

VOLUME 15
MARCH 1989
NUMBER 169

CENTRAL OKLAHOMA RADIO AMATEURS
COLLECTOR AND EMITTER



50¢

SECOND CLASS MAIL
POSTMASTER: SEE PAGE 3

HAM HOLIDAY & ARRL WEST GULF CONVENTION - JULY 28 - 29 - 30

STARS

met on Saturday, Feb 11, at the Norman Red Cross. The meeting started at 9:30 am and was chaired by Andi, WU5W. There were 36 people present. The treasurer, Monte, WB5RZH, reported that there was \$1611.16 in the treasury.

Dues are due

right now sez Monte. The dues are now \$16 per year for a regular membership. Please send your check to:
Monte Bateman, WB5RZH
1514 Denison St.
Norman, Oklahoma 73069

The minutes of the January meeting had been printed in the C&E so everyone had a chance to read them. There were no objections so the minutes were presumed to be OK.

Old Business:

Joe Lynch, N6CL, the ARRL Oklahoma Section Manager volunteered to help with the phone line problem. Since no appreciable progress has been made on this since last fall, the group agreed to take Joe up on his offer. Andi will contact Joe.

Volunteers are needed to provide communications for the Mini-Baja competition being held at DU on April 15. A minimum of six people with 2m handi-talkies are needed to provide communications at the track on the day of the 4 hour endurance event. Davis, KD5IT, has several responsibilities in

CONTINUED NEXT PAGE

CIMARRON

One of the cardinal rules of journalism, the pro's say, is never to start a column off with an apology! I apparently misunderstood the clip that said there would be no further issue of C & E until after the first of the year. THEN a hurried trip to Hannover, Germany bollixed the next months column!

Soooo...Pro's aside, your ED humbly apologizes! I suggest thirty lashes from a bowl of Leos' famous egg noodles. Leo, WZ5H, is the egg noodle king and I understand he is committed to furnishing the yardage for the chicken and noodles to be enjoyed at the next CARA party! Said party is to occur February 24th. at the Longdale Community Center. The rest of the fixins are to be brought "covered dish" style. All "HAMS" or interested civilians are invited. Seven PM...be there or be square!

The February meeting of CARA was well attended. Plans were laid for the VE upgrade test session to be held on the 11th. of March. It will be held under the auspices of W5YI, walk-ins are welcome, and it will be held in the usual place...the Fairview Vo-Tech center.

Those attending the club meeting include; Denny, WK5V, Nadine, N5FMH, Rita KA5SLY, Ruth WZ5Y, Steve KP5SW, Terry N5MLT, Vern KA5SZD, Leo WZ5H, Ray AB5Z, Jack Kelly N5LBN, Jack Day NN5Z and Betty KA5RTW.

Secretary Denny Painton urged greater use of our repeater. Denny, as trustee of the repeater has done yeoman service in keeping the repeater in top shape and there is no restriction on its use by mobile hams. The frequency is 14545, down six... ya'll come, hear?

February 2nd., Helen Simpson N5HQL, underwent angioplasty at Baptist Medical Center. We are all glad to hear that she is recovering well. Hang in there, Helen and Bill! CARA is cheering for you!!

Leo Peil, WZ5H, has been nominated as Instructor of the year in the QST magazines poll honoring Instructors who have done especially

CONTINUED NEXT PAGE

GREAT PLAINS A.R.C.

WSHGH Repeater 146.13/73

The February meeting of the Great Plains Amateur Radio Club was held at the home of Lewis and Freida Patterson. The Pattersons invited all the members to dinner and everyone lucky enough to attend was treated to a fish fry that was out of this world. My taste buds have not recovered yet. I suspect that if word gets out about the fish fry, club membership could triple overnight.

MEETING

The meeting was called to order by club president, Windle Hatchett. Fourteen members and six guests were in attendance. Several topics were discussed including the possible relocation of the repeater site. New construction at the Woodward airport may necessitate a move of all our repeater facilities. The main topic was the upcoming Eyeball QSO to be held April 1st and 2nd. Preparations are being made and flyers being printed for this fun event. Andy Taylor, Net Manager, Northwest Oklahoma Service Net reports that for the month of January there were 13 sessions, 121 check ins, and 7 pieces of routine traffic handled. The meeting was adjourned and a brief board meeting was held.

