



President Paul Pape called the meeting to order at 9:07 AM on March 11, 1987. 74 members and guests attended.

#### Announcement

The OKC chapter of the Red Cross is selling cookbooks to help defray local operating expenses. Ralph Tennyson of the Red Cross offered everyone in attendance the opportunity to buy a copy for \$5. He sold all the copies that he brought to the meeting and then had to get some more.

#### Old Business

1. The CoCoFest committee met last week at the site of CoCoFest '87. Everyone agreed that the First Christian Church Youth Center will be an excellent location for the August event. The facilities include a large room for the dealers, three smaller rooms for demonstrations, and a kitchen for the concessionaires.

b. The church, distinguished by its golden dome, is located at 36th and North Walker. The Youth Center, site of CoCoFest '87, is located northeast of the church.

c. To refresh your memory, the event will take place on Saturday, August 8, 1987, at the First Christian Church. Admission will be \$2 per person. Dealers will pay \$5 for a table, which will include two tickets to the affair.

d. The following is a list of the committee chairmen:

Advertising - Patrick Roberts  
 Speakers/demos - Bob Lyon  
 King of the Gofers - Lee Lash

Registration - Mike Weigel  
 Printing - Ronn Folk  
 Videotaping - Tom Brewer  
 Concessions - Dale Goad

2. No one brought any public domain software to

contribute to the library.

3. Don't forget the swap meet on Saturday, May 9, in the Red Cross parking lot. Bring any hardware or software that you'd like to sell or trade.

#### New Business

1. We discussed the need to find a new meeting place. George Roberts mentioned that he was involved with finding a new meeting place for the IBM PC users group. According to Bob Pace, the old site of the IBM PC users group meetings rents for \$25 per month. That site, the Floral Exhibition Building in Will Rogers Park (corner of NW 36th and I-44) would be ideal, and the price is right.

2. Bob Pace announced that there will be a swap meet at the Midwest City Community Center on April 18th. The event will begin at 9AM. Admission is free. The last one was a big success, so come on out and see what's available.

3. Sam Murr wants to assemble a Color Computer system for a teenager who was recently paralyzed. If anyone has some components for sale at reasonable prices, please contact Sam.

4. Let's extend a warm welcome to new members Richard Hylton, Thomas Glass, and Bill Gregg.

#### Hardware Problems

1. Raylon Rogers asked when he should clean the heads on his disk drives. Numerous I/O errors are the indicators. However, DON'T USE A DOUBLE-SIDED CLEANING DISKETTE ON A SINGLE-SIDED DRIVE! This can damage the pad on the single-sided drive.

2. A corollary to #1 above is DON'T TURN THE DRIVE ON OR OFF WITH A DISKETTE IN IT AND WITH THE LATCH CLOSED! The surge of electricity at power up or power down could zap the directory if the head is positioned over the directory track. (This advice goes for all computer systems -- IBM

PCs and clones, etc.).

3. Herb Reed needs some information on the Tandy 600 computer.

4. John Rudnicki needs information on the DMP 130 printer.

5. Gene South is looking for some matrix ink to re-ink printer ribbons. Someone suggested Borg Industries.

6. Frank McCollom recently bought a Gemini NX-10 printer. The printer won't line feed, so lines overprint one another. He's been reticent to flip the dip switches, but that should clear up his problem.

7. Jim Scruggs wanted to buy a good printer. Tom Mangham recommended the NP-10, a scaled-down version of the NX-10. The NP-10 prints 100 characters per second, has a 2K buffer, and sells for around \$180. Replacement ribbons cost \$16 per dozen.

#### Hardware Problems

1. Paul Pape wondered if CoCoMax could widen pictures.

2. Dorothy Roberts wanted to print diacritical marks using her Gemini 10-X and ELITE WORD. The printer is capable of printing the diacritical marks. Whether ELITE WORD will allow her to send to the printer those ASCII codes necessary to generate the characters is another story. VIP WRITER and TELEWRITER 64 do provide this capability.

3. Tom Brewer is having trouble reading files into his CoCo 3 using VIP WRITER. The program reads about 20 bytes and then stops.

4. Bill Pool also uses VIP WRITER, and he wants to draw a blank line using the underline faculty. It seems like a simple request, right? Unfortunately, VIP won't let him begin a line with an underscore. Aside from switching to a REAL word processor (i.e., TELEWRITER 64), does anyone have a suggestion?

5. Randy Kastner needs assistance with OS9 Pascal.

6. Merrill Scott, Sr.

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# The South Canadian Amateur Radio Society

## The SCARS

meeting got underway a little late on April 11, 1987. It was called to order at 9:41 am by Mark, N5HZR. There were 40 in attendance.

## Ham Holiday

planning is proceeding very well, reports Dave, K5PL. He mentioned the possibility of utilizing an explorer scout troop for security at the hamfest. If anyone has a connection with a troop, please contact Dave.

## Having paid

no bills(because there were none), the treasury holds \$1165.15, a sum somewhat greater than last month, according to Monte, WB5RZX.

## The softball

game between SCARS and EARS was postponed until the first Saturday in May, according to Mark, N5HZR. Listen to .06 and KWTW Channel 4 for an announcement on where the game will be played.

## Tom, Dick or

Harry Clark is not the name of the new Red Cross director sez Mark, N5HZR. It's David L. Clark.

## The new NWS

storm center got a workout on the evening of March 14 and into the morning of the 15th, according to Steve, N18W, the NWS Liaison Director. Storms during that period kept several SCARS members active at the station, including: K5PL, W05W, N51UA, et al. Darryl, WA5TCO, and Bob, KA5ETA helped a great deal in relaying traffic to western OK stations.

Steve needs volunteers who can man the Liaison Net Control position(at the NWS in Norman) during working hours(8-5 M-F) in the event of bad wx. If you are interested in helping, contact Steve at 799-5150. Training of net controls is

## According to

Barney, N5IUB, the "KT" used to identify interim licenses means -- "KEEP TRYING" --

## The FD Site

will be Reaves Park reports Mark, N5HZR. FD director Louis, KD5WA, is looking for a portable tower to erect at the site. Volunteers are needed to handle publicity. Field day weekend is June 27-28.

## VE Exams

in Norman will be on Monday, May 4, at the Red Cross building in Norman at 7:30 pm. Exam fee will be \$4.35 for any exam except novice. Bring the original and a copy of your current license and drivers license or other ID. For more info, contact Sam Barrett at 321-2601.

## The winning

raffle ticket was held by Sharon Guthrie, daughter of Bob Guthrie who is interested in earning his novice ticket. Sharon won a \$16 assortment of connectors.

## Eleven more

novices were brought into amateur radio as of April 20 via the SCARS Novice class. Congratulations to:

Jeff Bright	Daniel Jones
Martin Smith	Kenneth Brown
Donald Russell	Craig Flanagan
Erle Donaldson	Sally Thomas
Robert Long	Koichi Takase
Albert Porterfield	

Five others have passed and a several more are close to passing the CW test.

## Plans for a

Special Event Station to celebrate SCARS decicentennial anniversary are being drawn. The date selected was September 19. A proposal with more details will be presented at the next meeting,

## which will be

on Saturday, May 9, at 9:30 am at the Norman Red Cross located at 1205 Halley Drive. Hope to see you there.

————— KD5IT

## MORE COCO

needs a ribbon from a disabled CoCo 2 or 3 keyboard to run an experiment. Erik Petrich offered to provide Merrill with some.

7. Ronn Folk wants a CoCo 1 chicklet keyboard. Someone offered Ronn a freebie. If that deals falls through, though, Rob Runyon offered to sell him one for \$700.

8. Larry Boettcher wants a Morse code program that works through the RS-232 port. Harold Todd has one.

## Doorprize Winners

Rogue - Bob Becker  
Interbank Incident - Raylon Rogers  
OS9 - Gene South  
paper punch - Stephen Strong  
stapler - Jack Gant  
used diskette - Francis Doling  
diskettes - Howard Wilson  
diskettes - Robert Browning  
diskettes - Dorothy Robert  
diskettes - Cecil Borin  
diskettes - Larry Boettcher  
disk box - Joel Swift  
disk box - Erik Petrich  
disk box - Bob Pace  
disk box - Richard Hylton  
disk box - Bob Jetton  
disk box - Fred Cundeiff  
Musica 2/Orchestra 90 - Frank McCollom  
Instant CoCo - Sam Murr  
videocassette on CoCoNet and ADOS - Bill Gregg  
Space Probe Math - Martin Schiel

## Program

Again this month the OS9 enthusiasts met in the rear, and Sam Murr conducted a tutorial on BASIC up front.

See you at the swap meet next month. And, remember, it's still not too late to bring a disk of your favorite public domain programs.

- Martin Schiel, 670-6891

## FOR SALE or TRADE

TELEX Headset with 6 kohm boom mike model CS90 hardly used and in mint condition. Stereo and cough switch. List price was \$115.50. KD5IT 321-7570.

## GREAT PLAINS A.R.C.

WSHGH Repeater 146.13/73

### Eyeball QSO Results

Well, the Club had another successful Eyeball QSO this year. We had about the same amount of people in attendance as usual but the number of swap tables almost doubled this year. Lee, W5HGH, reported 41 tables were used for new and used goodies. The ladies program presented by Deanna Staats was enjoyed by all who attended. We had a very interesting demonstration on Pretty Punch and later a children's program was offered by Tammy Bowman. Most important of all, everyone seemed to be having a great time. We want to thank everyone who came and sincerely hope to see you again next year.

We had a couple of other useful demonstrations as well. For instance Gerald, W5Z2, once again showed us his expertise in cranking. Larry, KOCIO, also gave us very enlightening instruction on "How to successfully break into a locked vehicle" - notably his own. He did have the aid of an able and capable assistant, Ron, WBOPGO, who maintained he was no stranger in that matter. Who says teamwork is a thing of the past. The OH and I feel fortunate in having all their attempts, including foul language and all, on video cassette. We might be able to sell it for demonstration purposes and be able to make quite a bundle. Those in the car theft business would possibly be interested in knowing how out Jayhawk friends operate. At least it would make a great program for the Hamfest next year. All this for a price, you understand. We're definitely going to have to give this matter our most serious consideration.

The hamburger fry was great again this year. Bill, KOSJR and company did the grill work and Freida, N5EOX, supervised getting everything else together. The side dishes were great and we thank all the ladies for providing us with them. A big thanks to Sharon Ford and her helpers who did a fantastic job of keeping the coffee and doughnuts going at the Hamfest. Thanks are also in order to Carla, WBOQGW, and everyone who was working on the covered dish dinner. I can't keep up with who does what anymore as everyone just seems to jump in and help where they're needed. I suppose this teamwork is what makes our Hamfest so successful. It's sort of like a huge family reunion every year.

We want to thank all of the dealers who were able to journey out our direction. Thanks also to the ARRL for their prize donations and hand-out material. And, of course, there's our Master of Ceremonies, Gerald. As always, he did a superb job. Rumor has it that he is interested in that job from year to year because he gets to eat first. We personally don't believe that, you understand.

