

SECOND CLASS MAIL

Postmaster, see page 3

**THE BIG SIGNAL**  
OKLAHOMA CITY AUTOPATCH  
ASSOCIATION, INC.

It's hard to think of thunderstorm-type weather on Super Bowl Sunday. The wind is cold and blustery, there's ice on the bird bath and spring must be weeks away. Yet it is possible we could have severe thunderstorms in a few weeks. Is your radio equipment ready? Are you ready? Stay tuned - here's how to get you and your equipment ready.

First, to get YOU ready: Please attend the Autopatch Club's annual "Weather Meeting" Tuesday, Feb. 19, at 7:00 P.M. at 800 N. Portland in OKC. This meeting is recommended for ALL hams who wish to participate in the Severe Storms Warning Net. Talk-in on 146.82.

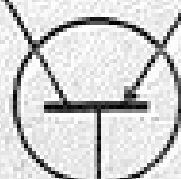
At this meeting, meteorologists from the National Weather Service in Fort Worth and Oklahoma City will discuss what thunderstorms are made of and how tornadoes form in them. You will learn to distinguish tornadoes from other weather phenomena. You will learn that all "circulation" is not tornadic, and how to tell which is which. You will learn the conditions Mother Nature brews for the formation of tornadic thunderstorms and be able to recognize them as you watch weather forecasts on the morning news.

Luminaries from the local TV and Radio weather news media will be present to explain why it is so crucial that we have trained spotters reporting from the field. Radar has made giant steps in improvements over the years but it still can't SEE tornadoes.

Weather net personnel will instruct us on net procedures such as how to check in to the net, how to report your location, how to report what you see and, last but not least, HOW TO REMAIN SILENT WHEN THERE IS NOTHING TO REPORT.

After the instruction period, all are encouraged to take a simple test about weather and tornado spotting. Those who attain a passing score will receive an OCAPA Skywarn Certificate and Spotter Certification Number.

CENTRAL OKLAHOMA RADIO AMATEURS  
**COLLECTOR AND EMITTER**



50¢

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Second, getting your EQUIPMENT ready: Naturally, you will want your two-meter xcvr to be in top-notch condition. If you have UHF equipment for the 440 Mhz band, get it ready too. If you're thinking of going mobile, keep your car's fuel tank above half full at all times. Check out your mobile VHF antenna system and the power cables for the xcvr. Get rid of that alternator whine your friends keep telling you about.

Make sure you have a Central Oklahoma WEATHER SPOTTER'S COORDINATE MAP in each car you are likely to drive. Carry an extra map in your briefcase, purse or lunch kit. Keep your handle handy with a spare battery pack well charged. And even if you have no plans to participate in a net, you may be needed in the emergency that could follow a tornado strike, so have that equipment ready.

Third, some points about tornado spotting in the field: If you find yourself in extreme danger, I'm sure I don't have to remind you to think about "Old Number One," yourself. Don't try to be a hero with that camera or net report. GET DOWN. Also, please don't take your wife and kids along for the fun. A few distractions at the wrong moment and you could be in big trouble. Don't drive onto unpaved roads after a rain. You may get stuck in the path of a killer and NEVER come back. And please, report only what YOU see, not what you heard someone else report on some other frequency or band. Don't foul up the net with information you can't confirm.

Here's hoping for another relatively quiet season in "Tornado Alley."

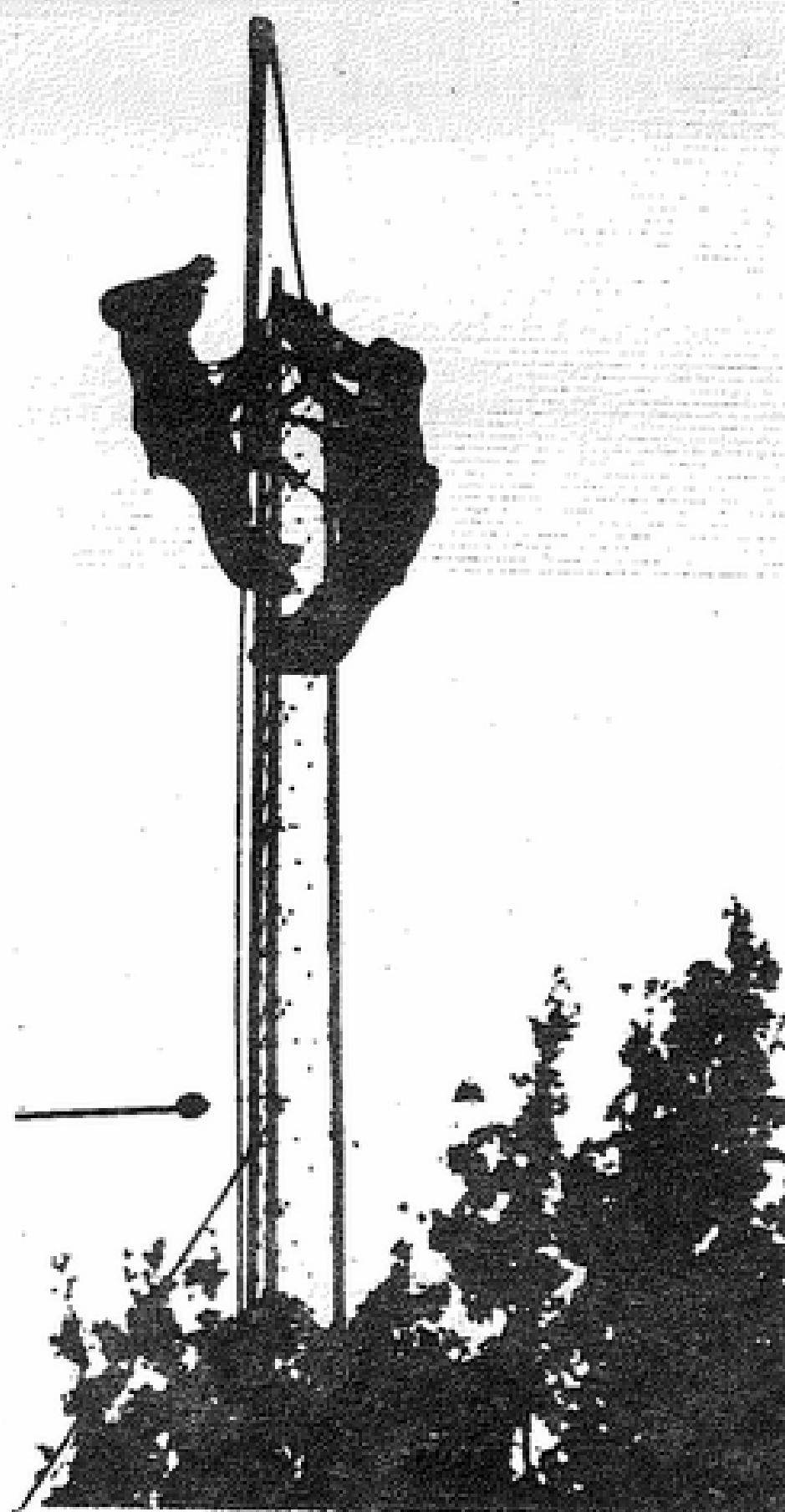
Notes for OCAPA members: Is your membership up to date? Autopatch access codes may be changing soon. If you don't get a card or letter with the new codes from the club you may now be current with your dues.

PATCH USERS NOTE: Remember to give your call either BEFORE hitting the hang-up code or AFTER the repeater voice says "call complete." Anything said immediately after pressing any tone button will not be heard because the controller mutes the input audio or covers it with tones. A number of "anonymous" patches are made daily because of this oversight. Remember, make sure your call is heard after using the patch - one of those guys in the gray cars may be listening.....

While speaking of identification, it might be worthwhile to editorialize briefly on this subject:

The FCC issues these call signs and the rules for using them so we can all play the same game. At present, there is no requirement for giving your call at the beginning of a "communication," but it must be given at the end of each communication and at intervals of ten minutes or less during the communication. (Reference Part 97.84.)

Unfortunately, there seems to be too much "forgetfulness" on the part of some operators who suddenly pop into a contact and then depart without ever



KDSWA and NSMS or is it NSMS and KDSWA at 40 feet. See story on

## Q. R. Zedd

### ZEDD MAKES ATLANTIS FAMOUS

SOMEWHERE IN THE ATLANTIC -- The fabled, eagerly-awaited Dxpediton from the lost continent of Atlantis began right on schedule on January 9, and ham radio history was made.

Conceived and carried out by Q. R. Zedd, A5A, world's greatest DXer and all-around nice person, the Atlantis Dxpediton achieved many memorable things, including the following:

**FIRST UNDERWATER OPERATION BY A DXPEDITION.** Zedd and his fellow operators made 21,211 valid logbook contacts in their six days of operation, all from a site more than 700 feet below the surface of the South Atlantic.

**FIRST LOST CONTINENT ACCEPTED FOR DXCC.** Atlantis, lost for thousands of years, was accepted for DXCC credit by the American Radio Relay League in a special emergency meeting on January 9, only hours before A5A/ATL went QRZ.

**FIRST SPECIAL UNDERWATER COMMEMORATIVE STAMP OFFERING.** Zedd took with him several hundred special first-day stamps and envelopes, and sent them off for early delivery of QSL cards by shooting them out of a torpedo tube of the U.S.S. Yagi, a United States nuclear submarine which served as underwater headquarters for the amateur radio group.

Atlantis, as faithful readers already know, was discovered late in 1985 by the famed Jacques Cousteau. In his nightly QSO with Zedd on 75 meters, Cousteau mentioned his discovery of the continent fabled since the time of classical Greece. Zedd, seeing the true significance of the event, immediately laid on the DXpediton.

The amateur radio group led by Zedd departed Portsmouth, England, around Christmas, and after storm delays reached the secret Atlantis site on January 7. Further storms delayed operations for two days.

With Cousteau's deepsea submersible charting the route, the Yagi stood by off a vast and antique city on the shore of the lost continent in 665 feet of water on January 9. Zedd, his constant companion Tondelayo Schwartz, and a reporter for the Oklahoma Collector & Emitter left the submarine the following afternoon and, in full scuba gear, explored the fabled

central city of Atlantis.

Crumbling silver towers, some more than two hundred meters high, looked down upon golden streets and avenues now tarnished and broken by centuries of undersea storms. In an eerie half-light, Zedd swam among the ruins of pagan castles and monuments of untold antiquity. After lengthy exploration, he radioed back his first message to those waiting on the Yagi, and the other ships on the surface:

"Okay, guys, send us out a bunch of copperclad, that antenna buoy, the 930 in its plastic bag, a big battery, a couple of logbooks, a weighted cardtable, and some of that Coors. We're going QRZ.

"Oh, and you might send out another tank, too. Tondelayo just ran out of air and she don't look too good."

Zedd, of course, was first on the air as soon as his feedline, draped over the shoulder of a large statue of some ancient Hellenistic warrior, was all hooked up with the capacitive couplings through the plastic bags.

First contacts were made with southern Europeans, and by the time the other operators were out of the sub and nicely weighted down at their respective operating positions, the pileups were hot and heavy on all bands. The U.S. started coming in nicely on 20 right after Zedd got the first homebrew linear going.

Underwater currents prevented an ecological disaster. Cousteau had worried that heating from the linears would harm local sealife. But with the currents providing adequate cooling, curious dolphins and sharks appeared unharmed as they circled the operating site, occasionally taking a playful nibble of somebody's elbow.

There were, however, minor technical problems. W5NUT's special canned ice tea sipping device failed during the first hour of operation, and only inspired improvisation by technical adviser N5MS saved the Shawnee legend's powerful tonsils. Tondelayo's bikini top fell off and despite intense attention to the problem by all the other DXers, the broken snap never did get repaired properly, with the result that there were constant repetitions. Momma Zedd's Bencher sprang a leak and sent bubbly noises for hours, and the baggie around the No. 2 linear got a hole in it, resulting in QRP operation from that operating position.

The DXpediton went QRT late on the afternoon of January 14. The last station worked was W5LFX, but it was his sixth



## ALTUS AREA AMATEUR RADIO ASSOCIATION

The Altus Area Ham Club held its regular monthly meeting Thursday, January 9th at 7 pm at the North Main Fire Station.

In attendance were Mac KB5FLG, Dwight WB5KRH, Loren WA5CBF, Ida Ruth and Oliver WA5OGC, Jim KB5LS, Clyde W5ZDI, Herb N5PQR, Jack KA5KPS, Ann KA5WDY and Ann and Mike W5VXU.

The major item on the agenda was the election of officers for the Club for 1986 and after considerable discussion, Ann KA5WDY, nominated Dwight and Mike for President and Secretary for a second term, seconded by Loren. It was then proposed by Clyde, seconded by Ann that the nominations be closed. Both propositions passed overwhelmingly.

Dwight announced that there would be a weather training session in Wichita Falls at MidWestern College, Feb 22 at 9 am and also in Altus Auditorium on Tuesday Mar 4 at 7 pm, but this date is still tentative.

Clyde asked about the possibility of organizing some sort of program for future meetings and after some spirited discussion it was decided to draw on local club resources and talents in setting up some various short 15 minute programs. About the items talked about were: Teletype Theory, Metal Working, Traffic Handling, etc. Details will be worked out as we go along but it looks like Mike will be presenting a short session on traffic handling, Ham vs MARS, at the next meeting.

Toward the end of the meeting it was announced that six members had paid their renewals for the following year. Several more are expected before too long. All members should remember that from now on we take dues at the beginning of the year.

contact and Zedd thought that was too greedy even for a DXer, so he took him out of the log.

Exhausted by their hard work deep under the sea, all members of the DXpediton returned to the Yagi, where a message awaited them from the president. A few hours later, under a balmy tropical moon, the submarine surfaced beside Cousteau's Calypso, and Zedd and his pals went aboard the surface ship for a debriefing and good old fashioned country hoedown. Willie flew in to entertain, and said he was real proud to be invited.

Tondelayo never did get her thingamajig fixed. --KU5B

# THESE CORA MEMBER CLUBS PROMOTE AMATEUR RADIO

## 1 AERONAUTICAL CENTER ARC

MEETS: FIRST THURSDAY, FLIGHT STANDARDS

BUILDING, FAA, S. MACARTHUR

PR JACK INAM, WBSVM 677-8537  
VP TOM MANGHAM, KSLDI 677-5291  
SE GLORIA SEIGNIOUS, WDSJPM 722-1740  
TR BOB PACE, WASCJ6 376-3569  
EDITOR: GLORIA SEIGNIOUS, WDSJPM 722-1740

## 2 CENTRAL OKLAHOMA VHF CLUB

MEETS: 10:00AM THIRD SATURDAY, RED CROSS.

10TH & HUDSON (BACK DOOR) OKLA CITY

PR JERRY WETHORE, KDSIS 524-5080  
VP PAT SHERILL, NSPS 943-3219  
SE JOE BUSWELL, K5JB 732-0676  
TR ELLARD FOSTER, W5KE 789-6702  
EDITOR: JOE BUSWELL, K5JB 732-0676

## 3 MID-OKLAHOMA REPEATER, INC

MEETS: 8:00PM FIRST TUESDAY, OKLAHOMA CIVIL DEFENSE  
WILL ROGERS BLDG., STATE CAPITOL

PR DOC BOWERS, KXSN 942-7738  
VP TIM REUSCHER, KAMUG 848-9910  
SE MIKE SAMBUCCO, KASTSD 672-9176  
TR SID GERBER, WSKOI 737-1050  
EDITOR: MIKE SAMBUCCO, KASTSD 672-9176

## 4 OK CITY AUTOPATCH ASSN.

MEETS: 7:30PM THIRD TUESDAY. OKLA CITY FIRE

TRAINING CENTER, 800 N PORTLAND

PR DON ROOKER, NOSH 721-2119  
VP DON ROYNDERS, WDSISS 721-0404  
SE CHAS HOFFERBER, NSFNU 340-4468  
TR P HERNANDEZ, NSGRI 354-9724  
EDITOR: DON ROOKER, NOSH 721-2119

## 5 OKLAHOMA UNIVERSITY ARC

MEETS: 7:30PM SECOND TUESDAY (SEP-MAY)

119 WILSON CENTER, 1334 S JENKINS

PR LUKE MOAM, KASBAY 325-1775  
VP JOHN MUSTENBERG, KESN 325-2382  
SE PETER RICHESON, KASCOI 329-3217  
TR GREG SMITH, KASLZN 366-1641  
EDITOR: GREG SMITH, KASLZN 366-1641

## 6 ALTUS ASSOCIATION

MEETS: 7:30PM SECOND THURSDAY

NORTH MAIN FIRE STATION (CD) ALTUS

PR DWIGHT DENNIS, WBSKRH 482-2498  
VP  
S/T MIKE SCHENKLE, WSVIU 482-1797  
EDITOR: MIKE SCHENKLE, KBSXN 482-1797

## 7 BICENTENNIAL (76ers) ARC

MEETS: 7:00PM SECOND TUESDAY. OG&E BLDG.

SE 3RD & E. K. GAYLORD BLVD.

PR DONALD DUCK, AESN 691-4199  
VP TED VANLANINGHAM, WDSJNT 262-1675  
SE JERRY SPROUL, NSAUH 354-2061  
TR TOM WEBB, WA9AFM 737-6716  
EDITOR: JIM SEALS, KBSXN 381-2005

## 9 WHEATSTRAW ARC

MEETS: 2:30PM SECOND SUNDAY. LOCATION VARIES.

SEE CLUB SECTION FOR DETAILS.

PR MARVIN STOKES, W5JHB 893-2221  
VP VIRGINIA BENEDA, NSEMD 825-3302  
S/T GEORGE MASCHINO, K3GGL 263-7614  
EDITOR: RICHARD RUHLE, WDSGLD 375-4843

## 19 OKLA INDEPENDENT AR

MEETS: 7:00PM SECOND TUESDAY

SOUTHWESTERN BELL OFFICES, PONCA CITY

PR DAVE WHITE, WNSLUI 765-5707  
VP VERNON TREIBER, NSANV 767-1571  
SE GLEN BISHOP, JR, KASPB 767-1031  
TR BIL WICHY, WDOHCO 762-3297  
EDITOR: DOUG EVERITT, NSDUB 359-0069

## 11 EDMOND AMATEUR RADIO SOCIETY

MEETS: VARIES. SEE CLUB SECTION FOR DETAILS

PR KEN STEPP, N5OBM 341-4874  
VP BILL DEMAND, KSSKA 751-5137  
S/T BILL WRIGHT, KC5GN 341-6076  
EDITOR: BILL DEMAND, KSSKA 751-5137

## 12 QUARTER CENTURY WA

MEETS: QUARTERLY AT VARIOUS PLACES.

NET: 3855 kHz SUNDAY AT 8:00 AM.

CHM ROBERT RUNYON, AA00 373-1818  
VCH GENE NAILEN, K5DLE 341-8289  
S/T HOWARD BAKER, WSAS 721-5453  
EDITOR: ROBERT RUNYON, AA00 373-1818

## 13 KAY COUNTY ARC

MEETS: 7:00PM THIRD THURSDAY

PONCA CITY EOC

PR PAUL DAVIS, NSHIC 765-2227  
VP DAVE LAND, KDSFX 762-8616  
S/T RICK LONG, KE5XY 767-1871  
EDITOR: RICK LONG, KE5XY 767-1871

## 14 CIMMARON ARS

MEETS: 7:30 PM THIRD THURSDAY. NSFUD RADIO SHACK

827 S 13, FAIRVIEW

PR STEVE SCHOONMAKER, NSFUP (405) 886-3274  
VP BILL SIMPSON, NSHOK (405) 883-5523  
SE NADINE PAINTON, NSFMM (405) 764-3599  
TR BETTY DAY, KASRTW (405) 227-3462  
EDITOR: JACK DAY, NNSZ (405) 227-3462

## 15 SOUTH CANADIAN ARS

MEETS: 9:30AM SECOND SATURDAY. RED CROSS BLDG.

NORTH DU CAMPUS. NORMAN

PR JEFF WYKE, KE5EB 329-6762  
VP FRANK RIZZO, W2OCM 321-2899  
TR MONTE BATEMAN, WBSRIZ 329-7485  
SE LINDA BRANDT, WSDWN 321-5081  
EDITOR: DAVIS EGLE, KDSIT 321-7570

## 16 EDMOND AMATEUR RADIO CLUB

MEETS: 7:00PM SECOND MONDAY. SEE CLUB

SECTION FOR LOCATION AND TYPE

PR MARK NORTHCUTT, WDSOYI 755-4672  
VP BOB MOORE, KASETA 799-1765  
S/T KAY NORTHCUTT, W5OYJ 755-4672  
EDITOR: MARK NORTHCUTT, WDSOYI 755-4672

## 17 CP/M USERS

MEETS: 6 TO 10 PM, SECOND THURSDAY

OSU TECH. ROOM 307

PR JIM WHITE 364-5289  
VP BILL SKIPPER 946-8180  
SE ELAINE WEAVER 495-4089  
TR JOY MELTON 789-0280  
EDITOR: BILL SKIPPER 946-8180

## 18 GREAT PLAINS ARC

MEETS: 7:30PM FIRST TUESDAY

WOODWARD PUBLIC WORKS BLDG.