NOVICE CLASS

Gerald Bowman is teaching a novice class starting February 20th. The class meets every Monday from 6 to 9 p.m. at the Mooreland High School in Bart Lawson's classroom. A scout group, interested in search and rescue, approached Gerald to discuss communications and he steered them toward Amateur Radio. Anyone that is interested in attending this informative class should call Gerald Bowman at 994-5600 or

CONTINUED NEXT PAGE

More STARS

the competition and needs someone to coordinate the amateur radio people. If you can help from about 9 am to 2 pm on Saturday, April 15, 1989 please contact Andi or Davis at 321-7570.

Steve, N1BW, has the Olympic Festival communications group well in hand. He has about 35 volunteers from SCARS and the bicycle club to help. A meeting for these folks is scheduled for Mar 8, 7 pm, at the Norman Public Library. Volunteers are still needed so if you can make this, contact Steve.

Andi brought up a request by Jack Tarver to provide help with the Centennial Celebration parade on April 22, 1989. No one volunteered to coordinate this, so Andi will have to tell Mr. Tarver SCARS can't help.

New Business:

SCARS has been asked to organize another storm seminar at the end of March. The exact date will depend on the availability of a room. Andi needs help in setting this up. Storm season is coming up and operators are needed to man(woman) the NWS station. Several volunteers who are willing to give time to go to the NWS and direct the amateur communications are required to make this go. This is an important function of the club. Contact Andi, WU5W, if you are able to help.

Committee Reports:

No one was present from the technical committee. Because there has been no serious maintenance on the repeater for several months, the president was asked to appoint

a new technical committee. If you are interested in serving your club in this way, contact Andi.

Ken, KA5EFJ, discussed ARES and asked for volunteers to sign up to help with this function if needed. If you are not a card carrying ARES member or if your appointment has expired(check your card), see Ken Neptune.

Dorinda, N5IUA, gave a report on the last CORA meeting. Although not a member of CORA, the QCWA will be allowed to have their breakfast at Ham Holiday on "the campus." The meeting was lightly attended, only Dorinda and Monte went from SCARS. We need another representative from SCARS and the OU club needs a couple of folks. So if you are interested, get in touch with Dorinda.

Volunteers are needed to teach the SCARS Novice class this spring. This has usually started in March so someone needs to get it organized now. If you are interested in teaching theory or code, contact Monte, WB5RZH, or Andi.

Due to the press of other matters, I will be unable to continue as C&E editor. Andi made a request at the meeting for a volunteer to write this column. If you are interested, see Davis, KD5IT, or Andi.

Radios Stolen:

Two mobile radios were stolen from autos in Norman recently. A Kenwood TW4100A(ser# 8090267) Dual Band(2 m/70 cm) mobile was stolen from Davis, KD5IT, on Friday Jan 28 and a Yaesu FT-212RH(ser# 7N050355) was taken from Morris, N5MDC, about a week earlier. If you hear of either of these model radios being peddled, please call Davis at 321-7570.

Cimarron Continued

notable service in Ham Radio.

Just to be nominated is a very great honor and I know of no one who deserves it more!

Well, it looks like a "wrap", from this corner...so I will finish with a special and urgent invitation to all CARA members, should they recover from the chicken and noodle bash, to attend the next CARA meeting March 9th., 7:30 PM, at the WX5Y Playhouse....827 S. 13th, Fairview!!!

73's Jack, NN5Z 30

GPARC Continued

Leon Carlisle at 256-8149.

NOMINATION

Bart Lawson has been nominated for the ARRL Professional Teacher of the Year Award. This honor is given to the teacher that has done the most to integrate Amateur Radio into the school curriculum. Bart and fellow teacher Jodee D'Avignon have set up a ten meter station in the Mooreland High School geography class. The students are excited by actually talking to the people they study about. Congratulations on the nomination, Bart.

THANKS

A big thank you for Lois Ford who has been the editor of this article for years. She has done an outstanding job of keeping the members informed of all the news and happenings. Thanks, Lois, we appreciate all you've done.