### Ex Mayor

Seriously, again speaking of Gerald, many of you may not be aware that he has been the Mayor of Mooreland, OK. Has been because he chose not to run in the last election. We personally know that he has done an outstanding job in that capacity and we also know that probably only a few, if that many, have bothered to tell him how appreciated his efforts were. The OH encouraged me to write this because he has been on the City Council in Gage forever and knows how demanding it can be. He continues that nobody has ever told him that he was doing a good job. (Maybe because he hasn't been.) At any rate, Gerald, we're extremely proud of you, know how dedicated you have been as Mayor, and are glad to have you as a member of the GPARC. By choosing not to run, we feel that your town has lost some of it's notoriety. What other city in the U.S. can claim to have a Mayor who has to crank his pickup?

### April GPARC Minutes

There aren't any!! Our monthly meeting was canceled for April because of a severe storms seminar held at Woodward. Mr. Don Devore and our own Bill Wyatt, KD5JR, again brought us up to date on severe weather spotting techniques. Don had changed his presentation considerably with new slides and a very interesting film of a tornado shot nearby from a helicopter. Bill and Don also gave programs in several area towns and schools as well. Judging from the large group, from twelve communities, who attended the Woodward presentation, their efforts are definitely will received.

### Bye Bye Supershack

As previously reported, John Wright, N5AVV, and his well organized and equipped ham station will soon be leaving the area. With the closing of the Gage Flight Service Station, John and crew are being transferred to McAlester. I hasten to add, he is going to McAlester not for the usual reason but to continue to work for the F.A.A. We'll miss you John but maybe we can all keep in touch via packet radio.

### In Closing

Lest we forget. The members of the GPARC are most appreciative to the merchants, school system and citizens of Mooreland for their recent hospitality. Thanks are also extended to the Volunteer Examiners and all those who journeyed to Mooreland to take their exams. Huff for now. 73, Lois, N5JGQ

### The Odyssey of a Ham

My QSOs add up to four,  
Quite good for just an hour.  
A 0, a 3, a 2, and a 6.  
Not bad for a one-day mix.

The KYL calls that dinner is ready;  
My Gosh, is it that time already!  
I reach for the switch to call it a day,  
"That's good enough!" to myself I say.

But wait . . . what is that I hear?  
A beeping signal so nice and clear.  
Like Homer's sirens seductively singing out to sea,  
a rapturous melody from which Ulysses' seamen vie to flee,  
And I, too, know it is time to cease and desist, but my,  
how hard it is to resist!

CQ, CQ. CQ, CQ De KZ7ZZZ . .  
Now, I ask myself as I reach for that key:  
"Do I really think that they are all meant for me?"

by Joseph A. Martellaro  
KA9PJX



THE ZANY NEWS FREQUENCY  
By JOE, WA5ZNF

### SORRY ABOUT THAT !

Since the last C&E I have spent 15 days in St. Anthony Hospital with another heart attack. That wasn't so bad but during that time they performed a triple bypass operation on my heart to give it more circulation.

I'm feeling pretty good now, just waiting for that big "gash" in my chest to heal up. I just decided to put this issue out so if it isn't up to snuff, forgive me.

A lot of help from a bunch of friends have made this possible.

Joe, WA5ZNF

**1 AERONAUTICAL CENTER ARC**

MEETS: FIRST THURSDAY, FLIGHT STANDARDS  
BUILDING, FMA, SOUTH MACARTHUR 7:30 PM  
PR BOB PAGE, WASCIG 376-3569  
VP  
S/T JACK INAN, WSSVM 677-8337  
EDITOR: BOB PAGE, WASCIG 376-3569

**2 CENTRAL OKLAHOMA VHF**

MEETS: 10:00AM THIRD SATURDAY, RED CROSS  
10TH & HUDSON (BACK DOOR) OKLA CITY  
PR JERRY WETHORE, KSTIS 524-5000  
VP ALAN GARNER, KSTIS 721-0993  
SE JOE BUSHNELL, K5JD 732-0676  
TR ELLARD FOSTER, W5KE 789-6702  
EDITOR: JOE BUSHNELL, K5JD 732-0676

**3 MID-OKLA REPEATER**

MEETS: 8:00PM FIRST TUESDAY, OKLA CIVIL  
DEFENSE, WILL ROGERS BLDG., STATE CAPITOL  
PR BOB ALLEN, W5EPV UNLISTED  
VP TIM RAUSCHER, KASHUG 848-9910  
SE RICHARD WOOD, K5OHM 677-0363  
TR JIM JONES, K5PER 634-3235  
EDITOR: TIM RAUSCHER, KASHUG 848-9910

**4 OK CITY AUTOPATCH**

MEETS: 7:30PM OKLA. UNIVERSITY, OKLA. CITY  
PR CHARLES HOFFERBER, W5FHU 340-4460  
VP DAVE HOLDER, W5GOY 524-4711  
SE DAVID CARM, KF5EB 751-5672  
TR ART HERNANDEZ, KF5DK 354-9724  
EDITOR: DAVE HOLDER, W5GOY 524-4711

**5 OKLA UNIVERSITY ARC**

MEETS: 7:30PM SECOND TUESDAY (SEP-MAY)  
119 WILSON CENTER, 1334 S JENKINS  
PR FRANK DONALDSON, W5IDJ 329-4172  
VP JOHN MUSTENBERG, KESH 323-2382  
SE PETER RICHESON, KASCOI 329-3217  
TR GREG SMITH, KASLH 366-1641  
EDITOR: GREGG SMITH, KASLH 366-1641

**6 ALTUS ASSOCIATION**

MEETS: 7:30PM SECOND THURSDAY  
NORTH MAIN FIRE STATION (CD) ALTUS  
PR JAMES HOLLEBAHL, K5SL5 482-7938  
S/T MIKE SULLIVAN, W7OWU 477-2938  
EDITOR: MIKE SCHENKLE, K5SXN 482-1797

**7 BICENTENNIAL (76er) ARC**

MEETS: 7:30PM SECOND TUESDAY  
KIPS RESTAURANT, 8TH & MERIDIAN  
PR DONALD BUCK, A5SN 691-4199  
VP TED WILKINSON, W5JNT 262-1675  
SE JERRY SPROUL, W5AHN 334-2061  
TR  
EDITOR: JIM SEALS, K5SXN 381-2005

**9 WHEATSTRAW ARC**

MEETS: 2:30PM SECOND SUNDAY. LOCATION VARIES.  
SEE CLUB SECTION FOR DETAILS.  
PR RALPH WILDER, W5PFX (WATONGA) 623-3421  
VP TOM JOHNSON, W5IKH (EL RENO) 262-3631  
S/T JOE GARLAND, W5FLT (CALUMET) 893-2660  
EDITOR: JAN KUHN, W5JUT (OKMACHEE) 263-4480

**10 CENTRAL OKLA COMPUTERS**

MEETS: 9:00AM SECOND SATURDAY, RED CROSS BLDG  
RM 10 & HUDSON. BACK DOOR.  
PR PAUL PAPE 755-1058  
VP RONN FOLK 737-3580  
S/T MARTIN SCHIEL 670-6891  
EDITOR: MARTIN SCHIEL 670-6891

**11 EDMOND AR SOCIETY**

MEETS: 800 MONTHS, 3RD SUNDAY, 2:00PM EDMOND  
ECC. DINNER, EVEN MONTHS, 3RD FRIDAY.  
PR BOB MCCOY, W5BUI 348-2032  
VP LEE VAUGHN, KASHIS 348-2961  
S/T ANDER THOMASON, KASVEK 478-4615  
EDITOR: ANDER OR BOB THOMASON 478-4615

**12 QUARTER CENTURY W A**

MEETS: QUARTERLY AT VARIOUS PLACES.  
NET: 3855 KHZ SUNDAY AT 8:00AM.  
CHM ROBERT RUNYON, A400 373-1818  
VCH GENE HAILON, K5OLE 341-8289  
S/T HOWARD BAKER, W5AS 721-5453  
EDITOR: ROBERT RUNYON, A400 373-1818

**13 KAY COUNTY ARC**

MEETS: 7:00AM THIRD THURSDAY  
PIONEER DRIVE-IN BANK, PONCA CITY OK  
PR DAVE LAMB, K5SFX 762-8616  
VP STEVE SCOTT, KASSEK 762-0117  
S/T HARRY BEATTIE, W5OPR 765-3862  
EDITOR: CHARLES NORTH, W5EVD 762-8136

**14 CIMMARON ARS**

MEETS: 7:30PM THIRD THURSDAY, W5FUD SHACK  
827 S 13, FAIRVIEW  
PR BILL SIMPSON, W5HOR 274-3334  
VP RAY BARNES, A5SZ 764-3599  
SE DENNIS PAINTON, W5V 764-3599  
TR TERRY MCCOLL, KASTVF 227-3672  
EDITOR: JACK DAY, W5SZ 227-3462

**15 SOUTH CANADIAN ARS**

MEETS: 9:30AM SECOND SATURDAY, RED CROSS BLDG  
NORTH OU CAMPUS. NORMAN  
PR MARK KLEINE, W5HJR 329-4285  
VP ANDREA WOLFE, W5W 799-5150  
SE LINDA BRADY, W5OHM 321-5081  
TR MONTE BATEMAN, W5RZI 329-7485  
EDITOR: DAVIS EGLE, K5SIT 321-7570

**16 EDMOND AR CLUB**

MEETS: 7:00PM SECOND MONDAY. SEE CLUB  
SECTION FOR LOCATION AND TYPE  
PR MARK NORTHCUTT, W5BYI 755-4672  
VP BOB MOORE, KASETA 799-1765  
S/T KAY NORTHCUTT, W5BYJ 755-4672  
EDITOR: MARK NORTHCUTT, W5BYI 755-4672

**17 OK CPH USER GROUP**

MEETS: 7:30PM SECOND THURSDAY OSU,  
ROOM 307  
PR WILLIAM COOTER 360-2141  
VP JIM WHITE 364-5289  
S/T JOY NELTON 789-0280  
EDITOR: WILLIAM COOTER 360-2141

**18 GREAT PLAINS ARC**

MEETS: 2:30PM FIRST TUESDAY  
WOODWARD PUBLIC WORKS BLDG.  
PR MINGLE HATCHETT, W5PLM (FT SUPPLY) 766-3561  
VP RON TICE, W5OPG (MOORELAND) 994-2138  
SE BOB FORD, W5OWT (GAGE) 923-7683  
TR FREIDA PATTERSON, W5EOX (MOUND) 256-2111  
EDITOR: LOIS FORD, W5JGO (GAGE) 923-7683

**19 OKLA INDEPENDENT ARC**

MEETS: 7:00PM SECOND TUESDAY  
SOUTHWESTERN BELL OFFICES, PONCA CITY  
PR DAVE WHITE, W5SLU 765-5707  
VP VERNON TREIBER, W5ANV 767-1571  
SE GLEN BISHOP, JR, KASPB 767-1031  
TR BIZ WICHY, W5WCO 762-3297  
EDITOR: DOUG EVERITT, W5HUB 359-0069

