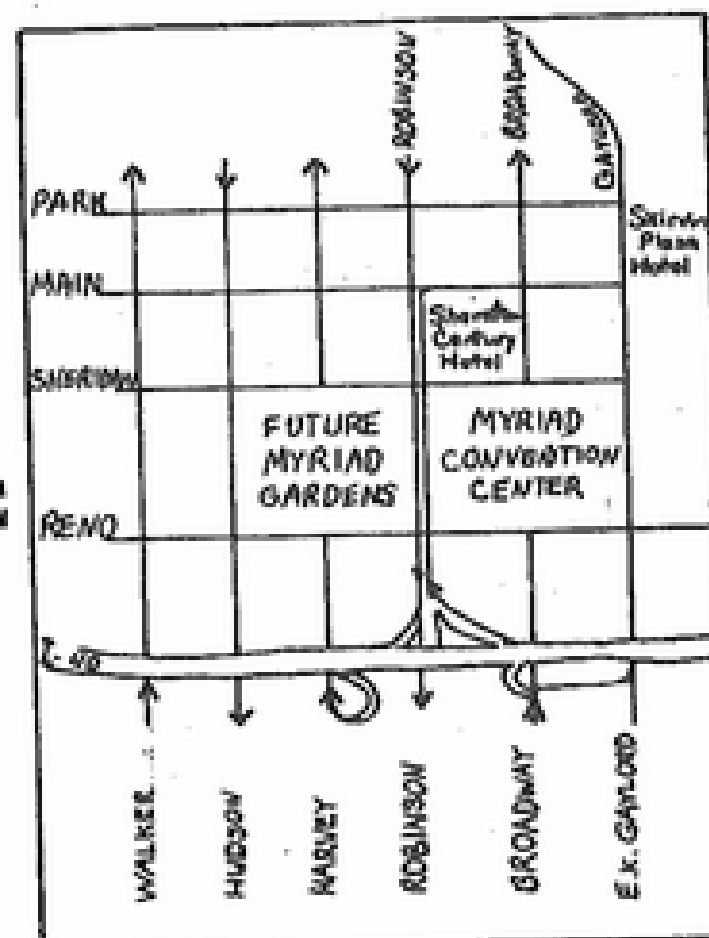
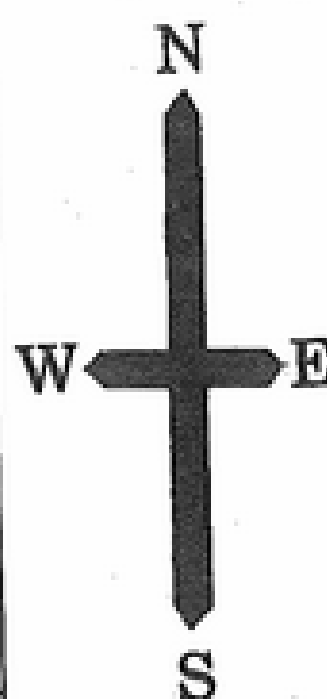
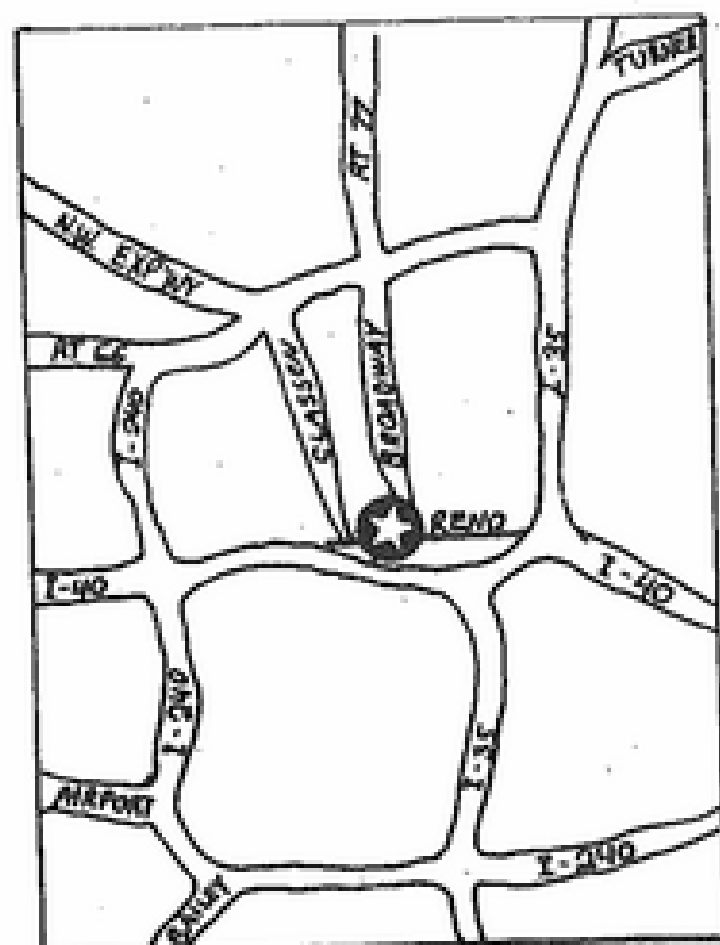
12:00 LUNCH

1:00 PM Awards Drawings
(MAIN HALL)

3:00 PM HAM HOLIDAY '82 CLOSES

*Times and programs are subject to change.

HAM HOLIDAY '82



The South Canadian Amateur Radio Society

A MEETING IN THE MERRY MONTH OF MAY.....

The South Canadian Amateur Radio Society met for its regular monthly meeting on May 8th at the Red Cross building in Norman. Seventeen members and guests were present. Those who attended were treated to a treasurer's report as well as a report from CORA on Ham Holiday progress. Pre-registration for Ham Holiday is very important in order to be eligible for the pre-registration award (which, by the way, I understand is a small computer). Should be fun!!! The list of members as well as a copy of the club constitution and application for ARRL affiliation have been forwarded to the ARRL. Also, the request for dup sheets for Field Day has been submitted.

W5SQJ reported that Field Day operation would be held at the Red Cross location. We still need a generator or else some magneto repair to the W5OU generator (any volunteers?).

The 80-40 meter dipole at the club station is still down and will be repaired next month we hope. KA5COI reported that the OU Amateur Radio Club is now fully operational at their new location and have procured a custom made console for their equipment which is both lockable and portable. The emergency coordinator, AF5X, reported that the Cleveland County Emergency group will provide a group of operators to the Severe Storms Lab this season for this end of a liaison with the National Weather Service. The OU club has volunteered a rig and power supply for the project.

The program next month (June) will be a review of contest procedures and/or a discussion of the diminishing population of Nine-Eyed Carp in Lake Thunderbird. Also, the possibility of another dinner meeting for July will be discussed.

-wa5rpp

Q.R. ZEDD AND HIS ELECTRIC SECRETARY

In response to the vitriolic attacks on the reputation and even the character of Oklahoma's beloved and greatest DXer, Q.R. Zedd, an intrepid reporter drove south out of Norman one day recently to attempt an interview with the Great One at his home QTH, Honor Roll Ranch.

We must admit that we were only partly successful, but we did succeed in learning new facts about the latest honor to come to the great man, and at the same time we picked up some thrilling news for all who plan to attend Ham Holiday, the world's greatest ham meeting slated for Oklahoma City soon.

The ranch was relatively quiet when we arrived. The cowboys were tending the white-face cattle, and some of J.R. Ewing's boys were checking out some of the oil wells. A team of 30 steeplejacks swarmed over some of the Great One's towers, checking out the ten-over-tens, the 12-element hf quads, the 40-foot dishes, etc. Around the mansion itself there was little activity, and Zedd's converted Greyhound bus was not in its usual place in the garage area. Undaunted, we proceeded to the back of the house, where, beside the Olympic-sized swimming pool, we found the lovely Tondelayo Schwartz, blonde, nubile, 19-year-old QSL secretary to Zedd.

"Why, hi, there!" Tondelayo beamed, wriggling up off the chaise lounge in order to shake hands. Her dazzling blue eyes showed concern. "What's the matter, honey? Has that ole cat got yur tongue?"

In response to the reporter's gargling sounds, the darling Tondelayo giggled happily. "Why, ah can see by the expression

on yur face that yur plumb surprised to find me in this little ole darlin' bikini. Isn't it just precious? The only trouble with it is, if you try to store it in the medicine cabinet, you get it lost amongst the Band-aids every tie-yum!"

We finally managed to ask if the great Zedd was on the premises.

"Why, my goo'ness, no!" Tondelayo beamed, again reclining on the chaise lounge and causing two steeplejacks to fall from one of the nearby towers. "Ah thought ever'body knew the darlin' man was in Washington this week!"

"We thought that was last month, Tondelayo, when he posed for the bronze bust to go in the Smithsonian."

"Why, no! He went ag'in, doncha know! He was sent for by the president."

"The president of the United States?" we gasped.

Tondelayo laughed merrily. "Why, shoo-er! The darlin' man had been so busy workin' DX, he needed another trip, anyway."

"What DX has the great Zedd worked lately?"

"Oh -- jus' ever'thang!"

"Ever'thang?"

"May goo'ness, yay-us! Las' week he worked Tibet, Mongolia, Liberal, Kansas, an' AD1S all on 1296, an' one night for practice he ran hisself off another five-band DXCC, so naturally now he's restin' in addition to he'pin' out the president, doncha know, an' ah'm fillin' out these few hunnert QSL cards you see here beside mah chaise lounge."

We could not resist asking, "Tondelayo, do you have career plans beyond being the blonde, nubile, 19-year-old QSL secretary for Mr. Zedd?"

Tondelayo wriggled again. "Mah goo'ness, honey, what did y'all have in mind?"

"Well, nothing, really. I mean, we just wondered if you plan to make a life of working at this uh position."

"Oh. Ah see." The sweet child pouted. "Way-yull, Ah really don't know what more a girl could ask out of life, doncha know. Ah mean, ah get to go on the big DX-peditions with him, an' operate the big station here when he's not home or otherwise occupied. Ah jus' don't know anythang else in life thet'd give me such a thrill...unless y'all got somethin' in mind...?"

"Tondelayo, you are the holder of the Amateur Extra license, is that so?"

"Yay-yus! Ah have also talked on all bands with Wayne Green. You know Wayne Green? Mah goo'ness, I 'speck you do, doesn't ever'body? He invented the electron! An' he belongs to the Menses Society...somepin like that, doncha know, only other geniuses can belong, an' they jus' talk to each other. But thet darlin' man is SO humble, he only writes a colyum about how he's a genius about once a year. Ah jus' love him!"

"Tondelayo, perhaps you could tell us what Mr. Zedd is doing in Washington with the president. We have had vicious letters which we hope to have a comment on --"

"Yay-yus! Ah saw some of those letters an' they jus' made me want to cry!"

"We can tell you're very emotional."

"Why...what did y'all have in mind?"

"Nothing --nothing. About the president --"

"Yay-yus. The president ast Q.R. to come to Washington an' see if he couldn't do somepin about the White House TV sets."

"The TV sets?"

"Yay-yus. They needed filters an' no one could supply 'em."

"Filters?"

"Yay-yus. It seems ever' time the darlin' president turned on his TV, he saw on the news this stuff about poor people. But everyone knows there aren't a lot of poor people anymore, jus' a FEW truly needy...one in Buffalo, ah think, an' maybe one in Dallas. So what Q.R. was gonna do was make

the president some Poor Filters fer his TV sets. So then, outta sight, outta --"

"I see. Well, Tondelayo, I'm sure everyone will be overjoyed to hear that our own Great One is helping the poor, overworked president. And this means you are alone here on the ranch?"

"Why? What did y'all have in mind?"

"Let us put it this way: when is Mr. Zedd likely to return so we might attempt an interview?"