Leon

The Door Prize

was actually two (2) boxes of Valentine's Day candies. The lucky winners were Ken, N5BEW, and Barney, N5IUB. OK guys have a big nite!

The next meeting will be on Saturday, March 11, at 9:30 am. Coffee and do-nuts await you every Saturday at the Norman Red Cross.

  KD5IT  

1 AERONAUTICAL CENTER ARC

MEETS: FIRST THURSDAY, FLIGHT STANDARDS BUILDING, FAA, SOUTH MACARTHUR 7:30 PM

PR TED ANDERSON, NY5H 685-4016
SE DOUG TEACHMAN, W0DXA 392-5458
ASPR HAROLD TODD, WASVAD 685-3685
ASVP CHARLIE GREENE, WASJGU 943-5631
EDITOR: BILL OLIVER & LUKE ELLIS 329-6333

2 CENTRAL OKLAHOMA VHF

MEETS: 11:00AM THIRD SATURDAY, THE BRICKS RESTAURANT, 3100 N PORTLAND, OKC

PR JACK HUSE, WBSZKZ 691-1152
VP FRED BOARDMAN, WSNL 427-2505
SE JOE BUSWELL, K5JB 732-0676
TR ELLARD FOSTER, WSKE 789-6702
EDITOR: JOE BUSWELL, K5JB 732-0676

1B GREAT PLAINS ARC

MEETS: 2:15 PM FIRST SUNDAY WOODWARD PUBLIC WORKS BLDG.

PR WINDLE HATCHETT, W4SPLM (FT SUPPLY) 766-3561
VP BOB BAYLESS, WBOGAX NONE
SE ROD FORD, WBSOVT (GAGE) 923-7683
TR FREIDA PATTERSON, N5EOX (WOWD) 256-2111
EDITOR: LEON CARLISLE, K5C2T

4 OK CITY AUTOPATCH

MEETS: 7:30PM, THIRD TUESDAY

SALVATION ARMY, NW 30 & PENN
PR ROBERT SHAW, W4S8QX 341-4763
VP DENNIS PATTERSON, WDSOSM 495-0769
SE LEONARD HANSTEIN, WSMEL 789-7201
TR LARRY DAVIS, KFSJN 722-4564
EDITOR: CHUCK WILHITE, K5NK 721-4926

5 OKLA UNIVERSITY ARC

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

119 WILSON CENTER, 1334 S JENKINS

PR FRANK DONALDSON, N51QJ 329-4172
VP JOHN MUSTENBERG, KESN 325-2382
S/T JIM GREENSHIELDS, WDSHPU 321-9981

6 ALTUS ASSOCIATION

MEETS: 7:30PM, SECOND THURSDAY, NORTH MAIN FIRE STATION (CD) ALTUS

PR FRANK FERITTA, AASIT 482-1398
VP NONE
S/T MIKE SCHENKEL, W5VJU 482-1797
EDITOR: MIKE SCHENKEL, W5VJU 482-1797

7 BICENTENNIAL (76er) ARC

MEETS: 7:30PM, SECOND TUESDAY, THE BRICKS RESTAURANT, NW 31 & PORTLAND

PR DENNIS MUSSEY, KAS6TM 524-4760
VP DICK BAKER, WBSJMN 745-3877
S/T JERRY SPROUL, N5AHU 354-0017
EDITOR: JERRY SPROUL, N5AHU 354-0017

9 WHEATSTRAW ARC

MEETS: 2:30PM SECOND SUNDAY, LOCATION VARIES. SEE CLUB SECTION FOR DETAILS.

PR PERRY JONES, W5NGZ (Wxford) 772-6063
VP GEORGE MASCHINO, K566L (OKARCHE) 263-7614
S/T JOE GARLAND, W45FLT (CALUMET) 893-2660

EDITOR: RALPH WILDER, W4SPFK (WATONGA) 623-5421

19 OKLA INDEPENDENT ARC

MEETS: 7:00PM SECOND TUESDAY

SOUTHWESTERN BELL OFFICES, PONCA CITY

PR VERNON TREIBER, Jr. N5ANV 767-6260
VP TRUMAN STEINER, WBSNRE
SE DEBBIE WHITE, N5LFF 765-5707
TR STEVE HUSTON, K850OR 762-4726
EDITOR: MIKE MORRIS, N5JJR 765-6260

11 EDMOND AR SOCIETY

MEETS: ODD MONTHS, 3RD SUNDAY, 2:00PM EDMOND EOC. DINNER, EVEN MONTHS, 3RD FRIDAY.