**20 ARDMORE ARC**

MEETS: 7:30AM 2ND SATURDAY. CORRAL RESTAURANT  
INFORMAL: EVERY WEDNESDAY, 221 9TH NW  
PR GLENN HAMILTON, KES5 226-4377  
VP KEN FRANKS, W5MPC 226-1930  
SE ROBERT GRIFFIN, W5VKA 223-8748  
TR JOHN MERLYN, W5FZD 223-9343  
EDITOR: JACK GANT, W5EH 223-2619

**21 TRI-CITY ARC**

MEETS: 1ST THURSDAY OF THE MONTH.  
PLACE:  
PR ROBERT DOLTON, KASHU 379-2348  
VP RON PHILLIPS, W5SUPU 382-1836  
S/T J. D. BILLS, KESHU 379-3992  
P.O. BOX 655, HOLDENVILLE OK 74848  
EDITOR:

**CENTRAL OKLA RADIO AMATEURS**

MEETS: 7:30PM FOURTH TUESDAY. RED CROSS  
BLDG. 10 & HUDSON OKLA CITY (BACK DOOR)  
PR JIM BOSWELL, W5BEO 736-0340  
VP FRANK TASSONE, KASNGS 341-4448  
SE LEE WARD, W5HJR 789-0480  
TR SUSAN ST LAURENT, KFSLG 324-8100  
CON/COM: CHARLES HOFFERBER, W5FHU 340-4460

CORA COLLECTOR & ENITTER (USPS 116-150) IS  
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HIDWEST CITY OK 73110. SECOND CLASS POSTAGE  
PAID AT OKLA CITY OK. SUB: CORA MEMBER \$3.00  
PAID SUBSCRIPTION: \$7.00 PER YEAR.

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

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



FOREST PARK (April 22, '87): Seems to be that time again-the May C&E goes to press tomorrow night. Have managed to work thru the first mowing at this QTH for 1987. All scalped, fertilized & waiting for the bermuda to overcome the yearly weed crop. Not much input for this issue-most via telecon. Anyhow here it goes!!

#### <<W5AS INFORMATION>>

QCWA, Chapter 63 on the air operation during March 1987 as follows:

SESSIONS	5
CHECK-INS	217
TRAFFIC	21

Following is QCWA, Chapter 63's birthday list for May 1987. Sincere wishes to each & in advance for the much appreciated cards from Eunice!!

02 Gilla Wood	W5NUT
06 Dale Diehl	K5WUF
06 Ray Bryan	W5IQ
11 Claudine Heithecker	YL W5EJ
15 Pauline Lagaly	YL W5NTL
18 Jeanette Myrick	YL NG5G
25 Helen Irwin	YL W5NBH

#### <SILENT KEY>

During last Sunday's (19 April) on-the-air meeting George Bunce, W5DKC reported W5JFT, Ode Cook, Broken Bow, Ok. as a silent Key. George had seen an Estate announcement of Ode's Ham Equip. etc in the "Yellow Pages". Being somewhat gunshy since Larry, W5EIU was recently reported as a Silent Key, Howard called Broken Bow & confirmed that Ode became a Silent Key Feb. 13th at age 71. Ode had been quite ill during six months prior and had dropped out of Chapter 63. But, he had been somewhat Net active on 75 meters till near the last. Am certain many readers were well acquainted with Ode and will recall his consistent Net activities. Our very sincere condolences to Mrs. Cook and Family (Ed.). The family address is 508 W. Choctaw, Broken Bow,

#### <<NAMES IN THE NEWS>>

(1) From Howard, W5AS (Telecon): Via the ARRL News Letter, April 1987 VIZ. Larry Shima, WOPAN has been appointed Controller for ARRL. Larry will join the staff April 27th. Some readers may remember Larry as the Dakota Division Director during the early 1970's. Larry we are very pleased to learn of this very important appointment & know you will do a super job. We are also grateful you are still a member of this QCWA chapter. Note: Larry is formerly from Enid & now resides in Pennsylvania if I have the latest Info. (ED)

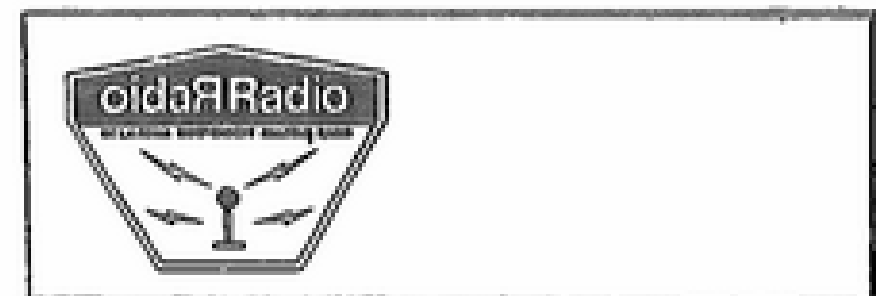
(2) From Howard, W5AS (Telecon): Father John McGinty, K5HMI has, this year, dropped his Chapter 63 membership; due he says "my very reduced Amateur activity". Father John will enjoy his 90th birthday on Aug. 10th.....From ED: before leaving this item of news I called Father John to inquire of his health & well being. He is having sight trouble in one eye, but can still read newspaper. With TR-7 still talks with Father Joe Kolb, W5JEB, but not daily as in the past. Says he would certainly enjoy a visit or telephone from his many friends-but call first. Note for George Bunce, W5DKC: Knowing your continuing use of Collins Gear; Father John has some that might be very tempting.

(3) From Fred, W5NL: Telecon with Bob Ard. W5JME. Leaving April 27th for East Texas, Sabine River & a big fishing expedition (Catfish Country) with a big bunch of guys. Nightly sked at 7PM, 3845 KHz., plus or minus QRM. Short QSO's on his battery power only!! Bob just received the ARRL "Golden Jubilee Certificate (DXCC) for 100 countries. Asked him his opinion of rarest contact. QSL from 3Y2GV, Peter Island, Antarctica. Acquired by Norway 1927. Two Norwegians occupied the island for two weeks & logged 17000 contacts. Bob said "it was a very chancy contact".

(4) All the notes that I have on tap. Please be sure to vote (PRONTO) when you receive your ballot for our

National/International election. May I put in a plug for our very distinguished member Raymond Willis, W5ATO. As you are well aware Raymond is running for Director from Tombstone Territory. He will make a super director. We are all aware that Raymond attends many many ARRL & QCWA functions & would give his undivided attention as a Director at these important meetings.

Vy 73, Fred W5NL



#### O.I.D.A.R. NEWS NOTES

O.I.D.A.R. held its April monthly meeting on April 14. The first item of business was the treasurer's report. O.I.D.A.R. currently has \$36.86 in the bank plus the dues that were collected during the meeting. This amount was due to the required repairs at the repeater site and the \$26 for continued CORA membership. If anyone is still not receiving their C&E please notify me via telephone or the next meeting. The next item of business was a short discussion on weather nets in Oklahoma. Various members were still unsure as which repeater to monitor during a major storm. Several members mentioned the .82 machine in Oklahoma city as a possible source of vital weather information. With that topic beaten to death the club moved on to Lin Jackson (KASZJM) and her report on the upcoming Ponca City Hamfest. Lin reports that we have successfully negotiated an agreement with the National Guard for use of their facilities this year. The scheduled date for the Ponca City Hamfest will be Saturday Sept 19th. This will also coincide with the KAY COUNTY FAIR in Blackwell. Thus Hama could bring their spouses and kids, drop them off at Blackwell and continue on to the hamfest. So make plans to attend. Biz (WDBHCO) said he would be in charge of the flyers. I also made the statement that perhaps flyers this year would be a little more professional and would include maps to help people locate Ponca City as some hama had trouble finding it last year. The next order of business was elections of club officers. Elections were held and here are the results:

Club President	..... Lin	KASZJM
Vice President	..... Bruce	KASZKI
Secretary	..... Biz	WDBHCO
Treasure	..... Dave	W5LUI

After much cheering, carrying on's and high fives by the rest of the club, order was re-established and, except for an occasional SOB's from the newly elected officers, the meeting continued on with a small speech by Biz (WDBHCO) describing how as president of O.I.D.A.R. he has become one of the most beloved and respected hama in Ponca City. Well anyway, the last order of club business dealt with the antenna at the receiver site. It seems that the last wind storm had bent the antenna boom in half. Club members reported that O.I.D.A.R. was not the only one affected by the storm. The hospital in Ponca used to have a large tower the day before the storm but it seems to have disappeared the day after. Further investigation revealed the tower had indeed come down and was laying in pieces on the roof. The appropriate people were contacted, and permission to start an O.I.D.A.R. tower salvage operation was granted. Dave (W5LUI) organized the expedition and the crew took the hospital by storm. Among some of the items salvaged were 5 good tower sections, guywires, hardline coax, insulators, hardware and enough Decibel Antenna parts to put together at least 1 or 2 antennae. These items will be put to good use on the .81 repeater. The last order of business was to vote in Dennis Self (NO CALL) into the Club. Dennis had just passed his NOVICE test and was waiting for those folks in Galtysburg to get their act together. Congratulations Dennis on your new ticket. I hope you have as much fun with ham radio as I had here in Ponca. With that, the meeting was closed until next month.

Biz - WDBHCO



#### Minutes of April Meeting

Meeting was called to order at 10:15 a.m. by President Jerry, KD5IS, with four members and guests present. (Midwest City swap fest opened at 10.) Bob, W5HXL, gave the Treasurer's report and the CORA report. Bob, W5HXL; Carl, W5JJ; and Ellard, W5KE, prepared an announcement for Ham Holiday. It was sent to the amateur magazines with help from Jerry, KD5IS, and Joe, K5JB.

Motion was passed that all unpaid members be dropped from the rolls. (List of paid members was given to the Secretary for submission to WA5ZNF so the C&E mailing could be updated.)

Next month's club meeting will be a clean-up and throw-out session in preparation for the move to the new Red Cross facility. Meeting adjourned at 10:35 a.m. Joe, K5JB, Sec'y

#### ZNF Bounces Back

I guess the big news this month was Joe, WA5ZNF, getting messed up with heart problems again and having some plumbing work done to fix the problem.

Joe went into the hospital to get some congestive problems straightened out and they found some blood flow problems. Joe, never to be one to let a problem lie around unsolved, said, "Get in there and fix it!" Well, they did. Joe recovered nicely from the surgery and was home in about a week, wandering around the neighborhood for exercise. When asked if he wanted to postpone the C&E paste up to let some of the Dayton bound bunch work on it he responded, "Nah, let's move it up a bit so I will have a bit more time to work on it." He did concede that handling the bundles and mail sacks would be verboten so I figured the Dayton bunch and a few others would be able to mail the things. The only extraordinary plans are for Dave, WD5G, to type some of the rough looking stuff that is unsuitable for plate making and send it to me via packet for printing. Also, we will recruit some folks for the addressing, licking and sticking and packing of those big mail sacks off to the post office.