"Why, ah don't rightly know! It ought to be in a day or two, though. He was gonna have coffee with some Congressmen, but they tole him it would take 'em until about October to make the coffee, if they used instant, an' early next year if they made real. So he's comin' on back as soon as he gets the filters made an' hooked on."

"Will the Great One be back in time for Ham Holiday?"

"Oh, I'm shooer he weyul! Q.R. LOVES Ham Holiday! If he's said it to me once, he's said it a millyun tiyums: 'Tondelayo, honey, there is NOTHIN' like that there Ham Holiday. Where else could you meet upancomers like KB5EK?'"

"And will you be there, too, Tondelayo?"

The darling girl wriggled and one of the steeplejacks fell off a nearby tower. "I wouldn't miss it for ANYTHANG! I've already bought a new outfit, a darlin' little sundress...sorta bare in back, and short, so if it's warm there in the Myriad I won't get all sweaty and all at my table in the flea market --"

"And you feel sure Q.R. will also attend?"

He'll be back in a few days! Ast him!"

"Then can we call you back in a few days?"

"Mah good'ness, honey, what DID you have in mind? Don't be bashful! Tell me raht now!"

"Thank you, Tondelayo Schwartz, blonde, nubile, 19-year-old QSL secretary for the great Q.R. Zedd."

"Y'all come back now, you heah?"

--KU5B

Dear Jack,

I would like to know what the big deal is about this fellow Q.R. Zedd!! Surely you must be aware that CONTESTING is where it's at!

Haven't you yokels in Oklahoma ever heard of S.W. Stakes, the greatest contester of all time? I realise that you may not be aware of S.W.'s great accomplishments in the contesting world, unless you listen around on 40 meter phone late at night from December to October each year.

I've been listening in and I feel it is my solemn duty, as an observer of persons who perform great feats on a daily basis, to tell you of the great S.W. Stakes, idol of all who aspire to contest greatness.

S.W. was born in the control room of an RCA receiving station on the east coast on November 22 1942 during a worldwide communications net. S.W.'s mother was the NCS! I should mention that our hero's father was the transmitter operator.

Our young friend's folks were too tight to hire a baby sitter, so he was taken to the station by either his mother or father each working day until he was five years old. Of course you can see that S.W. had an excellent opportunity to learn both CW and Phone operating techniques from his mom (phone) and his pop (CW). This could explain why our hero's voice rises one octave when battling through pile ups.

S.W.'s school life was brilliant, of course, with an A average in all things except citizenship (he kept taking cuts in the cafeteria line). S.W. is still attending

school except when it gets in the way of his contest activities, or when working at the Pizza Planet in Cheyenne Wells Colorado, where he and his mom and pop moved so he could be near his favorite megabuck station.

Let it be known by all, that during the month of October each year, our hero works at a feverish pitch directing the activities of the workmen who, employed by the famous Mr. Big Bucks, get all the antennas on the fifteen towers, ranging from 65 to 130 feet in height, ready for the greatest contest of all..... the ARRL November Sweepstakes. Of course the management of the Pizza Planet gives S.W. a leave of absence during this period, due to the public service nature of the event. Our subject also spends many hours testing the equipment to be used during the up-coming contest. He can be heard almost nightly testing his vomit speech processor and his specially built programmable keyer, which sends, receives, logs, dupes and makes snide remarks automatically with the pushing of a button. The keyer does lose something in the snide remarks department due to it's inability to sound better than thou. S.W. assures us Mr. Big Bucks has a team of experts working on this problem and should have a working model ready in time for the 1983 contest season.

During the final days prior to the big event our hero can be heard practicing adjusting his VOX so that he can talk and listen at the same time. He does this by making remarks about others who happen to join in his special test net while they are transmitting (the trick is not to be caught by the interloper).

Now we come to the big event. S.W. sets down before Mr. Big Bucks operating console consisting of no less than ten sets of Drake "C Line Twins" (two for each band) and 5 specially constructed RF amplifiers, each containing four 4CX1000's with 3/8 inch solid silver tubing tank coils and vacume variable tuning capacitors (you must use vacume variables if you intend to run 5KW output over a wide range of frequencies without retuning), each capable of 10KW input to the final. Our hero throws the big switch and there is a dull thrummmmm as the 5 pole transformers used as the plate supplies for the RF decks come to life. After warming the RF decks for one hour it is 5 minutes till ZERO HOUR.

I see by the digital contest clock on the wall that it is time to tune in the 40 meter band for more hints from the great S.W. Stakes. I will continue my description of S.W.'s last contest in future correspondence.

Sincerely,



(EDITOR'S NOTE: We wanted to get a reaction from Q.R. Zedd himself to these latest comments from various parts of our fair nation, but Zedd was in Washington at presstime, posing for a bronze bust that will be enshrined in the radio room at the Smithsonian Institution. Zedd's bust will be placed between those of his maternal grandfather, Marconi, and his paternal grandmother, Henryetta Edison. When Zedd returns, we will attempt to solicit comment. However, readers should be warned that Zedd, a quiet man, shuns the limelight and controversy, and may refuse to enter the public arena with an argument so clearly and indisputably in his favor.

-- KU5B

Phyllis M. Gilmore, KE6TC
23420 Washington St. Apt. 24
Colton, CA 92324

April 14, 1982

"KUSB"
via CGRA, Collector & Emitter
1020 Arthur Drive
Midwest City, OK 73110

Dear OM:

As editor of the TRW Amateur Radio Club's newsletter, Crosstalk, I get to read the exchange newsletters first (with a view to scavenging). Well, I've got to make a plea for mercy to you brilliant folks out there in OK.

I see an urgent need for publication (in book or booklet form) of the life and times of the esteemed Mr. Q. R. Zedd. I've only been studying this august personage for a few months, so I'm sure I've missed some information crucial to my development into an adequate radio amateur. Had I been able to sit, an adoring student, at his feet, perhaps my longest HF DX contact would have been out of the county.

Furthermore, unless a definitive biography (autobiography?) comes out, there will be no way to squelch some of the dire rumors circulating in these parts. Perhaps the most unhappy of these is that Zedd's unacknowledged harmonic is into CB DX (of course, he might just be bootlegging the surname). Could Zedd redeem this unhappy child with a few well placed di-dahs? Yet another rumor is that, unbeknownst to Mom Zedd, Q. R. is in fact married (not, however, to the QSL secretary). It seems, according to the signals, that Mr. & Mrs. decided on a separation after the day she pointed her beam east and he pointed his beam west, and each lit out after DXpeditions with the full gallon (plus) of precisely the same moment.

Please consider, as a minimum, making some of these delightful articles available in reprint. I love them!

'73.

Phyllis
Phyllis, KE6TC

DEAR SIR OR MADAM AS THE CASE MAY BE:

I suppose some real fool will suggest some kind of real stupid contest to show who the greatest DXer really is and I just want to say that is a real ignorant idee. Contests don't prove nothing and all they do is garbage up the bands which are already too crowded from the influx of CBers like you. Besides which the greatest of them all is Levi Longwire of Chicago, since he is the best 9 he would obviously be the greatest in the world, and if you try to deny it, you are a sap because who invented the pileup and the police riot but Levi, and had britches named after him besides?

I am not signing my name because I too am famous and too many people would be writing me for my autograph.

ANONYMOUS IN PEORIA

JACK M. BICKHAM, KUSB,
2603 Besurue Drive,
Norman, Okla., 73069

4 May 1982

Phyllis M. Gilmore, KE6TC,
23420 Washington St., Apt. 24,
Colton, Calif., 92324

Dear Phyllis,

Thank you for your kind letter about the exploits of the world's greatest DXer, Oklahoma's own Q.R. Zedd. Your suggestion about a more detailed biography is one with which I certainly sympathize, but the editor here is real mean (also poor) and I can only get at best one page a month to tell about the Great One's exploits. At the present time I have features about him written in advance and on the disk in my computer through next November, but for all I know this crazy man in charge of the C&E might pull the plug on me at any moment and not give me any space at all, so I have to be careful.

I do want you to know that the rumors you have heard about Zedd are largely (everything about him is "largely") untrue. As detailed some months ago, Zedd was married once but the marriage was annulled on grounds that it was never consummated; there was a great polar opening on the evening of the wedding, and the next day Zedd took off on a 200-country DX-pedition of his own, and the poor girl got tired of waiting and married some guy wearing a 10-4 Good Buddy shirt. As to stories of an unadmitted harmonic, everyone knows that Zedd has never been guilty of this kind of harmonic deviation, or any other.

Q.R. (as he allows his intimates to call him) would have replied to your letter himself, I am sure, but he is in Washington at this hour, posing for a bronze statue for the Smithsonian, where it will be displayed between similar busts of his maternal grandmother, Henryetta Edison, and his aunt, Fredrika Morse. I will pass your letter along to his nubile, blonde, 19-year-old QSL secretary, Tondelayo, so that it will receive his prompt attention when he returns home. If your bedsprings start vibrating from high-power rf, or the nails in the walls of the apartment start to glow, I suggest you turn on your rig; it will probably mean Q.R. Zedd is calling to thank you personally.

And again -- thanks!

'73.

Jack
Jack, KUSB

cc: Cora C&E



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We would like to welcome everyone to Ham Holiday 1982. Anyone traveling thru S.E. Oklahoma is welcome to use the SEOARA repeater, 146.01/.61 MHz, here in Hugo.

Nearly all of U.S. 70 across S.E. Oklahoma is covered by 2 meter repeaters, as is the drive between Okla City and Hugo. With hints from Idabel that they might be thinking about a repeater, this "wilderness" area of our state may soon be well covered by 2 meter repeaters.

The S.E. Oklahoma 2 meter repeater map was prepared from first and second hand info. It's as accurate as I could get it, but please remember that it's only an approximate map of mobile coverage. If anyone has any additions or corrections please let me know.

