

SECOND CLASS M

## All About A Fancy Antenna!

We were sitting in the Moonlight restaurant not too long ago, drinking coffee and stirring it with our rubber duckies and then flipping the coffee off the end toward each other. I was with one of my best friends of the amateur fraternity. To not reveal his true identity, I will only call him Doc. Doc is quite a fellow and often makes a spectacle out of himself. In fact, Doc has made a lot of spectacles in his lifetime.

We were talking about the rubber ducky and what a wonderful antenna it was. Not only does it do a respectable job of radiating one's signal from his walkie, it has other practical uses such as stirring your coffee as we were, scratching your back in places you can't reach, and rubbing the side of your nose. Perhaps there are other good uses for the ducky that I can't think of now.

As time went by, we talked about various other antennas and the merits of all of them. Doc is quite an authority on all kinds of antennas. He should be, for he has a regular antenna farm in his back yard.

Doc happened to mention that he felt one of the most useful and practical antenna was the inverted vee. This antenna worked especially well on 40 and 80 meters and appeared to be omni-directional. It was fairly flat all across the band on 40 meters and had a fair amount of usable frequency range on 80 meters without the s.w.r. getting too high.

I asked Doc if he felt like other antennas would work as well as the inverted dipole if they were also in the inverted position. He didn't come right back with an answer, but after a few minutes, he suggested that we give it a try on some of his other antennas.

One of Doc's favorite antennas is his Portable, flexible gain, all band vertical, purchased from Old Don's Radio, capable of working all bands, 10 through 160 meters. He has this antenna in the center of his back yard, mounted to an old tree stump. He never could talk his sons into digging the stump out, so

he thought he would make good use of it. From the base of the antenna, he has two radials running out for each band. With all the clay he has in his back yard, he decided not to bury the radials. They seem to work just as well in this configuration and besides all that, they make a pretty good burglar alarm if someone sneaks into his back yard to stick pins in his coax and trips over them.

We decided to see if this vertical would work better in an inverted position. We drank a little more coffee and continued to stir it with our rubber duckies, contemplating a way to mount it. At first, we decided to erect two 40 foot towers, connected at the top by a two by four to hang the vertical upside down. But, after considering this, we decided that it would take too many telephone poles to tie the ends of the radials at the proper height.

I suggested that about the only way to do this right was to dig a hole in the ground approximately 40 foot deep and place the vertical in the hole, with the base of the antenna at ground level. A 40 foot hole is a pretty good hole for anyone, but it was the only solution. Doc called the power company to see if they could come out and dig the hole, which they readily agreed to do.

After the hole was dug, we placed the vertical in it, upside down, with the top hat about six inches from the bottom of the hole. We decided it best not to fill the hole back up with the same dirt that came out of it, so we went out to the local nursery and bought some peat moss and tree bark to place around the antenna. We felt it best to keep the vertical well watered and knew the peat moss would retain water better than the heavy clay.

Next, we had to mount the radials. Since the vertical itself was in an inverted position, we felt it best to have the radials come from the base of the antenna at a 45 degree angle to provide better radiation. This meant we still had to have the telephone poles, but they wouldn't have to be as tall as

if we had mounted the antenna between the 40 foot towers. So, we got the 12 poles, two for each band, and placed them at the proper location around the yard.

We tried various types of wire for the radials. Both number 10 and 12 copperweld stranded wire worked very well, but the s.w.r. was a little higher than we wanted. I suggested we try some barbed wire that a local farmer had given me. After connecting the barbed wire on the base of the antenna and to the top of the telephone poles, we checked the s.w.r. and found it to be flat all across all the bands. We found out later that by using the barbed wire as radials, there is never any need to disconnect the antenna during a thunderstorm. The barbs on the wire act as little lightning rods and the jolt from the lightning strikes never get into the shack.

We decided to give the antenna a try. Doc loaded up his Johnson Viking and put out a big CQ on 40 meter c.w., about 7030. Much to his surprise, a host of BY's answered his call. What a pile-up! He must have worked a dozen of them before deciding to give 20 meters a try. The same results, except most of the calls came from Africa.

After experiencing such good luck with the vertical, we decided to see if his tri-bander would work better in an inverted position. We made a fast trip down to the local television store and bought a cheap rotor, only strong enough to rotate the beam from normal position to an inverted position. After experimenting with the beam in various positions, we found that if it was cockeyed just a little, it seemed to work better than if exactly inverted.

Doc is in the process of fixing all his antennas now in an inverted position. He has found that with the same power, he has been receiving much stronger signal reports with the antennas in the inverted position. The next time you see Doc walking around talking on his talkie, he will probably be holding the radio upside down.

This has certainly made a believer out of me. Next week, I'm going to start work on inverting all my antennas.

K5NX

## Pre-register Today! Ham Holiday

## Q. R. Zedd

### C A5A VIA EVERYBODY

Sweating out the last days of wife Tondelayo's maternity leave from her duties as his QSL manager and tower-painter, the great Q. R. Zedd was looking for some new world to conquer.

Mrs. Constance Wilhemina Zedd, widow of the legendary Zepp Zedd and fondly referred to in these parts as "Momma," was visiting Honor Roll Ranch, just a hoot and a holler south of town. Momma looked at her famous son, A5A, greatest DXer in the history of the galaxy, and made a suggestion.

"When I was blasting over here from Mena on my big Kawasaki," she observed, "I made some nice CW contacts with some fellers who told me about something called packet radio. Why don't you try packet radio?"

"I got packet radio," Zedd retorted. "That Yaesu I fixed for N5ALG is in a packet there by the door right now, waiting for the UPS man."

Momma finished the enamel touchup on her three-inch crimson claws and closed the lacquer jar with a trill of amused (if not condescending) laughter.

"Q," she said, "Sometimes you are beyond my understanding. You have been so busy working the world and worrying about the darling girl's pregnancy that you haven't been keeping up."

Zedd's chin shot up like a fly ball at EightyNiner Stadium. His pride had been piqued. "Keep up? Keep up? What do you mean, keep up?"

"Packet radio," Momma told him, "is a new technology. Some of the boys at the last SCARS meeting, or maybe it was at Red's, told me all about it." Then, if a few thousand carefully chosen words, she explained about packet.

"I got radios," Zedd fumed. "I got computers. Gawd knows I got antennas. All I need is one of them TNC thingamadoodles. Where do I get me one, or have you got a schematic on you?"

"Well," Momma said, "the world expert on all of this, if you can't find K5JB, is right up there in Norman, just a hoot and a holler from here, and his call is N5HZU."

"I know him!" Zedd replied. "He holds the North Flood Street donut-eating trophy two years running!" And he sprang to his two-meter rig and found Howard on the air.

Within a few hours, Zedd's new pal had visited Honor Roll and delivered an extra MFJ unit he happened to have handy. He helped the great one hook stuff together, and then showed him how to set CALL, DA, BEAC, CTEXT, FRAC, and all that other neat stuff.

"Now what do I do?" Zedd demanded, sweat drooling off his forehead as he stared at all the two-meter calls streaming across his monitor.

"Now," N5HZU explained, hitting some keys, "you get the command prompt like this, and then you type a C like this... and then a callsign of somebody you want to work, like here I'm calling Randy in Dallas via OKC, RUSH, and well, you can see the rest of it."

"Then what?" Zedd asked.

"You hit *Return* and it sends it. There! You see the transmit light flash? You see the DCD light up? There! You see the Connect diode on? Pretty neat, huh?" And Howard had a nice QSO with his pal in Big D.

We could tell Zedd was pretty impressed when Howard disconnected. "Can I play now?"

"Sure." Howard vacated the chair in front of the keyboard. "Just type in a C and then the station you're calling and then the path. You can even connect with yourself if you want."

Zedd's fingers flew over the keyboard:

C A5A V OKC,ADA

And then he hit a return.

Packet collisions being what they were, with about 90,000 stations calling him, he had to wait a couple of tries before his screen changed:

CONNECTED TO A5A --

Zedd stared at it a little sadly, and then disconnected.

Pulled the plugs out of everything.



We had a very relaxing day for our meeting at Red Rock Canyon. The weather was beautiful, fellowship great and the picnic lunch left us full to the gills. Everyone brought delicious food for our picnic.

N5ZYX upgraded to Extra Class. Congratulations from all the club.

Roman Nose Park will be the sight set for our next meeting. Then will be our annual Field Day. We have lots of fun at that event so we'd like for all of our members to show up for it. Bring your tent and camp over night.

WA5PFX, Ralph is net control for the month. We meet every Wednesday evening on 146.610 for anyone wanting to visit with us.

This concludes our meeting with 26 present.

Jan, N5JUT

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## QSL cards!

Handed the TNC back to N5HZU.

Went back to the hf station.

"What happened?" Howard asked those of us in the bleachers. "I thought he was having fun!"

It was WA5RPP who explained it:

It had been a terrible mistake to tell Zedd he could connect with himself. Because after he had worked A5A, what new thrills could packet possibly hold for him?

Well, packet's loss is DX's gain.

-- KU5B



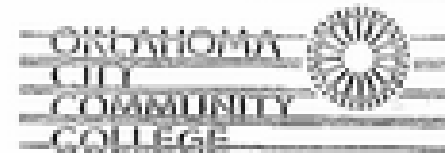


## ALTUS AREA AMATEUR RADIO ASSOCIATION

The March meeting of the AAARA came off as planned. Well sort of, there only being 7 members present the meeting wasn't even called. An informal discussion followed for about an hour whereupon the un-meeting was adjourned to the QTH of Mike and Annie Schenkle for coffee and further talk...One of the biggest items we needed to take care of is getting ourselves a new president...JIM, KB5LS went and got hired by the state of OK...only problem with that was that the job is located in Tulsa where Jim is also...Please note, all you members out there in CORA C&E land please show up for the next meeting so we can hold elections...The club had a small presence at the Lawton/Ft. Sill Hamfest. The AAARA had a table there and myself and Mike, W5VXU managed to sell a few items to aid our own pocket books and for the club. We raised about 8 or 9 dollars for the club...other members present were Loren, WA5CBF and three of his new novices...also George who is stationed at Altus AFB and is a prospective ham. Also met some other CORA members who I only knew as names in the C&E...THE BIG NEWS...No we didn't get the tower height battle won this time around.. As I said last month the next step would be to go before the City Council and barring any unforeseen problems we would have won...well we didn't plan on having extra words added to the ordinance which is what happened...After a rather stormy session which we were not really doing too well on, the issue nearly came up for a vote which we most likely would have lost...We again objected to the additional wording and at that point the Council decided to send the whole matter back to the Metro Planning Commission...Here we are 3 months later and 12 steps back...needless to say, the members who have been fighting this are becoming just a bit perturbed at the lack of action we are getting...also the lack of cooperation from elements of the city

staff...As things now stand we are about one to one and a half months away from a final outcome...once again!!!As before we will keep you posted through the C&E on our progress...On to a happier note the Field Day rules have arrived so plans for June can now get into high gear...Look for the AAARA (call unknown at this time) when all that RF starts to fly...Back up on the soap box again...the ARRL has gotten an extension on the deadline and reply comments for the proposed action to give away the 2 MHz of the 220 band...Sorry you won't get this in time to reply...My fingers are getting tired and the Apple IIe is making weird noises... de N7NU/5, Mike

101

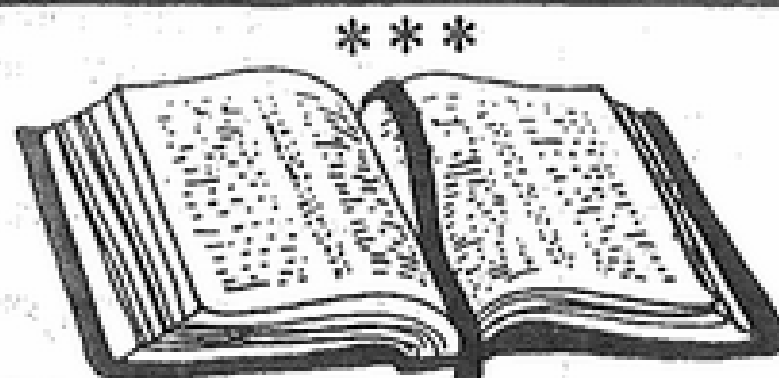


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## HAM HOLIDAY WORSHIP SERVICE

August 2, 1987

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**W5ZUS**

WILL BRING OUR MESSAGE

FOR MORE INFORMATION ABOUT THE HAM HOLIDAY, AUGUST 1-2, AND THE WORSHIP SERVICE, CHECK INTO THE NET 3900 ± AT 2:00 p.m. EACH SUNDAY - - - ALSO, PLEASE INVITE OTHER HAMS TO CHECK IN AT THAT TIME. AFTER FORMAL CHECK-IN AND PASSING OF ANY FORMAL TRAFFIC, THE NET IS DECLARED INFORMAL AND WE ENJOY A NICE TIME OF RAG CHEWING AND FELLOWSHIP.



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## HAM HOLIDAY 1987 INFORMATION AND REGULATIONS

**FACILITIES:** Ham Holiday/ARRL State Convention will be held in the Convention Center of Lincoln Plaza, 4445 N. Lincoln Blvd., Oklahoma City. Commercial exhibits may be set up Friday night. Security will be provided.

**PROGRAMS:** Something to interest everyone. Live, "hands-on" demonstrations will be conducted, including: packet radio, fast scan television, reception of weather facsimile as well as more conventional amateur modes of operation. These demonstrations will be conducted on Saturday and Sunday. Bring your license and try an unfamiliar mode! Tom Comstock N5TC plans to discuss the findings of the ARRL Blue Ribbon Commission as well as the future of the National Traffic System. An ARRL Forum will be conducted on Sunday afternoon. Some of the planned seminars include: advanced packet radio topics, antennas and their uses and severe weather as it relates to amateur radio. ANSAT is planning a live demonstration and forum. Organizations planning meetings during Ham Holiday include: MARS, Oklahoma Packet Radio Association, Oklahoma Repeater Society, ARES and RACES.  
Note: Programs and activities will be conducted Friday night, Saturday and Sunday.