Joe you are a remarkable person!  
Glad you are as tough as you are!  
Joe, K5JB

#### OPRA Happenings

The following is extracted from a message KB0QJ sent to NK6K to advise him what the Oklahoma Packet Radio Association was doing:

ST NK6K @ WD5B NTSCA @ NK6K WX Packet Network (That is BBS talk)

Mr. Harold Price:

The Oklahoma Packet Radio Association, Inc. is in the process of installing a state-wide packet digipeater network to function in the event of civil emergencies, especially, weather related (as WX seems to be a prime culprit in tornado alley).

Much of the funds and equipment will come from corporate donors who care about public service.. OPRA has placed an AT&T 3B2 "MB UNIX V based computer at the National Weather Service Forecast Office (NWSFO) which will function as a menu-driven access to selected NWSFO products delivered from the NWSFO main-frame in near real-time using a C program still in the development process. The nodes will be equipped with the WABDED/W6IXU NET/ROM protocol to expedite dissemination. An option for the manual targeting of critical products to specific OK County Emergency Operating Centers (EOC) for immediate action will be included.

The total number of planned nodes is 22, however, the nodes now operational are limited to two areas: 5 nodes in eastern OK and 8 nodes in central OK. The two areas are not now linked, however the central nodes perform beyond our expectations. The incorporation of the NET/ROM protocol would greatly enhance throughput even now. This partial system is attracting much attention in Washington, D.C. at NOAA and NWS and in California at the NWSFO Office of the Regional Director.

If you would like more information, please return a message. But bear in mind that our system is yet incomplete and OPRA cannot offer other than trivial operational data. 73

J. Franklin Fields, Jr/KB0QJ  
President, OPRA, Inc.  
Bethany, OK

#### Message Maker

About a year ago some of the packet operators set up a demonstration to show how packet would do in handling traffic accurately. Stations were set up in the Oklahoma County Court House, two Red Cross Chapters, and in some individual's stations. Bob, AF5Z wrote a nifty message generator for the COCO. It was designed so a person wouldn't have to be intimate-

ly familiar with amateur radio protocol and could type in messages at prompts from the computer. At Frank, N5FM's suggestion, I looked into it and got a copy from J, KB0QJ. Since I don't have a COCO, I used the next best thing, a MS-DOS computer, to try it out. Here is the result. (Remember that my handy dandy printer changes "greater than signs" to "pipes", or vertical bars, so make those substitutions if you type it in.)

```
0 'FORMAL TRAFFIC GENERATOR BY BOB
  HELMS, AF5Z (MS-DOS version)
10 GOTO 1000
20 CLS:LOCATE 8,5:PRINT" H A M   R A
  D I O   M E S S A G E   C R E A T
  O R "
21 PRINT:PRINT"Creates messages for
  transmission by packet radio and
  printing
22 PRINT"by computer. A 'fill-in-
  the-blank' type format is used to
  allow
23 PRINT"typists unfamiliar with
  message format to generate
  radiograms in
24 PRINT"correct format. Messages
  are stored as ASCII text files on
  the disk
25 PRINT"for immediate transmission
  with the packet terminal software
26 PRINT:PRINT"Hit ENTER to view
  disk directory.":PRINT
35 INPUT"What is the number of the
  last message created";A$
36 IF A$="" THEN FILES:GOTO 35
40 B$=LEFT$(A$,1):IF B$<"0" OR
  A$|"9" THEN RUN ELSE
  NR=VAL(A$):T$(0)=STR$(NR)
50 CLS:LOCATE 10,5:PRINT" P R E S S
  E N T E R   F O R   N O   C H A N
  G E
51 PRINT:PRINT"Last ";F$(0);
  T$(0):X=-1:T$(0)=
  STR$(VAL(T$(0))+1):FL=0
60 IF X<9 THEN X=X+1:GOSUB 800:GOSUB
  900 ELSE 500
70 IF X=0 THEN PRINT"Input
  PRECEDENCE as Routine, Priority,
  or Emergency
71 IF X=0 THEN PRINT"(Put TEST
  before the PRECEDENCE on drill
  messages.)"
80 GOTO 60
500 PRINT:PRINT TAB(9)"* ENTER at
  end of each line. *"
501 PRINT TAB(5)"* ENTER on an empty
  line to end text. *":PRINT:
  PRINT"TEXT - "
510 GOSUB 850:IF FL THEN 550 ELSE
  510
550 PRINT F$(10);:LINE INPUT T$(X)
570 CLS
580 FOR Y=0 TO X-1
582 PRINT Y;
585 IF Y<10 THEN PRINT F$(Y);
590 PRINT T$(Y)
600 NEXT
610 PRINT X;F$(10);T$(X)
620 INPUT"Line number for line to
  edit or hit ENTER to save to
  disk.":A$
621 IF A$="" THEN 700 ELSE
```

```

L=VAL(A$):PRINT:IF L<10 THEN
PRINT F$(L);T$(L) ELSE PRINT T$(L)
630 PRINT:PRINT"" Re-ENTER line
correctly or ENTER to leave as
is.*"
631 LINE INPUT KB$:IF KB$="" THEN
570 ELSE T$(L)=KB$:GOTO 570
700 PRINT:PRINT"S A V I N G T O
D I S K"
701 OPEN"O",#1,MID$(T$(0),2,3)+
LEFT$(T$(1),1)+".OUT"
702 FOR Y=0 TO 4:PRINT#1,:NEXT:
PRINT#1,F$(0)+T$(0), F$(1)+T$(1)
703 PRINT#1,F$(2)+T$(2),F$(3)+
T$(3):PRINT T#1,F$(4)+T$(4),
F$(5)+T$(5)
710 PRINT#1,:PRINT#1,F$(6)+T$(6):
PRINT#1 ,F$(7)+T$(7):PRINT#1,
F$(8)+T$(8)
711 PRINT#1,F$(9)+T$(9):PRINT#1,:
PRINT#1,"MESSAGE TEXT:"
712 FOR Y=10 TO X-1:PRINT#1,T$(Y):
NEXT:PRINT#1,:PRINT#1,F$(10)+
T$(X):CLOSE
750 PRINT:INPUT"RETURN to generate
another message, Enter Q to
quit. ";KB$
751 IF KB$="Q" OR KB$="q" THEN END
ELSE T$(4)=LEFT$(TIME$,5):
T$(5)=DATE$:GOTO 50
800 PRINT F$(X);T$(X);:RETURN
850 X=X+1:LINE INPUT T$(X):IF
T$(X)="" THEN T$(X)="- -":
FL=1:RETURN ELSE RETURN
900 PRINT " ";:LINE INPUT A$:IF
A$="" THEN RETURN ELSE T$(X)=A$:
RETURN
1000 DIM T$(300),X,F$(11)
1005 RESTORE:FOR X=0 TO 10:READ
A$:F$(X)=A$:NEXT:T$(1)=
"Routine ": T$(2)="K5JB"
1006 T$(3)="Midwest City, OK":
T$(4)=LEFT$(TIME$,5):T$(5)=DATE$:
GOTO 20
1007 REM Change the last two lines
to suit yourself.
1010 DATA "MESSAGE NUMBER - ",
"PRECEDENCE - ","STATION OF
ORIGIN - "
1020 DATA "PLACE OF ORIGIN - ","TIME
FILED - ","DATE - ","TO - "
1030 DATA "ADR - " "CITY - ",
"PHONE - ","SIGNATURE - "

```

Both this version and the COCO ver-  
sion are on the K5JB PBBS.

Joe, K5JB

#### NET/ROM and TNC-3 at Trenton

Here is some information from the  
Trenton Computerfest that discusses  
some NET/ROM stuff and a new TNC  
called the TNC-3. I missed who the  
manufacturer is:

```

#: 33420 S9/Packet Radio
17-Apr-87 21:59:01
Sb: NET/ROM at Trenton
Fm: Tom Clark W3IWI 71260,3640
To: All

```

Last weekend was the annual Trenton  
Computerfest. The packet forum on  
Saturday was well attended. Thanks  
to help from W6IXU, we were able to

do a "show 'n tell" East-coast pre-  
miere of NET/ROM. Two nodes, W3IWI-5  
and W3IWI-10 were on the air from  
W3IWI's car in the parking lot (-5  
on 145.07 and -10 on 221.01). In-  
side, thanks to the efforts of  
WB2KMY, we had small stations on  
both frequencies. Following a des-  
cription of how it works, a demo was  
held. KMY's portable 220 station was  
cross-linked to 2M thru the IWI  
dual-port system, and was used to  
access the KA2VLP-3 RATS X.75/X.121  
network switch on 145.07 (running  
N2WX's latest code).

In turn KA2VLP-3 was used to link to  
the KB1BD PBBS on 145.07 (thru a  
total of three level 3/4 packet  
switches) and things worked quite  
well. The only anomaly noted was  
that KA2VLP-3, on connecting to  
KB1BD did not pass the original  
user's call thru, so it appeared  
that the BBS was connected to  
KA2VLP. Nevertheless, the perfor-  
mance was quite spectacular; Data  
thruput was about equal to what one  
would going thru one "normal" digi-  
peater.

I believe we can lay claim to two  
"firsts" from this adventure: (1)  
Proving that two radically different  
approaches to the networking problem  
(NET/ROM vs. X.75) can both co-exist  
and co-operate in the amateur world,  
and (2) Showing that a portable  
NET/ROM station can work well. I  
mention this latter item since,  
after the Baltimore train wreck in  
January, I have been concerned with  
ways to provide emergency packet  
communications from remote sites. A  
two-port NET/ROM setup could easily  
provide a temporary LAN at a disas-  
ter scene with a viable, no compro-  
mise way to establish communications  
onto a long-haul backbone network  
(on a different frequency) without  
having the usual "hidden terminal"  
problems. Total size of the W3IWI-  
5/-10 mobile NET/ROM setup was under  
1 cu.ft. and weighed about 10 lbs.

```

#: 55421 S9/Packet Radio
17-Apr-87 21:59:39
Sb: TNC-3 shown at Trenton
Fm: Tom Clark W3IWI 71260,3640
To: All

```

Trenton Computerfest last weekend,  
Alex Mendelsohn, AI2Q not only  
showed off his new TNC-3 but also  
handed out engineering samples to a  
few selected well-known packeteers.

The TNC-3 is quite compact (fitting  
within a 5" x 1.5" x 1.5" volume)  
and light weight. The biggest down-  
side to its physical appearance is  
the gaudy-awful yellow and red color  
scheme the developers chose for it  
(but what do you expect when the  
engineering development is done all  
the way out on Lung Eyelund).

Following the meeting, W3IWI, N4NY,  
N3CVL and KA9Q subjected the TNC-3  
to rigorous engineering tests, cul-  
minating in an examination of the  
modulation spectrum produced by the  
TNC-3 using our TMS320 Digital Sig-  
nal Processing capability. We found  
that the modulation spectrum had  
excessive odd-order harmonics pre-  
sent, indicative of excessive non-  
linear clipping. Despite its other  
obvious advantages we believe that  
the use of the TNC-3 on the air will  
cause a great deal of consternation  
amongst other amateurs with whom you  
are sharing the frequency. Caveat  
Emptor!