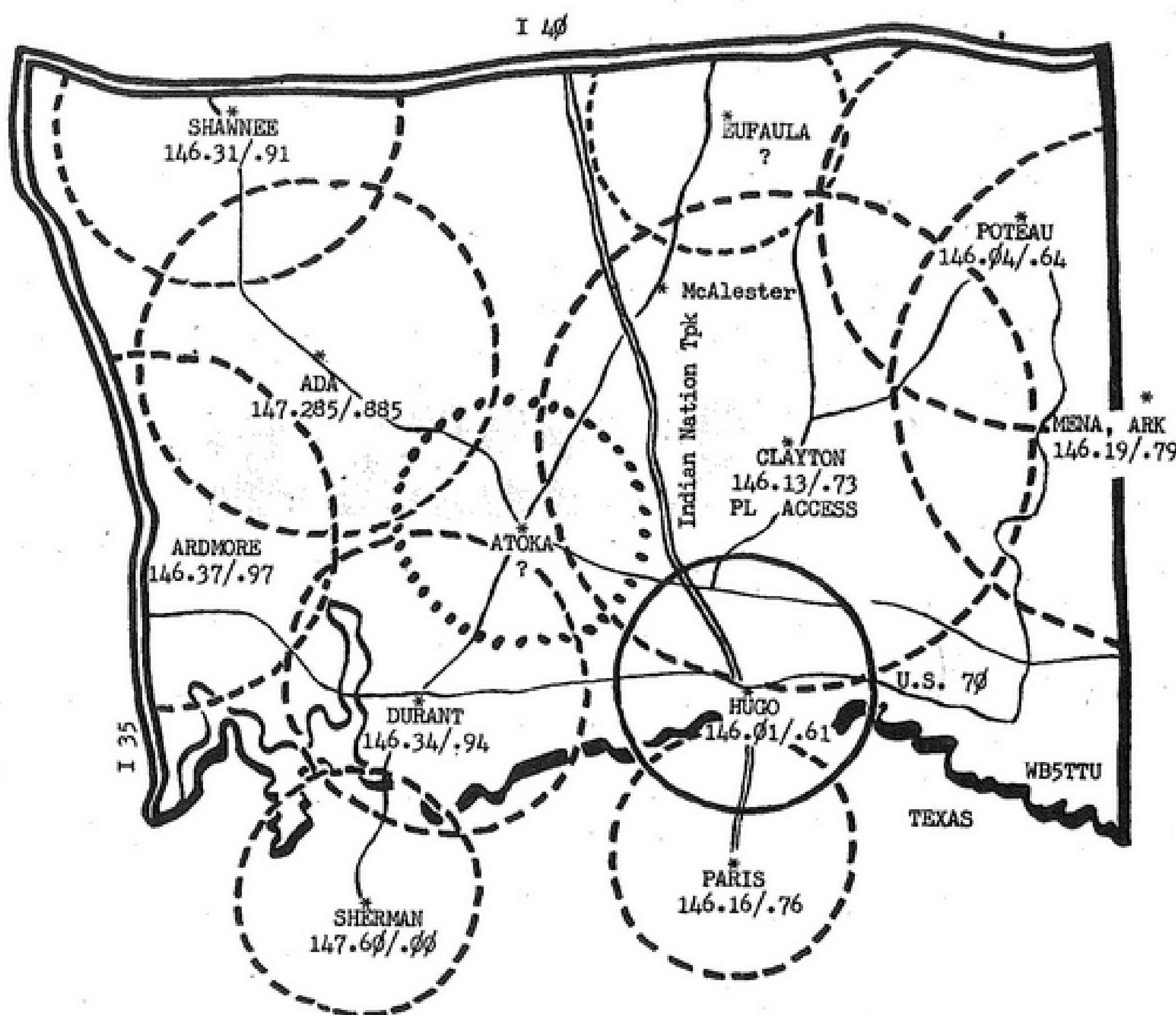
With the help of WA5FDU and KC5KI, we've been fine tuning our repeater for the storm season. We hope to get our duplexer back into operation soon. As our repeater sits now, we have no transmit coverage to the N.W. due to the location of the transmit antenna. Our receive antenna is at 181 feet HAAT and the transmit antenna is 80 feet below that.

SEOARA and Choctaw County ARES has been working close with our County Civil Defense Director. Our storm spotting has improved greatly since CD has officially backed our efforts. If anyone has a source for CD material; emblems, decals, patches etc. please contact me. Any ideas concerning ID's, passes, would be much appreciated.

The Red River Valley Amateur Radio Club, in Paris Texas, recently held their monthly business meeting. As president of that club, I'm happy to report that the critique held on the Amateur operation during the Paris tornado disaster brought out many good ideas. Some of these were: 1. Although we had a County ARES plan, we need many changes in it to reflect the lessons learned during the April 2nd disaster. 2. As strange as it may sound, we need better communications both within the Amateur groups and with our served agencies. 3. Our plan needs to be second nature with everyone. Lip service and having a nodding acquaintance with the plan just isn't enough. 4. A definite chain of command is needed. 5. Outside Amateur groups should be under the local EC, DEC or SEC.

RRVARC would like to thank the following: N.E. Texas DEC, WA5KZA; Lamar County EC, WB5JFL; all of the local Amateurs; the N.E. Texas SCM, and SEC; Grayson County ARES; Dallas and Tarrant County RACES and the many others who helped during the April 2nd tornado.

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OPERATION "MICKEY MOUSE"

FOR-ARD: Decided to perform a short mental exercise & decided/concluded this Article, if published, will be my/our first to CORA "C&E". First effort much too lengthy & "Mickey Mouse" in, oft used, (inelegant) sense. But, most difficult to condense two(2) plus months of activity-48 Ship days-into a Lucid Report. This, our first Freighter Adventure, included many activities; not the least of which involved W5NL/MM/MARITIME MOBILE/MICKEY MOUSE Shipboard (At Sea) Operations (OPS). A kind of "Mini" crisis early. We left home QTH, via Auto, on Dec. 9, 1981 for Port Newark, N.J. Wishing to try Two & Ten Mtr. gear enroute, discovered Power Supply missing!!-Neighbor (Jim) found same @ QTH & shipped Air Express (Newark Apt) in time for Ship Sailing, Dec. 23, 1981. Embarked on "Santa Elena" (Delta Lines) for Valparaiso, Chile & return (many Ports of Call)-Forty Eight (48) days of high Adventure & Disembarked Port Newark, Feb. 8, 1982. Considered the "Maritime Mobile" operation a kind of Luxury experience. Approx. 150 QSOs(26 States, 17 Countries) during 18 AT SEA days. The 10 Mtr OPS were definitely QRP, many Cassette Taped W/O objection from "Contactee" & most Ten (10) to Forty (40) minutes Max. in length. By choice & many limitations, this cannot be likened to a DX pedition or DX cc type of endeavor.

ACKNOWLEDGEMENTS: (a) To Ship's Master, Captain Schneider, Radio Officer, Frank Caparosi & Delta Steamship Lines, who approved (after some delay) & indulged Whisky Five Nancy Lima's "Mickey Mouse" endeavor. (b) To Ray, WB5BTT & Marvin K5HQP who graciously loaned the Converted "Charlie Bravo"/QRP-Sears Road Talker # 40-the Heart of the entire operation. (c) To eleven (11) other Passengers Pasajeros & some crew who also indulged this operation, & invaded a choice corner of the Aft Passenger's Lounge. (d) To OKC area Amateurs who, collectively, squandered many hours trying for suspected non-availability of W5NL/MM & therefore: Muchos Gracias. (e) A Radio Amateur (name & call??), I met at Heathkit, before trip, who advised me that Magnetic Mount Antennas would "Operationally" be most disappointing. (f) Many-Many others.

PORTS OF CALL: (a) Outgoing, We Hit Eight (8) Ports Philadelphia, Pa.; Baltimore, Md.; Charleston, S.C.; Miami, Fla.; Balboa, Panama Canal Zone; Guayaquil, Ecuador; Callao/Lima, Peru; & Valparaiso/Santiago, Chile. (b) Incoming/Returning-most of the same except we cautiously docked @ Matarini, Peru; skipped Miami Charleston, Baltimore; then Philadelphia & finally starting place, Port Newark. NOTE: At dinner, one evening, Captain Schneider Cajoled a Passenger, "We don't HIT Ports, We prefer to Dock or Berth".

SHIPS CARGO: Has to be the most important phase of Freighter Operations. Mucho, Mucho & hundreds of cargo items. A most fascinating pastime to witness the unloading/loading process at above cited ports. Ships & dockside Hoists & Cranes were in full swing. The Crew does not take much active part-the operations are by Longshoremen & many Dock Workers. Besides Palletized Cargo, the oncoming trend is toward Containerized methods (Standardized 20 & 40 Foot-frequently refrigerated (Freeze & Chill) Containers) that are Off and On loaded from dockside Tractor Trailers &, I presume whisked to market. Twice we witnessed the handling of Bananas (Approx 75,000 cases), each time. Most fascinating to see an almost endless line of dock workers carrying two cases (40# each)-one each shoulder-for about 24 hours, non-stop. Ecuador is the Banana Country & Guayaquil the Puerto. The 1st loading was for Valparaiso, Chile & 2nd, on return trip, for Philadelphia.

OPERATION "MICKEY MOUSE": I judge this report has been mostly Shiplide & Dockside oriented. But, did manage to intertwine this activity (About 3 Hrs/Day) amongst many Shipboard Activities. Discovered that each Passenger had a Hobby & Or On-Board Activity. Thus, my activity was not objectionable-except tht I found a table top cubbyhole in the Aft Passenger Lounge, adjacent & portside of TV & Stereo Equipment, most ideal location & replete with 120 VAC outlets. But, earlier "No Dice" for (MM) OPS, from Captain & Radio Officer, whilst sailing toward Philadelphia. Determined, an Amateur, on a previous voyage had not performed to their liking. Perhaps, having rubbed the Liberty Bell (For Good Luck), & showing documents & Equipment & maybe some composure, a resultant approval occurred at Port Charleston. Installed gear using Two (2) & Ten (10) meter Magnetic Mount Antennas. At best they behaved rather poorly. Reverted to an earlier fabricated Di-Pole (1:1 Balun- $\frac{1}{2}$ WL-16'-3" Length) The Captain had an Ordinary Seaman strung it between

two large masts (100 Ft For-ard of Fantail & 50' over ocean water line). It was Broadside of Fore-Aft Centerline & maybe was not an "Ordinary Antenna", because it reasonably matched Two (2) meter OPS & was great on Ten (Say 1.5 to 1.2-28.5 MHz to 28.9 MHz). My 100 Ft of RG-58 just reached to Passenger Lounge Location. On Passenger deck all windows (no portholes) were sealed, doors gasketed, & no side plate bulkhead fitting. Wedged Portside gasketed door in Lounge to obtain a $\frac{1}{2}$ inch crack for Coax entry. This Mod. did not seem to affect the overabundance of Aerocondiciono. This was most important in southern Climes.

FURTHER "MM" & ACTIVITIES: Two Meters became dead south from Miami & disconnected. But, the "Charlie Bravo" performed super (many 5x8s). Some highlights were: (a) Was able to contact the OKC area on three occasions. (1) On Jan 2, 1982, WA5YFI, Stan MWC & WB5BTT, Ray MWC (entire QSOs on Tape). But, on Jan 1-New Years Day-K5IV, Jim, Garland Tx. called WB5BTT on "Land Line" & passed my Mag No. Who giving date, time, freq. Jim would not reverse charges & most indebted that info resulted in our first contact. (2) On Jan 10 WA5QMJ, Steve, Olathe, Ka. passed similar traffic to Okla Traffic & Weather Net. But, results for another OKC contact were not forthcoming. Perhaps with the ship so close to the equator I did not have enough Latitude-Hi. (3) Feb. 4&5, 1982-A happenstance contact with W5MGP, Dick, MWC & WB5BTT after phonecall. Then after agreed Sked for next day, a multi QSO with WB5BTT, W5MGP, WA5JOU (Charlie, OKC), W5HXL (Bob-OKC) W5AA (Ralph, OKC). We the passengers, were treated to a weather report & Ray called my neighbor, Jim, & reported our QTH still standing & everything in good shape. With permission, of course, both QSO parties were taped. (4) Two (2) QSOs with other Mickey Mousers-both employed on ships. The 1st (K7K, Lannie) was on a Cruise Ship, N.E. of Italy's boot. The 2nd (LA1MV/MM Oddvar) was on a Norwegian Freighter, near Cape Hatteras, headed for Panama Canal & Far East. (5) Jan 25, 1982, W8ROC (Royal Crown Cola), Greg, Barberton, Ohio ARC. Phone patch quality to a, now retired, HighSchool Chum that have not seen in 30 plus years. The Odds on this chance occurrence must be way up thar. (6) Next the "By-Golly" Syndrome. Many passengers remarked at the frequent "By-Gollies" during umpteen QSOs. It soon became a Shipboard By-Word. Joe, K5JB, often chided it as a W5NL exclusive-my hasty research shows almost 50% usage. To Readers-see how often you spot By-Golly.