PR WINDLE HATCHETT, W5PLW (FT. SUPPLY) 766-3561  
VP LEWIS PATTERSON, WSKFK 256-2111  
SE LOIS FORD, KASPYA 923-7683  
TR FREIDA PATTERSON, N5EOX 256-2111  
EDITOR: LOIS FORD, KASPYA 923-7683

What have you done for ham radio today?

## 20 ARDMORE ARC

MEETS: 7:30AM 2ND SATURDAY. CORRAL RESTAURANT

IF INFORMAL: EVERY WEDNESDAY, 221 9TH NW

PR GENE SOUTH, W5IJA 223-8252  
VP HOWARD ROBINSON, W5FAJ 223-5726  
SE JIM CHILCOAT, W5JCK 226-6816  
TR JOHN MERLYN, WDSFZO 223-9543  
EDITOR: JACK GANT, W5GN 223-2619

## 10 COCO

MEETS: 9:00AM SECOND SATURDAY, RED CROSS BLDG.

NW 10 & HUDSON. DUES \$10.00 PER YEAR

CH BOB PACE 376-3569  
VC BOB HELMS 733-3429  
S/T KAYE DERRYBERRY 681-0461  
EDITOR: KAYE DERRYBERRY 681-0461

## CENTRAL OKLA RADIO AMATEURS

MEETS: 7:30PM FOURTH TUESDAY. RED CROSS

BLDG. 10 & HUDSON OKLA CITY (BACK DOOR)

PR DON SAUNDERS, WDSISS 751-0404  
VP JIM BUSWELL, W5BEO 236-0368  
SE KATHY WHITED, W5NBO 799-1457  
TR SUSAN ST LAURENT, W5GVK 324-8180

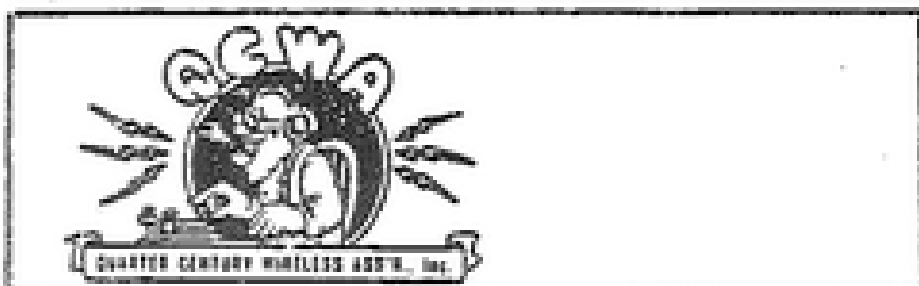
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EDITOR: Joe Harding, W5ZNF 737-1044  
CIRCULATION: Bob Graham, WBSNSV, 677-8685

Just think, even YOU can be an author. All you have to do is write what you think, longhand, with crayon or whatever you have. We will print it if it isn't too rank.

I bet that you could sell an ad for the C&E. They are just 45c a square inch. Business cards are only \$30 a year. Try it.



#### Birthdays for February 1986

01 Tommy Stinson	W5OZE
02 Leland W. Smith	W5KL
02 Harry Gartsman	W6ATC
05 Rilla Bolger	YF-W5AXM
08 Fern McKinzey	YF-W5YPN
12 Red Maier	W5RDE
16 Charlotte Cochran	YF-W5CXE
17 Jerry Broudy	W5MCJ
21 Dorothy Engle	YF-W5NDJ
21 John McCawley	W5OFG
24 Mary Bryan	K5PBE
25 Betty Wood	YF-W5NUT

(Howard noted on the bottom of this list "No SILENT KEYS as time of this mailing" Amen Howard! .-ed)

Please note the absence of the time-honored reference "XYL" to denote someone's wife, and the substitution of "YF" in its place. Several years ago, W5JJ suggested to me that the abbreviation "YF" might be more appropriate for such uses. I agreed with him then, and started using YF in my own conversations and writing. However, when I started editing this column, I reverted back to the XYL on the understanding that the more traditional nomenclature was preferred. The January 12 on-the-air meeting changed my mind, so from here in it's "YF" for this column. (.ed)

#### Chapter 63 Traffic Report for December, 1985:

SESSIONS	5
CHECK-INS	200
TRAFFIC	24

Howard has reported two new members of Chapter 63. I know 'em both, and can certainly vouch for their sterling qualities. They are:

W5FMX, Thomas V. Woody, 2517 N.W. 63, Oklahoma City, OK 73112. Telephone 842-1663

W7LOU, Robert Boswell, 3308 S.E. 89, Lot 156, Oklahoma City, OK 73135. Telephone 799-1432.

Please welcome our newest members, and add them to your club roster.

W7LOU has been checking into the Sunday morning meetings on a regular basis. Bob is one of

the FAA "retreads" working under the O.U. contract as an instructor at the Academy. He is also running the 10:00AM Saturday swap-meet on the .82 repeater in Oklahoma City.

W5FMX is an old friend to many of us from many years. Woody has been hung with the moniker of "anchor clanker" by several of his friends, chief of whom is W5HXL. The nickname should be a tip-off that Woody comes from an illustrious (and downright interesting) U.S. Navy career. Woody is also an amateur archeologist of some note, and has been on many digs.

Both joined us in early January 1986.

The foregoing was written in advance of the first quarterly meeting on January 19, 1986. Since then, the meeting has come and gone. With the exception of Fred's copy immediately following, the remainder of this column was produced the evening of January 19, following the meeting. Fred handed me the following copy at the meeting, so it is first:

FOREST PARK, OK (NL) Jan 18'86: Writing this on the eve of our Jan 19th meeting at Kirkpatrick Center- which I trust will be covered in some detail by Robby, AA00. The catered dinner (Dub Adams Catering Service), the hopefully short program, and a tour of the Air Space facility plus some attendees to the Planetarium (Halley's Comet show) holds much promise of a super meeting. The tallied attendance this evening is fifty-nine (59). We were very sorry to learn that Mr. Clarence Page suffered a hip fracture on Wednesday the 15th. (Mr. Page is 89 years young, and understandably the fracture slowed him down some, so he could not attend our function. .ed) We all wish Mr. Page a speedy recovery & we shall all miss him at the meeting. Mr. Joe Cunningham (W5PUJ) of Tulsa, and "Public Relations Director" for the Air Space facility will speak at the meeting proper, & guide us through the museum.

As promised, the election was concluded this afternoon (Jan 18) with votes tallied by Messrs George Lagaly, W5NTL; Melvin Bolger, W5AXM; and Howard Baker, W5AS. The results as follows: Chairman, Robert Runyon, AA00; Vice-Chairman, Gene Nailon,

K5DLE; 3 Directors, Elmo Black, W5JCB (1986-87); Norm Wilson, W5FLO (1986-87); and Donald Bowers, KX5W (1986). Incumbent officers are Sec/Treas. Howard Baker, W5AS (1986), and Director Larry Watson, W5EIU (1986). Speaking for the membership we extend strong hands of welcome and a pledge of support to our new administration. With this support, Chapter 63 can and will grow in stature and enhance the amateur radio community. I offer these as not idle words; growth will not happen unless we all contribute something along the way.

Personally, I have enjoyed the past two years as your/our outgoing Chairman/President and promise our new administration "Active Support". Perhaps I voiced a kind of "Broken Record" plea much TOO OFTEN for more C&E input from our membership. This plea was incere but did not seem to have a magnetic effect. Perhaps 1986 will be different!! Just a thought - perhaps the ladies of our membership (Ladies Auxilliary - if we need one?) is an idea for the future! The pen is "mighty" - bet our YL's have some great ideas to present.

(signed) Fred Boardman, W5NL

Here is an addendum from Fred:

#### "SPLINTERS"

Have some items this month that possibly fit the "Trivia" category that our news editor utilized recently. But, just to make things different and follow the FORUM theme of our column/s in the C&E, wanted to try "Splinters" as, maybe, being more appropriate!!

(1) Back in 1984 (can't remember which issue) Melvin Bolger, W5AXM provided an explanation for the use of HAM as applied to radio amateurs -- as having a British flair, is the cockney pronunciation h'amateur, and shortened to HAM-ateur. A backup comes via K2VJ, Vince Luciani in his book "Amateur Radio, Super Hobby". He also says "one version has it coming from the old British cockney pronunciation of amateur as "h'amateur or h'am. Whatever the basis, we have come to accept the name and do not consider it derogatory". Congratulations Mel, you have verification!

(2) From this same book "this half-century of international  
CONTINUED NEXT PAGE



cooperation in amateur radio has forged a chain of human brotherhood between all those who, by inclination or through dedication, have devoted or are devoting a substantial portion of their leisure time to seek human contact over continents and seas, and beyond differences of language, nationality, religion, and political systems". Hon. Mohamed Mili, Past Secretary General of the ITU.

(3) We do not see "monkey wrenches" too often these days - although many versions, perhaps. However, from a rather ancient tome "One Thousand Secrets of Rich and Wise Men Revealed, C.A. Bogardus (1898)." A monkey wrench is not so named because it is a handy thing to monkey with, or for kindred reasons. "Monkey" is not the name at all, but MONCKY. Charles Moncky, the inventor of it, sold his patent for \$2000, and invested it in a house in Williamsburg, King's County, N.Y.". The invention date was not given.

(4) P.S. Wanted to prove that Robby, AA00 can, and will, accept File Zero copy in almost any form. Some may remember when the "Palmer Method" of writing was in vogue (20's & 30's). Anyhow it did not take in-so-far as my chicken scratching is most evident.

73-Fred, W5NL

That's pretty good stuff Fred. Keep up the good work O.M.!!

Here is a short account of the quarterly meeting:

The proceedings commenced promptly at 12 noon in the Hall of Fame room in the Air Space Museum, which is, in turn, in the Kirkpatrick Center, N.E. 52nd and North M.L.K. (Eastern). There were 59 QCWA members and guests in attendance. A fantastic meal was catered by the Dub Adams organization. The brisket was tender enough to cut with a fork! At about a quarter of one a short meeting was commenced, even though some of us were still eating.

Ralph Rea, W5AA, opened the meeting with a prayer, and Chairman Fred Boardman, W5NL, lead the group in a the Pledge of Allegiance to the Flag, and then handed the gavel and the Chair to this writer. Gene Nailon, K5DLE, incoming Vice-Chairman was introduced. Norm Wilson, W5FLO and Don

Bowers, KX5W, incoming Directors were introduced. Elmo Black, W5JCB the other new Director was not present, but was acknowledged in absentia.

Self-introductions were made around the room, and guests were introduced.

Special recognition for the work of the outgoing administration was made. Thanks Fred and Ray, for your loyal attention to the Chapter.

Vice-Chairman Gene introduced our guest (and host) for the afternoon, Mr. Joe Cunningham, W5PUJ. Joe was to have been a kind of "second" to Mr. Clarence Page who was scheduled to be our main speaker. However, Murphy's Law was at work, and last Wednesday, Mr. Page suffered a broken hip and couldn't make our meeting. Mr. Cunningham is the Public Relations Director for the Air Space museum, and is most knowledgeable about the place. After a short introductory talk, and an even shorter question and answer session, we adjourned to a Joe Cunningham guided tour of the facility. We had to back up a bit before the tour, however. In the excitement of receiving the gavel, and all the introductions, I had forgotten to recognize Sec/Treas. Howard Baker, W5AS, with not only his quarterly report, but the official election results. We got Howard worked in, and then got the tour under way.

By then it was about 1:30, and a large group of us had booked seats for the 2 o'clock Halley's comet show at the Planetarium. Murphy's law was at work again, and a number of us didn't make it to the show in time. (They load the place for about 5 minutes, and the C-L-O-S-E the doors). However, it was mostly fairly smooth, and the Planetarium show was simply super. I learned all I needed to know, and then some, about that astronomic phenomenon.

A couple of interesting ideas have come from our brief encounter with the museum. One is a suggestion that we return for subsequent meetings. The Board of Directors will be taking that matter up at their next meeting. More on the other matters as they develop.

W5AA reminded us of the International election coming up, and the fact that long-time Chapter 63 member Raymond Willis, W5ATO, is a candidate

for International office.

I'm quite sure I've omitted some important matters in this report, but I got so interested in the proceedings that I forgot to take notes. Perhaps one of the first things the Chair ought to do is to appoint a dependable note taker for the quarterly meetings...

I had some ideas for a kind of "state of the chapter" piece for this month's column, but couldn't get it all hung together. With your permission, we will delay in that department until I've had a chance to consult with the Board concerning some of the problems and/or projects we might need to work on during 1986.

George Bunce, W5DKC, has been the Net Control Station for the Sunday morning weekly on-the-air meetings for 70 weeks. He got into the NCS business kind of by default when a number of stations were unable to hear Fred, W5NL. George has turned in an outstanding performance at the helm, often under exceptionally difficult conditions. On one occasion, George was on the road, and used the station of a friend in the Tulsa area to call the net. We all owe W5DKC a big vote of appreciation... Thanks George.

After consultation with W5DKC, we are going to try to use the AA00 station for NCS duties, with W5DKC as backup, and KX5W as backup to the backup. Not having operated in a net environment for quite a long time may prove interesting. So, please have patience while I get it sorted out.

Needless to say, I'm following a class act in this endeavor, so try and not make too many comparisons.

#### BROAD-BAND 80-METER ANTENNA

For November, Amateur Radio shows a cage-plus-reactive section antenna thats nearly flat across the whole 80-meter band. A following article treats a number of antenna tuners. Add to this a number of photos and articles on very old radio gear, and you have an interesting and informative issue.

W5JJ

Super Bowl XX is over and the best team won, but did you know that the first football game was "broadcast" by CW from Texas A & M in 1921. William "Doc" Olsen did it.

## GREAT PLAINS A.R.C.

W5HGH Repeater 146.13/73

### 1985 RECAP

The year 1985 for the GPARC had a very busy beginning. Our new Club President Gerry, NC5C, at the suggestion of Wendle, WA5PLW, our outgoing President, appointed a committee to work on and revise our Club Constitution and By-Laws. One feature of the proposal formed a Board of Directors. The club as a whole was asked to review the committee's presentation and make any recommendations which were to be written up and presented at the next monthly meeting. The new Constitution and By-Laws were accepted and immediately put into effect. A Board of Directors was formed consisting of the existing officers and two new members to be elected at large from the membership. The Board has been a very successful addition to the club. Members inducted into the club over the year were: Myron Lusk, N5HRA; John Wright, N5AVV; Bill Wyatt, KD5JR; Larry Ellis, KQCI and David Rogers, KA5VAY. Members lost during the year due to moving were Jim Phares, K5YZK and James Rockhold, N5HLJ.

Myron Lusk, N5HRA, became the Area ARRL Assistant Technical Coordinator and also replaced James, N5HLJ, as Northwest Oklahoma Service Net Manager. Myron also busied himself as a Novice Class Instructor. Myron and Harry, KC5OU, have also installed and have operating a 10 meter repeater in our area. N5HRA has definitely been of great value to our club within the past year.

Bill Wyatt, KD5JR, better known as "Radar Billy", has also continued to be a very valuable asset to our club and various communities are functioning as Co-ordinator of the Severe Weather Storms Center. His knowledge of the radar and weather instructions to the club have been very outstanding and of quite notable substance. His work and that of his crew have afforded our area with a very valuable and dependable service. A special thanks goes to Ron, WBOPGD and Carla, WB0QGW- I know you're out there somewhere- for their hours and hours of work at the radar site. We were proud to recognize the work of this outstanding couple at our Christmas Party by honoring them with Certificates of Appreciation. More will follow on these folks in next month's article.

Many things happened throughout the year. O. C. Elfers, WA5OUV, presented Gordon, NR5L,

with a Certificate of Appreciation for his work in the V.E. Program and to Gerry, NC5C, for his efforts with upgrade classes. The Gage Marathon was once again a success due to the outpouring of volunteers who participated. We also provided communications for the Special Olympics and Woodward Harvest Days Races. It goes without saying that our Eye Ball QSO was once again the social event of the year. It's success was due to all the hard work done by the entire club. We are very fortunate to have a club that puts forth such a dedicated effort. Everyone should pat yourself on the back for this one. Remember though that "A club that works together - - works together!!! April 13 is the date set for the 1986 Eye-Ball QSO, with V.E. Testing to take place on the 12th.

Field Day, Ah Ha!! Good old hot Field Day. It's hard to visualize, at this time of the year, all the heat and sweat that poured forth in Field Day efforts. Oklahoma needs to make up it's mind one way or the other and I don't care which!!! A suggestion was offered that she compromise and have fantastic weather year round.

Anyway it was great fun and also very successful. Ross, WB5MZZ, compiled the log for us on his computer.

Our club Treasurer Freida, N5EOX, who by the way will fill the same billet next year, has really had a busy year also and has done an outstanding job of keeping the monetary affairs of the club intact. I don't think we recognize her efforts nearly often enough. Also her cooking is outstanding. She claims that's the real reason the Board elected her back as Treasurer next year. Ho hum!! I'll never tell.

A new feature to our C & E articles this year has been the club profiles. Rod and I have enjoyed interviewing and writing about many of our outstanding hams. It's possible to get to know people better this way and seems to bring our club closer together. Since I am going to remain Secretary and Editor for the following year, I will still pursue this feature. Our members are such interesting subjects.

Ron, WBOPGD, announced plans to construct a repeater to operate on 147.96/36 in the near future. Also under the category of unfinished business is the trailer to be outfitted by the club for emergency radio communications and to serve as storage area for club equipment.

On December 7th, 1985 we held our annual Christmas Party at K-Bob's in Woodward. We did not have a large showing with only 14 members in attendance but we

did have 27 guests present. Perhaps next year we can devise a plan to inspire better member attendance. A good time was had by all present and we definitely appreciate all of our guests coming from considerable distances. O. C. and Nellie Elfers were presented with a surprise recognition of their 50th Wedding Anniversary. Congratulations go to you two with our sincere hopes for many more happy years together.

New Board Members are also elected at our Christmas meeting. Outgoing members were Freida, Rod and Gerry. After the ballots were counted, the following new board members were elected, Windle, WA5PLW, Rod, WB5OVT and Freida, N5EOX with everyone holding the same positions on the Board with the exception of Windle who replaced Gerry as Club President. With the following slate of officers elected by the Board, I feel certain we will have another good year:

WA5PLW Windle	President
W5KFK Lewis	V/President
N5EOX Freida	Treasurer

KA5PYA Lois	Sec & Ed
N5HID Kent	Act. Member
KE5RB Bart	Member
WB5OVT Rod	Member

Some may think we're in a rut but at any rate I wish everyone a Happy Holiday Season and a Prosperous New Year.

Until next year, and for Gerald, who I have to pick on "Hang In There!!"

73, Lois

Things have been very busy around here as usual for the Holiday Season. With all the hustle and bustle, we simply failed to meet the December deadline and knew we were in trouble when our issue of the C&E arrived two days after we had submitted our article. As a consolation, or punishment depending upon your viewpoint, our late December offering plus this article for January should insure a fairly lengthy column.

N.W.O.S.N.

Myron, N5HRA, net manager of the Northwest Oklahoma service Net reported at our January club meeting that the net check-ins had averaged eight for the month of December with seven pieces of routine traffic being handled for that period. Bill Wyatt, KD5JR, graciously volunteered to be net control for Wednesday evenings. Rod Ford, WB5OVT, will serve as his backup. For those interested, the NOSN meets Monday, Wednesday and Friday evenings at 9 pm on 146.13/73. All check-ins are welcomed.

THAT TIME AGAIN ?

Yes, another year has rolled by and it's time for club dues to be paid again. Your prompt-

CONTINUED NEXT PAGE

ness will help us to get our club roster up to date earlier, insure that you continue to receive the C&E uninterrupted and, most importantly, make the Treasurer's job a lot easier!

#### VE TESTING RESULTS

It is our understanding that VE testing conducted at Vici OK on the 11th of January was quite successful and several new calls will be heard soon. More will follow on this subject in next month's article.

#### THE DYNAMIC DUO

The subject of this month's Club Profile will be a couple of our most dedicated amateurs—Ron, WBOPGD and wife Carla, WBOQGW. Whenever stormy weather is in this area the Tices can be found at the radar site handling much of the communications.

Both were licensed while living in Lamar CO. They were instrumental in obtaining the first repeater for use in that area. As a matter of fact, the 34/94 machine was located at their house. Ron and Carla recall that it was widely used by amateurs in Garden City KA, Pueblo and Springfield CO. When they left the Lamar area, the repeater stayed behind.

Carla teaches Special Education at the Westwood Elementary School in Woodward OK. She is concerned with primary educable mentally handicapped children ages 5-10. Presently Carla has 17 students in her class. She had taught second grade for 10 years before obtaining her degree in Special Education and enjoys teaching those in need of special education most. She is interested in tole painting, calligraphy, vegetable gardening and reading. During the storm season, she is responsible for all the logging necessary for both 2 meter and Government communication. This is definitely a demanding chore as many things often happen simultaneously at a frightening rate. In addition, she often fills in on the radio for husband Ron.

Ron is presently a contract pumper. He worked as a heavy equipment operator for 20 years and recalls working on a large amount of I-40, particularly around the Weatherford and Clinton area. Ron obviously enjoys working with his hands and if you have seen their new home, is certainly handy when working with wood. Ron is responsible for all 2 meter radio communication at the radar site and often will make spotter initial location assignments and relocations as necessary.