#### FAX on the COCO

Here is another message off of Ham-  
Net that might be of interest to  
COCO owners who might be interested  
in trying Facimile (FAX).

```

#: 55439 S9/Packet Radio
18-Apr-87 03:39:53
Sb: #55410-WEATHER FAX CHARTS
Fm: Wayne WA5WDB 76703,376
To: Arnie Podolsky KR8S 70150,461

```

Arnie,

You need 64K to use the WEFAX pro-  
grams that were previously men-  
tioned. We've got a description  
file for them in the DL-2 data lib-  
rary of the CoCo Forum (GO COCO) if  
you wanna look-see. That series of  
programs, since all of the decoding  
is done in software using the built-  
in cassette port of the CoCo, has  
been one of the more popular prog-  
rams I've seen.

Oh, forgot to add that you will need  
one (1) joystick, as well. Add  
another \$5-10 for one of those,  
used.

Wayne WA5WDB  
TandyNet manager

#### Look Up Them Packeteros

J, K8OQJ, and I have been playing  
with a way to quickly look up some  
of the packeteros by using a file  
version of the popular list that is  
floating around. I started it with  
a MS-DOS program and sent it to him  
to try on the COCO. He had to  
change a few commands and in the  
process figured out some ways to  
slicken up the way the thing worked.  
This version is the COCO one but it  
will run on the MS-DOS machines if  
you delete lines 10 and 20.

The program asks which field you  
want to search on and will yield  
records containing words beginning  
with the characters you entered.  
For example, for name if you enter  
J, it will return J, JACK, JOE,  
JOHN, etc.



I indented the long lines so you could see them. Enter them as single lines, of course. I will probably run this off on the printer that changes the "greater than sign" to a "pipe" (vertical bar). Make the substitution when you type it.

#### PACFIND.COCO

```

10 GOTO230
20 CLEAR10000
30 DIM U$(315,8):'u$(x,y) x=record,
  y=field
40 F$="CALL.SGN":X=0:Y=0
50 FOR I=0 TO 6:READ H$(I):NEXT
60 CLS:PRINT"Reading Disk File":OPEN
  "I",#1,F$:X=0
70 IF EOF(1)=-1 THEN HR=X:GOTO 110
80 INPUT#1,U$(X,Y):Y=Y+1
90 IF U$(X,Y-1)="X" THEN U$(X,Y-
  1)="" :Y=0:X=X+1:PRINT USING
  "###";X;
100 GOTO 70
110 CLOSE#1
120 CLS:PRINT"K5JB's Packet Operator
  Finder":FOR I=0 TO 6: PRINT I+1;
  :PRINT " ";:PRINT H$(I):NEXT
130 PRINT:INPUT "Which field do you
  want to search on (Q to quit)";
  FL$:FL=VAL(FL$):IF FL$="Q" OR
  FL$="q" THEN 250
140 IF FL<1 OR FL | 7 THEN 120
150 Y=FL-1
160 PRINT:PRINT "Which " H$(Y);
  :INPUT"are you looking for"
  :NM$:CLS:IF NM$="" THEN 120
170 X=-1:NL=LEN(NM$):NM$="":FOR I=1
  TO NL:IF ASC(MID$(NM$,I,1)) < 123
  AND ASC(MID$(NM$,I,1)) | 96 THEN
  NM$=NM$+CHR$(ASC(MID$(NM$,I,1))
  -32) ELSE NM$=NM$+MID$(NM$,I,1)
180 NEXT NM$:NM$=NM$
190 X=X+1: IF X=HR THEN 210: ELSE IF
  LEFT$(U$(X,Y),NL)=NM$ THEN 220
200 GOTO 190
210 PRINT:PRINT"None (or no more) "
  H$(Y)"found for "NM$". ";
  :INPUT"(RTN) to continue ";A$:
  :GOTO 120
220 PRINT:PRINT"Record ";X+1:PRINT:
  FOR I=0 TO 6:PRINT " " H$(I)
  "- "U$(X,I):NEXT
230 PRINT: INPUT"RETURN to search
  for another, or 'Q' to start
  another search ";A$: IF A$="" THEN
  PRINT:GOTO 190
240 GOTO 120
250 END
260 DATA "Call ","Name ","Town ",
  "24 Hour opr. ","TNC ",
  "Computer ","Notes "
270 PCLEAR1:FILES1,80:GOTO6

```

The following is an abbreviated version of the data file that J and I were playing with. To make a disk file that the program can use you need to either write a little program to prompt you for input and type in the data below or use a word processor that creates a plain ASCII text file. On the lines that were going to be too long for the C&E, I wrapped them around and indented the remaining line. Type all the data for each record on a single line

followed by a carriage return. Save the file to disk as "CALL.SGN".

The structure of each record in this file is the same as the DATA statements in the program: Call, Name, Location, 24 Hour Operation (and whether on .09), TNC type, Computer Type, and Comments. If all the fields are not used, a % ends the data for a record. We saved some file size by doing that. The commas are important, don't miss them! Also, the data was done in upper case for a reason. To speed the search, input is converted to upper case and the program only searches for an upper case match.

```

N5ABP,ROGER,CORDELL,%
WB5ADY,JIM,TULSA,%
WA9AFH,TOM,MIDWEST CITY,%
WD5AGY,WINK,CUSTER CITY,%
K5AJW,MAURICE,SW OKC,,KANTRONICS,
  COMMODORE,KENWOOD 9130,%
K5AMT,JB,OWASSO,YES,%
N5ANG,MIKE,PURCELL,YES .09,
  MFJ-1270,COCO,TS740A,%
WB5AOH,BOB,FORT GIBSON,YES,1,%
WB5AOH-9,DP,FORT GIBSON,YES
  .09,,,BBS,%
N5AKL,FREDDIE,OKLA CITY,%
N5AVV,JOHN,FARGO,%
AE5B,JOHN,?,%
KU5B,JACK,NORMAN,%
NJ5B,ARCHIE,LAWTON,%
N5BEZ,DEAN,SHAWNEE,,KANTRONICS,RADIO
  SHACK,KEN. TS-700,%
W5BLW,CHARLES,ARDMORE,,?,COCO,%
KA5BMS,LARRY,SULPHER,%
WA5BNZ,BOB,CLAREMORE,%
WA5BQX,BOB,EDMOND,YES,KANTRONICS,
  RADIO SHACK,7400A,%
WA5BQX-1,DP,CHANDLER,YES,TAPR TNC1
  (DED),7400A,%
KB5BS,BILL,TUTTLE,,TAPR TNC1,IBM
  CLONE,%
KB5BSH,COLIN,BYNG,,KANTRONICS,COCO,%
N5BUE,GEORGE,BARTLESVILLE,,AEA PK-
  64,COMMODORE,%
N5BUJ,BOB,EDMOND,YES,TAPR TNC2,IBM
  CLONE,ALIAS EDM,%
N5BVS,BERT,TULSA,%
W5BWN,CLYDE,%
N5BXS,SKIP,TULSA,YES,?,%
N5BYS,WALT,VINITA,,,ALIAS VIN,%
W3BX,GARY,BARTLESVILLE,,AEA PK-64,
  COMMODORE,%
AC5C,SHITTY,EL RENO,,AEA PK-64,
  COMMODORE,%
KJ5C,WANDA,WARR ACRES,,AEA PK-
  232,AMIGA,%
N5CFE,FRANK,SAND SPRINGS,%
NH6CJ,MIKE,LAWTON,,AEA PK-64,
  COMMODORE,ICOM 25H,%
KB5CL,PHIL,LAWTON,,AEA PK-64,
  COMMODORE,KENWOOD 21,%
WD5CLB,LEE,DUNCAN,%
WD5COS,DON,FLINT RIDGE,%
KD5CS,JACK,WAGONER,%
WA5CUJ,LEON,LAWTON,,AEA PK-64,
  COMMODORE,IC-721A,%
N5KCM,DAVE,NORMAN,.09,MFJ-1270,RADIO
  SHACK MODEL 100,%
NZ5D,CHARLES,NOWATA,,AEA PK-64,
  COMMODORE,%