AFTERTHOUGHTS: This seems a good place for Particulars overlooked that may be of some interest. MEALS: USA fare from overloaded menu in Dining Salon (Officers & Passengers) at 07:30, 11:30 & 17:00. The 17:00 often hard to make, following frequent 16:00 Hrs Cocktail gatherings with "Fixins". As ample evidence of exceptional Fare, I gained 9.6 Kilograms. FACILITIES: Passenger Deck is almost completely Pasajeros Domain. Included Washer/Dryer, Ice Machine, Exercise Cycle, Hair Dryers, Luggage Storage, Well Stocked Refrig. TV & Stereo, Shuffleboard, etc, etc. It is also the domain of Chief Steward-Major Domo & Slop Chest. AMENITIES: Delta Management (Captain) permits "Open House" on Bridge while at sea. The Engine Room must be "Escorted" for Passenger Safety. Slop Chest, a nautical term, is maintained by Purser-open at least weekly for all manner of goods, including Tax Free Spirits (after departing Miami). Frequent parties (example-Equator Crossing. Frequent Movies and Piped Music. From Purser, Cash & In-Port Sightseeing arrangements-including on-shore passes. Note: Frequent Cautions-"Leave your valuables on ship-handbags are "Fair Game". Perhaps, unlike USA, they only want your Goodies & are not likely to Molest/Injure. PASSENGERS: We were three couples & six singles-most all over Age 60. Two frequented the Ham Shack-Fred/Frederico No. 2, Ontario, Canada & Emil, Baltimore, pronounced "Bal-Mer" & often expounded over the Mike. Fred No. 2 vowed to become a VE# in the near future. Over the air, He received ample advice & offers of assistance-mostly from Canadian Amateurs.

FINALLY-SUGGESTIONS TO "MMs: Carry on Ship the latest revision of Part 97 Regulation. (2) Obtain written (tentative) permission from Steamship Line's Head Shed. (3) If you desire Foreign Territorial Waters & Dockside OPS, obtain permits in advance of sailing. Even so the Ship's personnel might not allow operations. Generally they are not allowed Commercial OPS In-Port.(Emergencies Only). (4) Understand Non-USA Vessels seldom grant "MM" privileges to Passengers. As a closing remark am repeating an On-Board "Fun that seems appropriate. Following a QSO with a station near Rye, N.Y. Emil profoundly stated "You know that was like Ham-On-Rye"-Groan.

73 Fred Boardman (W5NL)



At last, a real repeater for Shawnee should be making its debut within weeks. Members and users should thank Bill Warren, WB5TZQ for obtaining the Motorola repeater and Sinclair duplexer. The City of Shawnee, recognizing the need for Civil Defence communications will be supplying a phone line for the autopatch. Special thanks to Ron Borbeau, City Manager, Ron McCalip, KA5CAY, Civil Defence Director and Jay Tingler, WD5BUQ for this improvement.

By the way, David Standley, N5CGZ has a new page printer for his computer. Ron Real, WD5CIG is busy punching buttons on a new TRS-80 System and a TS-830 HF rig. Paul Abel, WB5OLO the fastest handi-talkie in the west, is running for sheriff.

A while back, an ambulance made a run to the house next door to my QTH. Jim Sullivan, KA5FBC and his wife Billie who live nearby made a special effort to check on my wife and daughter's welfare. Thank you Jim and Billie.

Although Shawnee does not have a large number of amateurs, when they get together something is bound to take place. Don't forget the club meetings, the weekly net and field day plans.

73 Mike Wiley, WB5GMK

From the Club President:

Thanks to Mike for taking the responsibility of Club Collector & Emitter editor. Our meeting of May 11, was honored with the presence of Leonard, WA5FSN and Bennett, W5ZTN. Both men

gave a very interesting talk and Leonard presented the club with a ARRL membership certificate. Many of our questions on a variety of subjects were answered in the meeting.

Many public service activities will be coming up soon. An air show June 5 and 6 may be able to use some extra communications. Of course, we will work the parades and races this summer. Hopefully by the time this is published we will have had an emergency drill.

Bob, K5LZF and wife sure do spend a lot of time in their secluded hide-away. Second honeymoon.

Sure enjoyed seeing Dale, WA5BOA at the last meeting.

Walt, KA5FIT has changed his working hours. One can find more people to talk to at 7:30 am than at 5:30 am, don't you think Walt?

As a representative of the Shawnee Radio Club Bob, K5LZF attended a dinner honoring volunteer workers for the Red Cross, Monday May 10. The club was given recognition for its help in the Red Cross program in Shawnee. A nice certificate was given to the club.

I was over by the rock building the other day and noticed a need for a cleanup day. A good flea market might bring in enough money to buy steaks for field day.

I would like to urge each club member to support Mike, WB5GMK with all the area news for this monthly column.

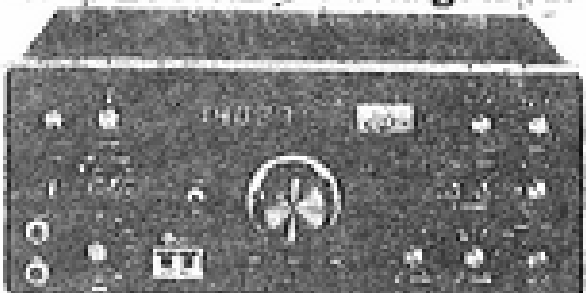
73

Earl Couch, WB5ZBA

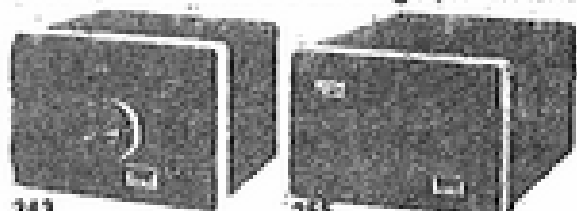
FOR SALE: Collins S-Line: 75S-3B, 32S-3, plus PS, perfect condition, \$850. Kenwood TS-700A with mic, \$350. 18AVT, \$45. Shure 444 mic, \$30. WA5PPA, 1-288-6641.

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on TEN-TEC Package Deal



546C OMNI-D Series C 9-band Digital Transceiver



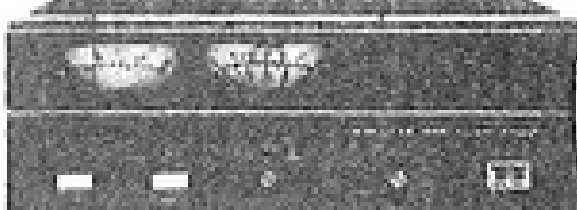
243 Remote VFO

255 Power supply/speaker



234/214 Processor/mic

645 Tactile keyer



444 HERCULES 1.2 kw solid-state linear

Package Components	Regular
546C OMNI-D Series C	\$1289.00
255 Power supply/speaker	199.00
243 Remote VFO	189.00
234/214 Processor/microphone	178.00
217 500 Hz CW filter	55.00
218 1.8 kHz SSB filter	55.00
645 Tactile keyer	85.00
444 HERCULES linear amplifier	1575.00
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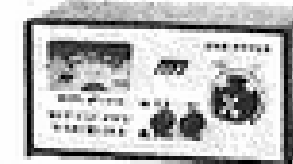
New low cost in-line HF SWR/Wattmeter. MFJ-814 lets you monitor SWR, forward, reflected average power in 2 ranges from 1.8 to 30 MHz. Read 200/2000 watts forward, 20/200 watts reflected power. SWR, 1:1-6:1.

Easy push-button switch operation: has power/SWR, high/low range, forward/reflected push-button switches. SWR sensitivity control.

Lighted meter (requires 12V). Rugged aluminum eggshell white, black cabinet. 6 1/4 x 3 1/4 x 4 1/4". SO-239 coax connectors. 2 color meter scale.

MFJ VHF SWR/Wattmeter/ Field Strength Meters

\$25.50



MFJ-812

New low cost VHF operating aids. MFJ-812, \$29.95: Read SWR from 14 to 170 MHz to monitor antenna and feedlines.

Read forward and reflected power at 2 meters (144-148 MHz). 2 scales (30 and 300 watts).

Read relative field strength from 1 to 170 MHz. Binding post for field strength antenna.

Easy push-button operation: has forward/reflected and SWR/field strength push-buttons.

Aluminum eggshell white, black cabinet. 4 1/4 x 2 1/4 x 2 1/4". SO-239. 2 color meter scale.

MFJ-810, \$24.95: similar to MFJ-812 less field strength function.

**MFJ "Dry" 300 W and
1 KW Dummy Loads.**



by

WD5JNT Ted VanLaningham

The May meeting of the Wheatstraw Amateur Radio Club was held along the road to Mooreland. At the April meeting it was brought up that the Mooreland group was going to have a almost hamfest. They weren't going to have a lot of programs or give away any prizes but they weren't going to charge anything to get in either, and there would be a covered dish dinner, so we decided to go in lieu of our May meeting.

Tom KA5FUU, our vicepresident and activity director put the volunteering arm on Leonard WA5FSN to head up the caravan as wagonmaster.

The rendezvous was at the thriving community of Watonga at 8:30 [on Sundays that is about 2 hours before the sun comes up] but we were there. Promptly at 8:30 Leonard headed west and a string of 9 cars pulled in behind him. I thought I would just hang back and take up the last spot, but I looked in the mirror and saw a car with WB5JHB on the front license tag. Sure enough, slow driving Marvin was about 2 blocks behind me. This was the first caravan for Tom, KA5FUU and myself but we soon found that it is an enjoyable way to travel. Leonard led the group at about 50 mph and we at the tail end had to go 58 to keep up. As soon as we got started George K5GCL who was riding with Leonard called the roll, finding out who was in what position in line and how many was in each car. From then on it was run like a roundtable, going right down the line giving all 25 in our group their turn for comments.

Someplace along the road, we held our monthly club meeting via radio. Our president, WD5GLD was not able to make this meeting, so KA5FUU Tom conducted the meeting from his car. Our secretary, Ralph WA5PFK, called upon his memory for the minutes of the last meeting, which he had left laying on his bed at home. [8:30 is just too early]. He gave a very complete account of the meeting and Goldie recorded the minutes while Ralph drove. We decided we were having so much fun on this caravan that we are planning another one for our next meeting in June. Tom's volunteering arm caught Johnny K5GBN for the caravan leader to take us south to Platt National Park. Ralph's daughter Carol WA5ZKW has spent a couple of years in the area and she knows where to go and she will give us the grand tour. It was also decided to have a covered dish dinner, so there will be plenty of groceries to tide us over for the day. Will

have to tune in on the Wednesday Night Net at 9:00 PM for the final details of the caravan. Everyone is welcome to check into the net and to come along on the caravan. Hope to see you there. Tom volunteered for net control this month and with that he closed the meeting and turned control back to Leonard the wagonmaster.

It was but a few more miles later that we arrived in Mooreland. The Great Plains Amateur Radio Club and the Enid Amateur Radio Club co-sponsored the Northwest Oklahoma Eyeball Swapfest. As we said earlier there were no prizes, they did have 2 programs for the ladies and a large covered dish dinner. The relaxed informal atmosphere was enjoyed by the more than 175 people who were there and we do hope they will have it again next year. As with all covered dish dinners there was far more food than could be eaten no matter how we tried. We will not mention names but there were several diets broken. Our host knew that after a meal like that, we needed to take it easy for a while, so they had the entertainers already lined up. The Gospel Lights, a local group of young people put on a program that we all enjoyed.

About 4:00 our caravan leader got a very tired and worn out group together and headed us home. From the comments, or rather the lack of them, we were all about talked out, but there wasn't a one who didn't enjoy the day things were kind of quite until Mary Ann

COLLECTOR AND EMITTER



de: normally, five bachelors enjoy quietly!

Kudos again! This time for the hearty souls who attempted the Special Olympics State Games in Oklahoma's Spring weather again, one 'o these days we're gonna learn!!! I think it may be as of 1982 ... Yup, the rains came, and came (and went) and so did the Olympians. And their coaches and Hosts and parents and spectators and Hams.

Wednesday wasn't too bad for us, starting off. At least the onliest thin' we had go wrong was one of the only two volunteers who had spoken up failed to show so some others were pressed into service at the last minute by the amateur who did show, one Mark Galbraith, N5EIH, a current resident of Del City and employee of Gud Ole Unk Sugar at TAFB (diddlin' on their 'puter, I'm told!). Mark stuck it out thru thin and thick (what's that?) and lasted till 'bout midnite scurrying e'en to O.C.C. (Oklahoma Christian College) attempting to provide a link between Hosts at CSU and those at OCC after they panicked at a funnelled weather report from southwest of Newcastle and ran everybody off from an abbreviated Opening Ceremony inside the Fieldhouse where all had retreated from the rain and wind anyway. (yeah! REACT Strikes Again!)