PR HAROLD WELLS, W45ZXX 623-5191
VP MARTIN McGEE, N5L7S 947-4968
SE DAWN ROWELL, N5KMD
TR GLORIA GUINN, K8586M
EDITOR:

IF THERE'S ANYTHING WRONG

WITH YOUR CLUB LISTING,

CONTACT YOUR PRESIDENT TO

GET IT CORRECTED!



13 KAY COUNTY ARC

MEETS: 7:00 PM, THIRD THURSDAY, SEP-MAY, PIONEER VO-TECH, PONCA CITY OK

PR MIKE MORGAN, N5LPZ 765-9539
VP STEVE HUSTON, K850OR 762-4726
S/T HARRY BEATTIE, WDSOPR 765-3862
EDITOR: DAVE LAAND, K05FX 762-8616

14 CIMMARON ARS

MEETS: 7:39 PM SECOND TUESDAY

W4SY PLAYHOUSE, 827 S 13, FAIRVIEW

PR JACK KELLY, N5LBN (405) 227-4515
VP RAY BARNES, A85Z (405) 274-3334
SE DENNIS PAINTON, W4SV (405) 764-3599
TR MADINE PAINTON, N5FMH (405) 764-3599
EDITOR: JACK DAY, NWSZ (405) 227-3462

15 SOUTH CANADIAN ARS

MEETS: 9:30AM SECOND SATURDAY, RED CROSS BLDG NORTH OU CAMPUS, NORMAN

PR ANDI WOLF, WUSW 799-5150
VP DORINDA SKAGGS, N5IVA 799-5363
SE KEN BROWN, N5KUK
TR MONTE BATEMAN, WBSRZX 329-7485
EDITOR: DAVIS EGLE, K05IT 321-7570

16 EDMOND AR CLUB

MEETS: 7:00PM SECOND MONDAY, SEE CLUB SECTION FOR LOCATION AND TYPE

PR MARK NORTHCUTT, WDSOYI 755-4672
VP SANDY ORCUTT, K4SONI 340-0034
S/T KAY NORTHCUTT, WDSOYJ 755-4672
EDITOR: MARK NORTHCUTT, WDSOYI 755-4672

CENTRAL OKLA RADIO AMATEURS

MEETS: 7:00PM FOURTH TUESDAY, RED CROSS BLDG. 10 & HUDSON OKLA CITY (BACK DOOR)

PR FRANK TASSONE, K456I 341-4945
VP DORINDA SKAGGS, N5IUA 799-5363
SE MARSHALL MADDOX, WUSP 360-3205
TR MARK KLEINE, N5H2R 329-4285

The Altus Area Amateur Radio Association held its regular monthly meeting on 9 February at 7:30 pm downstairs in the Altus North Main Fire Station.

Present for the meeting were FrankAA5IT, Terry K5HP, Rupert N4CIJ, Phil K9PNT, Chuck K5NK, Joe W5CCV, Don KG6LE, Bryan AA5BR, Shporty KF5ME, Mac KB6FLG, Bob N5NQO, Deanna WB5UMH, Paul WD5BBO, Oliver WA5OGC, Jack KA5KPS, Jim KB5LS, Clyde W5ZDI, Ron Jackson Visitor, Robert KB5GGC, Loren WA5CBF, AnnKA5YWY and Mike W5VXU.

The next meeting will be on March 9th.

Among various items, Frank AA5IT indicated that there will be a Testing Session for all of those who wish to upgrade or those who would like to get a new Amateur license. This will be held at the North Main Fire Station on April 8 at 12:30pm.

If you are interested in attending this session you will need to bring a copy of your present license, two forms of identification, if available, a pencil or pen and \$4.75 to cover the examination fee.

Bob, W5VRA of Martha indicated that he had several items for sale: KLM 10-140 amplifier SSB/CW 2M, \$100 and KLM 52 ohm power splitter for 4 antennas, \$20. Anyone interested please contact him.