Dedication describes this couple best. They have spent

hundreds and hundreds of hours at the radar site since it moved

to its present location. In addition to handling communications and logging, Ron or Carla can plot on the storms location map. Both enjoy helping people and obviously like working with the radar and spotting teams. The Tices have been active in the Club—Carla as secretary and Editor for two years and Ron as Vice-President and President. They were recognized for all their hard work by our club at our Christmas Party with two "Certificates of Appreciation" for their outstanding years of service.

When stormy weather strikes this area, the calm and controlling voices you hear on the weather net will most likely be those of our "Dynamic Duo", Ron and Carla Tice.

73 Lois, KA5PYA

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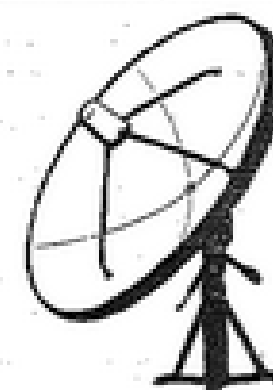
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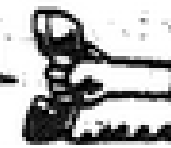
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Meetings held at Red Cross Bldg  
NW 10th & Hudson  
2nd Saturday of each month  
9:00 AM -- Come early  
Club dues: \$10 per year

President Sam Murr called  
the meeting to order at 9:08 AM  
on January 11, 1986. 122  
members and guests attended.

#### Old Business

1. Rumors of a new 256K  
Color Computer have surfaced  
again. The new machine will  
apparently be available in April  
of 1986.

2. COCO, Inc will again  
sponsor a swap meet this spring  
when the weather warms up.

#### New Business

1. Motion: Joe Harding will  
print business cards advertising  
the COCO, Inc meetings and  
distribute them to local Radio  
Shack stores.

2. Motion: Petition RAINBOW  
magazine to hold a RAINBOWfest  
in Oklahoma City. Our illus-  
trious Secretary will draw up  
the petition for the members to  
sign at the next meeting.

3. Bob Helms requested that  
some knowledgeable individual  
remove the duplicate Musica II  
files from COCONET.

3a. Someone suggested  
uploading the public domain play  
portion of Musica II, so that  
those without the whole program  
can still play the music.

4. Suggestions for future  
programs included:

Graphicom II  
basic word processing  
WEFAX

#### Software Problems

1. Joe Harding requested  
someone provide him with a  
public domain program similar to  
CoCo Calligrapher for printing  
graphics titles.

2. There's a syntax error in  
line 1890 (and possibly other  
lines, too) of TAX 85. You can  
correct these lines by placing a  
space after THEN.

3. December 85's RAINBOW on  
Tape lacked the data for the TIC  
TAC TOE game. Someone typed in  
that file, and it will appear on  
a future COCO, Inc. swap disk.

4. Jim Seals has success-  
fully used CLONE 22 to transfer  
files between his CoCo and an  
IBM PC, whatever that is.

5. Sherry Whittington had no  
software problems.

#### Hardware Problems

1. One member was wondering  
how to get his printer and modem  
to function concurrently. Hollis  
Holcomb referred him to an  
article which appeared in the  
RAINBOW several months ago. It  
described a way to send data to  
the screen and to the printer  
simultaneously at 300 baud.

2. Static, that wintry neme-  
sis of computer owners the world  
over, is destroying PIAs left  
and right. Anti-static spray,  
spray fabric softener, properly  
grounded anti-static mats, and  
humidifiers (beware of Legion-  
naire's Disease!) will alleviate  
the problem. The bottom line is  
to exercise extreme caution wh-  
around sensitive electronic  
devices during the winter.

3. Don't spray WD-40 on your  
print head. Don't jump out of  
an airplane without a parachute,  
either.

4. Bob Pace showed us the  
Hayes-compatible 300/1200 baud  
modem that he ordered from DAK  
for \$175, postpaid.

5. Tom Mangham gave us a  
short blurb on the 256K upgrade,  
which he performed based upon an  
article in the September, 1985  
RAINBOW. Tom showed us his ma-  
chine's circuitry and explained  
how he effected the upgrade.  
Since it was over my head, I  
won't attempt to relay all the  
particulars to you. The upgrade  
cost him around \$50. J&R Elec-  
tronics is offering a 256K up-  
grade kit for \$100.

#### Doorprize Winners

Nathan Roberts - power strip  
Bob Striegel - Flex'N'File  
Dan Kesler - disk tray  
Jasmine Holcomb - 50 disk  
sleeves  
Robert Browning - 50 more  
disk sleeves  
Bill Pool - RAINBOW on Disk  
John Falls - Spectaculator  
Richard Setzer - OS9  
Ron Goff - stapler  
Wayne Little - 68 Micro  
Journal  
Lee Lash - Flight Simulator

For the 25th consecutive  
month I came away empty-handed.

#### Program

Computers, VCRs, TVs, and  
stereos commingled when Harold  
Todd presented his audio-video

extravanza to the COCO meeting  
attendees. He'd recorded his  
Color Computer's display with a  
VCR. Then, he added narration  
and appropriate background music  
to punctuate his presentation.

He began by demonstrating a  
Christmas music program written  
by David and Kathi Coburn. The  
selection he chose was "Rockin'  
Around the Christmas Tree." It  
was entertaining.

Next, came a lengthy dis-  
cussion on ADOS, the Advanced  
Disk Operating System. Harold  
demonstrated how to customize  
ADOS to suit your own personal  
needs. The system will run on  
the standard CoCo screen or on  
the high-resolution screen.  
ADOS can interpret both upper-  
and lower-case. ADOS has many  
good features, and with a little  
practice most people familiar  
with RS DOS 1.0 should get the  
hang of it.

The piece de resistance was  
a bawdy cartoon (generated by  
Graphicom ?) featuring a strip-  
per and a vintage song by the  
Andrews Sisters.

Harold put a lot of thought  
and effort into his ingenious  
presentation. Everyone enjoyed  
it thoroughly. I just have one  
question, Harold. What 4is5 tha  
60K-4 mode, anyway?

\*\*\*\*\*  
Shortly after the January  
issue of the Collector and  
Emitter came out I received a  
phone call from Ed Fauss, a ham  
operator and Color Computer  
owner living in Eufaula, Ok. He  
read the COCO column and called  
to say he found it entertaining  
and informative. Thanks for the  
kind words. Ed. It's good to  
know someone's enjoying the  
column.

In this month's column I'm  
inaugurating a series of arti-  
cles on CompuServe, the leading  
on-line information service in  
the country. CompuServe main-  
tains a vast assortment of data  
bases to provide information and  
services (for a fee, of course)  
to anyone who has a computer, a  
telephone, a modem, and a thirst  
for knowledge.

Among the literally hun-  
dreds of services provided are  
at-home shopping (in the Elec-  
tronic Mall), on-line encyclo-  
pedias and newspapers, on-line  
advice columns, electronic mail,  
special interest groups (SIGs),  
brokerage services, airline  
schedules/ reservations, hotel/  
motel directories, discussion  
forums, travel info, games,  
etc., etc., etc. I've only  
skimmed the surface of all the  
topics. You could spend days on

CompuServe and not sample all the information available.

This month we'll cover two topics. First, we'll discuss (in the most basic terms) how to logon and logoff. After we've mastered that, we'll move on to the Official Airline Guide to plan a hypothetical trip to the Rainbowfest being held in Palo Alto, California, on February 14th through 16th.

To digress for a moment, let me point out that in order to use CompuServe, you must first obtain a user ID and password. There are two ways to do this. You can call CompuServe at 1 (800) 848-8990 and request the password and user ID, which they will mail to you. Or, better still, you can buy a CompuServe Starter Kit. The kit retails for \$40 and includes a user's manual and five "free" hours of connect time at 300 baud. The manual is indispensable, so buying the kit is really the way to go.

As I mentioned above, the kit retails for \$40, but DAK sells it for \$24, plus \$2 for shipping and handling. When you consider that each hour of connect time on CompuServe costs \$6 at 300 baud (\$12.50 per hour at 1200 baud), you can see that the DAK deal is a bargain.

DAK, by the way, also has two modems for sale. One is a 300 baud combination modem and telephone (with touch tone and pulse settings) for under \$50. I have this model and it works well. DAK's other modem is a 300/1200 baud auto-answer auto-redial Hayes-compatible model. Supposedly, this modem also works very well. You can reach DAK at 1 (800) 325-0800 24 hours a day 7 days a week.

I suppose I've rambled on long enough for this month. Keep those articles coming in.

\*\*\*\*\*  
Logging onto CompuServe can be a traumatic experience if you don't know what you're doing. The CompuServe User's Manual doesn't make things any easier, because it doesn't answer all the questions a COCO user might have.

Since I'd found myself in a quandary several times when logging on, I decided to write down the procedures to minimize the trauma. Maybe the list will help you, too.

1. Power up your COCO, monitor, disk drives, and modem.

2. MAKE SURE YOUR MODEM IS PLUGGED INTO BOTH YOUR COCO AND YOUR TELEPHONE.

2A. If you have your printer and modem both plugged into a switching device, MAKE SURE THE SWITCH IS ON THE MODEM SETTING rather than the printer setting.

3. Load your terminal program.

4. Dial CompuServe at 946-4860 or 946-4799.

5. When you hear the high-pitched tone, switch your modem from voice to data. The instruction manual for your modem will explain how to do this.

6. Depress the down arrow key (the control key for the COCO) and <C> simultaneously. This completes the handshake with CompuServe, so its computer can begin speaking to yours.

7. Enter your User ID at the prompt.

8. Enter your password at the prompt.

That's all there is to it. You've successfully signed on. Now, here's a sample of what to expect from CompuServe after completing the handshake. (The User ID and password are fictitious.)

User ID: 75999.123 <ENTER>  
Password: BOAT\*TOUCH <ENTER>

A Brief Exposure to the OAG  
by Martin Schiel  
Dec 31, 1985

Let's take a trip. Let's go to Palo Alto to attend the Rainbowfest scheduled for February 14 - 16, 1986. We'll use CompuServe's Official Airline Guide, or OAG for short, to make an airplane reservation to one of the airports serving that area. Our choices are San Francisco or Oakland to the north and San José to the south. Why don't we pick San Francisco? It's one of my favorite cities.

Before we begin our journey into the realm of the OAG, however, I should explain a few things. As you know, the COCO displays only 32 characters per line, whereas most other computers display 40 or 80 characters per line. Consequently, when you access the OAG using the standard COCO presentation, you'll notice a severe case of word wrap on your screen. Therefore, if you'll download the data and print it out at between 40 and 80 characters per line, you'll find the OAG's format much more readable.

Along those same lines, I've chosen to display 48, rather than 32, characters per line in this article to improve readability. Just bear in mind that the OAG's display on your COCO won't be quite as legible as it is here.

All the verbiage from this point on was downloaded verbatim from CompuServe. I've

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10 Forum Conference Schedules  
11 CompuServe Community News  
12 Online Today Magazine  
Enter choice !

Now, you're free to select any of the choices on the list or you can go directly to any other area you choose. I'll describe some of those other areas in future articles.

When you've decided you've had enough fun, you can sign off CompuServe by entering BYE at any "!" prompt. CompuServe will display the following:

Thank you for using  
CompuServe!

Off at 20:40 CST 27-Dec-85  
Connect time = 0:14



Enough talk! Let's do it! Log onto Compu-Serve (see separate article) and, at the first "!" prompt, type in

GO DAG <ENTER>

1 How to use OAG EE  
2 OAG EE Feedback  
3 Accessing OAG EE (\$)  
4 FLORIDA IN FEBRUARY

\* Please Note \*

Request Recorded. One Moment, Please

Connected to 17DAGCIS

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: : : : : : : : : : : : : : : :
: TWO NEW DAG-EE FEATURES :
: RESERVATIONS AND TICKETING :
: AND :
: HOTEL/MOTEL INFORMATION :
: : : : : : : : : : : : : : : :

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\*\* PAGE COMMAND MENU \*\*

```

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      /F FOR FARES DISPLAYS
      /S FOR SCHEDULE DISPLAYS
      /H FOR HOTEL/MOTEL DISPLAYS
      /M FOR THIS MENU
      /Q TO EXIT FROM THE OAG EE
      /C TO REVIEW OR CANCEL A
          RESERVATION
      /U FOR USER COMMENTS AND
          SUGGESTIONS BOX

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OR PRESS RETURN TO USE 01 JAN  
12 FEB <ENTER>

ENTER DEPARTURE TIME  
OR PRESS RETURN TO USE 600AM  
100PM <ENTER>

10 COLLECTOR &amp; EMITTER + FEBRUARY 1986

(Ed. note -- These flights don't look too appealing because they fly into Oakland rather than San Francisco, so let's check out the connecting flights. But, first, let me explain some of the other commands you can use.

```

CX - list connecting flights
DF - list direct flights
X# - list expanded flight info
F# - list fares
RS - list return flights
B# - book a seat
+ - list flights later in the day
- - list flights earlier in the day)

```