**EXAMINATIONS:** VE examinations will be conducted all day Saturday and Sunday morning. Be sure to bring the original and a copy of your amateur license, a drivers license (or other photo ID), a writing device and a calculator (if desired). No pre-registration is required for exams.

**FLEA MARKET:** (Non-Commercial Only) Every Pre-

Registrant may rent flea market tables for \$2.00. However, we reserve the right to limit the number of tables allowed each Pre-Registrant. Flea market tables may be reserved on the Pre-Registration form. Some tables may be available at the door for \$3.00. The flea market area is indoors and air conditioned. No displays or "tailgating" will be allowed in the parking lot. People who wish to have tables together should order them through one person (please include the name and call sign of persons sharing the tables). Only exhibitors will be allowed in the flea market area prior to 9:00 A.M. on Saturday. Exhibitors may set up at any time after 7:00 A.M. on Saturday. No flammable liquids, explosives or weapons allowed.

### FLEA MARKET SCHEDULE

**Saturday:**  
7:00 A.M. Open to exhibitors for set up.  
8:00 A.M. Open to all registered participants.  
5:00 P.M. CLOSE. (Security Provided)  
**Sunday:**  
8:00 A.M. Open to all registered participants.  
3:00 P.M. CLOSE. Clear Tables.  
4:00 P.M. Tables removed.

**PARKING:** Free parking will be provided to all participants. Space will be available for self-contained recreational vehicles.

**HOSPITALITY ROOM:** A hospitality area will be provided by Lincoln Plaza.

**AWARDS:** Awards will be presented on both Saturday

and Sunday. The drawing for the large awards will be conducted on Sunday afternoon. The winner and/or his ticket **MUST** be present to claim any award except the Pre-Registration Award. You may assign your ticket to another registrant. Unclaimed Pre-Registrations will be deposited for the Pre-Registration drawing only.

**TRANSMITTER RESTRICTION:** In order for any ticket holder to be eligible to win an amateur transmitter, he/she (or a family member) must hold a valid amateur license.

**PRE-REGISTRATION:** \$7.00 per person (please use attached form). All envelopes must be postmarked not later than July 22, 1987 to be eligible for the Pre-Registration award. To avoid the registration line, include \$0.50 and mail Pre-Registration before July 10, 1987. Tickets will be mailed July 10 - 20, 1987. No limit on the number of tickets you may purchase. No refunds. Winner of Pre-Registration Award need not be present.

**ADMISSION:** \$7.00 Pre-Registered, \$9.00 at the door. Registration badges must be worn in plain view for entry into: flea market, commercial area and technical programs. Admission is free to non-technical programs and live demonstrations so invite a friend!

**SMORGASBORD & QCWA BREAKFAST:** Smorgasbord will be held at the Heritage House on Northwest Highway, west of Portland, at 7:00 P.M. on Saturday. The QCWA breakfast will be held at the Lincoln Plaza at 8:00 A.M. on Sunday.

# ● ● HAM HOLIDAY ARRL STATE CONVENTION HAMS Preregistration Award GRAND AWARD LADIES

**PRE-REGISTRATION DEADLINE: Postmarked by July 10,  
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## USE THIS FORM TO PRE-REGISTER

Fill out a separate form for each registration:

LAST NAME _____	FIRST NAME _____		
ADDRESS _____	CALL SIGN _____		
CITY _____	STATE _____ ZIP _____		
RESERVE _____	FLEA MARKET TABLES	\$ 7.00	\$7.00
RESERVE _____	SMORGASBORD TICKETS	\$ 2.00	
RESERVE _____	QCWA BREAKFAST TICKETS	\$ 0.50	
RESERVE _____		\$ 0.00	
CHECK HERE _____	FOR REGISTRATION(S) WILL BE MAILED TO YOU (MAIL BEFORE JULY 10, 1987)	\$ 0.50	
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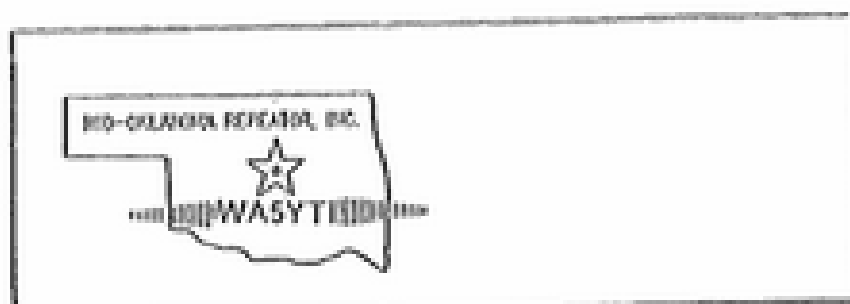
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**See Other Side**

NOTE: TO RECEIVE THE \$39.00 RATE YOU MUST HAVE YOUR REGISTRATION BY JUNE 30, 1987. AFTER THAT DATE, ROOM RATES WILL BE: \$42.00 - SINGLE, \$47.00 - DOUBLE.



Things are a little slow in MORI. Meeting participation is light for the size of our club. Of course I hardly have room to talk, conditions beyond my control have kept me from the last two meetings. Unfortunately, I will miss the June meeting also. The meetings are held at Oklahoma City Community College, 7777 S May Ave on the first Tuesday at 8:00pm.

Any members who have changed call signs within the last two years or so are urged to contact Bob, KA5ETA and advise him of the changes. Speaking of the devil, for any information needed on mailbox numbers, auto dial, etc. contact KA5ETA.

There has been a recent change with two of our repeaters. The controller has been removed from the 34/94 machine and placed on the 444.1 repeater. All access functions remain the same. The reason given for this change was that the 34/94 machine is almost useless much of the time due to intermod.

One other item...members are urged to check the expiration dates on their membership cards. Expiration notices are not getting to all members.

So much for repeater activity. Since the Novice enhancement allowing phone activity on 10 meters for Novice and Technicians, the band is becoming quite active during openings. the openings seem to be quite irregular in nature. Propagation might be good in the mornings, afternoon or evenings, even until midnight or so. I've made contacts in CA, AZ, CO, FL, lots of North and Northeastern states and even Costa Rica. I've heard some Canadian stations but have not worked any yet. There have been some big pile-ups by stations wanting to work some rare islands etc. I've even heard a mobile station in the Peruvian Jungle!

For what it's worth, it does not take much of an antenna for 10 meters. I've heard several stations using 11 meter ground plane antennas with good results. I am using

#### May Meeting Notes

May is officer election month and the ole railroad ran again this year. WD5DPR, Harry is again the Sec/Tres. Mike, N5JJR is the new Vice Pres and yours truly KD5FX is Pres again. This was the last meeting of the summer, our next meeting will be in September. Keep an eye on this column and check the Monday nite 9 p.m. nets summer club news.

There will be no formal club field day this year, but a few of us are planning a short Saturday outing.

#### Public Service Events

We gotta bunch! The Tri-Athlon will be June 6th at Lake Ponca. It will probably start at 8 am again so we need to be out there around 7 in the morning! On June 20th we have the raft race on the Arkansas river. This year it will be on Saturday instead of Sunday. I don't have the details yet, but it usually starts around 1 pm or so. The next event is the Ponca Grand Prix on July 4th & 5th. We will be providing eyes and ears for Dr. Paul (N5HIC) both days. So, as you can see, we have a busy few weeks coming up.

#### Kenwood TM-221A Review

Well, Kenwood has finally come out with some competition for the Icom 28H. The new TM-221A has the same frequency range (138 to 174 Mhz) and power (45 watts). It's size is a bit smaller and the price is around 50 bucks less. It also comes with a DTHF mic. It has 14 memories and the top two can store any split. Memories A and B store the programmable band scan limits. If you don't want any limits, you can use them for regular memory channels.

The ARRL band plan is programmed in the microprocessor and as you tune

a dipole made of 1/2" hard drawn copper tubing. the tubing is attached to some 1 1/2" PVC pipe for rigidity, and the whole thing is stood up vertically on my roof. I guess the antenna is twenty feet high, more or less.

Speaking of 10 meters, there is a local net Sunday evenings on or about 28410 MHz at 8:30 pm local time. The net is run by Craig, KB5BOB. The net was started to promote the use of 10 meters and is a rag chew net.

73 de Tim, KA5MUG

across the 2 mtr band the repeater offset is set automatically for you. You can vary from the standard by using the 'shift' key. There is a memory channel lockout to prevent scanning any channel and you can select the frequency step from 5 to 25 kHz. It also has built-in sub-audible tones available.

The manual is quite good, no Japanese-English, and even includes a short trouble shooting guide, block diagrams, and schematics. The LCD display is quite easy to read in any light, complete darkness or even direct sunlight. Overall I am quite pleased with the new Kenwood, I haven't had time to put it on the test bench yet, but I will soon. It seems to be every bit as good as the Icom and costs less! Dave, KD5FX

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### Repeater Update:

Most of you folks probably figured that my article in the February issue was my last. I enjoy writing for the C&E when I can find time. You too! can have fun writing for the C&E. Just write that article on the topic you have been wanting to share with the rest of the amateur radio community and give it to Lee Vaughn, KA5WIS, our club editor. I'll bet he would even get it typed if you submit handwritten copy. You want to see more about EARS? then write about EARS; give it your best shot. Heck, it don't even have to be about EARS. You know the kind of things that hams like to read about. Well guess I should get on to the matter at hand.

KC5GN/RPT 147.735/.135 is doing fine. We finally made it, since the first of April we have had an ACC RC-850 controller controlling the repeater. Yea, I know, so what? everybody in town has one you're thinking. The real thrill isn't that we have the RC-850 but that EARS started working on the required funds for said project in the Fall of 1985 and followed through even though the road got rough a few times. EARS is good at tough projects: ham classes, club challenge, ect. thanks to the many fine members we have supporting our group. Looking for a group to join? then check EARS out.

Back to the repeater. The nice new controller deserved a new rack enclosure (not to mention it wouldn't fit in the existing cabinet) so we did some shopping (begging). Ron Moore, N5DEW, made us an offer we couldn't refuse on a retired computer tape drive enclosure. The enclosure was 19 inch rack mount front or back and about 3 feet deep! The side panels and doors all slipped off to provide easy access for wiring. Four muffin fans in the top connected to a thermostat provide for extra ventilation when needed. A power distribution panel with

circuit breaker and five duplex outlets was mounted in the bottom. The cabinet is black with IBM blue doors and will even roll around on casters.

The cabinet was located in my garage for about two weeks prior to being installed at the repeater site. Harold Wells, WA5ZKX, and myself spent each night doing some of the preliminary work such as burglar alarm switches, wiring from the RC-850 DB-25 connectors to terminal strips, grounding straps, ect. We had fun while learning.

When the proper Friday came several of us met at the repeater site to install the new controller. The plug was pulled on the repeater about 4 PM. The crew consisted of Harold Wells, WA5ZKX; Tommie Guinn, KA5WAV; Lee Vaughn, KA5WIS; and myself. First chore was to pull the parts out of the old cabinet then mount same in the new cabinet. Then came the wiring. All of the wiring is shielded cable with the shield terminated on one end only and at certain common points. The ends of each cable had heat shrink tubing placed over them to make it all look neat. Cable dress and location was a consideration. Sounds simple doesn't it. We managed to rewire the repeater by about 4:30 Saturday morning. It ended up looking great because of the great team effort.

That Saturday morning began our learning curve as to just what the RC-850 could do. Bill Wright, KC5GN, (trustee) and I decided that the best way to solve some of the problems was to enlist the help of our control operators. Harold Wells, WA5ZKX, offered to take over the chore of keeping up with autopatch and autodial functions. Ken Stepp, N5DBM, took on the task of programming the rest of the RC-850 controller with respect to IDs, courtesy tones, schedules, messages, ect. A very big THANK YOU to Ken and Harold for the great job they have been doing. The rest of you... thanks for your patience while things came together.

Bells and whistles.... we have

a few. The controller came with built in internal controller temperature as well as internal controller voltage. We added sensors to indicate outdoor temperature as well as transmitter PA temperature. We also have a 150F degree snap switch on the PA wired to the second alarm input in case the PA gets too hot (air conditioning quits or fan quits). This alarm will read the actual temperature from the telemetry channel over the air. Another telemetry channel is set up to read the 120 VAC line power. We have been asked about hooking up a voice S-Meter but currently have no plans to do so. We have more than one receiver so it would require us to add circuitry to the receiver voter's audio; yes it could be done but we don't plan on doing it. What do we plan? Almost completed is the hardware hookup so that the controller can indicate which receiver is being voted by the courtesy tone. Please keep in mind that all the bells and whistles are nice but each one of them usually provides another antenna for us to receive some of the unwanted KCSC 90.1 FM audio that we don't want. That is the reason for ferrite beads, bypass capacitors, and shielded cables. Not trying to say it isn't fun but it isn't always easy!

### Another Problem:....

For some time now we had been having reports of not hearing the repeater one day and hearing it just fine another in some of our outlying areas. We also had had a bad case of static noise that bothered us every now and then. So where was our problem. We had a DB-224 top mounted on the 400 ft. tower fed with 1/2 " Andrews LDF from a Wacom Duplexer. The reflected power at the duplexer wasn't very high so we didn't really suspect the cable. Since the signal strength could be seen to suddenly change on user's receivers the antenna was suspect.