Rupert, N4CIJ is also disposing of many nice items and if any one needs anything contact him. He will have a complete list available at the next club meeting.

The Friday evening on-the-air meeting seems to be off to a great start. Frank, AA5IT started this project off recently and for several weeks there have been at least a dozen stations checking into the net. Keep an ear glued to the 79 machine on Friday night at 7 pm and you too will be able to join in.

There have been several Storm Spotters Meetings set around the area recently so many of you will be able to take advantage of this free training at your convenience.

PAID AT OKLA CITY OK. SUB: COPA MEMBER \$3.00
PAID SUBSCRIPTION: \$7.00 PER YEAR.

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

EDITOR: JOE HARDING, W4S2NF 737-1044
CIRCULATION: BOB GRAHAM, W8NSV 677-8685



ANNOUNCING THE
GREAT PLAINS AMATEUR RADIO CLUB'S
ANNUAL **EYEBALL QSO** AND

SWAPFEST

Bring Your Swapping Gear
Lots of Free Tables

Saturday, April 1st **Mooreland, Okla.** 12:00 a.m. till ??
Sunday, April 2nd 9:00 a.m. till ???

VE Testing Saturday, April 1st, starting at 2 p.m.

Directions: North on Main or Elm Street. Across the tracks and West just 3 blocks to city park. Shuttle service from Mooreland Airport.

Bring your family, covered dish, your own place settings & GOODIES TO SWAP!

Hamburger Fry Saturday Night at 6:30 p.m.

\$3.00 Admlssion Fee

Covers Both Days
Kids Free

No charge for tables
No prizes
Two motels
20+ tables already reserved

Dinner 1:00 P.M.
Talk in
146.52
146.13/73 147.72/12

Dealers Present
Self contained Camper Parking
6 local churches

NC5C
Gerry N. Ford
256-5342

NZ5T Bart
Bart Lawson
994-5940

WG5Z
Gerald Bowman
994-5453



Well another year and another club editor. Let me introduce myself. My name is Marlin McGee and my call sign is N5LZF, age is 51, QTH; OKC, OK. Class of license, Technician. Although I do not consider myself a writer, I will give it a go. So here tis---

I understand Rick Tasetano's Weather Class at OCCC in April has been canceled due to lack of interest. This is a shame. The more we all understand about what is going on around us, the better off we are, and what more do we have around us than our own weather. I attended Rick's class in April of '88 and found it to be very informative and worthwhile. Hopefully, there will be a new class later this year and turnout will be a lot better.

The EARS repeater committee is working to link the Explorer Post repeater N5KUE 145.370 to an antenna at the EARS repeater 147.135 to better facilitate hand held communications in far North West OKC. The repeater committee members are: Phil N5HIP, Brad KB5CDE, Lee KA5WIS, and Bob N5KUE.

Congratulations To the "88" Novice/Technician Class. Please welcome these new members:

Steven Guinn - KB5HWH
Stephanie Guinn - KB5HWI
Bill Wilburn - N5NUK
Clara Granger - KB5HXN
Billie Ezzell - KB5HXX
Don Ezzell - KB5HXJ
Joe Efaw - KB5HXL
Gayle McGee - KB5HXO
Justin Nolan - call pending
Mike Delaney - KB5HXT
Linda Richardson and Jim Richardson - calls pending.

The EARS February meeting was held at Shotgun Sam's at 38th & North May Ave. 50 Plus Members attended and enjoyed the good food and music. A good time was had by all.

EARS hosted the Bi-annual ORSI (Oklahoma Repeater Society Inc.) meeting which was held

at the Edmond Public Library on 2-11-89. Many appreciative comments were received by members who attended the meeting. Thanks to all who provided the refreshments and the others who chipped in time and effort to the meeting.

PARADES; PARADES; AND PARADES

The Saint Patrick's Day parade will be held in downtown OKC on March 18. The Centennial Parade will be in downtown OKC also on April 21. A lot of help will be needed to cover these events so come and enjoy the fun and fellowship. Don't feel like you can't help, any contribution can be used. COME ON DOWN.