```

CONNECTIONS                                WED-12 FEB
FROM-OKLAHOMA CITY,OK,USA
# TO-SAN FRANCISCO;OAKLAND,CA,USA
1* 135P OKC 203P DEN FL 605 73S 0
    255P DEN 420P SFO CO 261 727 S 0
2* 145P OKC 229P DFW DL 915 73S 0
    310P DFW 440P SFO DL 775 72S D 0
3* 155P OKC 430P SLC WA 625 73S S 1
    510P SLC 548P SFO WA 83 72S D 0
* THOMAS COOK TICKETING ONLY
ENTER +,-,DF,X#,F#,RS,B#(#=LINE NUMBER)
X2 <ENTER>

```

(Ed. note -- Let's rule out flights 1 and 3 because they connect in Denver and Salt Lake City, neither of which is reliable in winter. Bad weather could cancel or reroute flights into or out of either city, so Dallas is the safest bet. However, if we weren't satisfied with any of these flights, we could enter a "+" to list later flights or a "-" to list earlier flights.)

EXPANDED CONNECTION DISPLAY (1 OF 2)  
LEAVE- 1:45P ON-12 FEB  
FROM-OKLAHOMA CITY,OK,USA  
DELTA AIR LINES FLIGHT 915  
AIRCRAFT-BOEING 737 200/300 SERIES  
CLASS-FIRST/COACH/ECONOMY  
ARRIVE-2:29P ON-12 FEB  
AT-DALLAS:FT.WORTH.TX,USA  
PRESS RETURN FOR 2ND FLIGHT INFORMATION  
<ENTER>

EXPANDED CONNECTION DISPLAY (2 OF 2)  
LEAVE- 3:10P ON-12 FEB  
FROM-DALLAS:FT.WORTH,TX,USA  
DELTA AIR LINES FLIGHT 775  
AIRCRAFT-BOEING 727-200  
CLASS-FIRST/COACH/ECONOMY  
MEAL-DINNER  
ARRIVE- 4:40P ON-12 FEB  
AT-SAN FRANCISCO:OAKLAND,CA,USA  
TOTAL TRAVEL TIME 4H 55M  
ENTER S TO RETURN TO SCHEDULES  
ENTER F FOR SELECTED FARES  
F <ENTER>

(Ed. note -- Now, let's find out how much this  
jaunt's going to cost us.)

FARES IN US DOLLARS WED-12 FEB  
SELECTED FOR OKC-DL 915 DFW-DL 775-SFO

# ONE-WAY RND-TRP ARLN/CLASS FARECODE  
 NO LOWER FARES IN CATEGORY  
 1\* 218.00 DL/Q-DL/Q GE30Z236  
 2\* 398.00 DL/B-DL/B BE14  
 3\* 470.00 DL/M-DL/M ME70  
 4\* 260.00 DL/M-DL/M M  
 5\* 270.00 DL/M-DL/M M  
 6 348.00 DL/Y-DL/Y Y  
 7 452.00 DL/F-DL/F F  
 NO HIGHER FARES IN CATEGORY  
 \* ENTER L# TO VIEW LIMITATIONS  
 ENTER L#,X#,S,RS (L#=#LINE NUMBER)  
 L1 <ENTER>

(Ed. note -- The \$218 Ultra Saver fare is the leading contender at this point. Let's see what the limitations are.)

LIMITATIONS DISPLAY WED-12 FEB  
 OKC-SFO DL/Q-DL/Q FARECODE:GE30Z236  
 DELTA AIR LINES  
 FARE DESCRIPTION:EXCURSION FARES  
 BOOKING CODE: Q.  
 FARE IS ONLY AVAILABLE FOR  
 TRAVEL ON TUE, WED, OR SAT.  
 FARE IS NOT AVAILABLE FOR TRAVEL  
 FROM 19 DEC 85 THRU 31 DEC 85;  
 AND FROM 01 JAN 86 THRU 06 JAN  
 86.  
 FARE IS NOT AVAILABLE FOR TRAVEL FROM  
 21 MAR 86 THRU 31 MAR 86; AND  
 FROM 01 APR 86 THRU 02 APR 86;  
 AND FROM 21 MAY 86 THRU 28 MAY  
 86; AND FROM 27 JUN 86 THRU 30  
 JUN 86.  
 PRESS RETURN TO VIEW MORE LIMITATIONS  
 ENTER F TO RETURN TO FARE DISPLAY  
 ENTER S TO RETURN TO SCHEDULE DISPLAY  
 <ENTER>

LIMITATIONS CONTINUED WED-12 FEB  
 TRAVEL MUST BEGIN ON OR BEFORE  
 15 MAR 86.  
 MINIMUM STAY IS OVERNIGHT ON SATURDAY.  
 MAXIMUM STAY ALLOWED IS 21 DAYS.  
 RESERVE TICKET FOR TRAVEL NO LATER THAN  
 30 DAYS BEFORE DEPARTURE.  
 PURCHASE TICKET FOR TRAVEL NO LATER THAN  
 30 DAYS BEFORE DEPARTURE, BUT NO LATER  
 THAN 14 DAYS AFTER TIME OF RESERVATION.  
 PRESS RETURN TO VIEW MORE LIMITATIONS  
 ENTER F TO RETURN TO FARE DISPLAY  
 ENTER S TO RETURN TO SCHEDULE DISPLAY  
 RS <ENTER>

(Ed. note -- Since we meet all the requirements, let's investigate the return service.)

ENTER DEPARTURE DATE  
 OR PRESS RETURN TO USE 12 FEB  
 18 FEB <ENTER>

ENTER DEPARTURE TIME  
 OR PRESS RETURN TO USE 100PM  
 200PM <ENTER>

CONNECTIONS TUE-18 FEB  
 FROM-SAN FRANCISCO;OAKLAND,CA,USA  
 # TO-OKLAHOMA CITY,OK,USA  
 1\* 215P SFO 720P DFW DL 180 L10 L 0  
 754P DFW 840P OKC DL1092 73S 0  
 2\* 230P SFO 546P DEN UA 382 D10 S 0  
 730P DEN 950P OKC UA 742 727 D 0  
 3\* 300P OAK 609P DEN UA 646 727 S 0  
 730P DEN 950P OKC UA 742 727 D 0  
 \* THOMAS COOK TICKETING ONLY  
 ENTER +,-,X#,F#,RS,B# (L#=#LINE NUMBER)  
 F1 <ENTER>

FARES IN US DOLLARS TUE-18 FEB  
 SELECTED FOR SFO-DL 180 DFW-DL1092-OKC  
 # ONE-WAY RND-TRP ARLN/CLASS FARECODE  
 NO LOWER FARES IN CATEGORY  
 1\* 198.00 DL/Q-DL/Q GE30WS  
 2\* 218.00 DL/Q-DL/Q GE30Z236  
 3\* 398.00 DL/B-DL/B BE14  
 4\* 470.00 DL/M-DL/M ME70  
 5\* 500.00 DL/M-DL/M ME70  
 6\* 260.00 DL/M-DL/M M  
 7\* 270.00 DL/M-DL/M M  
 8 348.00 DL/Y-DL/Y Y  
 \* ENTER L# TO VIEW LIMITATIONS  
 ENTER +,L#,X#,S,RS (L#=#LINE NUMBER)  
 RS <ENTER>

(Ed. note -- Ordinarily, you ought to list the limitations of your return flight also. However, to conserve space I've omitted that step. Anyway, the SFO-OKC flights have the same limitations as the OKC-SFO flights. Since the fare-codes are identical, so are the limitations.)

CONNECTIONS WED-12 FEB  
 FROM-OKLAHOMA CITY,OK,USA  
 # TO-SAN FRANCISCO;OAKLAND,CA,USA  
 1\* 135P OKC 203P DEN FL 605 73S 0  
 255P DEN 420P SFO CO 261 727 S 0  
 2\* 145P OKC 229P DFW DL 915 73S 0  
 310P DFW 440P SFO DL 775 72S D 0  
 3\* 155P OKC 430P SLC WA 625 73S S 1  
 510P SLC 548P SFO WA 83 72S D 0  
 \* THOMAS COOK TICKETING ONLY  
 ENTER +,-,DF,X#,F#,RS,B# (L#=#LINE NUMBER)  
 B2 <ENTER>

(Ed. note -- Let's book some seats on Delta.)

YOU HAVE SELECTED THE ELECTRONIC  
 EDITION RESERVATION BOOKING SYSTEM.

PLEASE ENTER NUMBER OF SEATS REQUIRED  
 UP TO A MAXIMUM OF 4.  
 2 <ENTER>

TRIP TYPE MENU  
 1 ONE-WAY  
 2 ROUND-TRIP  
 3 OTHER (TWO OR MORE CITIES)  
 ENTER SELECTION NUMBER  
 2 <ENTER>

ENTER RETURN DATE AND TIME  
 FOR EXAMPLE:17DEC;800P  
 OR PRESS RETURN TO USE 12 FEB : 600PM  
 18FEB;200PM <ENTER>

FARES IN US DOLLARS WED-12 FEB  
 SELECTED FOR OKC-DL 915 DFW-DL 775-SFO  
 # ONE-WAY RND-TRP STATUS FARECODE  
 NO LOWER FARES  
 1\* 198.00 CANT BOOK GE30WS  
 2\* 218.00 AVAILABLE GE30Z236  
 3\* 398.00 NO SEATS BE14  
 4\* 470.00 AVAILABLE ME70  
 5\* 500.00 AVAILABLE ME70  
 6\* 260.00 AVAILABLE M  
 7\* 270.00 AVAILABLE M  
 8 348.00 AVAILABLE Y  
 ENTER B AND LINE NUMBER TO SELECT FARE  
 ENTER +,L#,X#,B#,C (L#=#LINE NUMBER)  
 C <ENTER>

CONTINUED NEXT PAGE

# CIMARRON

It has been quite a while since CARA has reported into the C&E Net, but the club is alive and well, and looking forward to great things in 1986!

A good many changes have taken place. A new slate of victims have taken up the burdens of office. Steve Schoonmaker N5FUP, is our new President. His address is Box 487, Canton OK and his telephone number is (405) 886-3274. All club business should be addressed to him, unless you want money. In that case, see our Treasurer, Betty Day, KA5RTW. The address is Chester Star Route, Fairview OK 73737, and her telephone number is (405) 227-3462.

Our Secretary is Nadine Painton, N5FMH, (405) 764-3599. Vice President is now Bill Simpson, N5HQB. Net Manager is Denny Painton, WB5ECM, who uses the same phone number as Nadine, and activities chairperson is Helen, N5HQL, Bills XYL. Editor this year is Jack Day, NN5Z...Betty's roommate of 40 years and his address and phone number is the same as hers. Incidentally you can send all the news, personals and so forth to the same address.

Also new is our meeting night. We now meet on the THIRD THURSDAY evening of each month at 7:30 pm. The place is, as always the radio shack (and playhouse) of Fred, N5FUO, and Ruth Simpson, N5FUR. These two have not only held an amateur license longer than anyone else in the club, but recently celebrated their sixtieth wedding anniversary...so some people do stay together. We are all rooting for Ruth, who holds an Advance Class license to get her Extra Class. We believe, when that happens she will be the senior Extra Class in the U.S.

All visitors are welcome. Talk-in frequency on 2 meters is 145.45!

All in all, the past year was not too bad. Meetings were well attended and several get-togethers, including a picnic in the park and a Christmas Dinner were a pronounced success.

A Novice class is under way and a basic electronics class by KI5P, Major Bailey was well attended.

A field trip for the Novice class was engineered by Ed, N5GOR. They visited the Amateur Radio stations of AB5Z, Ray and KE5TP, Leo. Both men have good working stations and were able to show our Novices a variety of equipment.

Those instructors participating in the Novice class included Fred, N5FUO, Ruth, N5FUR, Steve, N5FUP, Leo, KE5TP, ED, N5GOR, Terry, KA5TVF, Vern, KA5SZD and Jack, NN5Z. The club felt that having several members responsible for instruction was a benefit to both club and student. We plan on continuing the class through Tech and General Classes if student interest is shown.

Major, KI5P, has turned over the management of the two meter net to Denny, WB5ECM, and it will continue to meet Thursdays at 8:00 pm except for the Third Thursday of the month, which will be an eyeball QSO with the club.

During the earthquake emergency in Mexico City, Jack, NN5Z, went with the Oklahoma Baptist Disaster Unit, working under the call sign XE5CRT.

As outgoing President I want to thank each and every member who helped keep the club going during the past year. I appreciate you very much. Lets support Steve and his radio cabinet in the coming year and make CARA better than ever.

Jack, NN5Z

**WANTED:** A reasonably priced match box( < 200 watts) for coax or random wire. Contact Justin, KA5WIJ, at 3296314.

**FOR SALE:** ICOM 255A, 25 watt 2m mobile. Would like to trade for a HANDI TALKIE. Contact: Marve Cullison, WB0VHC, Ponca City, (405) 762-3987.

(Ed. note -- To go through with the booking process, enter a "B2" at this prompt and supply the information requested by all subsequent questions. This is as close as we'll come to making an actual reservation because I don't want to carry this article too far.)

\*\*\* CAUTION \*\*\*

YOU HAVE ENTERED A CANCEL COMMAND WHICH WILL CANCEL YOUR ITINERARY SELECTIONS. PLEASE ENTER:  
1 TO CONTINUE CURRENT SELECTION  
2 TO CANCEL YOUR BOOKING REQUEST  
(NO RESERVATIONS WILL BE MADE)

ENTER SELECTION NUMBER

/Q <ENTER>

Now that you know how to use the OAG you can make airline and hotel/ motel reservations for any destination. Remember to plan out your course of action before signing onto the OAG, because, at \$21 per hour, most of us can't afford to dawdle.

# EDMOND AMATEUR RADIO SOCIETY

From the outgoing President...

As we say good-bye to 1985 and prepare to meet the challenges of another year, I would like to say thank you to the greatest group of people I have ever had the pleasure to work with; the members and families of the Edmond Amateur Radio Society.

I have been a member of EARS since 1976, and have now served as its president 3 different times. Although I feel the club has proven its desire for self punishment by re-electing me, I am deeply grateful for the opportunity, and for the confidence you've shown in me. While the club has experienced some remarkable progress this past year, credit for this progress goes to many, many individuals in the club, and not to myself.

First, I would like to thank the other 1985 officers and Board of Directors, who have made a magnificent contribution to the smooth operation of the business aspect of EARS: Bill DeMand, K5SKA; Bill Wright, KC5GN; John Callison, KB0OU; and Bob McCoy, N5BUJ. Their help and cooperation have been extremely valuable.

Next, I want to offer a HUGE THANK YOU to John Thomason, WB5SYT who has taken-over the responsibility of conducting our monthly Civil Defense siren test. Over the air, John has made the test sound like a very simple job. However, what isn't heard on the air is the number of hours spent on the phone every month, calling a minimum of 16 club members (soon to be increased to 18); along with having to go to the Edmond EOC for 1 to 2 hours on a Saturday morning to complete the coordination of the entire operation. John - you'll never know how much I personally appreciate all that you have done this past year.

John was also one of our members that made our Spring 1985 Novice/Technician class such a success.

Another individual who was not an officer this past year, but was a tremendous help to me personally, was Harold Wells, WA5ZKX. Harold volunteered to head our calling committee, to make sure our membership was aware of every meeting and special event we had scheduled.

CONTINUED NEXT PAGE

Harold's efforts made a big impact on the attendance at meetings and other events.

Bob McCoy, N5BUJ is another individual whom I feel needs a special pat-on-the-back for the time and effort he willingly spends maintaining our repeater. Sometimes we forget that if it weren't for people like Bob, and the other members of the technical committee we would not have a repeater to use and enjoy. Whenever you get the opportunity, tell Bob how much you appreciate what he has, and is, doing for EARS.

Unless you have been living in a cave somewhere, you already know about the efforts of Bob Thomason, KA0CVK, and the many people who helped him make our Novice/Technician class the most successful amateur radio class I have ever heard about. Instead of becoming smaller as time went on, the class actually grew. Thanks to Bob and everyone who had a hand in that effort.

Thanks to Ruth and A.C. Adams, KA5WGV for the many, many hours they sacrificed to help train us in the use of CPR. As a result of their efforts 27 of our members, and 6 of our member families are CPR qualified.

Throughout the year we have had many people involved in many different events and activities. While I'm not interested in just bragging, I feel that it is important that everyone in the club be aware of some of the things our membership has accomplished this past year. One of our most important and best known ongoing activities is our weather net for Edmond Civil Defense. Our membership has logged over 63 manhours and 630 miles in providing this service to our community.

Because of our classes we have helped add 30 Novices, 14 Technicians, 2 Generals, 2 Advanced, and 2 Extra class amateurs to the ranks of amateur radio. A second class is currently in progress, and is also being very successful.

We played an integral part in the Edmond 4th of July Parade and fireworks display, which started at 7:00 AM and ended around 10:00 PM (Boy, if that isn't dedication!). We provided 20 amateurs that assisted in parade staging, crowd control, helping individuals in need get immediate medical attention, etc.

We were also the only amateur radio club that assisted the

Oklahoma City Band Day Parade. In spite of the rain and cold, we had more members show-up than they really needed.

We worked with other clubs throughout the Oklahoma City area to provide communications for the Sooner Games.

We had a large group involved in Field Day, and plans are already underway for Field Day 1986.

An antenna party was organized to help new hams build HF and VHF antennas for their stations. (By the way another one is already scheduled for February.)

Operation Santa Claus, a fund-raiser that involved many man-hours of planning, preparation and execution was a great success.

EVERY Monday and Thursday evening at 7:00 PM Lee, KA5WIS conducts code practice (5 to 20 wpm) on 147.135 for anyone interested in improving his/her copying abilities.

We had the opportunity to have a real "fox hunt" that resulted in the capture and return of a members' stolen 2 meter rig.

The first Saturday of each month we conduct a siren test for Edmond Civil Defense... Shall I go on?

This isn't an all inclusive list of activities that EARS was involved in throughout 1985; nor have I begun to list every person that has contributed to our success. In fact, the only all inclusive list of contributors is our 1985 roster. Everyone in EARS has had some contribution, and I am very proud and appreciative to be part of such an organization.

Besides all of the things, I must also mention that we ended 1985 with the largest membership in the history of EARS; we experienced the most rapid growth in our history; and we are financially sounder than we have ever been. And guess what? We've only begun!

Although I can not discuss here what will take place in 1986 under the very capable leadership of our new officers, there are already numerous projects and events that have been planned, that should prove to make 1986 even better and more exciting.

By the way, if you're reading this and you are not a member of EARS, aren't you sorry you weren't a part of the success? If you have been looking for something to do in amateur radio besides just talk, you need to come see us! We guarantee to have a job just

# kay

The KCARC held it's monthly meeting at the PIONEER VO-TECH, January 16. This is a real nice place to meet and we are thinking about meeting here permanently. The club dues this year are \$20 and are due by the end of FEBRUARY. This deadline is necessary to keep our expenses in line with our income. To pay your dues contact RICK LONG, KE5XY, 765-5487 or mail to KCARC, P.O. Box 2750, Ponca City OK 74602.

Grady Skillern updated the members on the club's Emergency Communications truck. The Executive Committee voted to have the "box" taken off of the truck chassis and mounted on a trailer chassis. This will eliminate a lot of expensive upkeep and maintenance.

Biz Wichy, WD5HCO, gave an informative talk on packet radio communications and helped clear up some questions about that mode. Maybe there will be some new operators on the packet system in the Ponca area.

A Commodore Computer Users group has been formed recently here in Ponca City and meets on the 2nd Tuesday of each month at Southwest Stationary on Grand Ave at 7:00pm. The users group is called the OKCOM Users Group and is open to anyone that has a Commodore Computer or is thinking of buying one. This a great source for new or different programs. Even a few of us PC hams are members!

That about wraps it up for this month, so hope to see you all at the next meeting in Feb.

73 KE5XY

right for you.

73 and Happy New Year de N5DBM

Be sure to add the following to your EARS calendar:

February 01 - Siren Test  
February 11 - Net on 147.135 @ 8:00  
February 18 - Net on 147.135 @ 8:00  
February 21 - Informal Dinner/Meeting  
February 22 - Antenna Party  
February 24 - Basic Spotters training by Don Devore with the National Weather Service  
March 01 - Siren Test  
March 10 - Advanced Spotter training by the Sever Storms Lab  
March 16 - EARS Business meeting at Edmond EOC

# 1986 CORA ROSTER

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## TRIPS, HAMFESTS AND CONVENTIONS

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## WEATHER

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## THERE WILL BE ANOTHER AMATEUR TEST SESSION, NOVICE THRU EXTRA

DATE FEBRUARY 8, 1986  
TIME 10:00 am  
PLACE KF Industries (Plant  
Lunch Room), 1500 SE 89th. One  
mile East of SE 89th and I-35.

## PRE-REGISTRATIONS NOT REQUIRED (WALK-INS ONLY)

PHONE CONTACT 794-7398 Hal, NX5I  
after 5:30. 672-5564 George,  
NX5E after 5:30. 631-1533 Orle  
or Hal 8:00 am to 5:00 pm.

The fee has been advanced to the  
tune of \$4.25 for all test  
except NOVICE.

On the 27th of December, over  
a dozen hams put in over three hours  
of volunteer emergency work, many  
after having worked a full day, and  
all not knowing until the call for  
help went out they would be needed.  
The story starts on the 26th, when a  
75 year old senile and forgetful man  
apparently walked away from his  
residence. At that time, only the  
Oklahoma City police department was  
involved in the search, utilizing  
helicopters with bright flood lights  