The second problem.... The antenna was 400 feet higher than most of us wanted to climb. Wendal, WB5ISO, to the rescue. Wendal offered to

CONTINUED NEXT PAGE



### Minutes of May Meeting

There wasn't one! Most of the gang went to the Green Country Hamfest, leaving only Jerry, KD5IS, Steve, W5VCJ, and a couple of folks from the Edmond Explorer post to sort out things and make ready for the move to the new Red Cross facility. Sorry to let you down Jerry, but you know how addicted I am about ham-fests! Joe, K5JB, Sec'y

### Hamfests! Oh Boy!

Got to go to two of them this month. The biggie was Dayton Hamvention where there was the annual Gathering of the Faithful, those I have cavored with over the years and over the country.

The trip started out with a wonderful send-off by Bill, WA5FWD, who had posted a sign by the TWA gate expressing his company's appreciation for our business. One of these days we are going to persuade Bill to join us on one of these trips.

On Friday, the first day of the hamfest, the weather was cold as heck, and rainy but got progressively better as the weekend wore on.

There isn't much I can say about Dayton that you haven't already seen or read. My specialty is the flea market but Friday's bad weather drove me inside where I got a good look at the dealer's new goodies and dropped into a couple of forums.

I visited the AEA and GLB folks to chat about their new high speed data radios. (GLB had one on display and operating.) I have misplaced all my notes so I am operating from memory but I think the GLB runs at 19,200 bauds in the 220 to 225 MHz band. Both it and the AEA radio are in the \$500 price range, I believe. (Dang it! Wish I could find those notes.) Both radios have been announced but neither was shipping as of hamvention time.

Alex Mendelsohn, AI2Q, gave me one of his TNC-3s. You might remember a little blurb in the April issue about the TNC-3 and its terrible spectrum. Well, Tom Clark, W3IWI, was right. I am convinced that the TNC-3 would cause interference problems if it was to come into extensive use, or even infinitesimal use.

Alex, bless his heart, spotted my

call on my cap as I wandered down one of the aisles and hollered at me. Long ago I had sent him a little program for the R.S. Model 100 that permitted it to take advantage of the GLB PK-1 TNCs 'features'. He reciprocated by giving me one of his TNC-3s. Now you can claim that you know someone who has one. In fact, I was the only one in the packet meetings that had one. Even the unflappable Harold Price, NK6K, was agog!

You would think that with a whole three day Memorial day weekend I would have time to ramble on a little more about Dayton, but I am absolutely awash with other projects so I will leave it up to Mike, N5MS, to tell about our wonderful return trip.

I went to the Green Country Hamfest for the first time this year and really enjoyed it. I guess that being so close to Dayton time has previously failed to inspire me. However, I wanted to chat with some of the Northeast OK packeteros and pick up some kind of antenna to replace my Ringo Ranger Super Impositor (the two meter dummy load with incidental radiation.)

After conferring with Joe, WA5FLT, we decided, "What the heck! The lawns can wait!" and off we went.

It is a small, one day, hamfest but really nice. The flea market was adequate, the dealers were sparse, the programs were interesting. Afterward, Ron, N5WX, commented that he was disappointed that the packet program was not well attended but I told him that in a one-day hamfest, any program would have a tough time competing with the flea market.

I particularly enjoy the social aspects of these things. There is nothing like face to face contact to firm up friendships (and confirm suspicions!). Now that I have one of almost everything, I don't have to spend so much time scanning the flea market which enables me to spend more time joshing with the gang. I hope the Bartlesville Club came out OK on the event and continues to have them. Now, let's get on with some other items. K5JB

### RSC Electronics

Fred Noble, N5JIK, from RSC Electronics, dropped a revised C&E advertisement by the office the other day and I realized I had not been by his store since it opened, so I made a visit see what all he had in there.

It is located on the West side of I-35, just North of the S.E. 82nd exit (just North of Denny's). It is a

small store but it has a complete assortment of RCA SK semi-conductors and a pretty good assortment of RF and computer data cables and connectors and the like; just the sort of thing you might need in a spontaneous fit of building (or repair).

He has various tools and instruments one might need in a hurry, or just might like an impulse buyer. (I bought butane soldering iron!)

Fred said that through his connection with the main business in Wichita and a network of suppliers he can supply almost any electronic component or equipment on short notice. If you can plan ahead, give him a call and see if he can't get you that widget you need. Joe, K5JB

### PK-232 Modifications

I got a goodie in the mail the other day but haven't had a chance to put it to use so I decided to wait until next month to wring it out and write about it. Dave, W5FWE, came to our rescue with a thumbnail sketch of the specifications. He sent the following by packet radio to me at 5 A.M., bless his heart. (He must have found a null in the BBS POOP!)

From Dave's message:

Here are some mods that are for the PK-232 FAX and SIAM modes. Here are details on the FAX mod and the SIAM (FAX is facsimile, SIAM is signal identification and acquisition mode).

#### FAX

ASPECT	Controls length to width of fax image.
DISPLAY(class)	Displays parameters of mode
FAX	Selects FAX mode
FAXNEG(on/off)	Changes sense of white and black.
FSPEED	Selects horizontal scan rate in lines per second.
GRAPHICS	Selects horizontal dot density.
JUSTIFY	Specifies the number of half-inches the FAX image will be moved closer to the edge of the paper.
LEFTRITE(on/off)	Selects scan left to right and vice versa.
LOCK	Start print regardless of whether sync pulses have been received.
OPMODE	Shows current mode and status.
PRCON	Selects printer on/off.
PRFAX(on/off)	Selects FAX to printer or to terminal for disk save.
PROUT	Echos to printer.
RCVE	Selects rec mode.
XMIT	Keys ptt for FAX tx.

## SIAM

**BITINV** Specifies a number to be exclusive-or'ed with every received baudot char.

**CCITT** Selects translation from CCITT or American Standard Baudot format.

**CODE** Selects International, US Teleprinter, Cyrillic, Transliterated Cyrillic, Katakana, or Transliterated Katakana.

**OK** Starts print after signal analysis is performed.

**SIGNAL** Selects the signal analysis mode.

An example:

0.47: 50 baud, baudot, rxrev off

This would be displayed and means that the PK-232 is 47% sure of the analysis and that the signal is a 50 baud baudot that is not inverted since rxrev is off. Typing OK, starts the print. The unit can ID ASCII, ARQ, FEC, AMTOR and Baudot.

The mod comes with two chips and a Y cable which has both the RS-232 standard plug for the TNC and a Centronics parallel connector for the printer. The printer needs to be Epson graphics capable. AEA says the following will work OK; Canon PW-1156A, Citizen MPS-25, Epson FX-80, FX-85, LQ-800, MX III, RX-80, Panasonic KX-P1091 printers plus NLQ Qume (no # given), Seikosha 1000A, Star Micronics, and Gemini 10X.

73, Dave

I am excited about the SIAM feature because I have spent untold hours diddling with parameters trying to decode the commercial stations that are running one of the dozens of codes or baud rates. To think that the machine will tell me what I am listening to really lathers me.

Maybe by this time next month I will have had a chance to try mine out and give my impressions. Joe, K5JB

### Let's Do It On .05!

Dave, WB5FWE, also asked me what I thought about spread spectrum. Not the real kind the AMRAD guys play with, but spreading the packet out a little more across the spectrum. He suggested that those who are tired of all the PBS POOP\* on .01 might want to start a local area net on 145.05. He said if there is enough interest he might even put on his conference bridge so we could play with it. (\* Poor Operating On Packet)

He suggested that if Cliff, WB4LPU, in Yukon and he, in Norman were to stay on .05 regularly it would be

simple for most anybody 10 or 20 miles on either side of a line from Yukon to Norman to participate in local chit-chats and all kind of Tom foolery.

I told him that the only thing that might keep it from being a successful LAN is the inherent gregariousness of amateur radio operators. (They like to gather around the watering hole where the action is.)

I might even dig out the 'ole GLB and put it on if it will help things along in the Midwest City area.

Let Dave, or Cliff, know what you think, or meet them on .05 if you can't find them on .01. Joe, K5JB

### COSI Switch, An Alternative

In March, I ran a description of Net/Rom, the EPROM for the TNC-2 type PADS that basically permits a station to connect to a node and direct it to route connections through other similarly equipped stations to link with a destination station. Net/Rom is a commercial venture and not the only one that does what is referred to as layer 3 (of the ISO network model) networking. (Texnet is one that is being developed close to home but it is not a TNC plug-in. It is a hardware and software project.

The following is part of a description I got off of Compuserve's Ham-Net. It was placed there by its sponsor, The Radio Amateur Telecommunications Society.

#### COSI-Switch

Revision 1.0 - 17 April 1987

COSI-Switch is a Connection-oriented, Open Systems Interconnection type packet switch which conforms to the CCITT Recommendation X.25. It was written by Howard Goldstein, N2WX with protocol specification support from Gordon Beattie, N2DSY and Thomas Moulton, W2VY.

The Open System Interconnection model is a blueprint for systems not bound to the design methodologies or marketing objectives of private companies like IBM or DEC, or of governmental agencies such as the U.S. Dept of Defense. Instead these protocols have been developed and agreed upon by telecommunications carriers and users groups. This blueprint defines the various aspects of communications in terms of a seven level stack. This switch provides all required network services needed to inter-connect remote users as defined in CCITT X.213. Connection establishment, data transfer and connection clearing functions are supported. Proper

packet sequencing and remote user status are provided to the COSI-Switch user.

COSI-Switch software allows users to connect through the Amateur Packet Network transparently to a correspondent station without the worry (and bother !) of setting up connections on a step-by-step basis. All a user need do is connect to his local switch and then "call" his correspondent station at the station's home node.

It's just like dialing a telephone and just as simple !

"C N4XXX @ 404010" will get you a connection to a remote user.

Naturally, network connectivity will be a limiting factor, but that is rapidly changing.

#### Highlights

- True Implicit Addressing
- Network Determined Routing
- Abbreviated Addressing
- Hop-by Hop Acknowledgments between Switches
- Faster Response Time
- FCC acceptable AX.25 Level 2 SOURCE and DESTINATION Address fields preserved
- Easily Extensible Networking Plan
- Support for AX.25 Level 2 Users
- Support for X.25 Level 3 Users
- Enhanced Digipeater Support
- Simple Command Interface
- Identical Local and Remote Switch Commands

- Calling "CQ"
- Online Help
- Online Information
- Remote and Local USER List
- Remote and Local NODE List
- Security System for Remote Control

#### System Overview

Written in the C language by Howie Goldstein, N2WX, COSI-Switch is based on the popular AX.25 Link protocol, and the CCITT X.25 Packet protocol. The use of the C language will allow rapid "porting" of the software to other hardware.

It is available to Amateurs FREE OF CHARGE for non-commercial use.

The initial software release will be targeted for the TNC-2s (and clones) and the PAC-COMM DR-200. Other machines will be supported in future releases.

A simple 27256 EPROM contains all the required software. This software is configured using an asynchronous terminal on the TNC-2 console port or the DR-200 Terminal

CENTRAL OKLAHOMA RADIO  
AMATEURS, INC.

The regular meeting of CORA was called to order at 7:30 p.m. on April 28, 1987 by President Jim Buswell, N5BEQ. Directors present were:

ACARC---Charlie Greene,  
WA5JGU; Tom Mangham,  
K5LDI.  
VHF-----Ellard Foster, W5KE;  
Bob Ashby, W5HXL.  
MORI----Sue St. Laurant,  
KF5LG; Bill Edwards,  
NW5M; Tim Rauscher,  
KA5NUG.  
WHEAT---George Maschino,  
STRAW K5GGL.  
EARS----Frank Tassone,  
KA5WGS; Lee Vaughn,  
KA5WIS; John  
Thomason, WB5SYT.  
Scars---Marshall Maddox,  
WU5P; Gary Skaggs,  
WB5ULK; Don Schader,  
KB5ABS.  
OUARC---Dave Medders, K5PL.  
EARC----Lee Ward, N5HIR; Phil  
Wolfenbarger, N5HIP.  
Ex-Officio--Don Saunders,  
WD5ISS.  
C & E Managing Editor--Joe  
Harding, WA5ZNF.

Guests present were  
Chuck Wilhite, K5NK; Nora  
Ward, N5KDX; D.C. MacDonald,  
K2GKK; and Gary Norris,  
KA5BQS.

In the absence of  
objection the President  
approved the minutes of the  
March 24, 1987 meeting as  
distributed.

Sue, KF5LG, reported she  
has asked member clubs for  
payment of dues through the  
end of May in order to make  
the new treasurer's job  
easier. Dave, K5PL, said he  
has talked to Mark Kleine,  
N5HZR, who has agreed to take  
over as treasure, should he  
be elected. Motion be Dave,  
second by Gary, WB5ULK, to  
elect a new treasure to take  
office immediately. Motion  
carried. Dave then nominated  
Mark. Motion be Bob, W5HXL,  
second by Marshall, WU5P,  
that nominations cease and  
Mark be elected by  
acclamation.

Sue said she would get  
cashiers checks from the bank  
and Mark could put the funds  
in the bank of his choice.  
Dave said that he felt the  
money should be left where it  
is and let Mark make the  
decision concerning whether  
to change banks.

Discussion followed con-  
cerning the form and whether  
the Grand Prize and Pre-  
Registration Prize should be  
included in the form.

Bob, W5HXL, reported  
that publicity letters have  
been sent to World Radio, CQ,  
Ham Radio, ARRL, and 73  
Magazines.

The President asked for  
a volunteer to contact the  
Dealers & Prizes Committee to  
get information regarding the  
Grand Prize and Pre-Registra-  
tion Prize and relay the  
information to Joe. Dave  
made the suggestion that the  
Board get the information  
immediately, and Frank,  
KA5WGS, as Vice-President,  
was appointed to call Buddy,  
KE5LD, to find out what  
progress has been made by  
that committee. A poll of  
the Board members present  
revealed that it is the wish  
of the Board to set a maximum  
of \$1500.00 to be spent on  
these two prizes. Frank when  
called Buddy and learned that  
he and George, AD1S, have not  
made the final decision on  
the prizes; Buddy also told  
Frank that only one dealer  
has been confirmed as yet,  
but he seemed confident that  
all was going well.