At least, while it lasted, there were the able services of Mark with Ken Stepp, N5DBM, of Edmond with his usual expertise and contacts with the local Civil Defense; Cal, KB0OU, with his lovely YF and harmonic(s?), but I never did quite catch her call or name (or the young-un's either); the irrepressible Bill Wright, of KC5GN fame, also an Edmondite and new trustee of the EARS -.735 repeater; would you believe, all the way from Guthrie came sauntering (agin this year for his third, or is it fourth?, time) came one Oscar Stalwart Staudt, WB5GCX, a cohort-in-cahoots @/w. Mark, as above; doing yeoman duty outside (parking lots etc.) were Bill, KA5ESA and Connie, KA5ERZ and Tanya and Brandi, their harmonics.

Come Thursday and we had that erstwhile Fed, Dale Diehl, K5WUF, from far northwest OKC and his trusty '7's to help him along thru the day. With so much ASSistance being provided by (what was his name, anyway?) from the local REACTIONaries, the Amateurs decided among themselves to quit the premises (if not the whole event as far as the future is concerned) as long as the type of panic exhibited Wed. evening is allowed to continue, "because we can't refuse anyone who volunteers."

So, praise again to those who followed thru in the 'professional' tradition of Amateur Radio Public Service and Brickbats to those who dint (and you know who you are!)

See ya nex year, if there is one!

n5beq, jim

AGE SAGE: HOW TO TELL WHEN YOU'RE GROWING OLDER, OR, IS THERE REALLY LIFE AFTER 40?: when you stop looking forward to your next birthday.

n5beq, jim

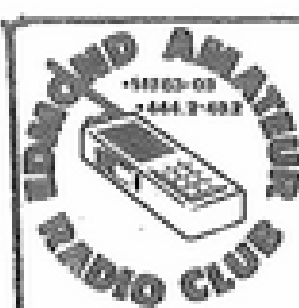
FOR SALE: ICOM IC-25A \$250.00 with touch tone mic. or \$225.00 with regular mic.
Frank Yohe N5CIJ 686-4703/324-0772

WA5VNF saw a roll of YELLOW CHARMIN being used alongside the road. That woke us up and kept the comments going all the way to Watonga.

We are looking forward to next month's caravan. Tune in Wednesday night 9:00 for the details.

WD5JNT

JUNE



Edmond Amateur Radio Club
P.O. Box 76262 / Okla. City, Ok. 73147

Editor: STAN VAN NORT WB5UIY

REVIEW OF LAST MEETING...5/6/82

The meeting was called to order at KTVY channel 4, in the conference room. Pres. Mark Northcutt started with the usual minutes and treasurer report. Old business consisted of reports on the remote-base and repeater controller, and by-laws committee.

New business was started by Mark in reference to an incident that occurred on the 2 meter repeater. After discussion, the members present voted to approve a resolution, written by Mike Salem, which will be mailed to all members.

Other new business was a report by Stan, WB5UIY, & Mike, N5MS, from the Dayton Hamvention held April 23-25, in Dayton, Ohio. A new repeater controller was being displayed by Advanced Computer Controls, which both thought would be just perfect for our system. The remote-base & controller that Martin had been asked to build would be put to shame by this new controller. This new controller uses an 8085AH chip for a CPU and for memory uses EPROM, RAM, & E²PROM. The unit is definitely state-of-the-art and the way those two carried on about its capability one would believe it could wash the dishes. Martin, WD5FEI, had already been briefed on the unit and said it would be a good idea. He therefore was relieved in not having to build one from scratch. After discussing methods available in purchasing the complete unit, a motion to buy it passed by 100%.

The controller has since then been ordered and will probably arrive about late June.

The meeting was adjourned and several members had refreshments at a local fast food restaurant.

NEXT DINNER MEETING MOVED UP

At an Executive meeting the officers voted to move the June dinner meeting to May 31, Memorial Day. This will be a picnic to be held at Dennis Orcutt's acreage at 122nd & North Bryant. The entire family is invited and you need only bring two or three covered dishes. Plates & utensils (eating machinery) will be provided. Hopefully the paper will arrive in time to get everyone notified.

Oh yes, if you have some softball or horse-shoe equipment, please bring that along. A special non-strenuous activity will be provided for Larry Dillard & Howard Thompson!

NEXT BUSINESS MEETING

The first Thursday of July, which falls on July 1, will be the next business meeting.

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4/1

ARE YOU PUZZLED?

How about some simple puzzles to test your skill. I picked this up from a publication which isn't copyrighted, however, credit is given to the COSMOPOLITAN, published by my employer, the OKC Police Dept. There won't be any prizes, just satisfaction. Maybe next time someone will donate a small reward. SORRY, answers next month!!

- 26= L of the A _____
- 9 = P in the SS _____
- 8 = S on a SS _____
- 12= S of the Z _____
- 88= PK _____
- 3 = BM _____
- 11= P on FT _____
- 7 = W of the W _____
- 1001= AN _____
- 54= C in a D w/ J _____
- 13= S on the AF _____
- 32= DF at which WF _____
- 29= D in P during LY _____
- 18= H on a GC _____
- 90= D in a RA _____
- 200= D for PG in M _____
- 4 = Q in a G _____
- 24= H in a D _____
- 1 = W on a U _____
- 5 = D in a ZC _____
- 57= HV _____
- 1000= W that a P is W _____
- 64= S on a C _____
- 40= D & N of the GF _____

Be sure and watch next month for the answers. They will be listed under the EARC logo.

MISC.

Be sure and check out the articles and pictures that our club members put together about the DAYTON HAMVENTION. You will find it under Mike Salem's column.

Thanks to those that had comments about last months edition. If you have any more, or want to write a paragraph or two, call me. (Note to KD6NC: your subscription should be updated and current now.)

your EARC editor

STAN, WB5UIY

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MORI DINNER MEETING AT CHI-CHI'S

Lets all turn out for this next MORI dinner meeting at one of the newest CHI-CHI'S Bring the ladies and make this one meeting a great success. Kids like this restaurant too. A entertaining program is planned.....

PLACE: CHI-CHI'S

WHERE: 1074 S W 74 (between Western & Penn)

TIME : 6:30

TUESDAY JUNE 1, 1982

SEE YOU ALL THERE?????

Jim's Gems

de: normally, five bachelors enjoy quietly!

LEGEND	SIREN	CALL	11 21 31	12 5	19	1 2 82	16	2 6	3 20 6
OK <input checked="" type="checkbox"/>	12	WBSPWZ							
	14	S.W. 37/Goff							
DRAD <input checked="" type="checkbox"/>	21	WDSEVP							
	23	1401 S. Johnson							
SOUND <input checked="" type="checkbox"/>	24	WA5RAQ							
	25	WSQAC							
MOVED <input checked="" type="checkbox"/>	32	K5LDI							
	34	KH6JTE (KCSHU)							
NO SHOW <input checked="" type="checkbox"/>	41	NW 7 & Greenvale							
OR <input checked="" type="checkbox"/>	42	2200 S. Portland							
(ALTERNATE)	43	SW 26 & Villa							
	45	1701 Exchange							
	52	600 N. High							
	53	K5HQP K5HEN							
	61	K5SJY							
	62	K5VRL							
	63	K5AHU (WA5DTL)							
	64	WA5TAR							
	65	N5BWW							
	71	WD5IRB (KA5CKW)							
	72	2300 NW 15							
	73	2215 N Walker							
	74	Jim Thorpe Bldg.							
	78	NE 23/Liberty							
	81	KA5HRH							
	91	1201 NE 28							
	93	N5CTT							
	96	WB5RUP							

IRREGULARS NOTED INCLUDE KA5ETA, Bob Moore; WB5TMW, Dick Baker; WB5ZKZ, Jack Muse; WB7UIY/5, Terry Frampton; N5BFD, Jim Hopkins; K5SKA, Bill Demand; WB5UBB, John Warriner; KD5IS, Jerry Wetmore; WB6GMI/5, Bob Jones; and KH6JUM/5, Fran Galway.

The chart above details participation in the Oklahoma City Severe-Weather-and-Attack-Warning Sirens test at high noon on the first and third Saturdays of every month on the .94/.67 repeaters thanks to MORI. If .94 is inoperative or unavailable we use .67 - if it's busy too, we punt...

If you would like to help watch and listen to the siren in your neighborhood, contact me and we'll all listen for your report whether it works or not and what it does do if anything.

If you'd like to help with the Oklahoma City Civil Defense's Attack-and-Severe-Storm-Warning Siren tests bi-monthly (the first and third Saturdays of each month at High Noon, weather permitting), the following is a list of sirens by CD number and address. Refer to the City map elsewhere if it made it into print:

- 12 Water tank, SW 89 & Linn
- 14 John Adams School, S.W. 37 & Goff
- 21 Southern Hills School, 7700 S. Kentucky
- 23 Rancho Village School, 1401 S. Johnson
- 24 McKinley School, S.W. 53 & Shartel
- 25 3416 S. Robinson
- 32 Hathaway Park, S.E. 38 & Lindsay
- 34 Bodine, School, 5301 S. Bryant Ave.
- 41 Lythe Park, N.W. 7 & Green Vale
- 42 Canadian River, 2200 S. Portland
- 43 Jackson School, S.W. 26 & Villa
- 45 Westwood School, 1701 Exchange
- 52 Woodson School, 600 N. High
- 53 Crooked Oak School, S.E. 15 & Eastern
- 61 4529 N.W. 36
- 62 Harlow Park, N.W. 19 & Harlow
- 63 3801 N.W. 10
- 64 Madison School, N.W. 30 & Independence
- 65 Sequoyah School, 2400 N.W. 36
- 71 1236 N.W. 36
- 72 Hawthorne School, 2300 N.W. 15
- 73 Wilson School, 2215 N. Walker
- 74 Jim Thorpe Building
- 78 Hicks addition, N.E. 23 & Liberty
- 81 Surrey Hills Elementary School
- 91 Longfellow School, 1201 N.E. 28
- 93 Burbank School, N.W. 65 & Independence
- 96 Coronado Heights, 5911 N. Sapulpa

By the way, some of these have been relatively regularly attended so, if you can determine which have been from the included roster and don't wish to usurp someone else but are close to a siren, work out a swap or alternation with the homesteader. The more the merrier!!! Besides, some of these regulars may appreciate a relief from duty at times.