attached (the events started after  
dark). By the 27th, the police had  
set up their mobile command post and  
were directing the search from there.

After observing numerous helicop-  
ter passes over his house, Steve  
Bense, WA4OLE, stopped a patrol car  
and inquired of the search. It was at  
this time the facts were known of a  
missing person. To make a long story  
shorter, Steve checked with the OKC  
police to determine if they desired  
"outside" help in the search. Any  
help was welcomed, so Steve started  
calling on most of the busier  
repeaters in the OKC metro area for  
volunteers with mobile equipment to  
report to the command post for further  
instructions. The Oklahoma State  
RACES repeater was used for search  
coordination.

Even though it had gotten dark  
quickly, all searchers put in a  
valiant effort and the search contin-  
ued until 8:00 PM. By this time, the  
entire search area had been completely  
covered (the search area was approxi-  
mately 20 square miles). Unfortun-  
ately, the missing person was not  
found, but there were some valuable  
"lessons learned" from this real-world  
incident: any reports of sightings  
from outside sources must be turned  
over to the police immediately; the  
net control for the search should have  
a very thorough street map for the  
search area; consideration should be  
made to assigning two people per  
vehicle dispatched.

The following amateurs all put in  
time directly related to the search:  
Steve Bense, WA4OLE, (coordinator for  
the search and NCS), W.C. "Charlie"  
Greene, WA5JGU (also assistant NCS  
until dispatched as a searcher), Bob  
Lutz, K5AHU, O.J. Watkins, WB5SRX  
(assisted NCS at command post), Ted  
Anderson, NY5W, Scott Baker, WA5A, Don  
Booker, N05K, Mike Potter, KA5RSK,  
Jack Muse, WB5ZKZ, D.C. Macdonald,  
K2GKK, Judy Macdonald, KA5B7S, Art  
Hernandez, KP5DK, and Sue McGlynn,  
KE5QN. There was one additional  
searcher, Bruce Wyatt, a non-amateur  
that heard the calls for assistance on  
his scanner and volunteered his help.  
It needs to be noted that these volun-  
teers gave up their normal supper or  
relaxation time for this community  
service. Many of them had driven over  
10 miles across town to join in the  
search (one searcher, KP5DK, came over  
20 miles to help). The assistance  
rendered by all volunteers was  
greatly appreciated. It is a warm  
feeling to know that when help is  
needed, people respond.



# OIDAR

• The OIDAR-sponsored Amateur Radio classes at  
VoTech will begin in mid-February. Watch the Ponca  
newspaper for an announcement. The curriculum will  
take prospective hams of all ages from absolute  
basics, thru Novice, to Tech and General, so it's more  
than just a beginning-level course. Equipment-choice  
and operating seminars will also be held, along with  
demonstrations of specialty modes and everyday  
operating. The idea is to get new amateurs active  
after they are initially licensed, and keep them on the  
air long-term, by helping them choose good equipment  
and learn good operating practices.

BRAAAP - OIDAR packet ops are Biz WD0HCO and  
Dave WNSLUI. Biz is still getting the bugs out of the  
digipeater project. Dave is setting up a packet BBS  
at his home station in Ponca; WNSLUI-1 may be  
accessible on 145.01 by the time this reaches print.  
A straight-ASCII RBBS is planned for another 2m  
frequency. 145.01 is getting pretty busy in the  
eastern half of Oklahoma, with an extensive packet  
network developing. A recent digipeater on 145.01  
is NSTM in Cushing. K5JB's monthly C&E column is  
a good local source for packet info... check it out.

• The OIDAR voice repeaters? 145.31 has been  
re-sited, and seems to be considerably improved.  
Phil KAZQIP has some ideas for further enhancement...  
anyone for some nice winter tower work? WNSLUI  
is plotting and scheming for the OIDAR 440 MHz  
repeater. In the meantime, don't forget both of our  
2m repeaters have 440 simplex access; talk with  
Dave or Vern for more info.

• As promised, Enid ARC's 145.29 repeater  
celebrated its third anniversary by going to 400w  
ERP. The receive system has also been improved by  
the elimination of cavity losses. K5FLL and N5BRK  
have been using 29 for the Ponca to Oklahoma City  
path almost daily, with good results. Ken W5QMU  
reports the 444.4 and 224.94 repeaters will be back  
on the air from Enid very soon, too. All of these are  
wide coverage machines, and Ken encourages OIDAR  
members to use them anytime. OIDAR member Guy  
K5KHA was responsible for both the big amplifier on  
2m and the one being installed on the UHF repeater.

• Meanwhile, in central Oklahoma, N5DUB and K9KK  
are collaborating on remote-base projects. We've  
succeeded in linking the K9KK 220 repeater and the  
N5DUB 440 repeater, making the latter's features  
accessible from 220 mobile in OKC. The DUB repeater  
now has a functioning synthesized 2-meter remote  
base, and is being smoke-tested in Edmond for the  
time being.

• Larry WA7UIB is now managing a cable TV system  
in Olney, Texas (which, oddly enough, is where two  
other former locals - KASUTC and WSIPN - are now).  
Larry sends his greetings to all the old Two-Niners  
and OIDAR types. He's working on a 440-to-2m  
remote base system to go on the 330' CATV tower  
down there, hoping to link north.

• Debbie KA5WBX, Dave WNSLUI, and Glen KASPB  
were active during the January ARRL VHF Sweeps.  
Best DX worked on 144 MHz was Iowa, best heard  
was Gulf Coast of Texas and Louisiana. 6m and 432  
planned for June OIDAR group effort. Meanwhile,  
Dave and Glen keep getting run off of 160m, the  
"gentleman's band". You'd think they'd get the hint...

• If you renew your ARRL dues through OIDAR, the  
club gets to keep a commission, which helps everyone.  
NEXT OIDAR MEETING is Tuesday, Feb. 11th, 7 p.m.,  
talk-in on the 145.31 repeater. 73 - Doug - N5DUB

ROBERT H ROGER	CP/M	414 PARKWAY	OKLA CITY OK 73102	340-0104
ROGAC A	MPMA	POSTAL STATION 18	OKLA CITY OK 73108	-
ROGAS A.C.	A	2126 MESA TRAIL	EDMOND OK 73034	-
ROGAS BRUCE	NEOS	313 E PARKLAND	YUKON OK 73099	-
ROGAS WANDA	MOHEA	RT 2 BOX 14-4	WYNNEWILLE OK 73057	-
ROKINS GEORGE	AGIS	BOX 32735	OKLA CITY OK 73123	722-4195
ROKINS VICKI	MSLR	BOX 32735	OKLA CITY OK 73123	722-4195
ROLD MERVIN	MSLL	812 BELLE AIRE AVE	EDMOND OK 73034	341-5805
ROSEN CAROLYN	NOEL	1815 LAKENBURG DR	NORMAN OK 73071	344-0129
ROSEN JUDITH L.	MSRI	1815 LAKENBURG DR	NORMAN OK 73071	344-0129
ROSLIGHT HARVEY	KACETO	8500 NE 28	SPENCER OK 73084	427-3087
ALLEN GORDA	MSVP	7508 CECILIA PL.	OKLA CITY OK 73132	721-1757
ALLEN JANE	MSRV	7309 S DOUGLAS AVE	OKLA CITY OK 73139	632-1708
ALLEN MARILYN	KACSH	7508 CECILIA PL.	OKLA CITY OK 73132	721-1757
ALLEN ROBERT	MSVP	7309 S DOUGLAS AVE	OKLA CITY OK 73139	632-1708
ROSE LYAL	MSJC	3213 N. SHAWNEE	BETHANY OK 73008	787-5298
ANDERSON BILL	COCO	4017 39	CARNESTIE OK 73015	654-2315
ANDERSON DENNIS	WFSM	411 S LEE	OKLA CITY OK 73139	632-1136
ANDERSON THEODORE	MSGO	2929 SW 30	OKLA CITY OK 73119	625-4014
ANDERSON WALE	KMSR	205 BELLAIRE DR	MOORE OK 73160	794-5141
ANGULO DOMINIC	CP/M	1713 BERNHARD DR	OKLA CITY OK 73130	737-1771
APPEL DYING	MSPIA	1145 NW 26	OKLA CITY OK 73104	524-0132
ROE R.E.	MSME	263 E DOUGLAS DR	KIDDEE CITY OK 73110	732-2498
ROE R.C.	MSM	3804 ORLANDO RD	OKLA CITY OK 73120	751-1817
ROSEN ED	MSOR	-	SHARRELLA OK 73047	227-2701
ROSEY ROBERT	MSL	2837 NW 19	OKLA CITY OK 73107	942-5375
ROSLIN PAUL	MSHTL	4902 NW 57	BETHANY OK 73008	787-4284
ATKINS CHARLES	COCO	3105 MCDILLAN	BETHANY OK 73008	495-2437
ATKINS ALLAN	COCO	2636 NW 35	OKLA CITY OK 73112	-
AVERY DALE	CP/M	BOX 2031	NORMAN OK 73076	340-0845
BAHNER RON	COCO	3129 SE 128	OKLA CITY OK 73170	691-4537
BAILEY DELOROUS	MSRM	420 S. 6TH	FAIRVIEW OK 73073	227-2641
BAILEY MAJOR	KISF	420 S. 6TH	FAIRVIEW OK 73073	227-2641
BAKER HOWARD	MSAS	5928 N REDWOOD	OKLA CITY OK 73122	721-5453
BAKER PAUL	COCO	4232 LEO WARDOK	CIDELA CITY OK 73132	722-4825
BAKER RICHARD	MSSTM	2400 S WACARTHUR	MOORE OK 73128	685-2867
BALL MICHAEL	MSOON	1848 SUMMIT DR	MOORE OK 73160	794-5284
BARNES RAY	MSST	RT 1 BOX 144	LONGMOLE OK 73075	224-3334
BARNES WALTER	A	9909 HARBOUR DR	OKLA CITY OK 73132	721-3322
BARGETT SAM	MSRRP	BOX 3342	NORMAN OK 73076	321-2401
BARTO JACK	COCO	9201 LAKENBURG	OKLA CITY OK 73132	721-8239
BARTON BERRY	COCO	1117 E. LONGVIEW LN	MUSTANG OK 73064	745-4164
BARTON GREGORY	CP/M	3100 NW 19 TURN	OKLA CITY OK 73127	943-0470
BASTINGER CLEON	MSMS	1511 ROCKBRIDGE S	NORMAN OK 73071	344-0330
BASS HAROLD	MSMR	1404 DOWER	PONCA CITY OK 74401	742-8594
BARGETT RUTH	MSMC	919 N HOWE	ALTUS OK 73521	482-2327
BRIDGEMAN DON	MSMR	621 NW 39	OKLA CITY OK 73118	521-0125
BATMAN MONTE	MSRST	1514 DENISON	NORMAN OK 73071	325-7485
BROWN DAVID	MSST	2713 N SHAWNEE AVE	BETHANY OK 73008	787-4183
BROWN BILL	MSYOT	3156 NW ELMWAY	OKMOLA CITY OK 73112	948-1211
BROWNETTE HARRY	MSOFR	254 E DETROIT	PONCA CITY OK 74401	745-3842
BROWN JOHN	MSRKE	8404 NW 101	OKLA CITY OK 73132	721-5395
BROWN CLARENCE	MSRM	4429 SE 30	OKLA CITY OK 73135	677-6331
BROWN JOSEPH	CP/M	444 SE 46	OKLA CITY OK 73129	432-4235
BROWN VIRGINIA	MSRM	RT 1 BOX 104	WATONGA OK 73772	-
BROWNETT JAMES	MSM	15417 LEICESTER	YUKON OK 73099	324-0749
BROWN STEVE	MSMLE	4900 CHERRY HILL LA	OKLA CITY OK 73135	727-7440
BROWN HUB	MSRST	4428 NW 45	OKLA CITY OK 73112	948-0023
BROWN MILTON	MSRM	BOX 162	DANFORTH OK 73134	523-4211
BROWN LLOYD	MSYTH	105 CENTER	OKLAHOMA OK 73438	-
BROWN J.C.	MSRIP	2934 SHIRLEY LN	OKLA CITY OK 73116	842-3897
BROWN BRYAN	MSRME	500 S OAK	MOLDOVITZ OK 74848	-
BROWN JACK	MSB	508 144	NORMAN OK 73076	327-1311
BROWN RALPH	CP/M	ST 2 BOX 193A	TECHAMON OK 74873	578-5734
BROWN JESS	MSRASH	BOX 2900	EDMOND OK 73063	341-0354
BROWN JOHN	MSRST	3330 N GLENHARDEN DR	HIGHWAY CITY OK 73110	752-4240
BROWN LARRY	A	445 E. CARSON LN.	MUSTANG OK 73064	745-4055
BROWN J.P. GLEN	MSRST	RT 1 BOX 805	PONCA CITY OK 74401	-
BROWN P. GLEN	KACSTC	BOX 807	CUNY TO 74374	-
BROWN P. GLEN	KACSTC	BOX 807	PONCA CITY OK 74401	745-7545
BLACK ELMO	MSRCS	413 NE 38 TERRACE	OKLA CITY OK 73105	528-4447
BLACK LEROY	MSRCS	724 MOORE	NORMAN OK 73049	327-2222
BLACKLEY C.E.	MSRST	RT 1 BOX 109	EDMOS OK 74801	740-4217
BLACK HAROLD	MSMA	RFD	CALUMET OK 73014	-
BLOOMHART FRED	MSL	2900 BIRD DR	OKLA CITY OK 73121	427-2505
BLOTTIE MEL	MSAL	1704 CHARLES ST	NORMAN OK 73049	225-3098
BLOTTIER LARRY	COCO	3460 S. HARVEY	OKLA CITY OK 73129	346-4294
BLOTTIER LARRY	COCO	3460 S. HARVEY	OKLA CITY OK 73128	434-4294
BLOTTIER MELVIN	MSRM	2817 LAKESIDE DR	OKLA CITY OK 73120	755-0454
BLOTTIN STAN	MSRST	912 S ST PAUL	HIGHWAY CITY OK 73130	730-2229
BLOTT TOMMY	MSRST	1805 RITTER DR	OKLA CITY OK 73132	731-5704
BLOTT DAVID	COCO	617 N MARSHALL	OKLA CITY OK 73127	495-3251
BLOTT AL	MSOON	316 REYNOLDS RD	EDMOND OK 73034	341-4440
BLOTT LUTHER	MSRSM	529 SW 42 TURN	OKLA CITY OK 73139	-
BLOTT CECIL	MSAC	3244 S. KLEIN	OKLA CITY OK 73069	634-1940
BLOTT BOB	CP/M	16 EAST ST.	EDMOND OK 73034	348-5149
BLOTT AL	MSM	BOX 203 HODGAR RT.	ARDMORE OK 73401	223-4921
BLOTT THOMAS	MSRSM	1805 N. PATTERSON	EDMORE OK 73440	-
BLOTT DENISE	MSRMO	6200 NW 87	OKLA CITY OK 73132	942-7738
BLOTT BOB	MSM	6200 NW 87	OKLA CITY OK 73132	942-7738
BLOTT GERALD	MSOCP	PO BOX 254	MORELAND OK 73852	994-5400
BLOTT HANK	MSRSM	RT 1 BOX 54	VICI OK 73859	995-0173
BLOTT NICHOL	MSRSM	RT 1 BOX 54	VICI OK 73859	995-0173
BLOTT JERRY	MSRSM	4004 FAIRVIEW	DEL CITY OK 73115	677-7254
BLOTT CRAIG	MSRSM	BOX 26491	OKLA CITY OK 73126	713-0320
BLOTT JOHN	COCO	RT 1 BOX 78P10	JAMES OK 73049	277-3647
BLOTT BONNIE	COCO	12351 HARMS RD #224	DALLAS TX 75249	-
BLOTT ROBERT	MSRSM	8212 NW 93	OKLA CITY OK 73132	722-6880
BLOTT RON	MSRST	11104 NW 113	MOON OK 73099	373-2824
BLOTT LINDA	MSRM	1322 WESTCHESTER AVE	NORMAN OK 73049	321-5091
BLOTT MELVIN	CP/M	5719 NW 34	OKLA CITY OK 73122	942-7185
BLOTT HAROLD	MSRSM	1349 S.W. 47	OKLA CITY OK 73139	685-0488
BLOTT LARRY	MSRSM	14485 S E 23	CHOCTAW OK 73020	290-0126
BLOTT TEN	COCO	101 S CAPITAL	CUTHRIE OK 73044	280-1722
BLOTT JEN	A	ST 1 BOX 191	FAIRVIEW OK 73037	-
BLOTT J.R. ALBERT	MSRSM	62300 CYPRESS AVE	NORMAN OK 73049	321-6074
BLOTT ROSE	MSRSM	413 E WILLIAMS DR	MOORE OK 73160	794-1793
BLOTT DON A	A	RT 1 BOX 229	PONCA CITY OK 74401	-
BLOTT WILLIAM	MSYOT	2537 EDEWOOD DR	OKLA OK 73160	794-0406
BLOTT HERALD	MSRSM	4618 VIOLET DR	DEL CITY OK 73115	672-9185
BLOTT JEROME	MSRSM	1200 WESTBROOK	TERMONAH OK 73049	329-0262
BLOTT JANE	MSRSM	5833 NW 31	OKLA CITY OK 73122	947-0824
BLOTT DON	MSRSM	11230 ALABAMA DR	NORMAN OK 73071	344-2228
BLOTT DON	MSRST	3717 N. MILLER	OKLA CITY OK 73112	943-9073
BLOTT HAROLD	MSRST	317 N. FORD	DANMOS OK 74801	675-3999

BRANDEN JEE	MSOH	1524 N. SARA RD	MUSTANG OK 73064	376-4253	ENRIGHT BETTY	KAGLA RR 4 BOX 134	OKMOR OK 73042	263-4411
BROWDER ROBERT	COCO	3410 CARLISLE CT	OKLA CITY OK 73120	842-0586	ENRIGHT EDGAR	WESBOR RR 4 BOX 134	OKMOR OK 73042	263-4411
BROWDER CURTIS	MSOH	3023 ROLLINGSTONE	MOOKLA CITY OK 73120	751-2458	ENGLE DAN	MSOJL BOX 314	SEILING OK 73043	922-4278
BRUNER DON	MSHOK	6454 NM 30 TOW	SETHAW OK 73008	789-1930	ENGLISH ART	MSPTN 2644 NE 10	NEHEST CITY OK 73130	732-9400
BRYAN MARY	MSHOK	BOX 249	JONESTON OK 73439	544-2177	ENGLISH ROSE	COCO 5305 GAINES	OKLA CITY OK 73135	479-4734
BRYAN RAY	MSHOK	BOX 249	KINGSTON OK 73439	544-2177	ESADDOOH KEN	MSHON PO BOX 113	NORMAN OK 73070	329-4667
BUCHANAN JAMES	MSHOK	3114 WHEELER AVE	BETHANY OK 73008	495-2777	ESTLINDAH BEVERLY	MSHOK 30732 PRINCETON	EDMOR OK 73034	341-2659
BUNCE GEORGE	MSHOK	RT 1 BOX 85	EDMOR OK 73034	341-6419	EVERITT DOUG	MSHON BOX 3094	EDMOR OK 73032	359-0648
BURN JOE	MSHOK	409 NE 40	OKLA CITY OK 73105	848-8031	EVERITT DOUG	MSHON BOX 74531	OKLA CITY OK 73147	949-1928
BURDICK KEN L.	MSHOK	444 S.W. 40TH TERR	OKLA CITY OK 73109	432-1822	FAGAN JOHN	MSHOK 2329 BLUE CREEK	NORMAN OK 73071	344-1902
BURGH HENRY	MSHON	2504 NM 119	OKLA CITY OK 73120	751-1646	FANT DAVE	MSHON BOX 1423	MOBILE OK 73048	340-5452
BURRELL DAVID	COCO	1433 N BRADLEY	OKLA CITY OK 73127	495-0052	FARRAR KIMBERLY	MSHOK BOX 57	SEWER OK 73134	828-4214
BURRELL LAUREE	COCO	7625 LANIER LN	OKLA CITY OK 73132	722-5889	FARRELL A.E.	MSHON 4324 SE 16	DEL CITY OK 73115	677-4587
BURSEY CHARLES	MSHON	RT 2 BOX 492	VERNON TX 74364	-	FAUSZ EDWARD	MSHON 217 SUNSET STREP	SAFOLA OK 74032	-
BURKE HENRY	MSHOK	BOX 2207	NORMAN OK 73070	344-1725	FOX A	A 9300 LBJ FREEWAY	DALLAS TX 75243	-
BUSHELL JIM	MSHOK	1364 W PARK PL	OKLA CITY OK 73106	-	FEDERSON JOHN	MSHON 11013 NM 114TH	YUKON OK 73099	373-1537
BUSHELL JOE	MSHOK	3012 EDWARDS	MIDWEST CITY OK 73110	732-0476	FELTMEYER OHMEDIOS	2420 RICHMOND RD	MOOREHEAD OK 73061	254-7374
CALLERON JOHN	MSHON	495 NM 121	OKLA CITY OK 73114	751-3620	FERGUSON DAVID	MSHOK 207 E. BOWEN	MUSTANG OK 73064	276-2962
CAMPBELL BILL	MSHOK	BOX 89	ARCADIA OK 73007	396-2714	FIELDS FRANK	MSHOK 3820 RIVERSIDE DR	BETHANY OK 73008	789-8419
CAMPBELL WAYNE	KALIF	7237 SEMINOLE TERR	OKLA CITY OK 73132	721-4294	FIELDS KENNETH	MSHON BOX 438	MOBILE OK 74051	391-5384
CARRA DAVID	MSHOK	2539 NM 115 PL	OKLA CITY OK 73120	751-5472	FIRSTSTONE FRED	MSHON 4917 STONEMORE DR	OKLA CITY OK 73132	-
CARROLL LOYD	MSHON	316 MOISELLE BL	MIDWEST CITY OK 73130	732-4449	FISH JOHN	MSHON BOX 176	CALUMET OK 73014	890-2227
CARTER CHARLES	MSHOK	420 S ST. S.E.	ADMORE OK 73401	223-2390	FISH MARGARET	MSHOK BOX 108	CALUMET OK 73014	890-2227
CARTER JOSEPH	MSHOK	7021 NM 48	BETHANY OK 73008	789-2512	FISHER MONTE	MSHON BOX 106	EDMOR OK 73034	-
CASH CECIL	MSHON	1802 NM SMITH	LAWTON OK 73501	355-4337	FITZGERALD C.J.	MSHOK 2330 NM 56	OKLA CITY OK 73112	842-9408
CASH JERRY	MSHOK	1911 WILMINGTON CT	NORMAN OK 73071	340-3370	FLETCHER JAMES	MSHOK RT 1 BOX 319	NEWCASTLE OK 73045	387-4356
CASTLEBERRY REUBEN	MSHOK	993 NICHOLS AVE	LITTLETON CO 80122	-	FLICK JOHN	COCO 4125 SE 54TH	OKLA CITY OK 73135	672-3761
CAULIN W.E.	MSHOK	BOX 412	BUFFALO OK 73034	735-2960	FLYNN KEVIN	MSHON 2402 CEDAR OAK DR	EDMOR OK 73034	341-5717
CHANCELLER ALONGEN	MSHON	105 N.E. 5	NORMAN OK 73140	794-4911	FOLEY DELBERT	MSHON 1708 RICHWAY	PONCA CITY OK 74001	742-4479
CHAPMAN FRED	MSHON	1302 WESTMAN	NORMAN OK 73049	344-5395	FORD GERRY	MSHOK 402 - 15TH	MOOREHEAD OK 73061	254-5342
CHESLEY JIM	A	1237 S. ROCKFORD RD	ADMORE OK 73401	224-2741	FORD LOIS	MSHON PO BOX 253	OKLA CITY OK 73043	923-3081
CHILCOT JIM	MSHOK	3137 CRANFORD DR	ADMORE OK 73401	224-4814	FORD ROY	MSHON PO BOX 253	GAGE OK 73040	923-3081
CHUTE JOHN	MSHOK	1625 SHEFFIELD DR	NORMAN OK 73071	321-5012	FORREST LEE	MSHOK 4308 SE 8	MIDWEST CITY OK 73110	737-2316
CHRISTIAN JOE	MSHOK	339 WOODCREST DR	NORMAN OK 73071	340-2178	FOSS JOHNNY	COCO 505 NE 20	NORMAN OK 73070	-
CHRISTIAN LARRY	MSHOK	100 N.E. 11TH	MOORE OK 73145	779-8021	FOSTER BILL	MSHON STAR RT. A	LAWTON OK 73501	-
CHRISTIAN PAUL	MSHOK	732 N. WARREN	OKLA CITY OK 73107	944-7579	FOSTER ELLARD	MSHOK 5905 NM 42	OKLA CITY OK 73122	789-4702
CHURCHILL DAVID	MSHON	701 ANHEIM CT	OKLA CITY OK 73139	-	FOX H.D.	COCO BOX		

COLLECTOR &amp; EMITTER + FEBRUARY 1986 17

BY CALL SIGN

07/29 AM 3 FL. HIGHEST CITY OF 73:30











## 146.55 SIMPLEX OPERATORS

The group (some 60) and friends met at Furr's Cafeteria in South Shields Mall, 6:30pm, the 9th for a meal and eyeball QSO.

The following was observed. As everyone was enjoying himself.

It was the usual fun of putting a face with a voice and a call. NX5J received the honor of being the most traveled to be with us as he is working in Deadhorse Alaska. You can't get much further north than that.

NX5E was late and that was not unusual. It is interesting to note the occupations represented. W5RB (OK OLZ Net and RN5) recruiting some operators, it appeared he had some success as I have heard some check-ins from the group.

N5IND expressing his view on the FCC exams, particularly on the Advance test as he now proclaims that he will pass on the third time. NX5J commented on the WX and our complaining about it. WB5SRX on the amount of time his Kenwood has been out of service so we loaned him a rig and the TRFC nets sound normal again. KB5EK looking for DX (Caught him trying to work NX5J and dis-allowed). NW5M just enjoying himself. NX5A wandering around. WD5IHJ being reminded of his diet by N5BLJ. (Boy these things are rough on a diet). KE5KR wondering about who was going to Dayton this year. W5MCJ visiting with W5RB about the old days. WB5H on reading 500 questions and answers (it was really 400). KA5IPY promising to get back on the air when fishing get slow.

WA5R on how to make a mobile get out. N5IDG says he had best improve it before next deer season. NX5K needing a gamma match for his beams he has put together. KA5ULR - Yes, I'm going to put up a vertical so I can hear you. KA5JWQ school is about to destroy my radioing. NX5E late (this is not unusual). You talk about how to fill a platter, check with him. NW5Q trying to start a QSO with the little ones and they would not transmit.

K5QXQ and N5INL needing cheap 2 meter rig to work OKC from Watonga. N5FMM looking for NX5A who was wandering around and around. NY5N and NX5J disgusted with Murphy's Law being in their corner seems like each new piece of equipment they get needs to be sent back before it will operate. NW5Z and N5EQE eating their first meal after diet (Hi Hi). KA5LIJ trying to get grandpa KA5OUA to take their meal ticket, and he did. N5FRT and KA5LIK chasing two QRM's who



There will be a video presentation at the next meeting on February 4th, entitled "Looking Forward To Being Attacked." This is an excellent night to bring the family, for the topic deals with self-defense. This video program is brought to us by Art Hernandez, KF5DK, of Yukon. This is a repeat of a successful program from Ham Holiday!