The Board decided to  
try meeting at 6:30 p.m. and  
confine the meeting to two  
hours rather than try to find  
a new meeting place.

Dave made a motion to  
appropriate funds from the  
Dealer Budget for telephone  
calls to dealers. Following  
discussion on the necessity  
of such an appropriation, the  
motion was withdrawn.

Mac, K2GKK, said he has  
talked to a representative  
from Texas Towers, who told  
him that due to a previous  
commitment they will be  
unable to participate in HH  
1987.

Dave reported the  
Facilities Committee needs to  
hear from QCWA as soon as  
possible in order to firm up  
scheduling of a room for the  
breakfast. He also reported  
that Security is being taken  
care of within the budget.  
Phil, N5HIP, has contacted  
two persons who will be  
handling evening security;  
the EARS Explorer Post is  
going to handle door  
security, the simplex infor-  
mation frequency, and first  
aid.

Gary, WB5ULK, reported  
that scheduling for Programs  
is going well. He and John,  
WB5SYT, are working together  
with the committee for Non-  
Technical Programs to provide  
an interesting slate of  
events for all three days.  
They are also trying to cut  
down on overlapping and  
concurrent programs by having  
basic-level areas covered in  
on-going demonstrations. Non-  
Technical Programs are  
approximately 60% completed;  
the other 40% is falling into  
place.

George, K5GGL, reported  
the Pre-Registration  
Committee has not received  
the form needed in order to  
finalize the ticket printing.  
Don, KA5ABS, said that will  
be ready as soon as the  
necessary information  
concerning the breakfast is  
received from QCWA. By  
general consensus the Board  
agreed to contact the  
representative of QCWA and  
give them a time limit of May  
8; if information is not  
available by that date, the  
tickets will go to the press  
without it.

George then said he felt  
the committees should be  
required to make written  
presentations to the Board,  
especially on rules changes  
(i.e. shipping major prizes),  
so the Board can make  
approval before publication.

Lee, KA5WIS, reported  
that Registration is wrapped  
up and ready to go.

Dave made a motion to  
change the rules in order to  
ship the major prizes to the  
winners. Motion died for  
lack of second.

Bob requested that the  
Board members ask their  
respective clubs to submit  
material to the C & E.

The President asked the  
Board to give thought to  
setting up a permanent  
steering committee for the  
convention, and let this  
Board be a governing body to  
make the overall rules and  
regulations.

On motion by Charlie,  
WA5JGU, second by Lee, N5HIR,  
meeting adjourned at 9:30  
p.m.

Submitted by:

Lee Ward, N5HIR  
Secretary

# Salem

## DAYTON EXPEDITIONARY FORCE STRIKES AGAIN-- HAMVENTION A HIT!!!!

When we last left our intrepid explorers, they were planning a covert operation in Dayton under special orders from the President (you know who I am talking about, , , uh, well, Big Ron, but shush, he won't tell how much he doesn't know). The operation is specially directed toward overthrowing the dreaded Hamdanistas who have taken over the Dayton Hamvention (Nicaragua North). It has been the special policy of the president to support the Kantras, the special freedom loving fighting force seeking the liberation of . . . . .

Ah carumba. If April Showers brings May Flowers, wrong. April Showers bring the Dayton Hamvention. And that is exactly what happened the first day of the flea market in the largest radio convention in the world, set, as always, the last week of April. I have never really understood why the Dayton Hamvention is such a hit, coming so soon, it seems, after April 15th. But, come to think of it, that may explain why it is such a hit. Everybody brings the booty to the flea market to sell so they can pay off the bank loan they made to pay last years tax bill. Or, if they don't qualify for the bank loan, at least sell the stuff in time to catch the float at the bank.

If you have never witnessed the sight of 25 to 30 ,000 hams wandering around a flea market that covers numerous acres, well, pard, you have just never been to a flea market. Anything that might be conceived by the mind of hams for sale or trade in the flea market is generally there. And the bargains don't always disappear the first day. I have found that some of the items hang around for a day or two and have even passed up a couple of bargains thinking that they

would probably go for more than a song (generally, the price I am willing to pay) only to have friends walk by later and bid half a song, and walk away with the prize. Sigh, you just don't win them all.

Planning for Dayton begins early. Generally, we start about a week after we get back. I am not really this much of a self starter, but I generally depend upon Tim WA5LTM, a master of calendars, to remind me of critical paths and deadlines in the intricate maneuvering required to plan a trip to Dayton during Hamvention Week. For example, I am not certain, but I think that here it is, less than a month after we got back from Dayton and if I recall our last discussion, Tim already has our room reservations already in hand for next year. You mean, I am certain that I am going next year? No, because nobody can be certain that they are going anywhere. However, I am certain that I will plan on going and generally arranging my schedule to go. It requires a tremendous amount of energy to keep secretaries from scheduling appointments or other activities unrelated to the Hamvention during the days surrounding the last saturday in April. The notice on the calendar for next year has already been posted and the days are XXXed out of the book.

In a month or two, the airlines will open up the booking for flights for next year. I don't usually monitor this since Tim will let me know. Then, I call the travel agent or airlines and make the reservation. Who do we fly with? Well, TWA has offered a very convenient flight for our needs the last several years and I must say that the gate attendant (Bill WA5FWD) is always great to see on the way up the ramp. Why Bill, I want to thank you for posting that sign welcoming the hamventeers to your gate.

I had an especially difficult time making the arrangements this year. A couple of monumental projects that were due out the day after I was to return meant that they would have to be completed before leaving on Thursday. This necessitated several quasi all night sessions at the office and many late night stays for about 3 to 4 weeks. It looked like it would be a tight fit

as the deadline approached. In fact, I did briefly slip into panic mode with the realization that perhaps things weren't going as well as I wanted. And in consideration of my preoccupation with the Hamvention, well, concentration also goes to Hell. It took three sessions to 5 in the morning and a final all nighter, but I got the draft out and left it for the secretary to complete. I blinked bleary eyed from about 8 a.m. on Thursday until 10 O'Clock while the 60 pages or so printed (A Juki 6300 is a great printer, but it is slow, slow, slow. I bought a HP laserjet 2 the next week. Same work, . . . less than 10 minutes).

After leaving the work with the secretary to put together tables and indexes, I staggered out of the office and went home to a shower and a dash to OKC to meet for the trip over to the airport. Tim was ready and Chas KA5UPM was the first one at the collection point. At the airport, I saw Joe K5JB, Stan N5JFQ and Joe WA5FLT, the rest of the traveling party. Roger WA5JXX had already departed on an American flight about two hours earlier.

Bill WA5FWD took a break from his work at the gate long enough to pose for a picture next to the sign that he had posted. He has threatened to go with us sometime, but no luck so far. We were hoping for another stewardess strike this year, but unfortunately Carl Icahn has been behaving himself (well, can't really be too sure about that). The last we flew on TWA during a strike, it was open season on the flight as far as the drinks were concerned. The stewardess who was there (a supervisor, I guess) opened her heart (and the liquor locker) to us all. I collected several little bottles to bring back to friends and relatives. Chas KA5UPM also claimed several little bottles as souvenirs, however, he drained the contents before putting them in his pocket. As we were taxiing up to the gate at St. Louis, he starts toward the front. The plane parks and he lurched toward the door and threw open the latch. Luckily, the stewardess had already put away the stow bar that pulls out the emergency slide. I really didn't understand why he was in a big argument with

the gate attendant. I thought it had something to do with the number of little bottles he had carried off the plane. Since the convention bag I was carrying sounded like a wind chime factory, I hustled past the argument and up the jetway to freedom. I later found out that Chas almost gave us all an experience to remember if the emergency slide had popped out.

Filling the layover time at the St. Louis airport required finding an ice cream stand and a multi-flavored waffle cone. Then a quick stop in the We Gouge tourist shop (I always buy a couple of postcards in every place to mail back home). Finally, a coke or drink in a lounge with some of the other cohorts and the final mad dash to make the connecting flight. Whatatrip!!

Upon arrival at the Dayton airport, our luck had changed from the last several years. Ground transportation has already been a problem. A couple of years ago, we went to a rule of no more than 5 people to a car. (4 for subcompacts). This prevents the recurrence of the time that Avis foisted off a rather large expensive Cadillac (but old). We thought it would hold 7. Wrong. Should have gone back and got another a car. No more. The last couple of years I have reserved a Lincoln Town car for 5. But they are always gone when we get there. This year, we hit a jackpot. Not only a Towncar, but it was OU Red!! Must have been one of Barry's hand me downs sold into indentured servitude to Hertz. Towncars are not only pretty, but practical. We had five this time and they are roomy. In addition, the trunk is huge, as it should be for a touring car. When you have had a good day in the flea market, you don't want to spend the rest of the evening packing the car. Besides, a Lincoln is just like a Gucci toilet, you are going in style.

The reservations for the motel were in Fairborn, a change from our usual accommodations at one of the Ramadas close to the side or downtown. This actually turned out to be a blessing. The

Fairborn Holiday Inn is only about 10 miles further east of the usual location on Little York Road. The countryside is excessively pretty and nice to look at. The motel had a very nice restaurant and breakfast buffet where you could get some grub quickly. Also Jim Farley, brother of Keith Farley, an old friend from Dayton, was playing in the lounge with his band, The Main Event. This meant that an hour down in the lounge was a pleasant and soothing experience and nobody had to drive after imbibing. I even chose a small spirited drink for medicinal purposes only. Unfortunately, Wanda, our waitress, chose to accidentally spill a pitcher of beer at the table and took a pair of my jeans out of the rotation for wearing during the day.

Ordinarily, we find Keith WA8ZWJ, Hoss WA5ZAI, Bob NØBIX, Crazy Box W8JUK and a whole host of our Dayton friends, for dinner on Thursday night. We arrived later this year than normal and airline schedules being what they are, Joe K5JB has advised the gang to not wait for us. We got there on time, but it was getting late, so we ate at a german restaurant nearby at Jim's suggestion. It was the first of several meals that added about 5 pounds to the weight I had to lug around the flea market. It took a week or two to get rid of it when I got back.

Friday morning was slow starting. The inevitable expectation of rain put a damper on the festivities. By the time we stopped and picked up a couple of umbrellas and a bag, it was getting close to the time the rope was to drop. The flea market opened and the rains came at the same time. No difference to me, I worked the flea market. That is why it was there. Unfortunately, most of the people who were there didn't want to get wet in anticipation that I would be getting by there booth. It didn't take long, only a couple of hours. I went inside and fed my claustrophobia in the crowd. In order to get some relief, I parked near a vendor and negotiated a deal for a new micro 2AT. I have been threatening to buy one of these for sometime and I couldn't see waiting. The deal was less than \$300.00

even with tax and some accessories. Unfortunately, it did not work on transmit when we got back to the room. I suspected that the VCO was out of adjustment the way it was falling out of lock. But, rather than open it up, I took it back the next day and exchanged it for another one. It worked find and has been no trouble.

Now that I have had an opportunity to carry the u2at around, I have some very definite view. I am even more impressed with it and its size and features. The current saving feature is outstanding. I bought a big battery, the 600 mil job, but I am not sure that I needed it. I used to have to charge my IC2AT every day since I would leave it on all day. The u2AT has a current saving feature that shuts down the receiver and only draws an average of 8 mils. Since the 88 repeater in Norman is a fairly low usage and quiet machine, I can monitor all day long and never worry about battery for two days or more. It is great.

Friday night is the regular Gathering of the Faithful. This is the physical in person meeting of a group of 4Ø meter Sunday morning malcontents. Last year, I was relatively faithful in making the on the air checkin and then leaving. This year, I have not done so well. I think that my attendance went in a handbasket. In any case, the gathering was at Crazy Bob's (W8JUK) house. Now I know what physical phenomenon explains Bob's weak signal in Oklahoma. His antenna might not only be 20 to 30 feet high. Bob explains the short tower by saying that he has moved about 4 times since he first moved into the house (he got it back after moving around) and each time he moved, he would lose about 8 to 10 feet off his tower. I am not sure if anybody explained to Bob that they still make Rohn tower, but that is the reason that his signal has shrunk.

The Gathering was a great social occasion. After it broke up, we went back to the motel and down to the lounge to hear Jim.

We wanted an early start the next day, but it is just tough to get up and at it before 7:00 a.m. To me,

it is Christmas every day before 7:00 a.m. since not a creature is stirring. The plan was to get to the Hamvention site about 8:30 a.m. to 9:00. The rains were gone and except for some occasional sprinkles, the weather was very nice and that is the way that it remained over the weekend.

The flea market was in full operation on Saturday. I still see some things that I would like to have, but you can't always pay to get something you might never use, eventually not want and more probably than not pay too much for. But there is now getting to be a lot of new stuff that is floating. Late model motorola radios. Even HT-220 were commanding some respect (newfound). Same is true for the esoteric stuff. One fellow was selling satellite receivers for about \$50.00 or so depending upon their state. One company brought a bunch of solar cells that could generate 15 to 20 watts in brilliant sunlight. I finally bought a solar panel and about 10 sets of solar power key chains. They play a melody when out in the sun. All the key chains work. Unfortunately, they all play the same tune, Happy Birthday. What's wrong with Boomer Sooner?

The flea market is always a jungle. Nobody is offended if you shown no respect for their posted price and offer something lower. Well, not always. But it generally depends on where you start. If the Muppets invented Fraggles Rock, then the flea market is a version of Haggle Rock. There are a lot of commercial vendors in the flea market, mainly smaller radio dealers who bring truck loads of new equipment for sale. They get by by selling under deep discount. Strangely enough, they are not always the cheapest.

The flea market is buyer beware. I have heard a lot of promises from people that just absolutely are not true. And there are people who will cheat you for the smallest item, a sad commentary on our brother amateurs. I think this is the exception rather than the rule. I only got popped once this time. I bought a tiny compass for the car. It looked good, but unfortunately, was off quite a bit. I

looked at it, but couldn't really judge and the guy said that it was a great compass. Of course, what should I expect for \$3.50.