```

```

WA5DBM,PAUL,TULSA,%
N5DEW,RON,EDMOND,,TAPR TNC2,%
WB5DIT,CLINT,LAKE KEYSTONE,%
WB5DJQ,CARL,HARRAH,YES,KANTRONICS,
  HEATH,%
KD5DL,STU,MIDWEST CITY,,AEA PK-64,
  COMMODORE,%
WA5DNV,LEROY,%
WA5DTL,KEN,OKLA CITY,,AEA PK-64,
  COMMODORE,TR-9000,%
WD5DTX,NORM,DUNCAN,,AEA PK-64,
  COMMODORE,TS-7850,%
KE5EA,DICK,LAWTON,%
NX5E,GEORGE,OKLA CITY,,AEA PK-64,
  COMMODORE,%
WB5EDN,LEON,OKLA CITY,,AEA PK-64,
  COMMODORE,7950,%
KA5EFJ,KEN,NORMAN,%
WD5EHU,DON,BROKEN ARROW,%
W5EJE,HAL,OWASSO,,HEATH HD4040,%
N5ENQ,DON,MIDWEST CITY,,PAC-COMM
  200,IBM,IC-2AT,%
N5ETU,AB,BETHANY,,AMIGA,%
N5EVZ,KEVIN,MWC,,MFJ-1270,IBM,%
K5EZD,CHUCK,CLAREMORE,%
N5EZK,BOB,CATOOSA,%
WB5FAJ,HOWARD,ARDMORE,,HEATH
  HD4040,COCO,%
WB5FBU,GARY,ELK CITY,,KANTRONICS,
  RADIO SHACK,%
N5FFL,CHARLIE,LUTHER,%
WD5FHR,DEE,EDMOND,%
WA5FLT,JOE,CALUMET,YES .09,TAPR
  TNC2,APPLE,TNC1-K5GGL,%
N5FM,FRANK,OKLA CITY,,?,COCO,%
WB5FMJ,KEITH,STILLWATER,%
N5FMP,LARRY,BURNS FLAT,,HEATH
  HD4040,T1000,%
WB5FRP,FRANK,NOBLE,,MFJ-1270,RADIO
  SHACK MODEL 4P,%
WB5FRV,DAVE,TULSA,%
WB5FWE,DAVE,NORMAN,,AEA PK-232,%
KD5FX,DAVE,PONCA CITY,,AEA PK-232,
  RADIO SHACK MOD 100,ALIAS PNC,%
WD5FZD,JOHN,ARDMORE,%
N5FZS,PAUL,TULSA,%
WD5FUE,ORVILLE,HUGO,YES,KANTRONICS,
  RADIO SHACK,%
WD5G,DAVE,MIDWEST CITY,,KANTRONICS,
  IBM,%
K5GBF,HAROLD,OKC,,KANTRONICS,MS-
  DOS,MIDLAND,%
K5GGL,GEORGE,OKARCHE,,TAPR TNC1
  (DED),HOMEBREW COMPUTER,%
N5GIT,PAUL,MUSKOGEE,%
K2GKK-5,MAC,DEL CITY,,PK-64A,
  COMMODORE,IC-2AT,%
W5GM,JACK,ARDMORE,,MFJ-1270,COCO,%
N5GMS,EDDIE,ROFF,,MFJ-1270,RADIO
  SHACK,KENWOOD 25H,%
KC5GN,BILL,EDMOND,,AEA PK-232,COCO,%
N5GQV,JOHN,TULSA,%
W5GYX,HUB,SHAWNEE,%
WB5HAK,DON,DUNCAN,,GLB PK1,%
WD5HCO,BIZ,PONCA CITY,?,%
WD5HCO-1,DP,PONCA CITY,YES,%
WD5HGL,LARRY,%
N5HJG,STEVE,NORMAN,,MFJ-1270,COCO,
  AZDEN 2000,%
N5HIP,PHIL,BETHANY,,MFJ-1270,
  COMMODORE,%
N5HIR,LEE,BETHANY,,MFJ-1270,
  COMMODORE,YL N5HIP,%
N5HHS,ROSS,NORMAN?,%
WD5HJL,BILL,WELLSTON,,HEATH
  HD4040,RADIO SHACK,%

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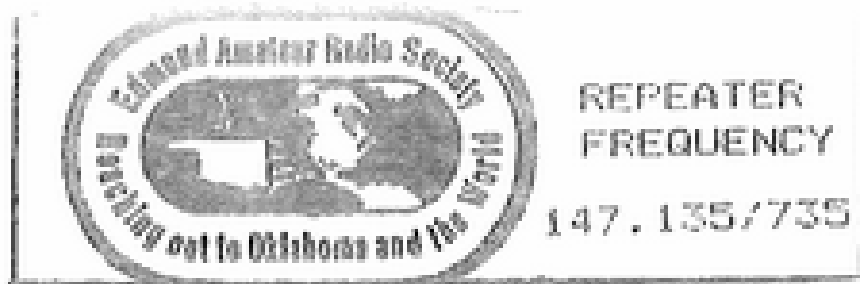


WBSHLR, DOUG, SALLISAW, YES, KANTRONICS,  
 COMMODORE, 7950, %  
 WSHLZ, LEE, MIDWEST CITY, YES  
 .09, KANTRONICS, IBM, ALIAS MWC, %  
 WASHPJ, NORM, SKMINOLE, %  
 WBSHWH, WAYNE, OKLA CITY, , AEA PK-  
 64, COMMODORE, %  
 N5H2R, MARK, NORMAN, YES .09, TAPR  
 TNC1, MS-DOS, N5H2R-1 ALIAS NORMAN, %  
 N5H2S, RON, NORMAN, , KANTRONICS,  
 COMMODORE, IC27H, %  
 N5H2U, HOWARD, NORMAN, , MFJ-1270, NEC, %  
 NX51, ARLIE, MOORE, %  
 WA51BU, LONNIE, BINGER, %  
 WA51JA, GENE, ARDMORE, , HEATH HD4040,  
 COCO, %  
 N51KN, TOM, EL RENO, %  
 N51LL, JIM, INDIANOLA, %  
 N51LR, T.J., NW OKC, , AEA PK-232, IBM  
 CLONE, %  
 WA51MO, JOE, VINITA, , AEA PK-80, T1000, %  
 N5INC, BERTHA, EL RENO, , , YL N51KN, %  
 WD91PX, J.T., OKLA CITY, , AEA PK-64,  
 COMMODORE, %  
 WD51RB, RALPH, VALLIANT, , KANTRONICS,  
 RADIO SHACK, %  
 KD5IT, DAVIS, NORMAN, , KANTRONICS, %  
 KD5IT-1, , NORMAN, YES, PBBS, %  
 K21YQ, STEVE, OKLA CITY, , ? OSBORNE, %  
 N51ZK, CAROL, NOBLE, , , YL WGSN, %  
 K5JB, JOE, MIDWEST CITY, YES, TAPR TNC2,  
 APPLE, IC-27, %  
 K5JB, JOE, MIDWEST CITY, YES, AEA PK-80,  
 APPLE, 146.415 PBBS (IC-27), %  
 WD5JCE, ELDON, ATOKA, %  
 N5JDP, ROY, WEATHERFORD, %  
 N5JFG, STEVE, ELK CITY, %  
 N5JFQ, STAN, OKLA CITY, YES, TAPR TNC2,  
 APPLE, 146.415 PBBS (IC-22S), %  
 KA5JFT, MIKE, BETHANY, , GLB PK1, %  
 KC5JJ, PHIL, HARRAH, , KANTRONICS, CP/M, %  
 N5JKN, TOM, POTEAU, YES, , , PBBS, %  
 N5JMG, RALPH, KREBS, , KANTRONICS, APPLE,  
 TR-7850 ALIAS MCL2, %  
 KD5JR, BILL, WOODWARD, , KANTRONICS, %  
 K8JRH, TOM, MWC, , AEA PKT-1, %  
 KD4KB, AL, OKLA CITY, , , IC-2AT, %  
 WA5KBJ, JACK, TULSA, %  
 KP5KC, WAVE, LAWTON, %  
 N5KCV, DAVE, NORMAN, .09, MFJ-1270, RS  
 MODEL 100, %  
 WOKIE, MIKE, TULSA, , KANTRONICS, LEADING  
 EDGE, %  
 KESKR, JACK, OKLA CITY, , MFJ-1270,  
 COMMODORE, %  
 KA5KTD, JOSEPH, OKLA CITY, , AEA PK-64,  
 COMMODORE, %  
 KD5KV, BOB, BETHANY, , TAPR TNC2,  
 COMMODORE, %  
 KD5KV, BOB, EUPAULA, YES, , AEA PK-64,  
 COMMODORE, ALIAS EUP (LAKE HOME), %  
 KD5KX, MIKE, OWASSO, , , T1200HD, %  
 K5LDI, TOM, S.E. OKC, , TAPR TNC2, COCO, %  
 K5LDL, GLEN, EL RENO, %  
 K5LGW, JIM, CLINTON, YES, KANTRONICS,  
 RADIO SHACK, %  
 WD4LPU, CLIFF, YUKON, YES, AEA PK-64,  
 COMMODORE, KDK-2016, %  
 WM5LUI, DAVE, PONCA CITY, %  
 WA5LVT, DP, TULSA, YES .09, , , ALIAS  
 TRO, %  
 NW5H, BILL, MUSTANG, %  
 WGSN, PAT, ANADARKO, %  
 W5MCP, REX, OKEMAH, %  
 WBSHPU, LARRY, LAKE KEYSTONE, YES, TAPR  
 TNC1, APPLE, %

DP, NO, MIKE, NORMAN, , TAPR TNC1, DUMB  
 TRKM, KANTRONICS HT, %  
 KCMHW, RAY, TULSA, %  
 NV5N, FLOYD, TULSA, , AEA PK-64,  
 COMMODORE, %  
 WGSN, WARREN, NOBLE, %  
 WBSNBA-1, DP, ADA, YES, , , ALIAS ADA, %  
 WA5NOQ, WILL, OWASSO, YES, KANTRONICS,  
 T1000, KEN, 4800 ALIAS OWA, %  
 WA5NKT, WARD, COLCORD, %  
 KA5NVX, ROSS, YUKON, , GLB PK1, DUMB  
 TRKM, %  
 N5NW, CLAY, TULSA, %  
 KD5NX, JAY, SHAWNEE, , AEA PK-64,  
 COMMODORE, TR-9000, %  
 WA5NZM, JOHN, TULSA, %  
 KD5OB, CHARLIE, TULSA, %  
 K5OK, CECIL, OKC, , MFJ-1270, APPLE 2E, %  
 N5OK, COY, CLAREMORE, YES, MFJ-1270, IBM  
 CLONE, FT-227, %  
 W50OF, GEORGE, CLAREMORE, , AEA PK-232,  
 T1000, TR7950, %  
 KB0OU, CAL, OKLA CITY, %  
 WB5OVT, ROD, GAGE, , AEA PK-64,  
 COMMODORE, %  
 WU5P, MARSHALL, NORMAN, YES .09, MFJ-  
 1270, IBM, %  
 K5PBG, JOHN, TULSA, , KANTRONICS, APPLE,  
 FT-221, %  
 K5PL, DAVE, NORMAN, YES .09, %  
 K5POW, LEWIS, VINITA, , AEA PK-64,  
 COMMODORE, %  
 WB5PQC, BOB, MOORE, , KANTRONICS,  
 COMMODORE, (FT-208), %  
 WB5PWY, NWS, NORMAN, YES .09, MFJ-1270,  
 AT&T 3B2, %  
 NW5Q, MAJOR, OKLA CITY, , AEA PK-64,  
 COMMODORE, %  
 WA5QDZ, BUD, TULSA, , AEA PK-80, , IC-  
 251, %  
 WBOQIR, DAVE, PONCA CITY, , MFJ-1270, %  
 KBOQJ, J, BETHANY, YES, TAPR TNC1  
 (DED), COCO, %  
 WB5QOZ, CHARLES, YUBA, %  
 WB5QYG, CLYDE, MCALESTER, %  
 WB5RAG, JOE, DEL CITY, , AEA PK-80, HEATH  
 FT-480R, %  
 WB5RAP, FRED, PURCELL, , AEA PK-64,  
 COMMODORE, %  
 KP5RD, PETER, TULSA, %  
 WA5RDG, BRIAN, SHAWNEE, YES .09, HD-  
 4040, COCO, %  
 WA5RDG-1, DP, SHAWNEE, YES .09, , , 5 ele  
 beam at NWS, %  
 W5RFX, RUSS, ARDMORE, %  
 KA5RKZ, SUE, MCALESTER?, %  
 WB5RRR, SANDY, ENID, YES, TAPR  
 TNC2, APPLE, %  
 WB5RRR-1, DP, POND CREEK, YES, GLB PK1, %  
 KB5RV, LES, CHOCTAW, %  
 WB5RZX, MONTE, NORMAN, .09, PAC-COMM  
 200, COMMODORE, %  
 KE5SA, JOE, ADA, , KANTRONICS, C-128, %  
 KD5SZ, BUD, ANADARKO, %  
 NF7T, GLEN, PURCELL, YES .09, , , ALIAS  
 PUR, %  
 KA5TDA, MIKE, MOORE, MFJ-1270, %  
 WB5TEX, DALE, TULSA, %  
 WB5TFH, CLIF, , , SEE N5OK, %  
 N5TH, DAN, TULSA, , TAPR TNC1, %  
 W5TQZ, HERB, TECUMSEH, YES .09, HEATH  
 HD4040, RADIO SHACK, KDK FM-240, %  
 KA5TSD, MIKE, DEL CITY, , ? COMMODORE, %  
 WB5TTU, RON, HUGO, YES, KANTRONICS, IBM  
 CLONE, %  
 W5UD, NICK, EL RENO?, %

N5KFN, STEVE, ?, %  
 WA7UIB, LARRY, ENID, YES, MFJ-1270, APPLE  
 2C, %  
 KE5UL, RON, ?, %  
 KA5UPH, CHAS, NORMAN, , AEA PK-64,  
 COMMODORE, IC27A, %  
 KX7V, RICK, ENID, , AEA PK-80, APPLE, %  
 W5VDM, MOORE, %-WA5VMS, JOE, MUSKOGEE, %  
 KB5VP, DON, TULSA, , MFJ-1270, APPLE, %  
 WA5VPO, BRUCE, CHELSEA, , AEA PK-80, IBM  
 CLONE, TR7950, %  
 WB5VRJ, BOB, LAWTON, %  
 W2VQS, FRED, MWC, YES, PAC-COMM 200,  
 IBM CLONE, PCS-2000, %  
 WB5VST, BEN, TULSA, %  
 K5VVD, LARRY, CHOCTAW, , MFJ-1270,  
 HEATH, IC2AT, %  
 KB5VX, PHIL, CARNEGIE, , , APPLE, %  
 WB5VXK, LOYD, TULSA, %  
 KE5VY, TONY, TULSA, , HEATH HD4040, %  
 KF5VY, BILL, ROFF, , MFJ-1270, IBM  
 CLONE, KENWOOD, PBBS EX N5JZT, %  
 WU5W, ANDI, MOORE, .09, MFJ-1270,  
 HEATH, YL N18W, %  
 N18W, STEVE, MOORE, .09, MFJ-1270,  
 HEATH, %  
 KD5WA, LOUIS, NORMAN, %  
 KA5WAV, TOM, %  
 KA5WBX, DEB, PONCA CITY, , TAPR  
 TNC1, ?, YL WN5LUI, %  
 K9WIC, JOHN, MWC, , HEATH HD60, IC-2, %  
 KA5WIS, LEE, EDMOND, , AEA PK-64,  
 COMMODORE, %  
 KA5WLB, JOHNNY, ADA, , KANTRONICS, %  
 KA5WRG, DUANE, %  
 N5WX, PBBS, TULSA, YES, , , N5WX-1 N, %  
 WT5X, MASON, BYNG, , KANTRONICS,  
 COMMODORE, EX N5IHF, %  
 KB5XN, JIM, TUTTLE, , TAPR TNC1, COCO, TR-  
 7950, %  
 WGSY, DALE, CLINTON, , KANTRONICS, RADIO  
 SHACK, %  
 WJ5Y, RON, WALTERS OK, , AEA PK-232,  
 T1000, ALIAS WAL, %  
 WA5YDF, ED, OKLA CITY, %  
 KA5YED, BOB, LAWTON, , AEA PK-64,  
 COMMODORE, %  
 KA5YHZ, LARRY, ANADARKO, , MFJ-1270,  
 COCO, AZDEN 2000, %  
 KD5YO, BILL, BOSWELL, , KANTRONICS,  
 COCO, %  
 WB5YTO-1, DP, RUSH SPRINGS, YES .01 &  
 .09, KANTRONICS, , ALIAS RUSH, %  
 WB5YWO, JIM, STILLWATER, %  
 WM4Z, MYRON, TALEQUAH, %  
 NJ5Z, JOHN, TULSA, %  
 WA5ZAA, AT&T, OKC, , KANTRONICS, %  
 WA0ZBL, HAYES, WICHITA KS, %  
 KA5ZJM, LIN, PONCA CITY, , MFJ-1270, %  
 W5ZKK, GLENN, SALLISAW, %  
 WA5ZNF, JOE, MIDWEST CITY, , MFJ-1270,  
 COCO, H-2036, %  
 WBOZVQ, BILL, HOLLISTER MO, , , ALIAS  
 HOL, %

You should see a bunch of numbers  
 running across your screen as the  
 data is read into the array. When  
 it has it all, it will come up with  
 a menu. If you accidentally quit  
 the program you can restart it with-  
 out having to read in all the disk  
 data again by typing "GOTO 120". On  
 the PBBS, this version is called  
 PAKFIND.COC. The MS-DOS version is  
 called PAKFIND.BAS. J6e, K5JB



Have you been listening?

Been keeping your EARS open? If you have you know that the RC 850 controller has been installed and is working great. Once we have all the bells and whistles up and going it will be even better. Even though the 850 is in and working we still need the pledges that were made early this year. Not all of the pledges have been received as of this date. We need your pledges to complete the repairs to the repeater.

Speaking of the repeater I would like to take this opportunity to thank everyone for their time and effort in the installation of the new controller. Many hours were put in by many. Especially Bob N5BUJ head of the technical committee.