Back by popular demand - Ron, ND5S, will be conducting a tour of the General Motors plant in March. Details can be found elsewhere in this issue.

\*\*\*\*\*  
For all the "Nite-Owls" out there, here's some info on a get-together that is open to anyone that wants to attend. This is going to be a night of good eats and some good rag-chewing. Anyone that ever listens or participates in the Night Owl Net that is held each evening at 10:30pm on the 146.07/67 machine probably wonder what everyone else looks like and may like to get in some eyeball QSO's. This is a chance to put a face to a name and callsign. Presently, the location is still being discussed, but the date will be Saturday, March 15. There will be NO program, just some good fellowship. Tune in to the net for developments.

Our thanks to Mike, KA5TFD, for an excellent program on the 3rd Combat Information Systems Group at Tinker AFB. The slides showed how our tax dollars go and Uncle Sam only buys the best and most expensive.

Since Mike is our Secretary and writes our column in the C&E, he probably won't say much or pat himself on the back for a very good job - so consider that.

I'm looking forward to next months meeting - see you all there.

Doc, KX5W

were really enjoying it.

Orlie.

NX5I



146.55 Simplex Eyeballers

Photo by Steve.

## MORE G C W A

Our good friend Cecil Cash, W5PML, slipped me a couple of "goodies" at the meeting. One we had already used, so we will put it in the files. However, the other is timely and is reproduced herewith:

### THE ARMY IN THE GOOD OLD DAYS OPERATION HALLEYS COMET

The story goes that in 1910 the Army chain of command worked like this:

A Colonel issued the following directive to an executive officer: "Tomorrow evening at approximately 2000 hours, Halley's Comet will be visible in the area, an event which occurs only once every 76 years. Have the men fall out in the battalion area in fatigues and I will explain this rare phenomenon to them. In case of rain we will not be able to see anything, so assemble the men in the theatre and I will show a film of this."

Executive officer to the Company Commander --- "By order of the Colonel, tomorrow at 2000 hours Halley's Comet will appear above the battalion area. If it rains, fall the men out in fatigues, then march them to the theatre where the rare phenomenon will take place, something which occurs only every 76 years."

Company Commander to Lieutenant --- "By order of the Colonel, in fatigues at 2000 hours tomorrow evening the phenomenal Halley's Comet will appear in the theater. In case of rain in the battalion area, the Colonel will give another order, one which occurs every 76 years."

Lieutenant to Sergeant --- "Tomorrow at 2000 hours, the Colonel will appear in the theater with Halley's Comet, something which happens every 76 years. If it rains, the Colonel will order the comet into the battalion area."

Sergeant to squad --- "When it rains tomorrow at 2000 hours, the phenomenal 76 year-old General Halley, accompanied by the Colonel, will drive his comet through the battalion area theater in his fatigues."

...So, what else is new?  
Say goodnight Robby...

73 - Rob-AA00

# VOLUNTEER EXAMINER PROGRAM

I'LL BEGIN THIS MONTH'S ARTICLE BY FILLING YOU IN ON WHAT TOOK PLACE IN DECEMBER. WE HAD 11 PEOPLE SHOW UP FOR TESTING AND HAD 4 UPGRADES. CHARLES WBSKJD WENT FROM ADVANCED TO EXTRA CLASS, PAUL KASSTX WENT FROM TECH TO GENERAL CLASS, FUKUKO KASDMM WENT FROM TECH TO GENERAL, AND LARRY KASUYX WENT FROM TECH TO ADVANCED. A HEARTY CONGRATULATIONS TO THE NEW UPGRADES.

JANUARY'S TEST SESSION HAD US TESTING 12 CANDIDATES WITH 8 UPGRADES. ROB STRUBLE WENT FROM NO LICENSE TO NOVICE, RANDALL HUNTER WENT FROM NO LICENSE TO TECH, AND BRETT SLOAN WENT FROM NO LICENSE TO TECH (THREE BRAND NEW HAMS, YEH!!!!!!). IN ADDITION ROBERT KASUCX WENT FROM NOVICE TO TECH, TOMMIE KASWAY WENT FROM TECH TO GENERAL, JERRY NSIQA WENT FROM TECH TO GENERAL, LARRY KASYKQ WENT FROM NOVICE TO GENERAL (AND ALSO SNAGGED A 20 WPM CODE CERTIFICATE), AND MURRAY KASYIA WENT FROM NOVICE TO TECH. HATS OFF TO OUR JANUARY UPGRADES.

AS WAS PRINTED IN THE LAST C&E, THE V.E. TEST SESSIONS ARE NOW GIVEN ON THE 3RD MONDAY OF EACH MONTH. TEST SESSIONS FOR THE 1987 CALENDAR YEAR ARE AS FOLLOWS:

JANUARY 20	JULY 21
FEBRUARY 17	AUGUST 18
MARCH 17	SEPTEMBER 15
APRIL 21	OCTOBER 20
MAY 19	NOVEMBER 17
JUNE 16	DECEMBER 15

THESE TESTS ARE GIVEN AT 6:00 P.M. AT THE OKLAHOMA CITY RED CROSS AT 10TH AND HUDSON. THESE SESSIONS ARE CONDUCTED UNDER THE W5YI PROGRAM AND ARE SPONSORED BY C.O.R.A.

WE WOULD LIKE TO REMIND YOU THAT THESE TEST SESSIONS ARE FOR ALL LICENSE GRADES; FROM NOVICE TO EXTRA CLASS. WALK-INS ARE ACCEPTED. WHEN ATTENDING A TEST SESSION, PLEASE BRING THE FOLLOWING:

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

IF YOU DO NOT HAVE A FORM 610, ONE WILL BE PROVIDED. A \$4.25

DON'T  
FORGET  
THE  
WEATHER  
MEETING

7:00 PM FEB 18

800 N. PORTLAND  
INSTEAD OF CHANEL 9  
TALK IN 146.82

EVERYONE INVITED

A gentleman today is a man who holds the door open for his wife while she carries in the grocery bags.

A husband was berating his wife for her extravagant spending. "How many times do I have to tell you," he shouted, "that it's economically unsound to spend money before you get it." "Oh, I don't know about that," the wife snapped. "This way, if you don't get the money, at least you've got something to show for it."

Most of us at one time or another like the man who was overheard telling his wife, "Now look, I know what I know, and it's no use trying to confuse me with the acts."

FEE WILL BE CHARGED, AND THIS FEE COVERS AS MANY ELEMENTS AS YOU SUCCESSFULLY CONTINUE TO PASS (YOU LOSE NOTHING BY AIMING FOR THE HIGHEST LICENSE AND IT GIVES YOU THE OPPORTUNITY TO SEE WHAT YOU MAY BE IN FOR AT FUTURE TESTS).

NOVICE TESTS ARE AVAILABLE AND ARE FREE OF CHARGE.

HOPE TO SEE YOU AT THE NEXT TEST SESSION.

RON -- ND55

\*\*\*\*\*  
M.O.R.I.  
\*\*\*\*\*  
HAM NIGHT AT GM  
\*\*\*\*\*

ON MARCH 4, 1986 M.O.R.I. WILL HOST A TOUR OF THE GENERAL MOTORS ASSEMBLY PLANT WHICH WILL BE THE PROGRAM FOR THE EVENING. WIVES/HUSBANDS, CLUB MEMBERS AND NON-MEMBERS ARE MORE THAN WELCOME TO ATTEND. A MEETING ROOM WILL BE PROVIDED TO CONDUCT NORMAL CLUB BUSINESS. THE TOUR WILL BE AT 8:00 P.M.; YOU MAY ENTER THE BUILDING ANYTIME AFTER 7:00. "TALK IN" WILL BE ON THE 146.67 MACHINE.

THE TOUR WILL TAKE APPROXIMATELY 90 MINUTES AND MEMBERS ARE REMINDED TO WEAR COMFORTABLE SHOES AS THE TOUR IS EQUIVALENT TO A TWO MILE WALK. WHEEL CHAIRS CAN BE ACCOMMODATED, HOWEVER THOSE WITH A WALKING DISABILITY MAY WANT TO ATTEND THE MEETING, BUT FOREGO THE TOUR. SAFETY GLASSES WILL BE PROVIDED, IF YOU WEAR PRESCRIPTION GLASSES THOSE WILL DO FINE. CAMERAS ARE NOT PERMITTED IN THE PLANT.

THE ENVIRONMENT IN THE PLANT IS QUITE NOISY. PLEASE BRING YOUR HANDY TALKIE AND AN EAR PLUG, AS WE WILL CONDUCT THE TOUR AND HAVE A RUNNING COMMENTARY ON 2 METER SIMPLEX.

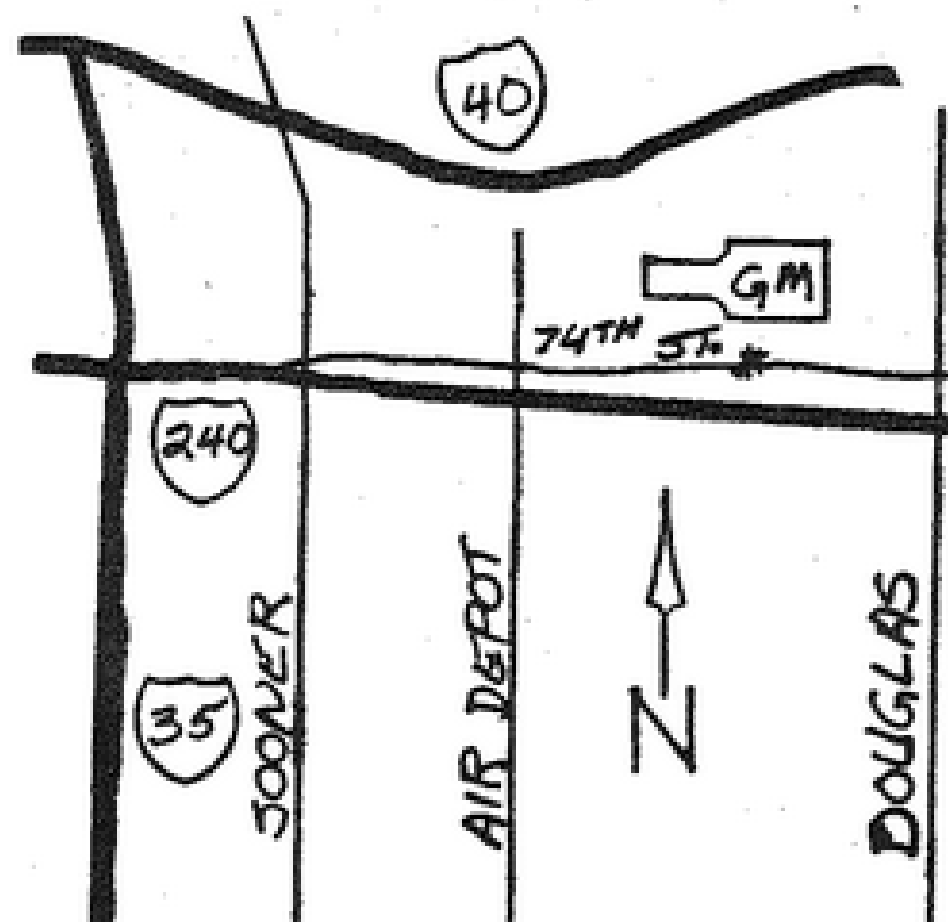
THE GENERAL MOTORS PLANT IS BORDERED ON THE NORTH AND EAST BY TINKER AIR FORCE BASE. TO GET THERE TAKE:

- I240 TO SOONER RD.
- NORTHBOUND
- RIGHT ON S.E. 74TH ST.
- PROCEED EAST PAST AIR DEPOT (FIRE STATION WILL BE ON YOUR RIGHT.)

ENTER THE PARKING LOT IN FRONT OF THE MAIN LOBBY (BY THE U.S. FLAG). PROCEED TO THE LOBBY; MEETING ROOM IS TO THE RIGHT.

HOPE TO SEE YOU THERE.

RON ND55





### Minutes of January Meeting

Meeting was called to order at 10:00 A.M. by President Jerry, KD5IS, with 13 members and guests present.

Ellard, W5KE, gave the Treasurer's report, and with some assistance from Joe, WA5ZNF, gave the CORA report.

Elections were held. The results were:

Jerry Wetmore, KD5IS, President  
Hugh Benson, KA5DGY, Vice-Pres.  
Ellard Foster, W5KE, Treasurer  
Joe Buswell, K5JB, Secretary

Meeting adjourned at 10:45 A.M. for coffee and donuts. Then an antenna party was held. Special thanks are extended to Mike, KA5TSD; Richard, KA5TTH; Rick, WA5U; Craig, WE5I; and Jim, K5VRL; who made a special effort to get the new tribander and ten foot mast installed at the club's Red Cross station. Meeting minutes were taken by Jerry, KD5IS, for the Secretary who was absent. Joe, K5JB, Sec'y

### Portable HF Antennas

One amateur radio technical subject that continues to hold an extreme interest for me is antennas. No other technical aspect of our hobby piques my imagination as much and holds as much performance potential for so little cost. I have experienced many visits to remote locations, and with the help of my long suffering friends have enjoyed many hours of portable high frequency operation using various kinds of antennas. I have concluded that the most easily installed design is an unbalanced, voltage fed one, but the most efficient is probably a balanced one that doesn't depend on a ground connection to carry part of the antenna currents. But, I am jumping ahead of the subject a bit.

In the January 1986 issue of RF Design, Gary Breed published an article titled "Antennas: The Key to Effective Transportable Communications". It was rather disappointing from a technical point of view but it did list a number of manufacturers of portable antennas and transceivers that are designed for the technically unsophisticated user in mind. The radio equipment included 1.6 to 30 MHz, 125 Watt SSB transceiver in a "carry on" size suitcase, manufactured by Trans World Communications. There was also a description of a 1.6 to 100 MHz, 100 Watt unit manufactured by Cubic Communications, also contained in a suitcase. Both of these systems contain built-in, manual antenna tuners.

The antennas (the subject of the article remember?) included a rather blah discone that covered 27 to 87 MHz, a

kit containing a hank of wire, and a broad band dipole with "egg beater" elements, made by Snyder Communications.

I have seen more complete antenna assortment in Bob, W5HXL's travel trailer's junkie box. In fact, my favorite has been his "cantenna", a can outfitted with all the stuff needed to put a respectable antenna into the trees, or any other handy support.

The antenna kit I usually depend on is an old wire reel, about 6 inches in diameter across the flanges and about 7 inches wide, which is big enough to hold about 50 feet of coax, three pairs of wires cut for a half wave at 75, 40 and 20 meters, and enough nylon trot line tied to each to reach the ground when the wires are tied to a center insulator 50 feet off the ground. A thick wall plastic tube about 3/4 inch diameter was cut in two pieces to make a handle for cranking the reel and an axle extending through its center for holding it. All the wires, lines and coax are reeled off onto the ground and then assembled to the center insulator. The real advantage of the axle and crank is the ease that all the antennas can be rolled back on the reel. The antennas are put on the thing one at a time with the end of each one tied to the end of the next.

The wire ends that connect to the center insulator have hook type wire lugs soldered and they are quickly connected to a home made center insulator. The center insulator is a piece of Lexan with holes drilled for the screws that hold the elements and for the nylon cord that suspends the thing in the air. A piece of aluminum bent at a right angle is bolted to the insulator and makes a flange which hold a chassis coax connector.

With this antenna kit I can operate (the pre-WARC) 80 through 10 meters. The longer antenna works on 80 and 10 and the 40 meter antenna works on 40 and 15. This type of antenna offers about the maximum performance one can get in a portable environment because there are no efficiency trade-offs. It does require a lot of stringing and tying. A single random wire is an alternative that is much quicker to put up.

For monopole, random wire operation, I depend on an antenna tuner. After a lot of experimentation with antenna matching networks (and a lot of QRM, I might add) I finally settled on a T network consisting of two variable capacitors of roughly 500 pF each forming the series parts and a roller inductor of approximately 27 uH forming the shunt part. I like this set-up because it is easy to tune. First, both capacitors are fully meshed. Then, a small amount of power is fed to the thing and the reflected power monitored while the inductor is rolled from maximum inductance downward. At some point the reflected power dips

and the capacitor on the transmitter side can be unmeshed a little with one hand while the inductor is cranked with the other. Nine times out of ten the reflected power will quickly drop to zero. When it doesn't seem to be responding as the capacitor is unmeshed, the output capacitor is unmeshed instead. I have never had a problem tuning an antenna circuit with this thing.

For best performance with a monopole, I try to plan for a voltage feed condition, meaning some length other than a quarter wave, or multiple of a quarter wave. If the radiator is a quarter wave, the feed point current will be at its maximum for a given power level. This means that you have to have a good, low loss ground. That is hard to do without spending more effort than the balanced antenna (dipole) would cause. When the antenna is voltage fed, the feed currents are low and you can get by with murder as far as grounding goes and the losses will be low. Things might be a little flaky acting because of the high voltage crawling around on things but the antenna will radiate well.

One autumn, Fred, W5NL, and I had a bunch of fun running experiments in the Colorado Rockies with all kinds of antenna configurations. With the help of the tall pine trees and a bit of capacitive top hat loading we succeeded in getting a half wave, bottom fed antenna for 75 meters erected. The performance was almost-identical to the 75 meter dipoles we had stringing around every which way. Many times I have operated with an antenna as simple as a piece of wire strung out a hotel window, taped to the walkway ceiling and tied to a screwdriver stuck in the lawn. N5MS and I have hung several antennas of that design out of windows and managed to generate quite respectable signals. The most memorable was one at the Dayton Hamvention where we were using a neon lamp for tuning indication. The lamp got loose from us and slid to the end of the wire where it flashed with great brilliance when we talked. A patron in the bar downstairs reported something "sparking" outside and the security force had a problem on their hands trying to figure out what the devil we were doing and whether to believe us or not!

In one clandestine operation in Bethesda Maryland I used number 30 wire, formed into an inverted vee, and extending from my hotel room window out into the parking lot. It was practically invisible in the daytime.

I have to conclude that messing with antennas has to be about the most economical experimentation amateur radio has offered to me! Joe, K5JB

### Packet Happening in Muskogee

There was a dandy meeting in Muskogee, Saturday January 18, organized by the packeteros in eastern Oklahoma and Arkansas. The meeting was originally



intended to be held at the submarine Batfish but was moved to a city park community meeting hall because of the unexpected interest the meeting drew. There were seventy folks attending and perhaps two-thirds were there to find out what was going on; and that they did, perhaps many of them learning more than they really wanted to know.

The meeting was organized through the efforts of an informal group of packeters who call themselves OAKNET, an abbreviation for Oklahoma-Arkansas NET. Bob, WA5AOH, Fort Gibson; Joe, WA5VMS, Muskogee; Doug, WB5HLR, Sallisaw; and Ron, WB5TTU, Hugo; are some of the folks who sparkplugged the meeting. They got assistance from the Muskogee Amateur Radio Club who arranged the meeting place and provided lots of donuts. I am sure there were other key people who help set it up and prepare for the meeting and I regret not being able to supply a complete list but the efforts of all those who organized the meeting were certainly appreciated. I was just too busy listening to all the interesting stuff to take notes!

The meeting covered the whole spectrum of packet radio. Joe, WA5FLT, and I arrived an hour late and a Video tape of Pete Eaton, WB9FLW, was showing. It was an older tape but Pete, a member of Tucson Amateur Packet Radio (TAPR), was giving a complete presentation of the state of things in packet radio. It must have been a good catalyst because there were certainly a lot of questions after it finished. (Bob, WB5AOH, offered to make a copy of the tape available to anybody who would like to show it to friends. Contact him for copying arrangements. Joe, WA5FLT, also has a video tape of another presentation, including some TAPR folks, available for copying.)

The group asked many questions relating to equipment, operating practice, performance, etc.

Joe, WA5VMS, had a TAPR TNC 1 on display and operating. Ward, WA5NRT, Colcord, had a Commodore 64 and AEA PK-64 operating. Bob, WB5AOH, had his TAPR TNC 2 in his pickup, with a beam antenna, operating in the parking lot. Another gentleman, whose name and call I failed to note, gave a detailed description of his experience with and showed off the Kantronics. The confusing array of available equipment was pretty thoroughly described and the questions boiled down to one of TAPR design vs. Kantronics (Kind of like Ford vs. Chevrolet). Whatever design is chosen, there is certainly no compatibility problems with the rest of the TNCs in use. Much of it depends on prior personal experience and preference.

Larry, WB5MPU, described his bulletin board at Lake Keystone, (WB5MPU-1) which makes a great gathering spot for those who can't be on the air all the time. Messages posted there can be retrieved by routing connections through various paths, which are con-

tinuously strengthening and improving. A handout compiled by the OAKNET group and copied by Ron, WB5TTU was provided to the group. It contained a path map, a Local Area Net (LAN) map, a paper WB5TTU prepared on packet radio and emergency communications, extractions from ARRL Section Managers on packet radio, some material from the TAPR Packet Status Register, description of the ISO network model and its layers (see below), a list of Oklahoma packet stations a reprint of a World-Radio article and a price range list of various TNC models.

The person who traveled the farthest was David Cheek, WA5MWD, from Garland Texas, and a good thing he came! He was prevailed upon to cover nearly all aspects of packet radio, and its operation in the Dallas area. He operates a WØRLI bulletin board on 145.01 and described the frequency congestion considerations when everyone is on the same frequency. He advised the group of parameters he has found improve the performance and practicality under difficult and congested conditions. For example, he recommended a retry of only three because if a packet isn't going to make it in three tries, it is going to have a difficult time and only serves to clutter up the frequency for others. When a given frequency begins to get too congested, people naturally QSY. In the Dallas area, 145.01 is already so crowded that that frequency is normally used for establishing contact and those with paths not requiring digipeaters simply move off frequency to continue. Digipeaters generally are remote and operate on a fixed frequency. Sound familiar?