:::::NEAT STUFF:::::

Neat things are coming to the EARS repeaters. You might be of the impression that .135 is the only EARS repeater, but there are several to choose 147.37; 444.5; and 147.135. Stay tuned for information on all kinds of neat stuff. The Annual Graduation dinner will be sponsored by the Scholarship Committee at our April Dinner meeting. Come and meet all the new hams and let them meet those who they have only been hearing. Time and place will be announced later.

One last note to remind all members who haven't paid their dues, they need to do so as soon as possible and get this behind us. Mail to: Gloriea Guinn - KB5BGM, 3301 MARLA LANE - EDMOND, OK 73034. Better yet, come to the Board Meeting March 14 and see what is coming up in the next few months.

During the ORSI Meeting it was announced that SCARS will sponsor another Severe Weather Seminar in Norman. Plan to attend this as last year was fantastic and I am sure that this year will be even better.

73's for now - N5LZF.

machine. Also, next month will be a presentation on constructing antennas. Documents will be available free at the door.

The meeting was concluded at 8:45 PM after a motion to adjourn was seconded.

BICENTENNIAL AMATEUR RADIO CLUB

"To Promote Radio Communications"

The meeting was called to order by Jerry Sproul, Sec / Tres N5AUH at 8 PM Tuesday February 14 at OKCCC, 7777 S May, OKC. President Dennis Musser, KA5GTM and Vice Pres. Dick Baker, WB5TMW were not able to attend. Last months minutes were read by Chris Everett, KB5GGY, Asst Sec., and were approved as read.

TREASURERS REPORT: The club's balance from last month's meeting is \$531.96 with no pending bills. The bill for repeater parts has not been turned in and is pending for next month.

CORA REPORT: The idea for trying to lower the price of usage of telephone line from Southwestern Bell for amateurs radio auto-patch was being evolved. The suggestion of the night was to contact Bob Anthony the new corporation commission member and explain the situation and the great support of all ham radio clubs. The other suggestion was to have a letter writing campaign showing support of reduction of phone cost for auto-patch operation. More to follow next month on this important manner.

OLD NEWS: The vote on Amendment to the By-Laws Article II, Sec 2, was tabled due to only one officer present, By-Laws, requires 2 for vote on such matters and a quorum of members. This matter will be discussed next month.

REPEATER REPORT: Dick Baker was not present to comment. General remark was that the system was now operating correctly after many hours of trouble shooting and changing of aged components. The general contention was that the repeater would be placed on South Community Hospital in coming weeks. The unit was removed to Mustang for easy accesability and closer examination.

NOVICE TRAINING: The class was filled with eight eager to be hams. Appreciation goes for all the volunteers who teach this important class.

MISC BUSINESS: The club welcomes its two new members and those that joined us at the meeting and on the 146.760

ALL HAIL TO HEINRICH HERTZ
When Heinrich Hertz completed his famous experiments in Frankfurt Germany in the years 1887-1888 he finished his notes, folded his books, put his equipment on the top shelf, and moved on to his next project he had no idea of the mighty force he had loosed on humanity,

He was long on education, but short on vision. Marconi, on the other hand, could see a need for such a device. So he took Hertz oscillator, a Frenchmans detector (Branley Coherer) and managed to get his signals out of the back yard. Marconi was soon covering dozens of miles, then ship-to shore; which was his objective to begin with.

There were soon dozens of people with sharp pencils and slide rules working with the oscillator - hundreds of miles were being covered. People such as Sir Oliver Lodge gave us tuned circuits; Reginald Fessenden gave us the first continuous wave transmitter. Lee DeForrest gave us the piece de resistance in the three element vacuum tube which was not only detector but an amplicfier and a generator as well. (After a

seven year fight in the courts he got credit for that too.)

G. W. Pickard brought us the first solid state detector; our old familiar galena crystal and other minerals to rectify high frequencies. Hessing gave us our first system of plate modulation, the constant current system. Thus radiotelephony became practical.

Armstrong created the first feed-back regenerative receiver, later the famous super hetro-dyne principle, and still later he originated frequency modulation.

There were other hundreds in addition to those pioneers working, working on different angles which included amateur radio and high frequency operation. Much sleep was lost, but much was accomplished.