Some of the new equipment was pretty novel. I would have to give first prize to Kenwood. They introduced a new device called an Illustphone, Model IP-100. This device plus into your two meter or 450 radio. There is a keyboard area that consists of a flat surface that you can roll paper across. If you draw a picture on the surface, then press a button, the illustphone digitizes the graphic information and transmits it as a packet over the normal voice channel. Any person who has an IP-100 on the other side will view a picture that is exactly identical to what was drawn on the original machine. There is a tiny printer that appears to be a dot matrix printer that reproduces the drawing. I think that this is very neat and the first of what is expected to be a growing technology. This is not quite facsimile, but it does produce a fairly good good image of the original written picture. The example I saw was just a line drawing and had no contrasting images, so I couldn't judge if the device is capable of weighing pressure in the line drawing, but it would be useful in sending a hand sketch or diagram over the air. Kenwood said that they are already marketing this device in Japan, but had a prototype for sale here in the U.S. You can also direct a picture to only one station by use of a three digit code wheel that selects a digital code for the picture transmission. If several people were set to the same code, each would receive the same picture. The packet data is a fairly short burst. I suppose this may depend upon the complexity of the sketch. But it is fairly short in comparison to facsimile which leads me to believe that no data regarding contrast is transmitted. But I may not be correct about that. Facsimile scans an entire page. This device apparently encodes the transmitted illustration in an X-Y fashion since the printer is really an X-Y plotter. This means that the image that you draw is converted to a digital stream as you draw it and then transmitted when you complete it. If you send additional information by changing the drawing during the

QSO, but before you transmit it, it will automatically update the additions before transmitting. The IP-100 is small, the footprint on the desk is about 6 by 9 inches. I have to admit that it is very cute.

Several months ago, I wrote about the new Icom aircraft radio, the IC-A2. Well, good ol' Icom has done it again. I just bought this radio about two months ago and Icom announced a new aircraft model at Dayton that includes several additional features of memory of frequency, but also receives the VOR beacons. The new model is called the IC-A20. Type acceptance has not been granted by this country yet and the one they had at Dayton was the only one in the country (they said). This makes the radio a complete NavCom, but I have found that unless you use an outside antenna, reception in the airplane is generally not very good.

All the big equipment manufacturers were showing 220 Mhz equipment for the new novices. This included radios, antennas, etc. I didn't see any special equipment for HF.

Saturday night, the Gathering of the Faithful moved to the restaurant at the Fairborn Holiday Inn. We had about 30 and reserved one of the dining rooms. The Shrimp and Roast Beef was excellent and the buffet covered 3 tables. Yumm.

Our flight back was not eventful, if you consider a small riot in the lounge area uneventful. No plane showed up and the flight was considered delayed. They flew another plane from St. Louis, but it did not arrive in time to get us to St. Louis for our connecting flight. The delay also made the only other flight available into Oklahoma City was another TWA flight later that night, but it was almost full. Since they bumped us off the confirmed reservation into OKC, they would not confirm us on the flight to OKC, but only issued standby. Three people, including Tim, did not get on the flight. We had a list ready to go to Elizabeth Dole. I put Tim in charge of gathering complaints as well as his normal pre1988 Dayton planning activities. Onward! Good Show Tim!!

Micheal Salem N5MS

## MORE EARS

make the climb to check things out for us. Just in case the antenna was bad arrangements were made to have a new one on hand; special thanks to Leon, WB5EDN, for the antenna. We also needed lots of rope. Dennis, WB5ISN, took care of that problem by calling some nice friends of his and borrowing some rope (lots of rope).

Saturday morning....

The perfect morning, calm with no wind. We all gathered at the tower site with all the required items. Ten of us on the ground crew watched Wendal climb pulling the rope up behind him. Once at the top the Bird meter was used to measure the forward and reflected power (25/1.7). 25 watts for 60 watts through 450 feet of 1/2" LDF wasn't bad (about .84 db/100 ft.) so we assumed that the feedline must be good. No broken elements were observed on the DB-224. We still figured that there must be a problem in view of the fact that the feedline was good and the fluctuating signal out. The decision was made to change the antenna.

The ground crew went to work assembling the new antenna while Wendal removed the old antenna and tied it off to the tower. The new antenna was checked on the ground then tied to the rope and pulled up. I want you to know that the new antenna was a bear for two men to handle on the ground when standing it up. The mast must have been about two inches and was 22 feet long. Wendal managed the antenna all by himself at 400 feet, quite a task from the top of a tower.

The wattmeter was again hooked up and the results were 26 forward and .25 reflected. Looked good! The meter was removed and Wendal tied the old DB-224 to the rope so it could be lowered to the ground while he sealed up the connections.

Once the DB-224 was on the ground it was due an inspection. The bottom two elements were loose on the mast (our noise problem) the N-type connector that joined the two halves of the mast and

phasing harness together had moisture in it as well as had taken a nasty arc. Leon pointed out the indications where lightning had not only hit our mast but the top element as well; looked like someone with an arc welder had dragged a rod across the mast and element.

The new antenna an Antenna Specialist Co. model ASPB602 is a four pole folded dipole antenna with 6 db gain omni or 9 db directional. We arranged ours omni. What's the difference between it and the DB-224? AS has four different versions for the different portions of the VHF band with one actually cut for us folks in the amateur band. That's why the reflected power was so low. The elements are 3/4" verse our DB-224's 1/2" elements, less likely to crack. The elements are heli-arc'd to a substantial mast clamp that has two clamps to the mast rather than one. DB uses rivets rather than welding. The AS has a sealed phasing harness connection to the elements rather than the open connection used on the DB antenna. The mast is also larger than the DB's 1 1/2 in.

While we have been rambling on about the virtues of the new antenna we left Wendal on the tower.

The discovery.....

While on the way down the tower Wendal discovered a hole in the outer jacket of our feedline at 270 feet. Leon just happened to have his TDR, time domain reflectometer, with him so he hooked it up to make sure it was our cable. It was. It was decided that since it had been hot and dry for so long that any moisture in the cable had since evaporated. The connector was removed at the ground and no water was detected. The plastic jacket was peeled back and the cable sealed with sealant type tape. Since the power at the antenna is in spec and the reflected power at the ground nil the cable is ok but will require watching.

Wendal made it back to the ground and we started putting things up so we could all go eat lunch. Dee, WD5FHR, had camera on hand and took some nice photos. Other ground

crew people not previously mentioned: Harold, WA5ZKX; Tommie, KA5WAV; Lee, KA5WIS; Brad, KB5CDE; Wes, KB5BKX; Mike, KB5BIX; Robert, N5IJX. Everybody was a great help and I hope I didn't fail to mention anyone.

If you're interested in more details about the AS antenna then you should contact Leon, WB5EDN, he'll fix you up. EARS made a good move purchasing the new antenna.

The old antenna will be repaired and used for the Guthrie remote receiver. What's the hold up on the Guthrie receiver? We still need some of the pledges not received on the repeater fund.

I almost forgot to mention that most recently we added battery power to the repeater. We have a large marine deep cycle battery. A plastic case was purchased along with the battery. Next step is to wire the power fail to cause a unique courtesy tone and short hang tail.....

A special thanks to Harold, WA5ZKX, for the excellent training program he has put together to train members on the use of the repeater functions.

A special thanks to Brad, KB5CDE, for the plastic cards with the embossed emergency numbers and access codes.

Help H E L P.... RFI Comm. We need a chairperson for the proposed RFI committee. Please help if you can....

Going out of town? Why advertise on the repeater? never know what crook figured out how to use that stolen scanner. Give it some thought.

73 N5BUJ, <sup>Bob</sup> Bob McCoy, 348-2032

IN CASE YOU DIDN'T KNOW !!

This is field day month. with Ham Com a thing of the past, all we have is field day right?? Well not quite all, but more on that later. Field day will be held at Lake Arcadia this year. We will set up at the Spring Creek camping area. Which is near the 15th street entrance on the west side of the lake. We will have

CONTINUED NEXT PAGE

## MORE EARS

the use of the pavilion, that is located on a point high above the lake. The pavilion is large and will provide shade and protection from the elements. Field day this year will be another first for EARS!! As we will be the first to be allowed to use the lake.

As we strive to make this field day bigger and better and do it right this year lets not forget that there wasn't anything wrong with last years field day or any other field day as far as that goes! The trick of the whole thing is to give it your best and relaxxxx everythingggg willlll turnnn outtt okkkk. Most of all lets learn from our past and build on it for our future.

As this article is being written we are getting everthing put together for field day which will take place on Saturday June 27th at 12:00 local time till 3:00pm Sunday.

So now on to other thing that were to be covered later. How about the dinner meeting for this month? Our dinner meeting will be held this month at 2800 West Waterloo rd. at 6:30 P.M. the 19th of June. This will be a picnic dinner. Plans are being worked out for the menu.

The location is courtesy of Bob Elsworth K5BIN, has a huge area that is just begging to be used for a picnic. Its a perfect place it has plenty of trees for shade and open area for any activity you can think of. Bob's house is very easy to find, it is located between Santa Fe and Western on the south side of Waterloo rd. The only rock mail box on the south side of the rd (the only mail box on the south side of the road.)

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One more item for you to think about. The 4th of July will be here before long. And EARS has been asked to help out again this year. With the 4 of July festivitys, Mainly the parade and the fire works display. We have been asked to help in the stageing area, the spacing of the entrys, and to provide communications along the parade route. You will be up dated of on the progress of this through out the month on the information nets as more information becomes available.

73 Lee, KA5WIS

EARS answers SCARS challenge! The game was scoreless for two innings when Scott Cline (son of Shelby KASYPE, knocked in Dennis KASYUH for the first run of the game. SCARS failed to score in the bottom of the third. In the fourth EARS scored two runs on a solo home run by Mike K5BIX and then Scott got his second RBI (runs batted in) when he knocked Rick (Nora's boy friend). SCARS failed to score again in the bottom of the fourth. In the fifth EARS scored 2 more runs. SCARS scored their first run in the bottom of the fifth. After five innings the score was 6-1 in EARS favor. In the sixth inning EARS failed to score but SCARS scored on a solo home run by Gary Skags W5SULK, In the seventh EARS failed to score, but SCARS mounted the only offense of the day after getting two quick outs, SCARS loaded the bases and then Marshall W5SP Knocked in 3 runs on a double, which made the 6-5 score in EARS's favor. But that's all the damage SCARS could for the next batter grounded out to the pitcher to end the game

We wish to thank everybody for showing up and participating in their efforts to make this such a success for both sides. And we would like to thank Nora N5KDX for coordinating the pincic. And SCARS for a good game. So till next time next year remember....WE TAKE NO PRISONERS!!!!

This story begins back in Feb. when Marshall W5SP, Mark N5HZR, and Dave K5PL challenged Phil N5HIP and EARS to a friendly softball game. The game was finally played on May 2nd at a neutral feild in

Moore, a little far south for us northerners.

73 Mike W5BIX & Wes W5BKX

P.S. I heard that the hot dogs were very good. As a matter of fact they were so good that they were eaten for many meals afterwards. Nora do you have the key turned on???

### FROM SPECIAL PROJECTS:

As everyone is aware of; summer time is coming. Vacations ,boating, baseball and all sorts of summer events. Just as sure as sunburns are part of the fun, injuries are unfortunately as much a part of it. After talking to the Oklahoma Blood Institute they are in great need of blood. It seems that every year just as the injuries increase because of summer activites a drop in donors for the very same reason occurs.

Last January we as a club voted to start a blood bank for the use of our club members who might not be able to donate the required amount in event of personal or family emergency. As of last count we have a total of 7(seven) units in our account. I know that last time there was very little advanced notice of the place and time but now we can give you several weeks notice. SATURDAY JUNE 13, 1987 any time from 10:00am to 2:00pm at the Oklahoma Blood Institute on Memorial just west of Kelly on the south side of the road in the business park just west across the railroad tracks.

One other item to note the blood bank mentioned was that even teenagers can help by donating, so all you teenagers who like the idea of being able to help out bring your parents and get them stuck too.

Another point of intrest is that you can donate blood at several locations through the greater Oklahoma City area. the other locations are.

1001 N Lincoln  
1137 A Sw 59th  
5107 N Portland  
1044 S Douglas Blvd ( MWC)  
Tell them you are from EARS and they will do the rest.

73 Tommie Guinn, KA5WAV

Adapter. Configuration is performed through a series of prompts.

COSI-Switch takes the user and routes him to his destination without the worry of how the network is routing his connection. The switch has a number of commands which will aid the user in determining the status of remote users and nodes. Of particular interest are the NODes, RXlist, and CQ commands.

#### Availability

The Radio Amateur Telecommunications Society is distributing the COSI-Switch X.25 Level 3 switch software to the Amateur community via NJIT EIES (DRNET), Compuserve HamNet, the Amateur Packet Network and the U.S. Mail.

The distribution of software will begin in early May. Look for the announcement message. (I have not seen the announcement yet. JB)

We may be contacted on Compuserve HamNet by sending an inquiry to: Dave, KD6TH 70545,1271; via EIES DRNET by sending a message to N2DSY; and via Amateur Packet Radio by sending a message to: N2DSY @ KD6TH/03100201

Online downloading of the EPROM image or hex file is available to those who have the capability to "burn" EPROMs. If required, a package of documentation and an EPROM is available from RATS by mail. This mail service costs \$15.00 to cover the expense materials and postage.

YOUR BEST BET IS TO DOWNLOAD IT FOR FREE !

#### Command Overview

The system allows packet network users to connect to stations local or remote, and execute a variety of functions. Commands have a basic syntax of:

COMMAND + PARAMETER + NODE NUMBER

Some commands may be absent from the initial release.

The commands are outlined below.