Incidentally, Sandy, WB5RRR, in Enid was not at the meeting. He was at home busy with a circuit which allows him to switch his dp frequency by remote control. Tests on January 19 were successful and he is waiting for crystals for 145.01. He will be able to switch between that frequency and 146.415.

Dave described the TEXNET activity and the work being done to build some hardware and develop the methods to accomplish a three phase development of networking in Texas. David is extremely knowledgeable in digital communication networking and described details many of the group were probably completely unfamiliar with but a few probably found very enlightening. Before they let him go they prevailed on him to cover operational aspects like traffic handling and public service. He described how the WØRLI mailbox (running on a Xerox 820 computer) is capable of forwarding traffic to other mailboxes, often using 20 Meters. He detailed operation during a couple of Simulated Tests and compared the operation to simple RTTY, which can be embarrassing for the insidious errors it can cause

From the Oklahoma City area, Jay, KBØQJ, Bill, KC5GN; T.J., N5ILR; Bob, WA5BQX; Tom, K5LDI; Joe, WA5FLT; and I were there to see what was happening.

We have not yet established a reliable connection into the OAKNET system but are getting close. (WA5BQX can hit the N5TM-1 digipeater (dp) in Cushing most of the time and we use him for the gateway. The Cushing dp can be hit by many of the key stations in Tulsa, Muskogee, Lake Keystone, etc.

The existing network is called a layer 2 network, and not the ultimate because it is fragile and easily bogged down, but it works well enough until a more sophisticated layer 3 trunking system can be developed. This layer stuff has to do with an ISO (International Standards Organization) networking model. Layer 1 is the hardware description at each terminus, Layer 2 is the link description, and Layer 3 is the network configuration.

There are currently three independent links working in Oklahoma. the eastern link extends from Cushing and Lake Keystone, Tulsa, Ft. Gibson, Sallisaw, Some Arkansas stations, Hugo, and then southward to Sherman Texas. There is a fairly reliable link between Oklahoma City and Enid. The third link extends from Anadarko, through Duncan, to Ardmore. It is only a matter of time before the gaps are filled and these locations, and others are reliably tied together. It is an exciting prospect that 100 percent accurate traffic can be passed, under any weather conditions, between amateur stations!

Regardless of its effectiveness, Layer 2 linking is providing a method for those with packet radio interest to communicate easily and organize functions, like the Muskogee meeting and establish the synergism that will cause packet radio to flourish.

A few of the packeters are regulars on 75 meters and it was suggested that we make the OPEN (Oklahoma Phone Emergency Net) which meets on Sunday mornings at 8:00 A.M. a watering hole so those who are not yet on packet radio will have an opportunity to make connection with those who are.

Four of the meeting participants were identified as contacts who would be able to arrange to have demonstrations performed for groups who would like to see packet radio in operation. They may not do the demos themselves but will put the word on the net so some arrangements can be made. Ron, WB5TTU, in Hugo, WB5AOH, Bob, in Ft. Gibson (near Muskogee), N5TM, Mike, in Tulsa, and I in Midwest City would be glad to act as contacts and try to get demonstrations arranged, so contact any of us.

There was discussion about whether the OAKNET should be more formally organized and Ron, WB5TTU, volunteered to develop a proposed set of goals. With the communications network (and personal network, for that matter) the OAKNET is already pretty well organized, I would say, but there was discussion about whether it would be desirable to become more formal, and

perhaps investigate the requirements for petitioning CORA for membership. In the interim, I volunteered to share with the "outside world" what the packeteros were up to through my column in the C&E. (Now you know why this is such a loquacious article!) If I can gain a reliable access to the WB5MPU-1 mailbox, I will be able to gather news electronically and share them with the rest of the C&E world by just doing a cut-and-paste operation.

#### Packet Radio on the Shuttle

This update on SAREX is reprinted from Gateway, The ARRL Packet-Radio Newsletter Vol. 2, Issue 9, Dec. 20, 1985. The report was prepared by Tom Clark, W3IWI.

#### Work Continues On SAREX II

"Many of you are aware that we are hard at work to get SAREX II built. SAREX II is an acronym for Shuttle Amateur Radio Experiment; SAREX I was the slow-scan TV that W00RE used earlier this year.

SAREX II is to be a packet-radio package consisting of a flight-hardened TAPR TNC 2 coupled to a Radio Shack Model-100 lap-top computer and the same Motorola "MX" series HT used on previous Amateur Radio shuttle flights.

We are striving, pending approval from NASA, to have this hardware carried by Ron Parise, WA4SIR, when he flies on mission 61-E taking off March 6, 1986. The crew working on hardware and software to make this happen are located in Maryland, Arizona, Florida, Texas, Arizona and Iowa.

We now have prototype SAREX II software operating on 145.05 in the Baltimore/Washington area under the call W3IWI-5. It is under test to see if local users can make it croak! It has several unique features:

**ROBOT** -- This is an automatic QSO machine that will work you and assign you a unique serial number (in hex) for your QSO, and then disconnect.

**WORKED beacon** -- If you successfully complete a QSO, your call and serial number will appear at the top of the "WORKED" beacon list. For local testing this (and other) beacons are being sent every 15 minutes. In flight they will be repeated every 15 seconds or so.

**HEARD beacon** -- This beacon begins with a beacon sequence number (to help piece the log together in flight) and lists the calls heard most recently.

A normal beacon (currently addressed to SAREX II) is also used to send a brief (up to 120 bytes) information packet.

A "meta-beacon" is also available (but is currently turned off) to send up to 1.7 Kbytes (7 \* 255 bytes) of information. It is planned that this feature

will be used in flight to downlink a mission status bulletin every couple of minutes or so.

These features have been designed to permit a large number of packeteers to experience the thrill of space communications even if WA4SIR is not personally available.

During the mission, some time will be reserved for special packet tests including an orbital demo of store-and-forward communications (a la PAC-SAT); software to support this special mode is to be housed in the Model 100.

The ROBOT supports multiple QSO's simultaneously. Balto/Wash users are invited to become abusers and to try to crash the test software. Gang up on W3IWI-5. Lambaste it with simultaneous packets. Try to make it croak. Make my day!!! Meanwhile, W3IWI-5 will also continue to serve as a local coverage digipeater from its location at NASA/Goddard in Greenbelt, Maryland.

Reports on how it works will be appreciated. Especially solicited are bug reports which should contain as much info as possible on what happened. It's a lot easier to fix it on the ground than when it is flying in orbit!" From W3IWI

The following logging information was received from DRNET. It was posted January 4, 1986:

Subj: SAREX-2 logging and QSLing

This is an update of Shuttle Amateur Radio Experiment number two (SAREX-2) logging and QSL details including a related agreement between the Goddard Amateur Radio Club (GARC) and Central Iowa Technical Society (CITS). Logging and QSL fulfillment plans are applicable to whatever Shuttle Transportation System (STS) mission SAREX-2 flies with.

Frank Bauer, KA0HDO, GARC president and Ralph Wallio, W0RPK, CITS SAREX-2 project manager, have agreed that GARC will be responsible for design and printing of SAREX-2 QSL cards and for arrangements relating to donations covering QSL costs. They have further agreed that CITS will develop and manage the worldwide SAREX-2 HEARD and WORKED logging scheme and be responsible for SAREX-2 WORKED QSL fulfillment.

Development of IBM-PC programs to produce HEARD and WORKED logs from raw downlink packet files has been completed by CITS member John Maurer, NA0S. Data files created by the recent CITS SAREX-2 flight test have been processed into both HEARD and WORKED logs. Methods to transport downlink data files between volunteer downlink data file collectors (DDFC) and regional data reduction facilities (RDRF) and regional log files between RDRF operators and the CITS master log processing facility (MLPF) are being developed and tested.

CITS member Hasan Schiers, N0AN, RDRF coordinator will complete documentation and instructions for RDRF operators which will be available once STS flight details are known. Also, once flight details are known, Hasan will send RDRF and data file collection recruiting letters to packet radio groups and originate recruiting bulletins (via CITS gateways) on AMSAT Telemail, DRNET and COMPUSERVE HAMNET. These recruiting announcements should get worldwide publicity via AMSAT and packet radio nets and publications.

During SAREX-2 operations, RDRF operators will be responsible for arrangements necessary to transfer files from DDFC operators in their area and for processing these files into log format. They will then forward logs to the CITS MLPF for final processing. CITS will act as RDRF for DDFC operators who are not more naturally associated with other facilities.

CITS will, with the cooperation of RDRF operators worldwide, process final HEARD and WORKED logs as quickly as possible. Log information will be immediately available for the widest possible publicity.

CITS will arrange for a post office box in Des Moines, IA to receive QSLs and SASEs for QSL fulfillment. A QSL bulletin will be sent for publicity as soon as flight details are known. GARC QSL production will commence once flight details are known and resulting blank cards will be sent to CITS.

CITS will produce a complete set of QSL labels for all WORKED stations which will then wait for receipt of matching QSLs and SASEs. The appropriate adhesive label will be placed on a blank QSL card which will be stuffed into the SASE and mailed. This method will allow timely fulfillment of WORKED QSLs from the thousands of stations expected to successfully complete SAREX-2 QSOs.

#### Another TNC

This information was obtained from the Compuserve Hamnet. It got there from a packet radio bulletin board, posted by AA4RE on January 6, 1986:

Hamilton Area Packet Network introduces the HAPN PC-PACKET ADAPTER

The HAPN adapter is unique in terms of its versatility and ease of operation. It is designed for the IBM PC and compatibles. The IBM PC or compatible is rapidly becoming a leader in the HAM-world due its attractive price and excellent performance.

The HAPN packet adapter is a card that plugs directly into one of the slots of the PC. It contains a built-in modem which interfaces to the radio with a DB9 connector. The card is 8.5 inches (22 cm) long and contains a prototype area. The software is powerful and is a delight to use. The transfer of ASCII or binary files is very simple by using the function keys

on the keyboard. A popup menu allows you to set up the repeater routing table. Optional software is available for bulletin board operation. Experimental protocols such as VADCG V1 and V2 are also available.

Features of the H.A.P.N. packet adapter :

1. In addition to the American AX.25 protocol is also runs the Canadian experimental protocols V1, V2 as designed by Doug Lockhart (VE7APU) of the VADCG (Vancouver Amateur Digital Communications Group). (Doug is a world leader in modern packet radio since 1979 and founder of the VADCG.)

2. Excellent software. The software provided by HAPN is user friendly, easy to operate and very powerful. Available at present:

- a. AX.25 host support (included)
- b. bulletin board program PCRBBS (optional)
- c. file transfer programs (optional)
- d. experimental protocol support for VADCG V1, V2 (optional)

3. The HAPN adapter plugs into a PC, PC-XT, PC-AT or compatible. No external cabinet or power supply is required.

4. Simple to interface to your radio. It requires RX audio, TX audio and push-to-talk. The carrier detect (radio channel busy) is generated internally from the received data or optionally brought out from your squelch circuit.

5. The built-in modem is Bell 202 compatible. It uses the XR2206 and XR2211 chipset. The tones are 1200 and 2200Hz. The data rate is 1200 baud. A hardware watchdog circuit prevents possible TX runaway problems as a result of power glitches or lightning.

NOTE: The baud rate for the adapter is selectable by jumper from 75 baud to 9600 baud. (The on-board modem supports up to 1200 baud.)

6. The board contains a prototyping area for personal use. The area is pre-drilled.

7. The adapter is based on the INTEL 8273 HDLC/SDLC protocol controller chip with a straightforward interface to the PC.

8. The low level software (device driver) is interrupt driven and stays resident in the PC allowing the adapter to function in the background. An application program such as bulletin board, file transfer or terminal program does not have to be resident for the adapter to function. In this mode, the user is alerted to a caller by a connect alarm utilizing the PC's speaker.

9. Easy customizing for the user. The user configuration such as callsign-/SSID, auto logging of packet activity to disk, default repeater, connect

alarm etc. are set up using the configuration screen and remembered by the program. These options can be changed at any time.

#### 10. NOTE FOR PROGRAMMERS

Since the adapter uses the native code of the host computer no cross compilers are needed for anyone wanting to develop his own code.

#### ORDERING INFORMATION AND PRICE :

All prices are in US\$ and include postage and handling in USA or Canada. Please add 3\$ for overseas orders.

1. Assembled and tested board with AX.25 host software and self-test program (4 programs and documentation) \$199.00

2. Bare board with AX.25 software and construction details \$ 75.00

3. AX.25 software only \$ 40.00

4. Bulletin board & file transfer programs \$ 25.00

5. Advanced VADCG experimental software \$ 25.00

Make checks and money orders payable to H.A.P.N. The address is :

HAPN  
Box 4466, Station D.  
Hamilton, Ontario,  
Canada, L8V4S7

A Note on HAPN: The HAPN (Hamilton Area Packet Network) is a Packet Radio club founded in 1980 and dedicated to furthering the state of packet radio. It is currently involved in the design of a station node controller. The station node controller is capable of unifying a packet radio network by providing message routing, gateways and high-speed links with other nodes. Money raised with projects like this helps us pay for research and development.

HAPN is also involved in experimentation with 4800 baud modems, and experimentation with the newly developed VADCG protocol V3.

#### TAPR TNC 2 Tips

This was also pulled off of Compu-serve's Hamnet. It was posted there by Pete, WB9FLW, a TAPR member referred to as Packet Pete, on Jan 10, 1986:

Don't you just hate it when you buy something and you have to dig all the way through the bloody manual to get some obscure information? Boy I sure do! And TAPR did just that (blush)....

Seems a lot of folks have gotten interested in running HF Packet with their TNC 2s. First you must change some components to allow the modem to work 200 HZ shift, the standard for HF work. On page 24 of Chapter 5 of the System Manual there is a Table 5-3, by

changing C54 and R93 and the new CAL-SET Parameters one is led to believe the unit is set to go on HF! Close, but not quite.

In chapter 7 page 6 there is a reference to increasing C45 by a factor of 4 to increase the time constant of the DCD detection filter for HF work. Paralleling a .47 uF cap across C45 will work nicely. Also you must increase the time delay of the watchdog timer, this is accomplished by changing R83 to 3.9 megohm. R83 is located on the dip header with C54 and R93 (pretty tricky huh?).

By following the above additions with the info on 5-24 you should be all set to go!

See ya on 14.103 MHZ! Pete, WB9FLW

P.S. Many folks have contacted TAPR asking for a simple way to switch between VHF 1000 HZ shift and HF 200 HZ shift. In this upcoming issue of PSR Lyle WA7GXD has an article on a simple mod that allows you to do just that! With some luck (and a LOT of licking & stamping) those newsletters should be in members hands by the end of next week.

And another one left by Pete, WB9FLW, on Jan 10:

For anyone who is interested in HF Packet a new P.C. board for an HF Tuning Indicator for TAPR's TNC 1 & TNC 2 might save a lot of aggravation! Working HF requires very fine tuning, doing it by ear at best is tough, even with 10 HZ digital readout!

Lyle Johnson WA7GXD has laid out a neat two sided board circuit board (with the help of the Wintek's PC CAD software for the PC/XT). The circuit is taken from PSR Issue number 17 in an article by Dan Vester KE7CZ. All components are available from Radio Shack (3 IC's & 2 LED Bar Display) the result is a slick little circuit that allows you to tune to a resolution of 10 HZ!

Prototype boards have just been completed in St. Louis and will be checked by the gang in Arizona. Once they give the thumbs up TAPR will turn the crank on some blank boards.

Hopefully very soon no one needs to be off frequency (ok so I'm dreaming!).

Pete, WB9FLW

#### MFJ Announces TNC

(From Gateway Vol. 2 Issue 9)

MFJ has announced a TNC 2-type packet controller to be available to the general public in February of 1986. (Later scuttlebutt has it that there has been a delay of some kind and the MFJ TNC may not be available until March, maybe not until Hamvention in April!) Suggested retail price for the wired and tested unit is \$129.95! Joe, K5JB

# Salem

## SIGH IN THE SKY (Skyhook Department)

I never thought much about antennas for HF. Just a hank of wire in the sky and some coax out the window. I think that I am a little jinxed when it comes to working DX. I started out in amateur radio back in 1962 by going to the house of my good friend Carol K5CPZ, one of the best CW operators I know. Carol used to spend a lot of time on 40 Meters and we would work phone with her 90 watts all over the Southwest. When I finally got my license, I spent most of my time (after it took about 4 months to get an antenna up) on 40 Meters, naturally. This time it was CW. It took a while to get the antenna up in the air. There really were no decent trees and I didn't have enough coax to reach one anyway. So I strung the dipole over the house and put up a wooden support to sort of guide the antenna over the ridge. Well, it didn't work. I talked to Carol and she said that I probably needed to get the antenna up in the air. She asked her father and he offered me some pipe scraps that we could weld together to put up in the air to about 30 feet or so. My dad talked a welder into helping put the pipe together and myself, my father and mother stood 30 foot of drilling pipe straight up and dropped it into a 5 foot hole.