If we don't get better participation than the 7 or 8 of the past month's trials, we may have to renege on our promise that "the Amateurs can do it" in order to save face with Civil Defense...

n5beq, jim



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52.68-52.525	OKC	C	K5JL	147.75-7.15	Tuttle	SW Cent.	KB5AN
144.61-5.21	Broken Arrow	NE	WA6HNO	7.75-7.15	Grove	NE	K5PJR
4.77-5.37	Eufala	E. Central	WB5OBV	78/18	Tulsa	NE	WB5EVU
4.87-5.47	Tulsa	NE	AB5M	"	Ada	C	WB5PKJ
4.89-5.49	Yukon	C	WA5EYV	"	Seiling	NW	KA5CJG
6.01/61	Hugo	S	WB5TTU	81/21	OKC	C	K5JL
01/61	Calumet	C	K5GDE	84/24	El Reno	C	KB5RJ
01/61	Beaver	NW	WR5ATW	87/27	Stillwater	N. Cent.	WR5ASW
04/64	Granite	SW	W5CHE	"	Tulsa	NE	WR5ASX
04/64	Cavanal Mtn.	E	WR5AII	90/30	Concharti Mtn	NE	WR5AWA
07/67	OKC	C	K5ELL	"	Byron	NW	WD5GJN
10/70	OKC	C	WR5ASI	93/33	Edmond	C	WB5ISN
10/70	Tulsa	NE	K5LAD	"	Muskogee	E. Cent.	WA5UMS
10/70	Ardmore	S	W5RFX	96/36	Big Cabin	NE	WA5ICW
13/73	Woodward	NW	W5HGH	"	Laverne	NW	WD5CSW
"	Stillwater	N. Cent.	WR5AFS	"	Byars	S	WA5IQH
"	Duncan	S	WR5ATV	99/39	Tulsa	NE	WB5NJU
16/76	OKC	C	KC5CW/R	"	Moore	C	K3TGY
"	Bartlesville	NE	WR5ADO	222.28-3.88	Waurika	SW	WA6HKG
"	Elk City	W. Cent.	WB5FBU	2.30-3.90	Tulsa	NE	WB5BET
19/79	Altus	SW	WR5ANX	2.34/3.94	Muskogee	E. Cent.	WB5AOH
"	Ardmore	S	W5BLW	"	Grove	NE	K5PJR
"	Miami	NE	WR5AHY	2.46/4.06	Pryor	NE	KC5FM
22/82	OKC	C	K5JL	2.50/4.10	OKC	C	N5BEQ
"	Tulsa	NE	WA5LVT	3.34/4.94	Tulsa	NE	K5LAD
25/85	OKC	C	WR5AVM	"	Enid	N. Cent.	WR5ABW
"	Muskogee	E. Cent.	W5EJK	2.70/4.30	Yukon	C	KC5IR
28/88	Norman	C	N5MS				
"	Tulsa	NE	WA5LVT	437.25-425.25	OKC	C	W5LIL
"	Lawton	SW	WR5AJV	439.25-427.25	Grove	NE	K5PJR
31/91	Shawnee	C	W5SXA	439.425-427.425	Tulsa	NE	WA5LVT
"	Kingfisher	C	pend.	442.85-447.85	OKC	C	
34/94	OKC	C	K5VRL	443.825-8.825	OKC	C	WD5AII
"	Tulsa	NE	WA5LVT	448.0-443.0	Yukon	C	KC5IR
"	Enid	N. Cent.	WR5ABW	448.9-443.9	OKC	C	N5SW
"	Durant	S. Cent.	pend.	448.65-443.65	Del City	C	K6DBR
37/97	Ardmore	S	N5AO	449.1-444.1	Tulsa	NE	WR5AHN
"	Ponca City	N. Cent.	W5HZZ	"	OKC	C	WA5TRS
"	Claremore	NE	N5TM	"	Altus	SW	WR4ANX
40/7.00	OKC	C	WB5TKG	449.2/444.2	Tulsa	NE	WA5BPS
6.625-6.025	Norman	C	WA5RPP	"	Edmond	C	WR5AWJ
.655/6.055	Bartlesville	NE	K5ULZ	449.3/444.3	OKC	C	K5JL
147.60-7.00	Tulsa	NE	WA5YPT	"	Tulsa	NE	K5LAD
7.63-7.03	Edmond	C	WR5AWJ	449.4/444.4	Muskogee	E. Cent.	WB5AOH
66/06	Pryor	NE	KC5FM	"	Enid	N. Cent.	W5HTK
"	Norman	C	W5OU	449.6/444.6	Tulsa	NE	N5ANY
69/09	Oologah	NE	WA5LVT	449.7/444.7	OKC	C	WD5FAM
"	Choctaw	C	K5EGQ	"	Ponca City	N. Cent.	W5TXF
72/12	Edmond	C	WD5FEI	449.85/444.85	OKC	C	WA5CZN
"	Guymon	NW	WD5ETI	449.8/444.8	El Reno	C	pend.
147.72/12	Mooreland	NW	KA5CJG	449.85/444.85	Claremore	NE	N5TM
75/15	Enid	N. Cent.	WR5ABW	449.975/444.975	Moore	C	K3TGY

(concluded next column)

Ham Holiday '82 Pre-registration (see page 13)



MAY MINUTES ACARC

Hollis Holcomb VP, NSABL, brought the May meeting of the ACARC to order at 8:00pm, May 7th, with 41 members and guests present.

Bob Pace, WASCJG, reported the new solid state final for WRSVAM lacked a few parts before it was ready for installation at the repeater site. Otherwise the repeater was up and well.

Ham Holiday plans dominated the CORA report given by Frank Yoho, NSCIJ.

There was no old business. The new business consisted of a report by Ellard Foster, W5KE, of the upcoming swapmeets/hamfests in the local area. Gene, W5SQC, (yes, he is out and doing fine) suggested we rename WRSVAM the computer repeater, but fortunately, no one took him seriously.

Our Treasurer, Larry Vorhies, KSRJR, announced the availability of ACARC name tags. These tags are really sharp, with your name, call, and the ACARC logo on laminated plastic—only \$4.00. See any ACARC officer to order yours.

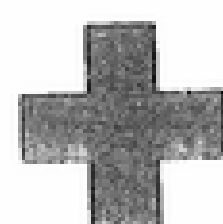
At 8:22pm Holly turned the meeting over to Bob Pace for an excellent program on 2 meter amplifiers and digital communications (yes, that's with computers). If you missed this one, you missed a good one. Thanks Bob for an great presentation.

Holly adjourned the meeting at 9:17 for refreshments.

Jim Seienious WBSUHW
Secretary ACARC

We can do it

together.



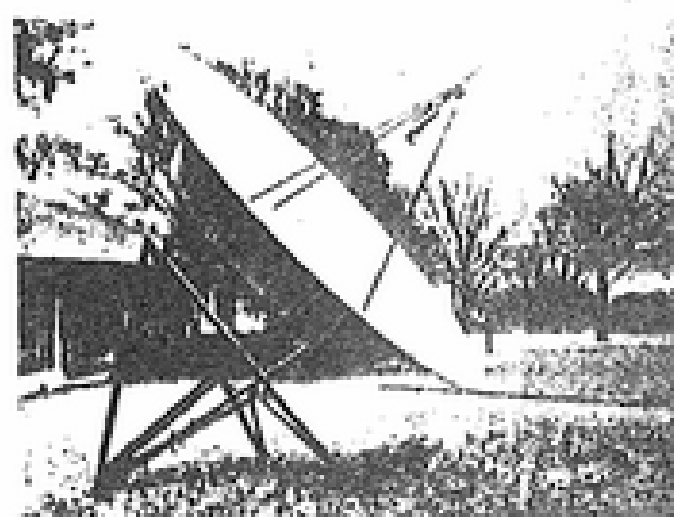
American Red Cross

It's a good thing some of us don't have to pay taxes based on what we think we are worth.

Heard from a mobile transmission, "The trouble with bucket seats in a car is that not every one has the same size bucket" W0CCT

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A TIP FOR AZDEN OWNERS

Since the Azden memory is powered by 3 silver oxide batteries costing between \$10 and \$12 every 3 or 4 months, I began to look for a more economical alternate. The total voltage required is 4 1/2 volts, 1 1/2 each. Therefore I set up 3 flashlight batteries ("D" cells or any "C" or "AA" cells which have 1 1/2 volts each) in toilet paper cylinders reinforced with flat sticks and Elmer's glue. Putting heavy copper wires through the cylinders top and bottom to hold the cells tightly together also provides terminals to which I soldered small wires. Lifting the top cover just behind the front panel, I attached the small wires to the battery contacts in the Azden very carefully observing proper polarity. The center of the "D" cell is of course positive and goes to the terminal in the set where the original cells marked positive contact.

Four "D" cells cost me a lot less than the silver oxide ones, and I'm assured a much longer life due to much greater battery capacity costing only a few cents. Although not as convenient, this arrangement will work with a mobile installation as well.

From Arkansas Ragchewer. Harold Clark, KA5HBO
QSL: TWO-METER BEACON

Brian button WD9FDG of Chesterfield Missouri sent in the first QSL card in the world, as far as we can find out, for a two-meter beacon. On June 5th, 1979, MARC's 144.050 MHz beacon read: RST-519 about 60 miles away with its one watt, received on Brian's 5-element beam at 25 feet.

Tania, WB9TKC from ARNS

Did you hear about the error that was made in the "Silent Key" column? The publication came out the next month with the following retraction, "We regret that the notice of Joe Whatsit's death was not true." WPCCT



PROVERBS

"His bread is buttered on both sides" -- The YF lets you buy a new transmitter and tower in the same month.

"Men talk wisely, but live foolishly" ---- Calling CQ and then not listening long enough for someone to answer.

"Love me and the world is mine" - Send that QSL card, fink.

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"Aw, I Worked Him On Seventy-Five"

Now, every amateur knows that 75 meters is the band you get on to work Ardmore and Wichita Falls, right? You can tune around each evening and listen to the traffic nets and ragchew sessions from 8 to 800 miles away. You can even talk to O.C. in the southeast corner of Beaver county.

Well, a couple of years ago, W5OU and I were talking on two meters about an interesting subject, especially to DXers, namely DX. I had just worked a CEØ on Easter Island on 10 meters, and Gordon said that he had worked Easter Island on 75 meters 15 or 20 years ago for his first DX country on that band. Now, that sounded exciting! I got a few particulars from Gordon about where and when to listen, because he is probably the second-best DX chaser in Cleveland county, next to the great Q.R. Zedd. Also, he loaned me a very informative book called "75 Meter DXing", by John Devoldere, ON4UN.

Basically, 75 meter DXing does require a good receiver, and a very high and/or very good antenna, because the old adage of "you can't work 'em if you can't hear 'em" (except on DX nets) really applies to 75 meter DXing, due to the high noise and relatively low signal levels as compared to the higher frequencies. Some hams use slopers or delta loops, others use verticals, and W2HCW in New Jersey even has a KLM 4 el. beam up, but an inverted vee will get you there. If you have room for a beverage antenna, it is said to be unbeatable for receiving.

The band allocations are presently such that an Extra Class license is desirable, as most of the DX stations operate in the "DX Window" from 3790 to 3800 khz. However, they will listen above 3800 khz. on occasion. The Russians operate from about 3640 to 3650 khz. and listen up in the window for U.S. hams.

Also, the Australians will be found from 3695 to 3700 khz., again listening up, so a remote VFO or separate receiver comes in handy to work these guys.

Most of the 75 meter DX we hear in Oklahoma from about sundown to midnight local time, comes from Europe or South America, with occasional openings to the U.S.S.R. and Middle East. The Caribbean can be worked most of the night. About 0400z, the Africans can be heard for a short time, as this is about the time for their sunrise, and signals tend to peak about 0400-0430z and then drop out.

After midnight local time, the action begins to shift to the west and southwest, as darkness moves across the Pacific. New Zealand, Australia, and the Pacific islands begin to be heard around 0600-0800z, until around 1100z, when the Japanese start coming through. There is a Japanese SW station on 3925 khz. running 50 kw., so when you can hear this one pretty well, you'll know the band is open to Japan.

Now, bear in mind that these stations won't be heard every night, but when conditions are right, it really is exciting to work Japan or Tasmania with 200 watts to an inverted vee and get a 5-9 report back. Now, that's DXing!

So, if you've worked 300, cannot find a new country, and want a fresh challenge, try working 100 countries on the 75 meter band. Then, the next time someone says he worked Yugoslavia on a "DX" band, you can say "Aw. I worked him on seventy-five." ---KB5EK

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OK DX

The next meeting of OK DX Association will be held on June 14 at the Waterhole Restaurant, 3333 N.W. Expressway, Oklahoma City. (The Waterhole is located opposite Baptist Medical Center.) We will start refreshments when you arrive-stay as long as you like. "OK DX" is an informal association of hams who are interested in HF DXing. You don't have to be a big gun to participate; everyone is welcome. See ya on June 14.