EARS also has the HF rig at the club station up and running. Classes are now in progress. For training on the new HF rig as well as the rules and regulations of the EOC. KASYPX (XYL) and myself were checked out on it a few days ago. It is a very easy rig to learn. Don't miss out! Classes won't go on forever. Get checked out NOW!!! Call Larry N5IXV 341-9364, Ken N5DBM 341-4874, or A.C. KASWGV 341-8120 to set up a time and day for your class.

The club roster is obsolete already. It seems that as soon as one gets printed up and passed around that we have to revise it. (we really don't mind though) We have a new member from down Bethany way. Keeping the club roster up to date is one chore that KASYPX enjoys to the fullest. If you don't think so just wave money her way and she will have you filling out the C&E slip before you can blink an eye. EARS membership is well over the century mark and still growing.

Big EARS, little EARS we are all EARS. In case you have deaf ears I'll fill your ears with words worth hearing. Did

you know that this year EARS will be 30 years old? Yes 30 years ago EARS was started with only 6 charter members. Boy how we have grown. What are we going to do to celebrate? We want your ideas. Call your freindly board members and bend their ears with your ideas. Let's do it up BIG this year. I think it is some thing to celebrate!!!

By the time you read this the big softball game between EARS and SCARS will be history. But would like to tell you about our recent practices. They went well with only minor problems of security's inability to control the crowds of fans. Many new career changes were in the works after interviews with the many Major League scouts. Brinks has been contracted to provide transportation and security for the uniforms. Price-Waterhouse will be on hand to handle scorekeeping. Seriously though I'm sure fun was had by all.

The club patches (logo) are on order and should be here some time this month. The patches will be \$2.00 each. Anyone wanting to purchase patches please contact Edith KASYPX call 348-2961.

We still have a few people with their membership dues, due. To protect your standing with EARS please remit them now. We value your membership and hope to keep you a member.

We recently had a weather spotting class presented by Rick Tasetano KB5BPQ. It was well very infomative. Many members were able to attend and enjoy the program. Many thanks Rick.

EARS will have it's next business meeting the third Sunday in May, the date is the 17th. There will be a program on packet radio presented by Jay Fields K8OQJ from OPERA. This should be a very interesting presentation. Be sure to attend and learn more about packet.

Field day will be here before you know it. What band or bands or mode do you want to operate? Where are we going to hold field day?

Good Advice -- don't... YOUR children disregard but save to give to their children.

Being economical is a way to spend money without getting any fun out of it.

There is a story about Gary Player, the pro golfer, blasting the ball out of a bunker and into the hole. "That was lucky," remarked a spectator. "Yes," replied Player. "But, you know, the more I practice, the luckier I get."

Sign in travel agency window: "Please Go Away."

The Joy of Being the C&E Editor

If we print jokes or cartoons, people will say we are silly. If we don't, they complain that we are too serious.

If we print material from other sources, we are too lazy to write it ourselves.

If we don't publish contributions, then we don't appreciate true genius. If we do print them, its full of junk.

If we make a change to the other person's writing, then we are too critical. If we don't, then we are asleep.

If we are not sure whether or not people are reading the paper, all we need to do is make a mistake; then we get many calls from avid readers.

Now, likely as not, someone will say we swiped this from another publication. WE SURE DID!

Thanks to the South Bay ARC, ARC-OVER

---

When is field day?  
What is field day?  
What do you do at field day?  
How much fun is field day?  
For answers to all your questions contact Cal K8OOU call 751-3620. Let's get prepared and win field day this year.

Do you have something to say or write? Write it up and I'll put it in the C&E. Your articles are most welcome. 73 to all Lee KASWIS

BOOK REVIEW - THE ART OF LOAFING  
BY THE STAFF OF ANDERSON-KNIRKO LOAFING CORP.

THE ART OF LOAFING: Paperback (not only do we have paper back, we also have a paper front.) The cover is genuine toilet tissue, three-ply for extra strength. At least this part of the book has utility. Just look over the contents as described below.

Frontpiece: Not only do we have a frontpiece, we also have a backpiece.

Chapter 1: Our explanation of loafing, and an explanation of the illusion many have that, upon retiring, he is qualified to loaf. Dissipels this incorrect conception. Explanation of our motto: "You have to work to loaf."

Chapter 2: Loafing for money. Sixteen services performed for the client while loafing. Discussion of charges for loafing.

Chapter 3: How to stay awake while loafing. Six sure fire methods.

Chapter 4: Four letter words. When and where to and when not to use them. Examples: Ain't, Gosh, Darn, etc.

Chapter 5: Methods of ignoring client's spouse and children.

Chapter 6: SEX. Every author has to, it seems, include a lot of sex to make the book sell. As far as we are concerned, sex is the number between five and seven.

Chapter 7: Gamma Factor. How and when to apply the Gamma Factor to loafing. (Ha! Ha! So you thought you knew how to loaf! Then what is the Gamma Factor as applied to loafing? (Boy, are you dumb?))

Chapter 8: DeLuxe Loafing as compared to Ordinary Loafing. Charges.

Chapter 9: What to go if you have to go.

Chapter 10: Conclusions. How to arrive at. We arrived at ours here.

Chapter 11: There is no chapter 11.

Rearpiece: Aha! An A-W Extra. Not only do we have a frontpiece but also a rearpiece.

Appendix: Lee had his out many years ago, and the doctors tell us that Andy's is so small it couldn't do anyone any good.

Bibliography: We're not quite sure what this means, but if it's good, we'll include one for nothing, you can bet on that.

PLUS -- A special chapter on emergencies, included without charge. Such things as "What to do if the boss comes home and finds you in the liquor cabinet" "What to do if the boss catches you fast asleep!" "What to do if you get the hiccups at the dinner table and thirty three more situations."

Watch Our TV Show. It's on Channel 94.

SPECIAL NOTICE: This book will be on sale just as soon as Andy writes it, and Lee gets it printed. Watch for details in the Manchester Guardian. Or try the London Times. Try anything.

REMEMBER: No one will call you (Thank Goodness.) Write, don't call (Please do not disturb Andy, he might be awake and writing the book.)

\*-ARNS-

Well, the summer season has come and that means high noise levels and lousy conditions on the lower HF bands, i.e. 40 and 80 meters. However, occasionally you can still work a little DX on these bands on those rare occasions when the QRN lets up a little.

The last week in May was just such an occasion, and a very interesting propagation condition happened on 40 meters. Let me describe what happened and my subsequent analysis, which may not be correct.

Now on 40 meters, I have a rotatable dipole at 85 ft. and an extended double Zepp at 60 to 70 feet. On May 26 at 0200Z I was tuning around the low end of the band and heard several small pileups. It was Eastern Europe coming through and many hams in the U. S. were after them. I switched to the Zepp which favors the NE and tuned up. I couldn't hear a single one! Oh, the U. S. were strong but the DX was all but nonexistent!

Now, this is not a common thing at my QTH on 40. Usually, in that direction the Zepp will do the job very nicely. I changed to the dipole, turned it broadside to the NE and lo and behold, the DX was 10 over 9! I quickly worked an OE a YU and a 4X4.

I then switched back to the gain antenna, tuned up again, and again could hear nothing. Now these antennas are not that different in height so I thought that something must be wrong with the Zepp. I even went out and examined the feed line with a light but the fact that it loaded as usual made me think that it wasn't broken. Very queer that two antennas so close in height could behave so differently.

About a week later, I was thumbing through the ARRL Antenna Book and possibly found the answer. The measured angles of received signals in NJ from England on 7 Mhz are mostly between 10 and 35 degrees above the horizontal. If this happened to be one of those rare times when the signals were coming in from a high angle, near 35 degrees, it might explain the results. Let me elaborate a little.

The dipole at 85 ft. on the tower is mostly over the house. The Zepp is strung in trees over some low spots in the back yard and averages about 1/2 wavelength up. From the curves in the Antenna Book, a horizontal wire up 1/2 wavelength has strong radiation at 35 degrees and a null straight up. Whereas a horizontal antenna at 3/4 wavelength has a deep null at 40 degrees and is way down at 35 degrees. Now 3/4 wave is 40 meters is about 100 ft. but remember what I said about the dipole being over the house. The ground under the house has been protected from the enormous amount of water we have accumulated of late and the other antenna was over very wet and lower ground. At any rate, I think that something like this is the answer because a couple of days later, on the 30th to be exact, the Zepp was 5db better than the dipole in a QSO with England.

All of this just goes to prove that no antenna is a cure-all and sometimes we all need a little surprise to teach us a wee bit more about propagation.

73 and Happy Hamming,

Doc, W4YZZ

# kay

**APRIL MEETING NOTES**-We had a good turnout for the April meeting to see the packet radio demonstration put on by Lin, KA5ZJM. A big thanks to her for bringing out her packet station and setting it up. I've had lots of comments from folks about it, and we should have a few new packeteers in town before long.

Marsh still has some club hats and will bring them again to the next meeting. Bring some cash along with you to buy one. Speaking of cash, your dues are over due! That is, if you haven't paid for 1987. Steve and I will be changing the autopatch codes very soon and those that have paid will be notified.