The pipes were about 70 foot apart in the yard. I naturally planned only on getting on 40. This time, the dipole worked perfectly and I was soon working all the CW I could stand. I got along with that dipole for a long time and still have the balun for the center support. I intend to put it back up at the new location. I eventually put up a 16 element collinear that was hand made out of drill pipe (this was a plentiful commodity in my home town). Now this was a heavy antenna. It was given to me by a friendly amateur in the next town who wanted something that was not so heavy. He also had a fifteen foot piece of tower section that came with the antenna. It had an overall height of about 25 foot to the top of the antenna. It worked pretty well with the Gonset Communicator for two meters that I had for awhile. I could work all the way to Lake Keystone, some 25 miles away!

This was the extent of my antenna collection at home. I did put up a short wire, about 20 foot long and used it for the receiving antenna for a HQ-129-X for awhile so I could try a little almost full break-in CW. Front end overload kept the recovery just a little slow. But it did work for awhile, especially for reasonably strong signals. I finally bought a T/R relay to solve the problem.

The transfer to college made me think that I really couldn't mess with amateur radio very much. Besides, everybody told me that there was much else to do. Well, I moved into the dorm and one of the first things that I began checking was the distance between the ends of the U-Shaped dormitory. You won't believe it, but Robertson Hall, my dorm, was exactly 75 feet between the upper bathrooms on the 3rd floor. I went up to the third floor, threw a string out the window, went down and tied one end of the dipole to it, went over to the other bathroom and threw a string and pulled up the other side. In about 45 minutes, I had already pulled the coax up into my second floor room and after grounding to the radiator, was on the air.

This worked quite well through the semester and I probably would have put it back up the next year except that I got a great room on the end and could not see running the dipole the way it was going. So, I sort of did without. That was the last year that I lived in the dormitory. I moved into a small house off campus and didn't put up an antenna for some time, almost 5 or six years. By then 2 meter F.M. was pretty popular and I had no time for lowband. I did get a, you guessed it, 40 Meter antenna up eventually and even captured a 75 meter antenna up in two trees that happened to be about 130 feet apart on the lot. It didn't work too bad and I used to talk to WB5YWO up in Stillwater every now and then. The antenna would pull down every now and then because the trees had the bad habit of swaying in the breeze. I eventually bought a pulley, some rope and got a couple of bricks to tie one end, but the wire would still break about once a year and I would take it down, shorten it and gradually QSY the resonant frequency up the band.

When I bought my new house about six months ago, I planned on stringing up a simple 25 foot pipe mast and running the antennas off of it inverted V style. For a couple of weeks I had to listen to Louis KD5WA moan and tease about

me putting up a real antenna. Well, it did get to me for a little while, especially when I bought the Shackmaster from ACC. I already had an IC-751, the ideal radio to work with the Shackmaster and I began to think about my HF antenna being the weakest link. Soooo, began the saga which I described a couple of months ago about how my antenna escalated in both height and cost until I settled on a Telrex TB6EM 6 element triband beam. This baby is heavy, almost 85 pounds of pure grunt. The boom is 26 foot and it takes a turning radius of 22 feet. Telrex doesn't really mince words or waste them for that matter. Their message on the assembly instructions is quite simple, you mess with their antennas, they break your face. I quote:

### NOTE!

The world's finest single-transmission line "triband" <sup>R</sup> is worthy of a little thought and care on your part--Before assembly--familiarize yourself with the components and their placement.

Do not force, alter, modify, or try any inventions! Telrex has precision-tuned and matched this antenna to provide optimum 10, 15 and 20 meter gain, F/B Ratio, and "Balanced Pattern."

If you have followed this simplified assembly sheet carefully, you are ready to connect your 52 ohm co-axial to the "balun" provided.

Mount the antenna in the clear, 34 feet or higher. That is about it.

I actually added the last line. But that really is about it. The assembly instructions consist of a Blueprint drawing and two drawings of how to strip the coax and mount the insulated elements. Not much to it.

Well, anyway, during the several weekends that it took to get the antenna in the air, I took a couple of pictures and after consultation with Greenshields Magic Power and Light, the resulting photography on the next few pages (and the cover I might add) springs to life.

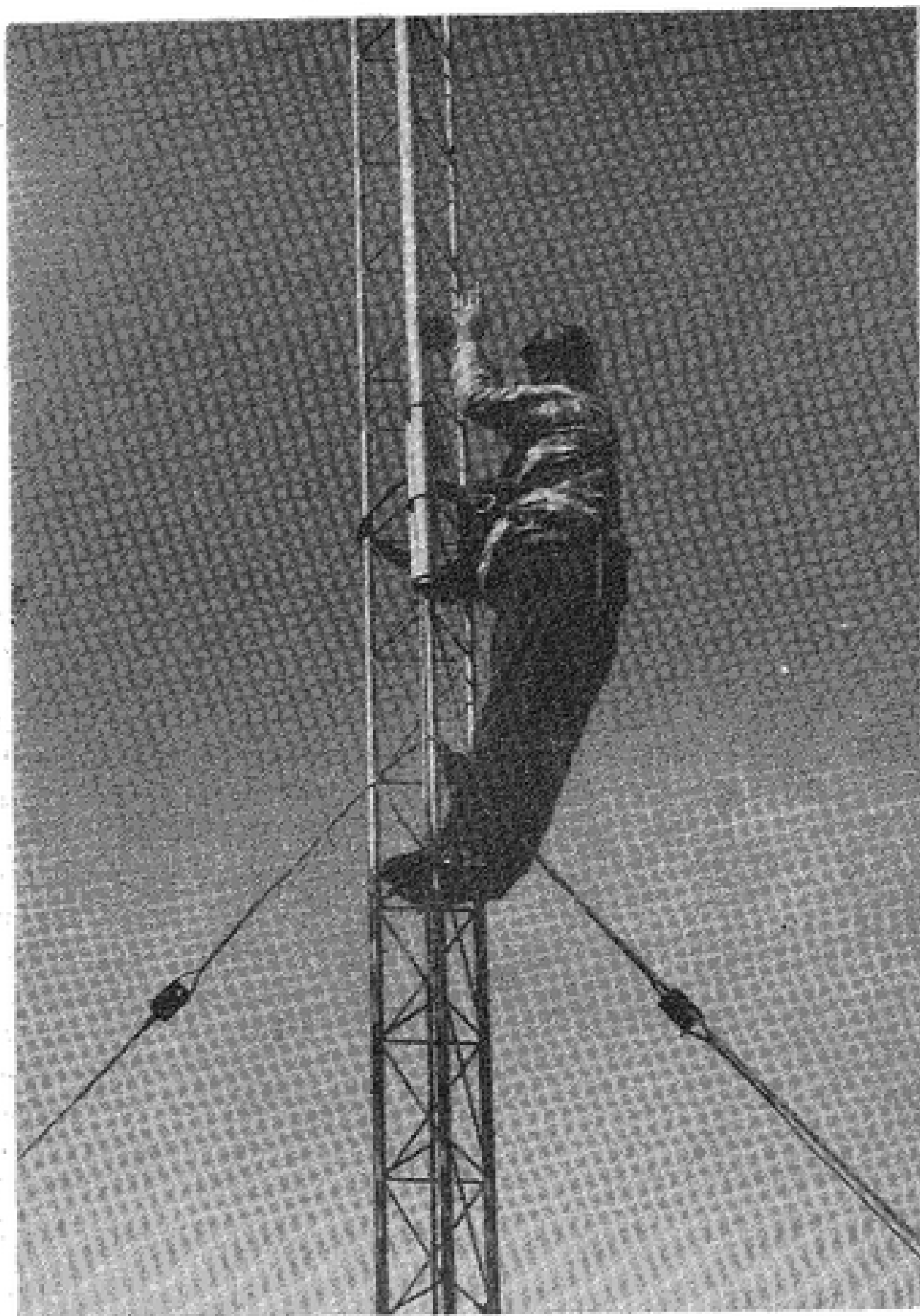
Micheal Salem N5MS

## N5MS ANTENNA FARM UNCOVERED!!!

Our photographs are courtesy of WD5HPU. Jim Greenshields of Greenshield's Magic Power and Light has outdone himself again in making our, you guessed it, Half-tonessss. Not a half bad job considering he's working from color prints. I've half a mind to keep him on the payroll. Check's in the mail, Jimbo!!

Cover Photo for this issue of C & E is that ever popular dynamic duo of tower fame, KD5WA and N5MS. This photo shot by WA5TOO features these two putting their combined experience (and weight) to the test on top of the tower. Jin pole by WA5TOO who also chaired the ground crew. Whenever Darrell gets above the third rung of the tower, he gets a nose bleed. He does not do towers. The silhouette shows our intrepid tower constructors at the 40 foot level of the tower. The bottom set of two guy wires at the 25 foot level is right below them.

TO THE RIGHT: KD5WA and a solo number for the first section above the 25 foot guy wire set. Louis wasn't scared, he's got a 50 foot tower at his house that he scampers up and down. He might even straighten the beam someday!!



Two classic guy wire fanatics are pictured here at the north guy post. The tower was put up by assembling the first 30 foot on the ground. Then a gaggle of beefy beauty's were rounded up to pull the tower up. The tower was constructed a single section at a time after that. For those of you who watch the Bob Newhart show, this is our version of Darrell and his other brother Darrell. Actually, one of them actually is Darrell, WA5TOO. Louis KD5WA is the one with the guy grip hanging out of his back pocket. I am not sure if he doesn't really have a "dead-end" at both ends!!!

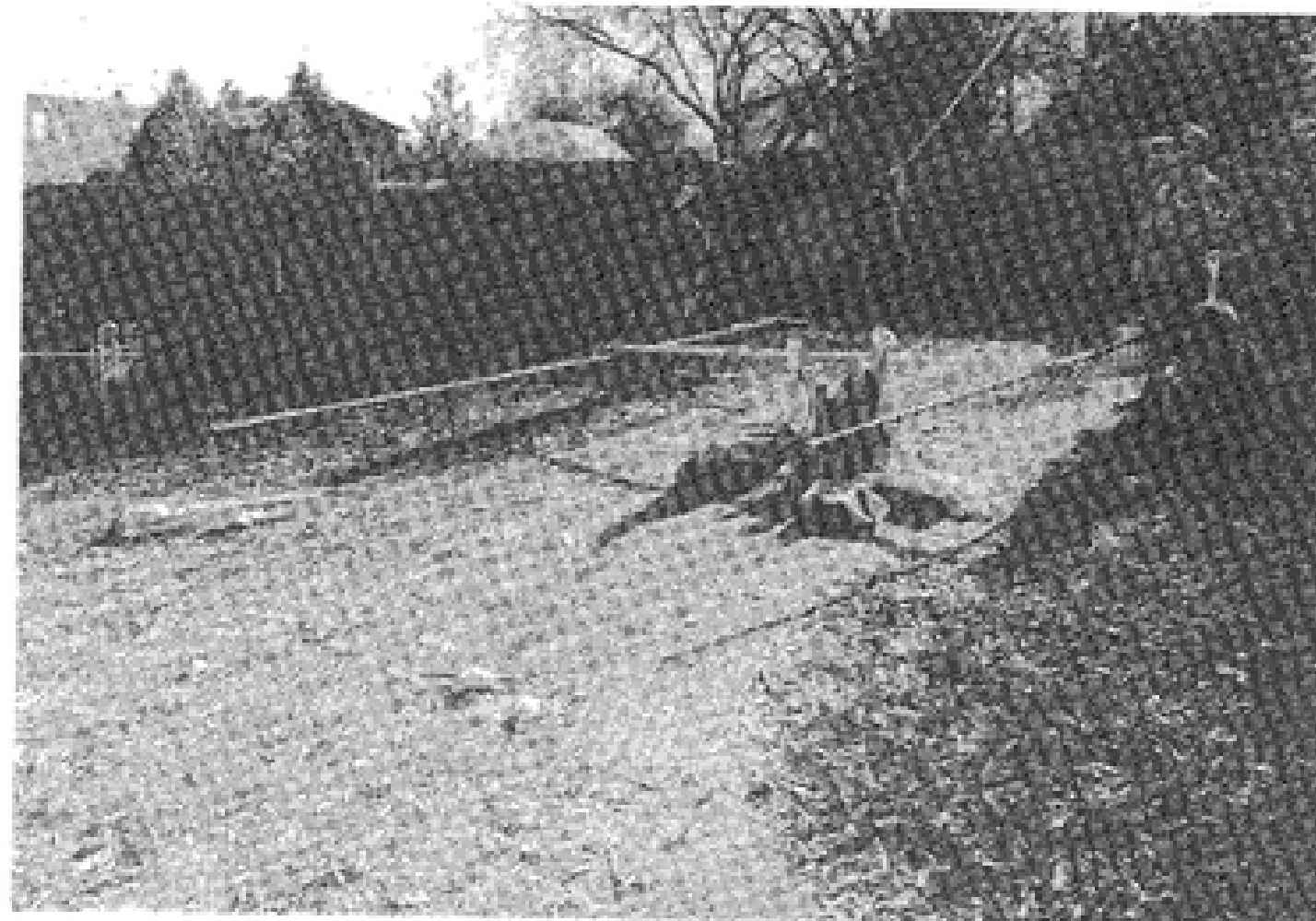


Here it is. The Tri-band Beam of your dreams. That is, if you believe the writing on the package from Telrex. The Directors are to the right and the Reflectors are to the left, natch. For those of you sharp-eyed devils who count actually 8 elements instead of 6, wrong, bozo, that's the shadows of the elements. That antenna weighs 85 pounds and is 26 foot long from the end to end of the boom. The boom is 3 1/2 inches at each reinforcement point where the elements attach and 3 inches elsewhere. The wind load is 10 square foot at 100 mph. The longest element is 36 foot. The shipping carton weighed 114 pounds and was 16 foot long. No wonder the UPS deliveryman looked angry!!!





THE TOP OF THE WALK. Skywalk, that is. Here is the ground assembly crew rapidly assembly assembling the 450 antenna and the two meter antenna. I had planned on all kinds of configurations for the 2 meter antenna. I studied stacking articles until they came out of my ear. I had even bought a couple of KLM 8 elements to stack, but decided that the best thing to do was stack a 450 antenna on one side of the stacking kit and a 215WB by Cushcraft on the other side. The 450 antenna is a KLM 440-27. It is 27 elements with about 14 db of gain or so. The antenna is broadband from 420 to 450 Mhz and is balun fed. The 215WB is also suppose to cover the entire two meter band and is advertised with 15.5 db gain. Both antennas use all stainless steel hardware. Both cost under a \$100.00. Darrell is on the far right, Louis is standing over him supervising and Expectant Novice Bruce Mc-McElhaney is over to the left putting the finishing touches on the two meter assembly.



The ground crew readies the antennas before they are "flown" to the top of the tower. Bruce is helping with the rope that is to be tied to the top of the tower. The two meter and 450 antenna are about in the middle of the picture. Each of the coax leads from the antennas are taped with nylon tape about every 2 feet or so. The nylon tape is then covered with electrical tape to keep out moisture and sunlight, then the whole mess is covered with metallic aluminium foil tape such as is used by DB Products on their antennas. The antennas had the same wind load for all practical purpose, but had to be offset since the two meter antenna was heavier than the 450. They were balanced while being mounted on the tower. Bruce is ready to join N5MS on the tower. A rope was tied to the top of the tower and then to the bumper of WA5TOO's truck. The antennas were then pulled up the rope with the jin pole.

HERE IT IS!!! The N5MS antenna farm. The overall height is 60 feet for the tower and 70 feet to the top of the antennas. At the very top is the 450 and two meter antennas. Below is the Telrex TB6EM. These babies were a lot of work to hoist up, so I don't plan to take them down unless its an emergency. There is some discoloration on the film just to the right of the antenna. Don't think that it is an extra set of parasitic elements. The antenna sits off the corner of the Southeast part of the house. No part of the beam turns off the property. Does it have gain??? You bet, but even more important than 10 db forward gain is the 24 db of side lobe and 30 db of front to back ratio. It works, but actually is tuned about 100 Khz for 20 meters.

Micheal Salem N5MS



# A SIMPLE 40/15 VERTICAL ANTENNA

It's frustrating enough to earn your Novice ticket. On top of all the study and practice comes the problem of acquiring some gear and getting on the air. Basic state of the art requirements, parts availability, and the lack of an engineering degree limit some hams ability to construct a basic station. But the essence of haming is two fold - operational and technical. It's natural for hams to build some things as well as operate.

Antennas seem to be a great starting point. My favorite antenna is the 40-15 meter ground mounted vertical-and the following is a simple variation on the old standard. The functional design is mother natures, the constructional design is mine.

**STEP ONE.** (Requires parts acquisition). 32 feet of telescoped aluminum (which means about 36 total, S.O. 239 3/8 X 7" piece of threaded rod, hose clamps, a 2" x 4' piece of PVC pipe, assorted nuts and washers, and a 1" x 10" piece of aluminum. I cut my aluminum from an old chassis and filed the edges.

**STEP TWO.** Drill a hole through the PVC about one foot from one end, slide the rod through and put a washer and bolt on each end.

**STEP THREE.** Drill a 3/8" hole on one end of aluminum plate. Bend the plate about 90 degrees about 3 inches from this hole.

**STEP FOUR.** The SO-239 connector is mounted on the plate. I drilled a hole large enough for the fitting to be mounted from behind the plate, drilled four holes and bolted it to the plate.

**STEP FIVE.** Take a short piece of copper wire and solder it to the back of the SO-239. Keep it short because it is part of the radiating element. Now mount the plate on the threaded rod. I slotted the other end of the plate and bolted it on both side of the rod. Also, I removed two of the screws on the SO-239, cut up a BIC pen for sleeves and put two screws from the SO-239 through sleeve into the PVC.

**STEP SIX.** Clean and steel wool the aluminum, and make sure you'll have at least 32 feet 6 inches when put together with hose clamps. I mounted my element about 4 inches above the SO-239. I made 3 spacers out of plastic or wood, drilled holes in them and spaced them out directly in line above the SO-239. You can drill and bolt your aluminum to the PVC through the spacers or not use the spacers and mount directly on PVC. I made clamps from perforated plumbers strap and small bolts. (I hate to put holes in aluminum).

**STEP SEVEN.** Drill a hole at

the very bottom of the element once it is solidly mounted. On the end of my wire from the SO-239 I solder mounted a piece of flat hammered copper wire and drilled a hole in it. I used a small screw, washer and bolt and mounted this to the bottom of the element. Next use an Ohm meter to check continuity. Touch one lead to the thread rod and one to the ground on the SO-239. It should be a direct short. Leave the lead on the threaded rod and touch the other to the element - it should not indicate on the meter at all. Leave the lead on the element and take the other lead and touch it to the center of the SO-239 (it should be a short and peg your meter). Next, do the same at all aluminum connections.

**STEP EIGHT.** It should be ready to mount. Pound a small piece of pipe in the ground. With a friend, hoist up over the small pipe and guy it off well. At least three Mylar ropes will do. (I use three and it made it through the worst toronado winds Edmond had last year). But you must guy it off well, especially near power lines.

**STEP NINE.** I laid radial wires beneath my antenna but you can use a ground rod. Do the best you can with what you've got, and where you are. Connect a heavy gauge wire from ground system to the threaded rod with bolt and washer. Keep this very short.

**STEP TEN.** I feed my antenna with 52 ohm coax. The feed impedance is about 36 ohms. The better the ground system the better the match I have found. Don't use full power when testing. It would even be good to check the coax at the station end to check for shorted cable or fitting and avoid personal injury or equipment damage.

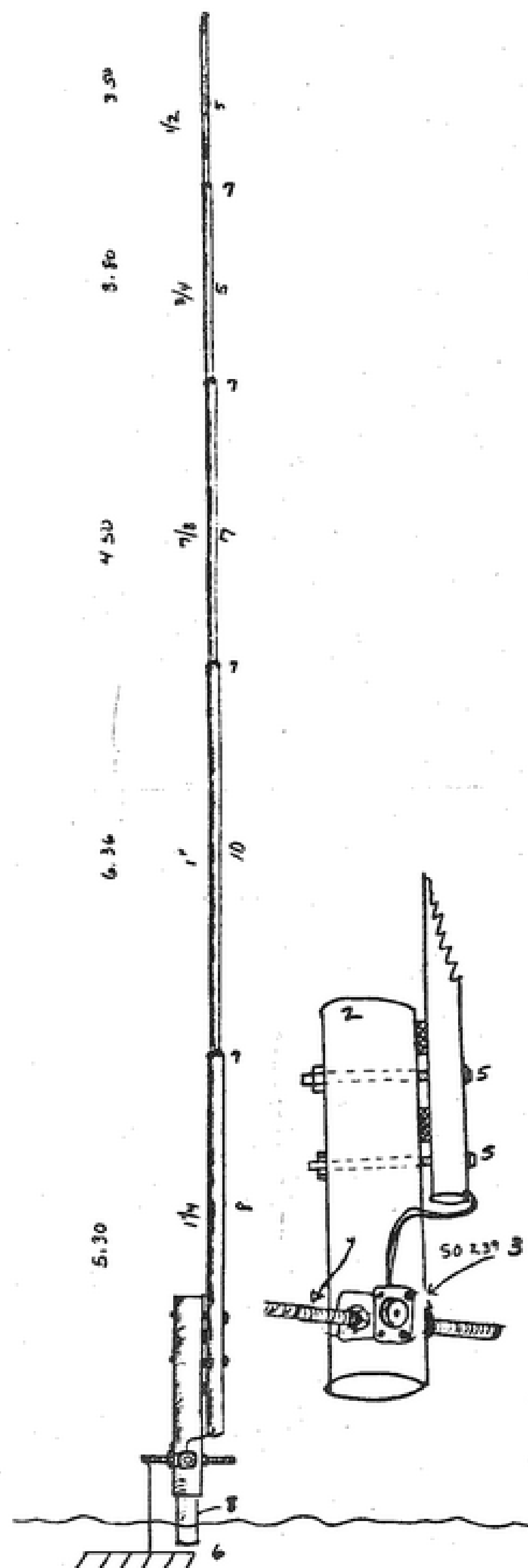
**STEP ELEVEN.** It may take some adjustment to get the lowest SWR. I would make the overall length, including the lead from the SO-239, about 32', 4" for the Novice band. I think mine is about 32 feet, 1" in the Extra portion of 40. I just loosen clamps and shorten it up or lengthen it for adjustment. I use mine on 15 meters also without any further adjustment.

This antenna will not outperform a beam antenna - but it is a great Field Day antenna, as it takes 5 minutes to erect and dismantle. It is very portable if the aluminum is in enough pieces to make the overall take-apart length short. I am not a Doug DeMaw type builder, but I am cheap and would rather build something, than pay todays high prices.

I have worked Africa, Japan, Australia, Russia, Europe, S. America and all states at least

once as well as 31 states QRP on this type of antenna so it is better than just a "beginners" antenna. It takes up less room than a dipole, but can be noisier. On top of my house I have a twenty meter version which performs equally as well.

Call 348-1669 if you need help  
Don Kelly, KA5UOS



FOR SALE: 1979 CORVETTE. Excellent condition. 35000 actual mi. Auto. Air. Power everything. Call Bob Graham, 677-8685 evenings.

SUN	MON	TUE	WED	THU	FRI	SAT
<b>FEBRUARY</b>		The managing editor assumes no responsibility for the data contained herein.				1
2	3	MORI 4 Great Plains	5	Aeronautical 6	7	COCO SCARS 8 ARDMORE
Wheatstrow 9	EDMOND CLUB 10	76'ers O U 11 OIDAR	12	ALTUS AREA 13 CP/M	14	VHF Club 15
16	VE EXAM RED CROSS BLDG. 17 6:00 PM	AUTOPATCH W X MEETING 18 7:00	19	KAY County 20 CIMARRON	EARS DINNER 21	22
23	COLLECTOR - EMITTER 24	CORA 25	26	27	28	

giving their call. The rule states plainly "at the end of each communication." So, you're getting out of the car for a minute. Give your call before you get out because by the time you get back those other guys may not be there, or you may be gone a lot longer than you expected.

Also, according to 97.84 (g), this identification must be given on each frequency utilized for transmission, so remember to give your call on the current frequency before going off to another one.

Remember how hard you studied and practiced to pass that test to get your license? Aren't you proud of your call? Use it or lose it!

More editorializing (RHIP): At a recent club meeting, your president was heard to say he thought the UHF bands were a "desert." Some misunderstanding has arisen on this subject.

The analogy is this: Picture a nice, green, peaceful forest of trees, idyllic in nature, with lots of birds singing and flitting about and

Bambi is talking to a rabbit and a couple of butterflies are getting friendly on that bush over there. Picture this as the two meter repeater situation in central Oklahoma.

Now, try to visualize the Organ Pipe Cactus National Monument (or whatever it's called) in Arizona. You've probably been there or have seen travel brochures with pictures of the Saguaro cactus population. These tall, appendaged growths dot the hot, dry countryside for miles. They don't grow very close together and they don't offer much shade or comfort to the traveler. Be he man or beast. Try hanging a swing on one of these sticky babies! An occasional bird may rest (at his own risk) on one of these things and give out a few plaintive calls in hope of communicating with one of his own kind. Certain owls like to nest in them but rarely come out in daylight and are hard to hear when active at night. This is the state of our UHF repeater world in OKC.

Would you believe it has

been proposed that we cut down a major portion of one of the prettiest trees in that idyllic forest and graft it onto a Saguaro out there in that desert? The reasons given were to the effect that it would improve the cactus, the desert and a separate tree back in the idyllic forest.

We suspect the real reason is to serve the wishes of a small group of coyotes who want to gather by themselves and howl under a tree in the desert.

And, one more thing: We, as amateurs, are more in the public eye than ever these days. Don't you know a lot of SWLs listen to us on scanners and HF equipment? I know how easy it is to make those cutting remarks and tell those "gray" stories. I've been just as guilty as anyone. But let's try to set some good examples for our own fellow amateurs as well as the listen-only world out there. Try to be an asset to your hobby and to the club of your choice - not a liability.

'Til next month, 73 DE NDSM

**WA5CZN says,**

**Are You Rundown?  
Spiritual Batteries Need A Charge?**

**GET  
REJUVENATED**



**Got a Problem?  
Call Johnny Ore 632-5098**

**S.W. 27th and Blackwelder  
Sunday 10 A.M. and 6 P.M.  
Wednesday 7 P.M.**

**At The Exciting New  
Messiah Ministries Church**