We will have two DX forums during Ham Holiday. One will feature slides and tapes from the recent DX operation at TYAII (Benin). This is an interesting presentation-don't miss it. Additionally, we will give a forum on QSLing - how to get results.

ON THE BANDS:

- VKØ - Heard Island: will finally become a reality for many in January 1983. The International DX Foundation, Northern California DX Foundation and Wireless Institute of Australia are co-sponsoring a six week effort for next "summer" on Heard.
- LU - Argentina: These may become the next "rare ones" since all LU stations apparently suspended operations around 29 April. Hopefully everything will settle down in the South Atlantic soon.
- T32 - East Kiribati: a DXpedition planned around June 3 by WBØBNR. 3-4 weeks.
- T31 - Central Kiribati: This is the rare one for many folks-limited to the Canton Island group (also KH1). There should be activity from there this summer (July) courtesy SMØAGD.
- BY1PK - China People's Republic: Listen 21.035-21.055 between 0100-0300 UTC. CW only. Usually working split, listening down.
- KC6 - Republic of Belau
- KC6 - Federated States of Micronesia: AD1S and N5DLM will be in the Western and Eastern Carolines between August 4 and 11. (see last month's issue for a schedule). Additional stops will be made in KHØ, Saipan Mariana Islands and KX6-Majuro, Republic of the Marshall Islands. This is an unsponsored "Grassroots DXpedition" so contributions are appreciated. For an itinerary or QSLs, send to AD1S -callbook address.
- ZD9BV - Tristan Do Cunha: Still shows up on 28.600 around 1730 UTC. Now works split

and operations improve everyday. QSL to W4FRU.

H44SH - Solomon Islands: Stuart has been showing up around 14.220 Mhz each Sunday at 1200 UTC. An easy catch for the week end warriors.

WBØMKR/KH3 - Johnston Island: Listen around 14.210 Mhz between 1000-1100 UTC. The operator is with U.S. Coast Guard on Johnston.

We appreciate any contributions to this column by our readers. Please try to attend the next OK DX meeting. See you at Ham Holiday for sure! De AD1S.

Central Oklahoma Radio Amateurs

C.O.R.A.

This issue contains full details on Ham Holiday '82. Please take the time to send in your pre-registration now! You'll be eligible for the big PRE-REGISTRATION AWARD - a TRS-80 Color Computer! This is our biggest pre-registration award yet - so get your registration in early!

We expect to have lots of computer programs this year-something for everyone. As you can tell from this year's schedule, forums and activities are planned for everyone in the family.

There will be the traditional Western Dance following Saturday night's banquet. The dance is FREE to all registrants and so are dance lessons - a demonstration of "clogging" (mountain folk dancing) will be presented during Saturday night's program.

The amateur radio side of Ham Holiday will include several programs on DX, QSLing, 6 meter DX, windpower, amateur satellites, satellite receiving stations, FM and antennae. Most programs have been firmed up, but if you have something to offer Ham Holiday - contact me quickly and we'll try to find space for your program!

See you for Ham Holiday-Computerfest '82 at the Myriad!

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AUTOPATCH

The next Autopatch meeting will be held on Tuesday, June 15 at the OKC Fire Department Training Center, N. Portland Ave. between Reno and NW 10th Street. The meeting will kick off promptly at 7:30 p.m. There will be an excellent program and everyone is invited to attend.

This edition of C&E will be distributed to an expanded readership throughout Oklahoma and the Southwest, so we would like to take this opportunity to introduce our association.

"O.C.A.P.A." maintains four high quality repeaters which provide some of the best coverages in this region. Our machines are K5JL/R:

input	output
146.22	146.82
147.81	147.21
52.680 mhz	52.525 mhz
449.300 mhz	444.300 mhz

We can always use new members to join the club, and participate in our activities. You are welcome to attend an OCAPA meeting and decide for yourself.

Our Severe Weather Warning network is utilized by media and government services throughout Central Oklahoma and is representative of the public service effort we make at OCAPA.

Have a good month - see you on June 15 at the F.D. Training Center. De AD1S.

Editors note: Usually our column is longer than this, but C & E pasteup is the night before our May meeting so I can only guess what will happen... "Mike Salem, N5MS gave an outstanding presentation on Amateur Radio and the Law"... Henry Israel, N5IH was as charming as usual... etc., etc. See you in June. De AD1S.

FOR SALE: Tempo 2001 2KW linear amplifier-2-8874 ceramic tubes. Excellent condition. Call Henry N5IH 722-3848.

Reprinted from W5YI Reports...This is NEWS--NOT AN EDITORIAL.

"City Assumes Jurisdiction of Amateur Radio..."

In one of the most outrageous antenna ordinances ever enacted by a city, Burbank, Illinois, has for all practical purposes assumed control of two way personal communications. Burbank is a city of about 45,000 with about 45 radio amateurs and is a southwestern suburb of Chicago. In an ordinance (No. 9-4-82) that took effect the first of APRIL, the city has:

- (1.) suspended issuing amateur radio and CB radio antenna permits for one year. This is so the city can inspect all existing antennas "to insure that they comply with all existing standards."
- (2.) existing antennas must be registered with the city along with licensees "FCC number" and proof of insurance coverage must be furnished to the building department.
- (3.) the antenna installation must comply with existing codes and the owner must submit to the building department "a manufacturers instruction sheet so that the building department may properly inspect the antenna."
- (4.) every CB and amateur radio antenna must be inspected annually by the building department which will charge the sum of \$11.00 to the owner for this inspection and \$10.00 for any necessary re-inspections.
- (5.) it shall be unlawful to interfere by radio transmitter with any electronic device.

This last section has amateur radio operators particularly disturbed. The exact wording of non-interference "Section K" is as follows:

"It shall be unlawful for any person to transmit, continue or cause to be transmitted or continued any radio emission, signal, or trans-

mission, which either causes or creates electrical visual or audible interference, or, by said transmission annoys, disturbs or endangers the comfort, repose, health, peace, safety or general well being of others within the limits of the city."

A PENALTY of "not less than \$25 nor more than \$1,000 for each offense" was instituted and EACH DAY the violation exists "shall be deemed a separate violation."

W5YI goes on to report... "There was a series of hearings that were well attended by Burbank amateurs, but it was to no avail. At least two of the city aldermen that enacted the ordinance (it passed 6 to 0 with 1 abstaining) live very close to active amateur installations. It is believed that these aldermen sought to deal with existing interference problems via the ordinance route." Thanks to W5YI Report.

OKLAHOMA ANTENNA DEFENSE FUND

I hope you will read the article reprinted from W5YI Reports which appears in this issue. (And we thought we had antenna problems in Oklahoma City.)

A similar situation could happen here in OKC, or in Tulsa, or Lawton, Stillwater, Ponca City; ANYWHERE!

The time to STOP ordinances of this type is NOW! We have an excellent case pending in U.S. District Court which may chill future efforts by municipalities to "assume control of amateur radio."

The case of Charles M. Guschke (N5SW) -v- City of Oklahoma City is alive and well in U.S. Federal Court. We have discussed the details of Chuck's lawsuit in many recent issues; the important point is that we NEED YOUR HELP!

Contact your city councilman to complain about this type of "legislation". Point out the vast public service offered by the radio amateur: including but not limited to severe weather storm spotting, health & welfare traffic, emergency communication backup, to law enforcement and Civil Defense.

Finally, find out WHY the city is discriminating against amateurs with antenna ordinances, zoning "persecution", etc.

And PLEASE, your financial support would be a big help at this critical time.

Send your contributions, IN ANY AMOUNT, to the OKC Antenna Defense Fund, P.O. Box 32735, Oklahoma City, OK 73123. Thanks.

First Scoop on HAM HOLIDAY'82: Triple-Header Fun (See pp. 13-14)

Three hamfests for the price of one: C.O.R.A.'s annual HAM HOLIDAY, plus the ARRL State Convention, plus a Computefest combine to make this year's event bigger and better than ever.

We are incorporating the "Computer Craze" this year for those who are interested in this facet of amateur radio. It might even spark an interest in those who never thought anything about it before.

Central Oklahoma Radio Amateurs are proud to welcome the American Radio Relay League for their annual Oklahoma State Convention to be held in conjunction with HAM HOLIDAY '82. Here's the chance for all you ARRL members to get in on some official business of the League.

This is the ninth year of HAM HOLIDAY, and we are pleased with our growth from a mere 350 in attendance the first year to over 900 in pre-registration alone last year. We have become one of the best hamfests in the country, and we don't have to travel to Dayton for it—it's right here in the middle of Oklahoma!

PRE-REGISTER NOW FOR H H '82
(Use Special Form Inside)

This lead off article is reprinted from last month in order that you may be able to figure out what this and the next page is all about. Another article on the same general subject was not printed since it was not submitted by a CORA member or a CORA affiliated club

By the time this goes to press, we will be deep into our storm season. Much has been written and much said about the O.C.A.P.A. Severe Storm Warning Net. Some of this reflects a misunderstanding of my efforts and the efforts of others that I have worked with over the past nine (9) years.

I have been active in the O.C.A.P.A. net since I became licensed. Many Amateurs can not be active during working hours because of their jobs. We can be thankful for those who can. Others can not leave their families to go on duty at some location. We can be thankful for those who can. However, most Amateurs recognize that we do our best to serve the people of Central Oklahoma and they give us their support. We are thankful for these individuals also.

Now to outline what we do. We decide when to call the net, not the media. We control the net, not the media. The net serves the general public, not the media. We have a group who serve as observers at the Channel 9 Weather room. This group is headed by Hobe Burgan, WB5MLN. They check into the net and receive information, as well as feed it to the net. Channel 9 is well equipped with several types of electronic gear that serve our needs. Our repeater is located in O.C.A.P.A.'s own building and has automatic emergency standby power. Mark Northcutt, WD5DYI, usually checks into the net from Channel 4, equally well equipped I am sure. W5LOW Red Cross station usually has someone check into the net. A group led by Don Rooker, K5SJV, checks in from the Weather Room at Radio Station KTOK. They have a small radar at their disposal. A group led by Art Roberts, W1GOM, at the FM Station KOFM checks into the net. The radio stations have teletype units that receive data from the wire services and National Weather Service. We set up an information center in the Warr Acres Police Department to coordinate all of our data and have it ready for net control when needed. This center is being manned by Chuck Wilhite, K5NK, and Chuck Guschke, N5SW. They have access to the NCIC Police teletype, Civil Defense Radio and National Weather Service teletype, as well as Ross Dixon's Weather Scan Service which Warr Acres subscribes to. In addition, they are in contact with all law enforcement agencies throughout Oklahoma. Warr Acres has emergency standby power. We have agreements with the Woodward Amateur group and the Altus Amateur group to link during emergencies. These links will be finished soon. We also have a mobile trailer unit equipped with a 5 kw power plant with a fold-up tower, beams for 2 meters and 450 mhz, a 2 meter repeater that can be brought up on any ham frequency. The unit contains quartz lights, mercury vapor lights, incandescent lights and florescent lights. A team of five (5) Amateurs are ready to take this unit to back up net control during the net and to any place that it is needed at any other time. This crew contains two (2) Firefighters, one from Oklahoma City Fire Department and one from the City of Bethany Fire Department. It is under the leadership of Merrill Scott, WB5PTQ. Henry Israel, N5IH, is in charge of the net control group.

Now what makes all of this really work are the excellent mobile spotters, such as David "Fergie" Ferguson, K5SXJ, who risk their lives and property

by driving into these storms so the rest of us have a better chance of surviving.

Our people have the benefit of nine (9) years of training in seminars held by Gary England, Channel 9 so we will know what we are seeing and our reports will have credibility. We have tape recordings of all nets held the past few years. We know who check into our net. We hope they make use of our information.

We are not perfect, but then we are not finished either. We need more people who are free to go when the going's rough so we can man other locations, such as the National Weather Service. Also, Channel 5 has asked for observers. We don't have enough people who have stepped forward to do the work. We hope to link with other cities as soon as time permits.