#### C

This service allows a user to connect to another station through a switch. If the called user is not already connected, a link connection will be attempted. When a connection is made between the REMOTE NODE and the REMOTE USER, the REMOTE NODE sends a message to the REMOTE USER indicating the callsign of the CALLER. This message follows the format used by WORLI-style gateways and

looks like: "\*\*\*\* LINKED to N2XXX @ 03100 xxx xxx.xx"

This transmits the calling callsign while preserving the AX.25 Level 2 Source Address field. The format "c (callsign)" should be used for local connections via the switch.

If the desired station is known to exist on a remote switch then the user may type: "c (callsign) @ NODE NUMBER".

#### RX list

This switch service provides users with a list of stations heard. This is a useful tool when probing for a remote station. An indication of time last heard and the frequency is also included. The format is: "RX" or "RX @ NODE NUMBER".

#### Nodes

This function provides the user with a list of switches directly linked to this switch. This feature allows a user to "probe" the network for valid destination nodes. The format is: "NO" or "NO @ NODE NUMBER".

#### Switch

This gives the status of the switch and some statistical information. The format is: "SW" or "SW @ NODE NUMBER".

#### Help

This command gives a list of commands and brief descriptions. The format is: "HE" or "HE @ NODE NUMBER".

#### Info

This service provides information about the node and the frequencies supported by the switch. This feature is useful when trying to determine the access channels used by the switch. The format is: "IN" or "IN @ NODE NUMBER".

#### CQ

This popular function allows users to connect to a switch and then "call CQ". When this function is selected the switch transmits a frame which has the switch callsign in the source field, the "CQ" in the destination field, and the text received is: "\*\*\*\* CQ from (callsign of use) @ 03100 xxx xxx.xx"

A potential correspondent station connects to the switch sending the CQ and then uses the "C" command to contact the caller. The format is: "CQ" or "CQ @ NODE NUMBER" It should be noted that the "03100" is not a field that the user must enter. It

is automatically inserted by the switch. The NODE NUMBER may be entered as "@ xxxxxx.xx" where the first three digits indicate the Area Code (in North America), the second three digits are the switch identifier, and the last two digits are the port or frequency.

NOTE: Port addressing will not be of major concern until multi-port switches are in place.

#### Remote Switch Support

All functions that are available on the local switch are available to remote users. After connection to a local switch, a remote switch may be queried by adding a NODE NUMBER to the command. Lists of remote switches will be available on most BBSs or can be gathered through the use of the NODes command.

#### Routing

The network uses the CCITT X.121 country codes as the basis for its numbering plan. The convention for North American use of the switch is to follow the North American Numbering Plan used in the telephone network. This plan is also used by most Public Data Network services provided by AT&T, GTE, and the Bell Operating Companies.

The switch allows users to enter a short form NODE NUMBERS consisting of six digits. For example, if someone wishes to connect to the KD6TH BBS here in New Jersey, they would type: "C KD6TH-1 @ 201010".

In order to simplify the allocation of NODE NUMBERS it is suggested that primary nodes use the numbers that are multiples of 10 (010, 020, etc). Tributary switches should use number such as 011-019, 021-029, etc.

All switch NODE NUMBERS will start with "0".

These guidelines allow for dynamic growth of the network without the need for "number gurus". Simple coordination with your neighbor nodes is all that is required. The addition of a new switch can be easily done by initially bringing it up as a tributary switch off of an existing system. An appropriate number can be determined by using the NODes command to determine which addresses are already in use.

#### Port Routing

The switch may have one or more "user ports". If there is only one user port, then the switch will automatically route the outbound Level 2 connection request via that port. If however there is more than

one port, then the switch will examine the "RX" list in an attempt to find the correct port. If this fails, then the switch will sequentially attempt a Level 2 connection request to each of the ports. This is attempted three times on each port before failure is reported back to the caller.

Specific ports may be addressed if the user wishes to direct a call to a particular user/lan. This is done by appending a ".xx" to the network address. If selection of a specific port is desired on the local switch, then the user need only to put the Modename and Channel Indicator of the local switch into the connection request.

#### Digipeater Support

Digipeating is also supported, but is not required. On the single port units the switch digipeater function is assigned a separate callsign. On the Dual ported DR-200 the digipeater function may be assigned two different callsigns. The first is for same-channel digipeating, and the second is for cross-channel digipeating. If left unconfigured, then the function is disabled. In most situations the callsign used for digipeating will be the station callsign with a different SSID.

The switch is usually configured with an SSID of "-3". This is done to flag the X.25 Level 3 support capability to users.

The local digipeating function is usually set with an SSID of "-2". This indicates "level 2 digipeater functionality".

Cross-channel digipeating is also supported, but we strongly discourage its use. There are very few good reasons for perpetuating the end-to-end ack digipeater environment when proper switching arrangements are available. However, recognizing that some folks see this as a required feature we have used the SSID of "-7" for cross-channel operation.

There you have it. Complete text of this announcement is on the K5JB PBBS on 146.415.

Address of The Radio Amateur Telecommunications Society, the sponsor of COSI-Switch is:

206 North Vivyan Street  
Bergenfield, New Jersey 07621  
Telephone: 201-387-8896

#### The Difference

So what is the difference between Net.Rom and Cosi-Switch? Are they

compatible? I will let an expert explain it. Dr. Tom Clark, W3IWI, in response to that question left the following notes on Compuserve's HamNet:

#: 56165 S9/Packet Radio  
06-May-87 23:58:30  
Sb: #56131-#New Packet Switch  
Fm: Tom Clark W3IWI 71260,3640  
To: Eric Rosenberg WA6YBT 73307,110  
(X)

Regarding the compatibility of NET/ROM and COSI (and presumably Texnet), they cannot be made into a single network since the protocols are all different; NET/ROM and Texnet (and also TCP/IP) are datagram oriented, while Howie's code is a X.75/X.121 virtual connection switch. However all is not lost -- a node at one end of a chain of one type can gateway into a chain of the other type. I demonstrated this in action at Trenton when WB2KMY/portable on 220.01 went thru the W3IWI-10/-5 dual-port NET/ROM mobile system onto 145.07. He then connected into the RATS/N2WK KA2VLP-3 COSI switch, which was then used to make a connection to the KB1BD BBS. No conventional AX.25 digipeaters were used even though three intermediate hops were required. The only glitch that occurred was that KB1BD did not recognize the "\*\*\* LINKED TO WB2KMY" message and thought it was connected to KA2VLP, but that is a problem due to WA7MBL dropping support for the Gateway mode in the 3.12 BBS, and not a problem with either switch. By the way that problem does not occur with NET/ROM since the final NET/ROM node establishes the far-end connection using the original user's call (but with SSID equal to 15 minus the original SSID) rather than the call of the switch.

On NET/ROM, here is an anecdote that may be of interest. Tonight I had an hour-long phone call from the president of a commercial firm that sells TEMPESTized TNC1's and TNC2's to governmental users (there was a report on this activity at the last TAPR meeting indicating that Air Force One has some TNC2-based communications channels on board!). They were most intrigued in the NET/ROM technology and wanted a testimonial on how well it worked. When I told him of the Ku-band satellite "wormhole" between here and San Francisco running NET/ROM you could see (hear?) his eyes light up! Let's face it -- we are doing some VERY creative things that have tremendous potential outside the amateur ranks. 73, Tom

#: 56198 S9/Packet Radio  
07-May-87 23:31:43  
Sb: #56179-#New Packet Switch  
Fm: Tom Clark W3IWI 71260,3640

To: Rolfe Tessem W3VH 70220,214 (X)

Hi Rolfe -- where are you living now? To answer your question, ALL the high level protocols use legal AX.25 frames. They can, in principle, be monitored on your normal TNC. For the datagram protocols (TCP/IP, NET/ROM and presumably Texnet), some additional bytes are appended to the user's data and sent as <UI> frames called datagrams. The bytes appended are for computer use, so they are not human readable. If you are monitoring and leave your terminal's bell on, it may go ding-dong. If your terminal can clear its screen with a short string, you screen may flash on and off a lot. But the same is true of watching ANY binary data transfer! For the user NET/ROM, COSI and Texnet should look similar. The user connects to his nearest node and asks the network to get him connected to a user at some distant node. With COSI you can send "UNPROTO" <UI> frames at the far end to call CQ; with NET/ROM you can't call CQ -- you have to know who to connect to at the other end. The way that the protocols really differ is in how they establish and maintain routing info for the network.

I think this will be the telling difference between the schemes. If a 300 by 300 mile grid were filled with nodes every 30 miles (i.e. 121 nodes), and the nodes were typical amateur hardware (90% reliability) with QRM/QRN problems at some of them, with tropo conditions causing temporary long-haul paths to be set up, etc. (in short, the real world), then how well can these protocols adapt to the changing amorphous network? Can a user at one corner of my hypothetical square net establish a reliable path to the opposite corner (430 miles away) without having to know the state of health of all the 121 nodes? How well do they cope with hidden user problems? And with mountain-top "super nodes"? And with undisciplined users (the guys who persist to this day trying to make a QSO on 145.01 with a W3IWI "hog factor" of minus 54 dB!)? Will the paths that are set up have reasonable efficiency and not be stupid? In short, which scheme makes the most robust network happen? Time will tell. 73, Tom

True, only time will tell which network method will prevail and how they will interface. All it takes to try one of the schemes is for two or more folks to decide they want to try one and just do it! Net/Rom was the first widely available one on the scene but it is not trivially priced so the freebie nature of the COSI may engender more experimentation. We'll soon see. Joe, K5JB

KNOW WHAT? I have actually made two of the last three O.C.A.P.A. meetings. Very good meetings too, and if you didn't attend, you have been missing out on some interesting get-togethers. Unfortunately, I had to miss the April meeting and was cooling my heels in a motel in Muskogee, but that has been typical for me for the past couple of years.

KNOW WHAT? Since O.C.A.P.A. hasn't had a whole lot of input to the Collector and Emitter now for some time, and with the pushing and suggesting of some folks, I decided to take on the responsibility of seeing that we do have a blurb or two in now and then. How much and how often, I won't make any promises, but I'll do what I can.

KNOW WHAT? O.C.A.P.A. now has a very good comfortable meeting place. I am not sure who was actually responsible for us obtaining this location, but, whoever was is to be congratulated. With no intentions of making anyone mad or leaving anyone out, I will only say that thanks goes to Dolph, KB2AW. Dolph is the Service Unit Director for the local Divisional Headquarters of the Salvation Army here in Oklahoma City. I am relatively sure that Dolph had a lot to do with us being provided with the new meeting place, which is located at the Salvation Army Headquarters building, 5101 NORTH PENNSYLVANIA AVENUE. Even though the address is on Pennsylvania, access to the building is actually off of N.W. 50th Street. Those who are familiar with this part of town and the intersection of Pennsylvania and the Northwest Highway, will know that it's not too easy to get on 50th Street from Pennsylvania. However, if you will get on 50th say at Tulsa, and travel East, it is very easy to find the parking lot, located on the west side of the building. The meetings are held in the basement and all the needed facilities are provided, such as drinking fountains, johns and coke machine.

KNOW WHAT? Elections are coming up again. It sure seems these come more often than once a year. At any rate, new officers for the club will be elected at the August meeting. Your's truly and Jerry, W5UCH, have agreed to search out for good qualified individuals who will accept nominations for the various offices. We realize this is

a big chore, but if you would like to serve as an officer or know someone who would, please let us know. We have a few folks in mind, so don't be too surprised if you get a call.

KNOW WHAT? The Auto-Patch Club has really fallen down on its support of the CORA meetings. I have made one or two meetings this year along with Mac, K2GKK, neither of us being official delegates. We really need to have a voice in matters at these meetings, so hopefully, someone will volunteer for this duty.

KNOW WHAT? The Six Meter repeater is dead. Yes, we are still waiting on a solid state transmitter, but I don't think that is all that is wrong. Frank says one of these days it will be fixed.

KNOW WHAT? The "I HEARD" column is back. Not too big this time, but a few goodies. So, be on the alert, you might be heard saying something that comes out a little different than you thought. Just a reminder, it's all in fun with no intention of hurting anyone's feelings. It would help if some more of you guys and gals would make an appearance on the repeaters at the time I am listening so I wouldn't have to pick on the same ones all the time. Wouldn't you like to see your call in print? So, come on, get on and say something stupid so I can catch you.

KNOW WHAT? More bells and whistles are on the way. Yep, that's right. At the last club meeting, Old Don, N05M, expressed his desire to spend some of the club's money on some new additions to the 81-21 machine. About all I know about these are that they have a much larger vocabulary than what the present set-up has. So, in the near future, we will probably be hearing some new words. Sorry though, it's still the same old voice and not some sexy sounding young lady.

KNOW WHAT? There are a bunch of new calls that I don't recognize on the repeaters. I find it very difficult to keep up with all the upgrades and changes in call signs, so I don't know if these belong to members of O.C.A.P.A. or not. That's fine, go ahead and use the machines, because that is what they are for. But, we would like to ask a favor of you. Why not come to one of our meetings and find out what a good group of people we are in person. You might even want to join the club. It's only \$25.00 a year, and it's well worth that just to belong to the same club as K2GKK.

Also, a special invitation is offered to our present club members to attend one of our meetings.

Enough of the KNOW WHAT'S. Several members of the club are to be commended for the fine work they are doing. Buddy, KE5LD, Mac, K2GKK, Don, N05M, and Art, KF5DK have done excellent work in keeping all the repeaters up and working. Also, Ron, KE5M, has volunteered to be the weather net coordinator. Ron hasn't been too busy lately. Come on Ron, get us some weather in here. My lawn could use it. Frank, N5FM, has put endless hours working with ARES. I know there are others who have been busy, but with my lack of activity lately, I don't know about it.