**MAY MEETING**-The annual election of officers will be done at the next meeting. It will begin at 7pm out at the Vo-Tech building. Remember, this will be the last meeting until next September. N5JJR is trying to set-up a tour of the Channel 18 TV station for us. Stay tuned to the Monday nite .97 net for more details.

**PUBLIC SERVICE EVENTS**-We gotta ton of 'em comin' up! We must be doing a good job, 'cause we sure are getting alot of requests! Let's keep up the good work! We have TWO on May 16th. The March of Dimes needs two of us at the Pioneer Bank parking lot at 8 am and the Okla. Petroleum League needs a group of at least six out at Lake Ponca for a 10K run that starts at 8 AM! That means we better have the trailer out there along with our group by 7 in the morning! (Does the sun come up that early on Saturdays?)

June will be very busy also, there is a Triathlon on the 6th at Lake Ponca and the Raft Race on the 20th out on the river. I will have more details on these at the next meeting and on the Monday nite nets. We sure could use some more folks checking into the nets on Mondays. In July we have the Ponca Grand Prix, this is a two day event, the 4th and 5th. N5HIC, Paul will need our help around the track so plan on being there at least one day of the two, or better yet, be there both.

**DX**-If you haven't turned your HF rig on for awhile because you thought nothing much was going on, you're missing it! DX is on it's way back! We have passed through the sunspot

minimum and are into the next solar cycle! 20 mtrs is open all night long again many nights! Even 15 and 10 mtrs have had the DX rolling in! Dust off the HF rig, fix up the ole antennas and work some HF again!

Well, that's it for this month. I'm filing this article by Packet again via K5JB and the WA7UIB Packet Bulletin Board. If you're not on packet yet, you sure are missing out on alot of interesting goings on.

Dave, KD5FX

ONE OF THE MOST MISUSED words is the word "average". It is often confused with "mean". The difference is this: If five products sell for \$2, \$3, \$5, \$8 and \$67, the average price is \$17. The median, or mean, price is \$5, the \$5 price being the middle price—two prices are higher and two are lower. The average of a series may or may not be the middle.

Ann was eight months pregnant. Stopping at a filling station for directions, she said, "I don't know where I went wrong, but I'm trying to get to Mercy Hospital." The attendant replied, "I don't know where you went wrong either, but if you drive ten blocks straight ahead you'll get there."

## CYNOAK PRINTING

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728-3610

**WE'VE MOVED!**

## "A L L" About Antennas

For you antenna buffs:

Aside from physical damage, the most common fault in antenna systems is low resistance to ground. Moisture in the system (i.e., impedance matching networks, coax and coax dielectric breakdown all cause varying degrees of shunting resistance and must be guarded against if maximum efficiency is to be expected). Testing is accomplished by using a "megger" or if one is not handy, a simple one ohm meter will suffice.

Theoretically, any transmission system should read infinity on the "megger", but this reading is not always possible to obtain. Abrupt changes in the weather, high humidity or other natural causes often result in low resistance readings. Often resistance may be raised by cleaning the insulators. The coax and other cables used to connect the equipment should also be tested. A check of continuity of the antenna transmission line should be made periodically. The following values are suggested:

1. A resistance of 200 megohms or more to ground indicates that the antenna system is in good condition.
2. A resistance of 5 to 200 megohms to ground indicates the insulators need cleaning or the coax is contaminated with water.
3. A resistance of less than 5 megohms to ground indicates that the antenna system is in bad shape and an urgent need exists to locate the low resistance point and correct it.

The Virginia Star

The trouble with being punctual is that no one's there to notice.

## DON'S RADIO

AND WEST TEXAS GUANO MINING COMPANY

(formerly OLD DON)

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## Q. R. Zedd

### JUST A CHIP OFF THE OLD BLOCK

I guess it was back three months or so when some of the staunchest admirers of our own great Q. R. Zedd learned that his pending offspring is sure to be a chip off the old block.

Zedd, holder of our only 1x1 callsign, A5A, and the world's best DXer and all-around wonderful person, had let a few of us into the hamshack at Honor Roll Ranch, just a hoot and a holler south of town, to watch him work the Peter 1 Island DXpedition a few dozen times. Well, of course that was a great thrill, because the magnificent one worked 'em on all bands, all modes, all frequencies, and then sent a few signals out to Jupiter and back so those guys down there could get the thrill of working his delayed space echoes, and the half-dozen of us in the portable bleachers there in the shack at Honor Roll were throbbing with sheer joy at being allowed to be witnesses.

But little did we know, as Zedd rolled back from the No. 1 operating position and reached for his latest gift can of latakia pipe tobacco (a gift from that king over there someplace who's a ham) -- little did we know, I say, that epochal family events were just around the proverbial corner.

When what to our wondering ears should come but the clatter of Caddies in the hallway, and what to our wondering eyes, etc., should appear but Tondelayo herself, the darling girl, rather obviously with child and wearing an insouciant maternity frock of the most demure pink, which happened to match the excited color of her cheeks.

The faithful will recall that Tondelayo, nee Schwartz, longtime nubile, blond QSL secretary to Zedd and his constant companion on such trips as the activation of Atlantis some months back, is also the cutest graduate in the history of the Harvard Business Col-

lege, the official sweetheart of the South Canadian Amateur Radio Society, and Southwest Packet Queen of 1987 ("the girl we would most like to connect with.")

Tondelayo enters our story here, however, because she entered the hamshack that evening and quickly gave all of us enormously important news... news that would lead to an even more earth-shaking revelation only moments later.

Which gets us back to our plot, which is a good thing, because a few little digressions are one thing, but this has gotten ridiculous.

Anyway:

"Q!" squealed the darling girl. "Oh, Q! Our baby is stirring!"

Zedd finished lighting his oom-paul. "Stirring what?" he demanded through the acrid cloud of smoke issuing from the latakia, which, as pipe buffs know, is made from the finest aromatic tobacco roasted patiently in a tent over smoldering camel dung.

"How can he be stirring?" the great man went on with inexorable logic. "He ain't got no spoon."

"I mean," Tondelayo blushed, moving closer, "I can feel him in there! He is rolling around and bumping me and thumping and I don't know what all!"

"You mean," Zedd cried, coming out of his chair, "our son has started making his presence known?"

Tondelayo again blushed from all the attention. After all, as cute as she still was, she had begun to resemble a sandwich bag with a watermelon in. "I feel him! I can almost hear him!"

Zedd sprang to an equipment cabinet and pulled out a spare microphone (a Shure Model # CM17L, for the technical-minded), plugged one end into an audio amplifier, and held the business end up close to Tondelayo's tummy.

Sure enough, at once all of us in the room heard sounds of gurgling, thumping, and bumping coming from Mommy's middle.

We were not only transported with happiness, but virtually relocated.

We listened, rapt, to the sounds coming over the speakers in the hamshack. They sounded strong, happy, irregular, fraught with

obscure meaning.

"THUMP!" came the sounds. "THUMP-TI THUMP! TI TI THUMP THUMP TI TI!"

"Good gravy!" Zedd screamed. "Listen to that!"

"THUMP TI THUMP TI! THUMP THUMP TI THUMP!"

"THUMP TI THUMP! THUMP TI TI! THUMP TI TI THUMP! THUMP THUMP THUMP! THUMP TI! TI THUMP TI TI! THUMP TI THUMP THUMP!"

We still didn't get it. But Zedd did.

He ran to the operating position and turned the monitor on full-blast on one of the ten transmitters, and reached for the Bencher. His fingers flew, and the sound of his CW sidetone almost knocked us off the bleachers.

It was awfully fast, but W5MCJ got it down on his Big Chief tablet. He passed it around for all of us to read:

"Hello son U R 599 599 N A5A K"

A pause, and then back from Tondelayo's middle:

"THUMP TI TI! TI THUMP! THUMP TI TI! THUMP TI TI! THUMP TI THUMP THUMP!"

I tell you. It was, as the kids would say, totally awesome.

But why were we so surprised?

What less could we expect? Genetics -- as Homer Klott might say -- is genetics.

--KUSB

*Democracy is based upon the conviction that there are extraordinary possibilities in ordinary people.*

HARRY EMERSON FOSDICK

### YOU'VE BEEN TERMINATED

When a lawyer is removed from his job, he is said to be Disbarred. A priest is Defrocked. But, wonders Chuck, what about other careers?

Oo electricians get Delighted, musicians Denoted, cowboys Deranged, models Deposed and judges Distorted?

Are mediums Dispirited, Far East diplomats Disoriented, office clerks Defiled, bankers Disinterested, politicians Devoted and wine merchants Deported?

Is a baker Unrolled, a school teacher Degraded, a song writer Decomposed, a podiatrist Defeated, a printer Depressed, a maestro Disconcerted, a detective Dissolved and a florist Deflowered?

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