This is an Amateur Radio Public Service, not just O.C.A.P.A. We could certainly use your help and support!

Frank McCollom
N5FM

Now for this month.

File 0

I wrote a nice little piece for the last issue of C&E. It didn't survive the editor scissors. However, I believe the subject of the article was of such importance to the CORA community as to be the subject of another attempt.

My little piece basically stated the obvious: We here in Central Oklahoma have perhaps one of the best and most effectively operated storm early warning nets in the entire nation. That's the Central Oklahoma Severe Weather Warning Net operated by OCAPA. And, then I asked the question that comes up just like jonquils each spring: Is amateur radio participation through this net being turned to the pecuniary interest of KWTW in apparant violation of the rules?

No one is more aware of these questions than the folks in OCAPA. And, they are actively involved with trying to find ways to be even more responsive to the warning needs of the central Oklahoma area.

My little article suggested that the amateur community do some serious thinking about some of the problems of getting warning word from ground observers to a responsible meteorologist, and thence to the public in real time without having to depend on a single media outlet outside the National Weather Service.

Right now, Oklahoma City and environs has the benefit of an excellent, well-run net with an envious track record for success. Simple logic dictates that this operation should continue as the prime source of observer data in Central Oklahoma. Getting this highly successful operation "wired" into more direct communications with NWS, and all media outlets in the area, in real time, and responsive to the meteorologists at NWS will assure the continued use of this valuable resource for central Oklahoma.

Radio amateurs are famous for getting together in team efforts for a common cause. We are equally (in)famous for dividing up and taking sides of issues.

Now is not the time for dividing. The safety of this community is at stake, and so is our charter for public service. We have some problems. Let's try to solve them, not add more.

73.

Rob AA00-

Here is the "nice little piece" that was left out of last month's issue. What do you think?
Joe Harding, WA5ZNF

File 0

Ada, Oklahoma had some tornado damage out of the storms spawned by that tremendous low pressure area over us April 2nd.

Ada, Oklahoma apparently had a scant 7½ minutes warning (via the local CD/siren system).

Continued next page

Ada, Oklahoma (according to a recent news report) had over 20 minutes warning via channel 9 TV, because channel 9 "issued a tornado warning" for the Ada, Oklahoma area.

Ada, Oklahoma (according to the same recent news report) has decided to activate their siren system and take other warning measures from now on based on the channel 9 warnings.

If I had anything to do with management of channel 9 in Oklahoma City (KWTv), that would scare the hell out of me...If I was a resident of Ada, Oklahoma it would scare me even more.

The implications of this little scenario go right to the heart of something I've been arguing about for quite some number of years now. We live in the heart of the so-called U.S. tornado belt. We Oklahomans should recognize we live with the reality of damaging winds just the same as folks along the Gulf coast recognize hurricanes as a fact of life. Here in central Oklahoma we have perhaps the single most viable real-time severe weather observation, confirmation, and mass-media communication system in the country. We are blessed with this capability because of the organizational efforts and skills of the Oklahoma City Auto Patch Association (OCAPA) augmenting an excellent private meteorological staff at KWTv backed up by some high-tech equipment owned by the station. There is no question about the effectiveness of this combination for tracking and confirming conditions of area storms. Local media weather operations have gotten so good that with their immediate access to the mass-media, they can issue their own warnings with a fair degree of accuracy and a great degree of speed which is essential in the thunderstorm situation.

Now gang; This situation is ridiculous.

Aside from the obvious legal implications of a community depending on a private source for warnings without benefit of contract, what about the "cry wolf" or "Chicken Little" problem when other media outlets begin to want their fair share of the action and glory for having "saved" a town. Who does the public listen to when several radio and TV outlets start competing for the earliest warnings (measured in terms of ratings) That situation, by the way, currently exists to some extent in the Oklahoma City media market, and we amateurs trying to perform our public service functions are caught up in it.

Virtually all meteorologic forecast operations depend heavily on observation data taken, collected, and disseminated through the National Weather Service data facilities. FAA, by the way, plays a vital role in the data dissemination business. No meteorologist worth his salt will tell you he can operate without the maps, satellite photos, computer models and so forth which are provided by the NWS/NOAA sources.

So, where is NWS when we need 'em? After all, NWS is charged with responsibility for issuing warnings, watches, forecasts, etc. Well, the answer is that NWS is doing just that, and I might add doing it quite well, thank you. So, how come Ada, Oklahoma only gets 7½ minutes warning through NWS/CD channels, when KWTv was giving warnings some minutes earlier? Simple... KWTv works off the same sheets as NWS (in fact their information comes from NWS). Virtually any trained meteorologist looking at the same data will independently come to about the same conclusions in most cases. Radar confirmation and analysis is easy, if you have radar equipment. NWS and most TV outlets have at least basic radar equipment. (not all have doppler - yet) So what's the difference between private forecasting, and public? Access to the mass media. The TV meteorologist, seeing the same thing the NWS person does, can get immediate access to the media outlet because he is in the outlet. The NWS person puts it on a common teletype circuit, and on the NOAA weather radio line, and possibly on a phone circuit to a local CD source. In the case of the TV the information is graphically displayed in homes and businesses in real-time, and anyone seeing it can use the information. In the case of NWS transmission time getting it on the wire, getting access to the feed for the NOAA radio, and processing the information through decision makers in an EOC somewhere is involved, and then all you get

is a siren, or advice to watch TV. When media outlets such as radio stations pick up NWS alerting information there is still the factor of transmission lag, coupled with non-graphic descriptions of affected areas.

Well...no damned wonder Ada, Oklahoma decided to listen to the TV warnings...they get there first. But, again what happens when other media outlets want a piece of the action? And, again, NWS is charged with the duty to issue warnings in the public good. And...how does the amateur radio community which is so uniquely equipped, (and chartered) for public service fit in the midst of all this confusion. Are we, for instance, in violation

of Part 97 when being "sponsored" by an individual media outlet thereby contributing to their pecuniary interests. Does the public service rendered by that service outweigh the violative aspect? I'm not the first to ask the question...I don't have any answers...only a possible solution to a growing dilemma not only for amateur radio but the community as well.

The secrets for successful operation of a severe weather warning system in the tornado belt are obvious. You need:

1. A meteorological forecast operation staffed with trained people, backed up with state-of-the-art equipment.
2. A network of trained, radio equipped observers on the ground to verify spot conditions at given locations, and communicate directly with a meteorologist who can issue precise warnings.
3. Immediate, real-time access by the responsible meteorologist to mass-media outlets, preferably more than one, and with graphics such as a live real-time radar display.

This set of conditions, with the exception of access to multiple outlets is what we now have in place, operating successfully in central Oklahoma. The only problem is that it ain't operated through the public agency specifically charged with the responsibility for issuing public warnings, and advisories.

Now, before you reach for your poison pen...let it be understood that I do not now, nor have I ever advocated dismantling our present system. That system is the only real-time warning system in central Oklahoma, and it would be foolish to destroy it, or even tamper with the way it is presently operated. After all, it's all we got, and it's damned successful.

With that understood, let me propose that we (the amateur community) start thinking about ways we can support some system that gets the NWS directly involved with two-way contact with trained amateur radio observers in the field, and directly involved in real-time access to the mass media outlets which are the only viable way the public is going to get the warnings timely.

And while we are in the thinking mode, let's think about getting graphic displays going on mass media. You would be surprised how much you can deduce about your own situation from a radar display!! Some communities run continuous radar displays on open TV as an insert along with regular program material, and many cable systems put a display on a separate channel.

I suggest the community consider the effects on our warning system should there be a shift in emphasis with regard to weather matters, or a change in management, or an economic reversal at KWTv, or any other media outlet for that matter. Are all our eggs in the right basket???

Just remember while you are thinking about this subject that NWS is officially charged with the responsibility for issuing official warnings and advisories. NWS does that now, and does it timely. NWS fails the community in terms of immediate real-time mass media access, and in terms of on-the-ground observations in two-way contact with a meteorologist for confirmation of actual conditions at a given location. How can we help correct these problems?

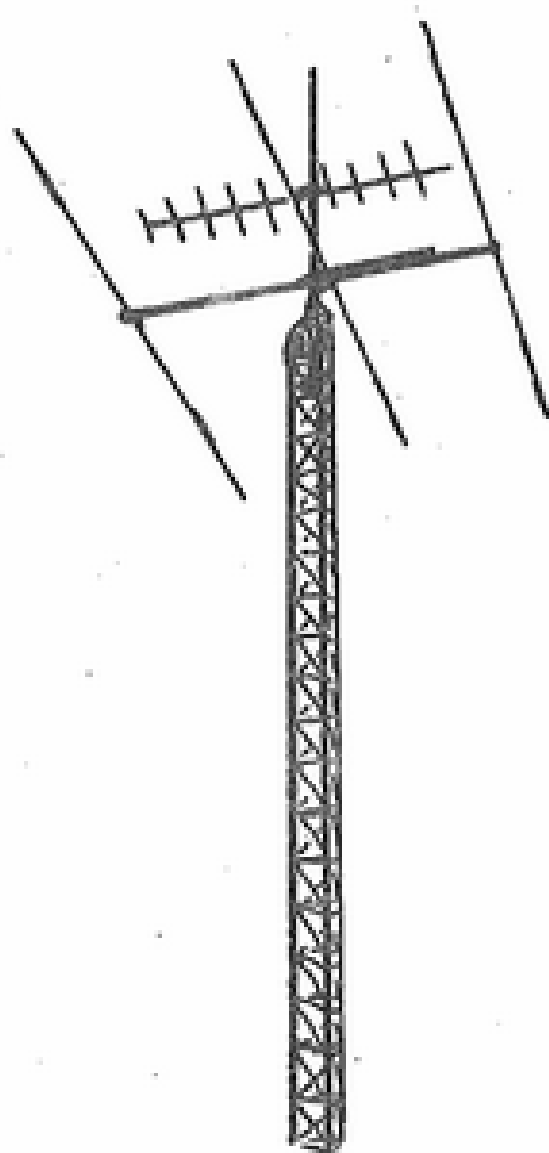
73 - Rob, AA00

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	MAY 31 MEETING 	 1	2	3	4 	5
6	7	8  Shawnee 	9	10 ALTUS AREA 	11	12 
WHEATSTRAW PLATT NATIONAL PARK 13	SOUTH EAST OKLA ARC 14	 15	16	kay  17	 18	19
20	21 EDIT 	22 CORA 	23	24	25	26
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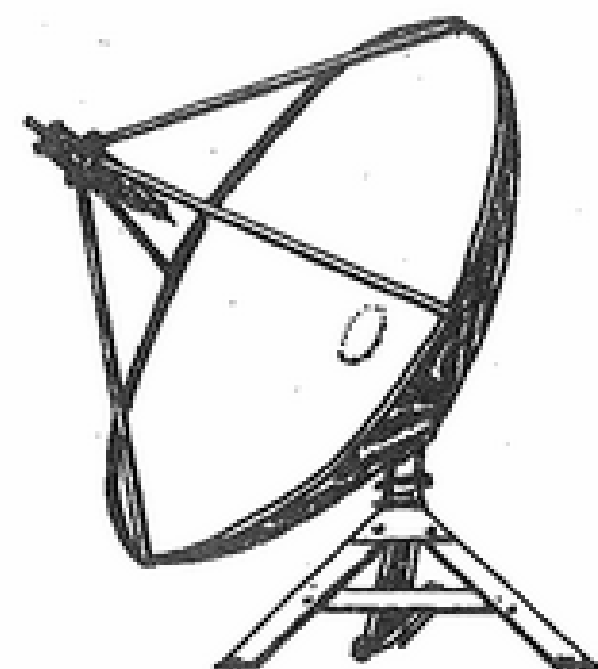
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