It is good to know that one of our loyal members has expanded his outlet for amateur supplies here in Oklahoma City. After seeing Old Don's advertisement in the last issues of the Collector and Emitter, I decided to order one of his solid state guano scoops. Having grown up in the southwestern part of the state where guano is plentiful, I found this to be a real bargain. Don also agreed to let me field test one of his portable, all band, flexible gain antennas. A separate article on the performance and testing of this antenna is elsewhere in this issue of the Collector and Emitter.

Back to our new meeting place. Make plans to attend the June meeting, if for no other reason than to visit the new radio room. Dolph, KB2AW, has persuaded his organization to purchase and set up a top notch operating station at the headquarters building. With Frank's help, N5FM, and others, the station is really shaping up. A new Kenwood TS-440S with power supply, speaker and phone patch has been set up for h.f., and a Kenwood TM-3530A (I think) for two-meter operation.

The station is being set up primarily as a Disaster Operations Center. The purposes of the Center are to:

A. Provide a work location and setting to track and monitor disaster situations (tornadoes, high winds, flooding) which occurs in Oklahoma and Arkansas. Other disaster areas will also be monitored in Texas and Louisiana and eventually all areas throughout the United States and the world.

B. Provide emergency communication through amateur radio operators during times of disasters with Corps Community Centers and Service Unit Communities in order to disperse and maintain adequate disaster resources from The Salvation Army and other disaster agencies needing our assistance.

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C. Work in close cooperation and in concert with all emergency disaster agencies, organizations and services in providing emergency communication through amateur radio operators and also providing emergency resources for State Civil Defense; Radio Amateur Civil Emergency Services, (RACES); the American Radio Relay League; State Amateur Radio Emergency Services (ARES) Program; Oklahoma Conference of Churches Disaster Response Committee/Volunteer Organizations Assisting in Disasters; American Red Cross; State Department of Human Services and others needing emergency communication assistance.

The backbone of the Disaster Operations Center is an Amateur Radio Station designed, operated and maintained by members of the Oklahoma County Amateur Radio Emergency Services (ARES) and members of the Oklahoma City Auto-Pach Association (OCAPA). The station has the capability of maintaining communications with Amateur Radio Operators who will provide emergency communications for The Salvation Army and related emergency disaster organizations who need emergency communications during times of disasters. At the present time, the station can operate on 40, 75/80 and 2 meters.

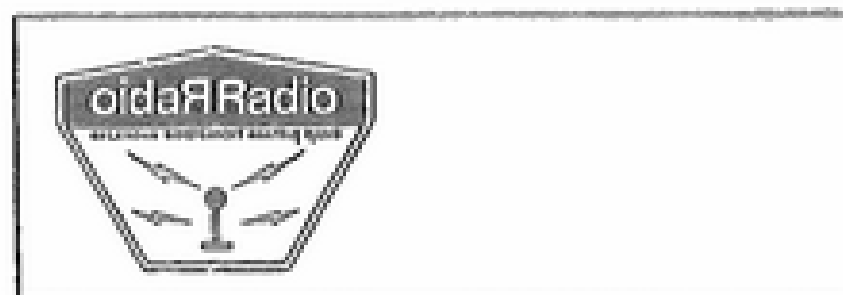
Much effort has been put into establishing the Disaster Operations Center, but more help is needed. Volunteer operators are needed to operate in times of emergencies. If you would like to donate some of your time, please contact Frank, N5FM, for a volunteer information form. Frank would like to check everyone out on the new equipment before they operate. The new rigs have so many bells and whistles that Frank hasn't been able to find the "ON/OFF" buttons yet.

Also, if you have any goodies around the shack that could be donated for antennas, such as coax, connectors and wire, they would be appreciated.

That's about it this time folks. But, I would like to make a request. I'm sure a lot of you guys and gals out there have some news of interest you would like to share with others, so why not give me a call so we can get it in the Collector and Emitter, or send it to me and I'll be happy to type it up and send it to Joe. As you can tell from my writing, it doesn't make any difference what it is. K5NK

*We all find time to do what we really want to do.*

WILLIAM FEATHER



The May Meeting of O.I.D.A.R. was conducted on Tues the 12th. First item of business was the treasure's report. According to Dave White, WN5LUI, OIDAR has \$138.86 in the bank. Biz, WDØHCO, read last meeting's minutes and then old business was discussed. The first item of old business was the receiver site tower that was rescued from the local hospital. Biz WDØHCO has agreed to donate 2 additional 10' sections and a top section of Rohn 25G Tower bringing the total length of tower to just over 90'. Several members were concerned about having a tower lease and insurance coverage since the tower will be installed on private property. Bruce, KA5ZKI will check on this and report at the next meeting. Lin, KA5ZJM reminded members that the track meet was coming this Saturday and OIDAR will need about 4 operators for the all day event. OIDAR will also be involved in the March of Dimes 6 mile walkathon in conjunction with the Kay County Amateur Radio Club, who will also be involved with the CEA 10K Run. Not to mention that Green Country hamfest will be held on the same day! Whew! This Saturday will be one hectic day! In other old business, Glen, WN5J will return the master OIDAR Badge artwork

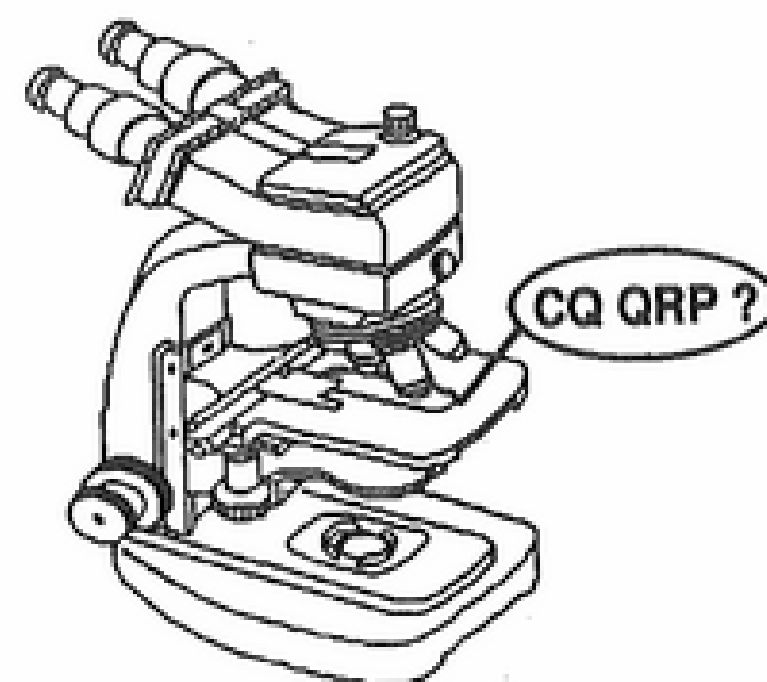
I HEARD: FMU can't add or subtract ..... LS has a lot of drift ..... BQX out doing his whickerbills ..... CSM checking his fertility ..... M#2 got hit in his sensitive area ..... FM has a shinwhacker ..... LD is mentally upset ..... KLN on the side ..... MCJ has his head on backwards ..... M#2 looking for a CB leanyar ..... GKK slaps himself ..... LD heard that too ..... GQY getting started ..... GKK finds that hard to believe ..... KLN jumping out ..... BQS fell off a rock ..... GKK would like to see an inch or two ..... BJS doesn't understand that ..... LD is easy ..... BJS bites on everything ..... DDB is nosey ..... M#1 making rude comments ..... BQX thinks DDB is a liar ..... M#1 will do it to a 6 and a 2 ..... M#2 will only do it to a 2 ..... RW has a lot of work to do in bed ..... FM isn't very productive ..... and a whole lot more ..... K5NK

to the club and a committee will look into making silk screened t-shirts either by one of the members or a local t-shirt store. Field Day committee reported that the transportable antenna poles were being made and that the Army Corps of Engineers will be contacted about the field day site. In other news, Lin, KA5ZJM reports that the OIDAR Novice Classes were over and 5 new novices have stepped through the doorway into the wonderful world of ham radio. These lucky few are:

Dennis Self  
Vaughn Folks  
Steve Huston  
Chip Huston  
BJ Huston

Oh and incidentally both BJ and Chip are 10 years old. This makes them both the youngest hams in Ponca City and possibly the state. How about it? Does anyone out there know of any hams that are younger? All three Hustons were voted into and are now members of OIDAR. Congratulations! The last item of business was the extension of Club officer terms to two years with possible staggered elections. Since this involves a change in the club constitution, announcements must be made in the C&E at least a month before the motion is voted upon. The last item was a quick demonstration of ATV by WDØHCO. Biz is starting to be active on fast scan and will have equipment set up to start sending pictures at about 5 to 15 miles later on this month. With Buisness concluded, the meeting was ajourned at 8:58 PM.

Biz - WDØHCO



# PCARR

## UPSET

was the scream heard from the softball park in Moore after the long awaited game between EARS and our beloved SCARS. The big game was held at 1:30 pm on May 2 and was over at 4:30 pm when your dedicated reporter arrived. Everyone agreed that the final score was 6-5 in favor of EARS; however, there was a question about the number of innings played. The estimates ranged from 5 to 8, and, because the SCARS group was gaining ground in the last couple of innings, you don't have to be Al Einstein to guess who was claiming what.

There were at least 55 folks there after the game basking in the warm sunshine, draining the keg that SCARS brought, and chomping the hot dogs and condiments that EARS provided.

Judging from the comments heard from the good folks present when I arrived, this was a very successful event. Rumblings of the next game were heard no more than an hour after the first one was over. If you missed this one, watch this column and Sports Line 9 for the announcement of the next SCARS- SHV3 game.

## The May meeting

was convened on the ninth of that month at about 9:32 am by president Mark, N5H2R. Twenty five persons attended not including the honorable editor (duty called) so these notes were passed on by Monte, WB5RZX,

## who reported

that the club treasury holds a grand total of \$1458.88 plus several pieces of junk radio equipment.

## However

\$125 was committed to purchase an updated prom for the repeater upon a motion by an

anonymous member and a second by another anonymous member. (anonymous only because Monte didn't write it in his notes!) Anyway the motion passed and as a result the repeater will have more words (Civil defense related) and fewer problems (ask Dave, K5PL, for details). The group is looking into buying an analog delay line for the repeater, cost \$150, to cover the relay clicking from the in-town link, TT bleeps (whatever that is?), and other insundry problems. This gadget will be purchased if the spec sheet which is now on its way to Dave shows that it will solve the problems.

## Field Day

preparations are being made even as you read this. Ken, K4SEFJ, and Davis, KD5IT, were volunteered to do the publicity. The FD site will be Reaves park and a special social event is being planned. About 60 people attended last year so if you weren't one of them, be sure and mark the dates on your calendar. Field day will begin at 1800 UTC (1 pm) on Saturday, June 27 and will end at 2100 UTC (4 pm) on Sunday, June 28. However because SCARS begins to setup the station before 1 pm on Saturday, our operating period will end at 1800 UTC on Sunday. The social event will be on Saturday afternoon or evening.

Louis, KD5WA, is the FD coordinator for SCARS. Louis will need lots of help, especially operators. Get in touch with Louis and reserve a time. Louis will also need help in setting up the stations. Plans are to have 2 transmitters and a Novice/Tech station if sufficient interest is exhibited. Last year the novice station drew 1 or 2 operators. We need more than that to make it worthwhile. So get together with your N/T friends and let Louis know you will participate.

## A Special Event

station will be operated by SCARS for the 10th anniversary of the founding of the club. The following announcement was approved at the meeting. It will be sent to several magazines

Norman, Oklahoma: The South Canadian Amateur Radio Society will will celebrate its decicentennial by operating a special event station, W5OU, from 1400Z-2400Z on September 19, 1987. Operation will be on 7.237, 14.237, 21.337, and 28.337 SSB phone, 14.087 RTTY/AMTOR, 145.01 packet, 147.060 (+/- 600) FM and 439.25 ATV. For a certificate, send QSL and large SASE to KD5IT, 2735 Poplar Lane, Norman, OK 73072.

## Another FB

Novice class finished this last month. Here are the class statistics compiled by Monte, WB5RZX.

### Novice Class #5, Mar-May 87

Jeff Bright	Novice 20-Apr
Kenneth Brown	Tech and Genl written, 04-May
Jeannine Clemons	Novice 27-Apr
Erle Donaldson	Novice 27-Apr
Gil Eckart	Tech 04-May
Craig Flanagan	Novice 20-Apr
Ron Heyenga	Tech 04-May
Robert Jeffery	Tech and Genl written 04-May
Dan Jones	Tech 04-May
Robert Long	Novice 20-Apr
Mike Morgan	Novice 27-Apr
David Perry	Tech 04-May
Albert Porterfield	Tech and General written 04-May
Donald Russell	Tech, Genl written and 20 wpm code 04-May
Judi Sanford	Tech 04-May
Leesa Skaggs	5 wpm code 04-May
Martin Smith	Tech, Genl written, 13 wpm code and Adv. written all on 04-May
Koichi Takase	Tech 04-May
Sally Thomas	Novice 20-Apr
Dick Tracy	Novice 20-Apr

Here is a summary of the SCARS novice/tech class statistics:

Learned abt class by	Achieved
21 Word-of-mouth	1 Advanced
8 Newspaper	1 General
1 Flyer	9 Techs
1 C & E	8 Novices
1 PBBS	1 5wpm cw
3 Unknown	15 dropped

### Upgrade Class #3 Mar-May 1987

Nora Ward	NSKDX Tech to Advncd 05-May-87 plus 20 wpm code
Gary Skaggs	WBSULK, Tech to Advanced, 18-Apr-87
Gary Norris	KA5BQS Novice to General, 18-Apr-87
Jeff Vaughan	KB5ABV Novice to Tech, 05-May-87

CONTINUED



FOREST PK., OK (NL) May 19, '87:-  
For this rather large June C&E issue (wide area/ARRL mailing) have much more than USUAL input for throughput. Trust that Joe, WA5ZNF will somehow find ample space!!

#### <<W5AS INFORMATION>>

QCWA Chapter 63's on the air operation during April '87 as follows:

SESSIONS	4
CHECK-INS	165
TRAFFIC	17

Our Birthday list for June '87 is very short compared to recent months??

07	Wilhelm Weseneck	W5NQF
10	Linda Watson	XYL W5EIU
14	Robert Boswell	W7LOU
19	Dr. Bill Hubbard	W5HXR

Vy 73, Howard, W5AS

#### <1987 ELECTION NEWS>

Just yesterday, received my QCWA, Inc. "Election News & Ballot. Am happy to see that I can affix my own 14 cent-or greater-stamp to mail my ballot. For '87 & future years the savings should enhance our Nat'l treasury-possibly delaying a dues increase for many years. Contrary or opposing views will be printed!! Herewith an earnest plea to vote (PRONTO) & "Lets make it 100%.

May 1, again, put in a plug for one of many distinguished members, Raymond Willis, W5ATO; who is running for 1 of 5 Directorships at this time. Raymond has successfully managed his own business over many years. He has been most attentive to the needs & progress of Amateur Radio over many years. He will significantly enhance the management team of QCWA, Inc. to give us a lasting & progressive organization.

#### <NOSTALGIA de W5JJ>

In the April '87 C&E I provided some interesting

history from an April 1928 QST. Carl Drumeller, W5JJ has now gone deeper into Amateur Radio history with info. from an August 1921 QST. Of first interest the cover has QST & directly under "A magazine devoted exclusively to Citizen Wireless". The cover picture is captioned: "Complete Description, 5ZG, Dallas, Texas-in this issue". The call 5ZG belongs to Mr. Bennett Emerson who at that time was City Manager of Dallas & Dallas County (ED).

The following is West Gulf Division, (Frank M Corlett, Mgr.) info.....

Oklahoma District, Lorin G. Dill, Supt., 234 S. Broadway, Oklahoma City: "Your Dist. Supt. recently made a trip to the eastern section of the state in and around McAlester.....Mr. Poor & Mr. Cooper own the only two transmitting sets. Mr. Cooper is just getting in the game and of course will improve with age. Mr. Poor is making some changes in his gap & will then have a very efficient station.....Muskogee stations have been in the air more than any other Oklahoma stations & 5MF is the busiest. 5RK at Norman is doing some active work & 5JR of Enid is continuing to "kick out".....5HL, Oklahoma City can work 5ZA's CW thru some of the heaviest static.....Mr. Miragle is installing a 1/2K.W. set at Krebs....No report from Mr. Selby of Muskogee. All stns. requested to report on 15th of month. Our district makes a poor showing due to stns. not reporting. 5HL handled 67 messages & this will have to be our district total. Let's have your reports, fellows". This sounds kind of familiar & into the 1980's (ED), but I should talk!! Other calls listed (no names) were: 5JD, 5RK, 5YH, 5ZAA, 5ZU & 5ZX.

Note the Z calls, keeping in mind they were issued only to those having a special high-class operator license...like our Extra Class. Note, too, the Y calls, keeping in mind they were issued only to institutions of learning. Finally, note the X calls; issued only to Experimental Stations. Now, one wonders if any of our truly Old Timers remember any of the listed calls and/or names??(Carl, W5JJ). Note: the

only X call I noted was Mr. Guy Neel, 5XJ, Dublin, Texas-Near Ft. Worth. (ED).

Sincerely & 73, Carl, W5JJ

#### <NAMES IN THE NEWS>

Affectionally known as Father John to his many many Amateur friends we report the recent passing of one of our members, John C. McGinty, K5HMI.

The members of Central Oklahoma Chapter 63, QCWA Inc., dedicate the, following as a "SILENT KEY" Memorial to his surviving family, to his second family-many associates at the Archdiocesan Pastoral Center, Oklahoma City, and to a multitude of his Amateur Radio Friends.

Most of the wording & remembrances comes via the courtesy of Father David Monahan, Editor, "the SOONER CATHOLIC" with published Memorials in the May 3rd & May 17th issues and from Dale Diehl, K5WUF, a close friend of Father John. Unfortunately space allotment necessitates substantial compression of the material.

#### <<SILENT KEY MEMORIAL>> <Father John C. McGinty> <K5HMI>

Father John C. McGinty, who observed the 62nd anniversary of his priestly ordination on Easter Sunday, became a "Silent Key" April 23, 1987 at Mercy Health Center. He was 89 years of age. Cause of his death was attributed to a heart attack. Earlier the same day he had become ill & had been hospitalized for what appeared to be a slight stroke.

He was born in Chillicothe, Ohio, Aug. 10, 1987, the son of John & Elizabeth Stauder McGinty. Around age 8 he was orphaned after his mother was killed in an accident & his father died suddenly. The four children went to live with various relatives; he with an aunt & uncle, John & Mary Hirsch.

He was educated at St. Joseph's College, Rensselaer, Ind., 1916 to 1919. Later he attended Kenrick Seminary in St. Louis from 1919 to 1925. Shortly after he came to Oklahoma & was ordained April 19, 1925 at St. Joseph's Old

CONTINUED ON NEXT PAGE

## QCWA CONTINUED

Cathedral, by Bishop Francis Clement Kelley. He was the first priest ordained by Bishop Kelley who had come to the Diocese of Oklahoma the previous autumn.

After his ordination, Father John apparently made a life long commitment to serve the church in Oklahoma. He officially served God's people in many many places (a long long list), namely: Enid, Poteau, Bokoshe, Heavener, McCurtain, Talihina, Goltry, Carmen, Syria, Holdenville, Tulsa, Stillwater, Pawnee, Cannute & finally Oklahoma City. Perhaps some who read this Memorial were acquainted with Father John at some of the many places listed; even though he did not become a licensed Amateur (Advanced Class) until July 1957 (ED).

Father McGinty retired during 1967 and took up residence at the Archdiocesan Pastoral Center for the remaining 20 years of his life. But, he was always active right to the last. For a large part of his priestly life he owned & rode motorcycles. Even in the early part of his retirement he used a motor scooter-then finally a 10 speed bicycle. Sometime last fall he purchased a new automobile & only a few weeks before his death he drove it to Enid.

Many of his Amateur friends will remember his "Ham Shack" at the Pastoral Center (second floor) with Drake, Collins, both manual & solid state RTTY plus much supporting equipment, and above & west a landmark tower with beam & wire antennas that many Amateur friends helped to erect & tune. I do not recall his two (2) meter equipment, but there was a 6 meter Gonset on the shelf (ED). Almost daily, until very recently, he would be on the HF bands talking to fellow Amateurs. Believe, almost daily, he talked to Father Joseph Kolb (Joe), W5JEB, Altus Oklahoma. Some time back Father John told me he often wished he had become licensed earlier because of the many places he lived and his joy of experimenting with radio equipment (ED).

A Mass of Christian Burial was celebrated for Father McGinty by Archbishop Charles

Salatka at the chapel of the Archdiocesan Pastoral Center on April 27. Burial was at Resurrection Cemetery.

Survivors of Father McGinty are Joseph McGinty, his eldest brother, Chillicothe, Ohio; first cousins with whom he was reared-Leo Hirsch, Dr. William Hirsch and Dr. Carl Hirsch-all of Chillicothe; Nephew Edward Delanty of Portland, Ore., and nieces Joanne Ferguson, Baltimore, and Catherine Jones, Alexandria, Va.; and a grand nephew who was especially close to his uncle, Tom Delanty of Portland, Ore.

Through Courtesy of Dale Diehl, K5WUF, a Chapter 63 member and long time friend of Father John, some random thoughts & remembrances. Dale told me "I have not affixed specific dates, but most since he became licensed":

(1) Father John had a very sharp mind, was very inquisitive, was very well read on a host of subjects, was very broad minded and tolerant, and was always kind & generous. Believe he could have been a successful electronics professional. He always wanted to know how things worked & made many improvements to devices. Was up-to-date on many subjects; intently read newspapers, watched newscasts and an avid viewer of PBS programs. He never tried to influence others in matters of religion plus other controversial subjects. He gave away many things and was quick to offer assistance. He once bought a BC-610 and shipped it to a missionary group in South America. He once got out of bed at midnight to administer rites to a dying Amateur Radio friend who was of another faith.

(2) He was an avid experimenter. Before commercial auto-sending CW machines were generally available, he bought some old manual typewriters, gutted them, added doughnut toroids & electrical contacts to every key & then made it work. He became an expert on teletype; even late in his Amateur career went from mechanical gear to more modern "Solid State" equipment. After copying Spanish news on his teletype, he studied Spanish texts-then went to Mexico City for a college course. Said he, "I wanted to get it direct

from the source". He was a "home brew" expert & improviser. While Chaplain at the Old Mercy Hospital, he made & installed a vertical antenna on a hot summer day. He provided a treat for the patients & nurses as he worked on the roof of an adjacent building--and in our Oklahoma wind.

(3) There must be many more things to be said about John-most all would be "good". He deplored bad manners, bad grammar & bad amateur operating practices---but he never "bad mouthed" others. Myself & many others will miss him; a real loss to the Amateur Community and to the Church Community.

The surviving family of Father John will be pleased to know that this Chapter will dedicate a Memorial gift to the Quarter Century Wireless Association's (QCWA's) Scholarship Fund, and also will affix a nameplate to the Chapter's "Silent Key" plaque--in his name.

For Chapter 63, Fred, W5NL

## SCARS CONTINUED

### Spring is here

and young ARO's thoughts turn to antennas and heh-heh-heh. So it came as no surprise when the SCARS gossip director told us about the YL(not SCARS but close) and eligible OM(SCARS) who went to visit grandma and (SURPRISE!) found that grandma wasn't home? And what happened next? The answer to that question earns the SCARS SA award for JUNE.

### And the good

news is that Mark, N5HZR, will NOT be married on Field Day. That fact was confirmed by two unimpeachable sources, one tall and skinny, the other short and not skinny. What's the bad news? Ask Mark--it's supposed to be a surprise.

### The next

meeting will be on Saturday, June 13, at 9:30 am at the Norman Red Cross, 1205 Halley Drive. Hope to see you there.

-----KD5IT-----

# GREAT PLAINS A.R.C.

MSHG Repeater 146.13/73

## A GREAT BIG THANKS!

Often, while trying to thank everyone for participating in an event such as our recent Eyeball QSO, it is easy to overlook at least several deserving individuals who certainly need to be recognized. In this case, Joe and his staff at The Collector and Emmitter are most deserving. To even take this a step further, these folks have probably done more for amateur radio in our state than most would have ever thought possible. For promoting and helping to make our event most successful we offer our sincere appreciation to all involved with the C&E.

## NEW RIG

Recently, the Board of Directors agreed to purchase a new 2 meter rig for use at the Woodward radar site. Ron, WB0PGD, reports that it has been installed and is operating very well even though we haven't experienced the severe weather usually associated with this time of the year. Yet!!! This rig was certainly needed and will, most certainly, get some heavy use throughout the years.

## NEWEST MEMBER

Tammy Bowman, daughter of Judy and Gerald (W05Z) Bowman, recently received her Novice call which is KB5CZU. Tammy attended our recent club

meeting and was awarded membership in the GPARC by vote of all present. We know that Tammy has worked hard for her license and are very proud to welcome her into our organization and the amateur radio fraternity. Tammy seems to be following in her Dad's footsteps but hopefully by the time she is old enough to drive, Gerald will have sold the vehicle with the crank starter. (Just couldn't pass that shot up Gerald.)

## CHAIN SAW EXPERTS

Anyone need any help with tree and bush trimming? We understand there are two experts in our midst with the initials of Gerry and Sharon Ford. It seems that he may hold the world's record for piling limbs and brush on a pickup. His secret, it seems, is to cut the material into very small pieces, compact it very tightly by vigorously walking on it and then to finish it all off by throwing about six or eight huge pieces of concrete on top of the whole affair. The real miracle was how XYL Sharon and her mother were able to get it all unloaded at the county landfill. It seems to have been a very lengthy process and we understand that Gerry's ears were burning quite badly. Not only is he cruel and unjust to wife and mother-in-law but birds don't seem to fare too well in his plans either. At least the ladies survived the ordeal much better than our feathered friends.

## NMOSH

Bart, N25T, net manager of the Northwest Oklahoma Service Net lists the following information. Totals for the month of April were 13 sessions with 119 check-ins and 4 pieces of routine traffic being handled. We also learned that there may be some changes made in the net in order to streamline it and make it more interesting. Bart is also in need of more net control operators particularly in view of summertime activities about to commence. Anyone interested? Please call Bart or Gerald.

## BUSY, BUSY, BUSY

Club activities are certainly hectic during this period which is probably only rivaled by the December Holiday Season. We will furnish communications for the Gage Roadrunner Marathon and 10K Race, the Woodward Harvest Day Races and of course, will participate in Field Day activities. More information on each of these events will follow in future articles.

## END OF THE LINE

Since the OM and I have to spend all next week in Kansas City with the Marine Corps I'd better cut this short and get some other things accomplished. So for now-

73, Lois, N5J00

SUN	MON	TUE	WED	THU	FRI	SAT
		MORI New location See page 3		AERONAUTICAL		
	1	2	3	4 TRI CITY	5	6
7	8 EDMOND CLUB	9 OGDAR OU 76'ers	10	11 ALTUS AREA OKC/PM	12	13 ARDMORE SCARS COCO
14 WHEATSTRAW	15 VE EXAMS RED CROSS 6:00 PM	16 AUTOPATCH	17	18 CIMARRON KAY COUNTY	19 EARS	20 VHF CLUB
21	22	23 CORA	24	25	26 EDIT NIGHT FOR C & E	27 FIELD DAY
28 FIELD DAY	29	30			JUNE	