The sad part is that all that hard work of the individuals who made all of this possible has been forgotten. The man with the idiot box paid his money and it had better work. Ask the soul yapping on CB (and the repeaters Ed.) who Reginald Fessensen was, and he will tell you he hasn't kept up on all the latest rock singers.

Ham Shack Gossip

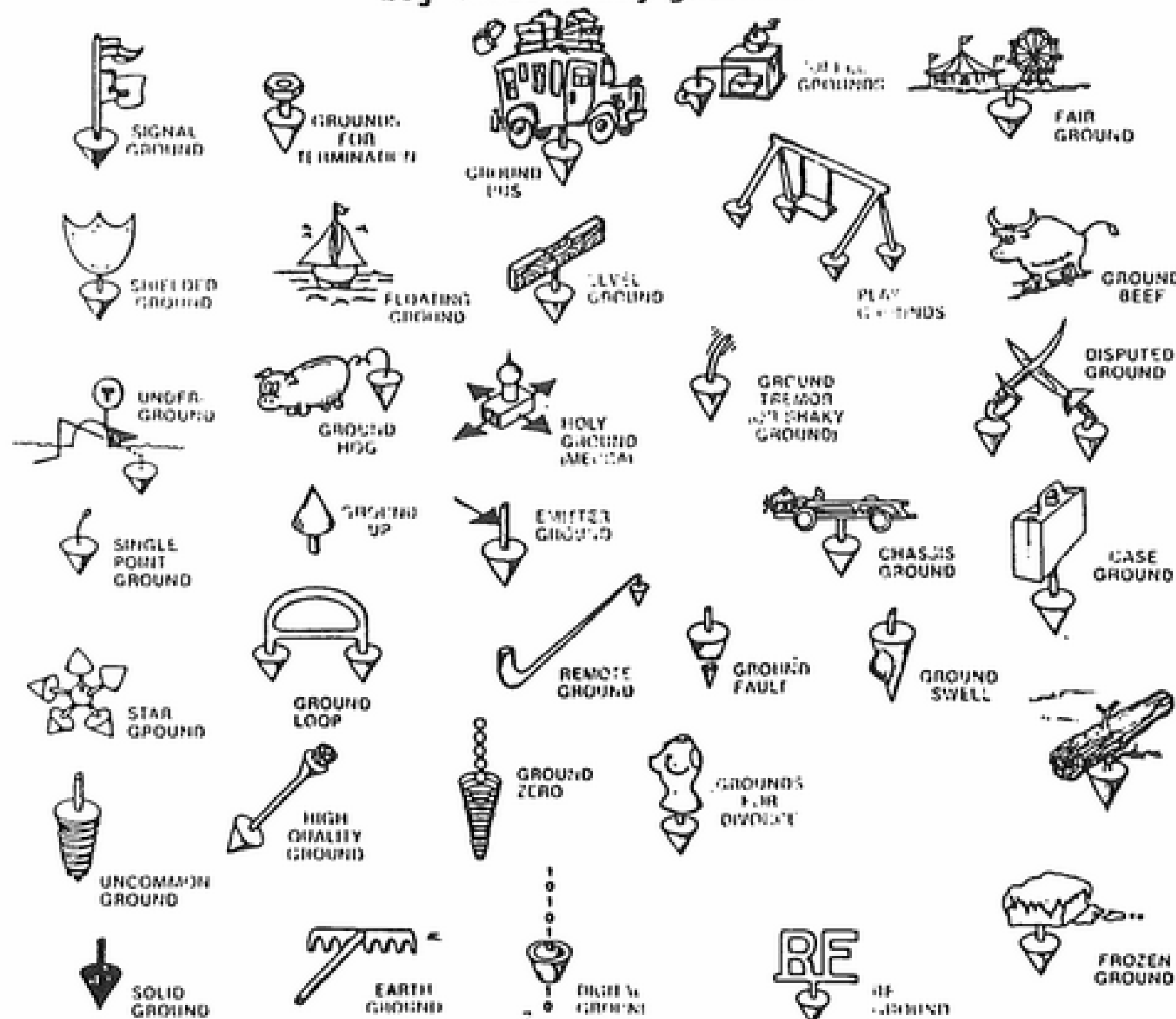
ITEMS FOR THE COLLECTOR AND EMITTER

Often the new club editor (and some of the "older" ones) wonders what can be used to fill up all that blank space their club is allotted in the C&E. That's all you need. In going over some of the "swap" papers we receive the following list has been created:

President's column
Secretary's report
Treasurer's report
Officer's reports
Notices of meetings
Board proceedings
License classes
Greet new members (That one has been sadly neglected)
Biographies
Silent Keys
Repeater news
Autopatch usage
RTTY column
ATV column
Facsimile column
Event communications
Emergency tests
Laws - antennas
T V I
New Call signs
FCC petitions
Net operations
Procedure hints
Net reports
Activities reports
F C C News
TVI Complaints
TVI solutions
Engraving pencil use
Net control rosters
Third party traffic
Radiation hazards
Correct shack wiring
Interclub meetings
Show and Tell
Science reports
Product reviews
Computer articles
Hardware/Software
Hamfest announcements
Proposed By-Law changes
Telephone calling tree (alerting entire club)
ARRL Bulletins
Assistance to public
Y L Column
Hints-copying traffic
Examinations - dates
Book reviews
Award nights
Burglar alarms
Insurance
Identifying equipment
Repeater maps
Stolen rigs

And the myriad of other subjects that I didn't even think about.

Dig these crazy grounds!



Don't take grounds for granite. The usefulness of a specific type of ground as a point of reference depends on the application characteristics of your particular circuit.

WHAT'S NEW

Well, another month has come and gone and it's time for another write-up for the old C & E. Once again it appears our beloved Vice-President has fallen down on his job and for our club to have any input it will be left up to the old pro. He must be out working or something, for he is seldom on the repeaters. For one thing, I heard he has been having to attend classes of some sort to improve his image.

REPEATERS

As far as is known, all repeaters are now in good working order, or at least doing as good a job as can be expected. Heard say that Mr. Mac has screwed the squelch down on the .82 pretty tight and it is now working fairly well. Haven't spent much time listening to the .21 frequency, but I have heard no complaints.

WHERE IS HE?

One of the former regulars on the morning and afternoon traffic nets of the .82 repeater is missing. I'm sure everyone remembers his shotgun laugh and familiar ROGER ROGER response to questions asked. But, this gentleman hasn't been heard from in so long, he must have either let his license expire or he has given up the ghost and gone to better pastures. It is believed that he has hired on as a Captain of some cruise ship sailing the Caribbean since he became a trusty seaworthy person. I am personally familiar with the Honcho of the Oklahoma City Boat Club and he has told me that he believes he is still alive and kicking. Anyone for a reward?

FOX HUNT CONTINUES

The every other Saturday morning fox hunts are still going on, but I found it hard to believe my ears when I heard the last one was cancelled due to cold weather. Most of the chasers wound up at some do-nut hole and had coffee and do-nuts rather than chase the fox. I thought foxes liked cold weather. Listen in on .82 for details of the next hunt.

OUT AND ABOUT

I was out roaming the roads of southwestern Oklahoma recently near Altus and heard my good friend W5CCV, Joe McDonald, on the Altus repeater. Joe had sent me a QSL card recently informing me that he had finally made the grade and was now an Extra Class. I gave Joe a call and talked for some time and I told him I would be spending the night in Altus. Joe informed me that the regular monthly meeting of the Altus area club would be meeting that night and invited me to attend. I graciously accepted and went. It was a very interesting meeting and I met some old friends from the Mangum area that I hadn't seen in some time. The Altus club is starting a new VE examination program with the help of Joe and others. I told the fellows we appreciated their input to the Collector and Emitter and gave them a special invitation to make plans for Ham Holiday. Many thanks fellows for the welcome.

FEBRUARY MEETING

WHAT A GREAT MEETING! Bob Robert really did it this time. I would have to say that this was the first "Ham Meeting" I have attended in many a year. We had an interesting antenna lesson and everyone learned something. We even had a test on our knowledge of antennas. We had over 30 in attendance which was very good. BR has promised other similar type programs in the coming months. One in particular will be on the art of cooking, offered by W5MEL.

FIELD DAY

It isn't too early to be making our plans for Field Day this year. Once again, Craig, K5BOB has agreed to be the honcho and more than likely it will be held at the same location as last year. BR would like to see a real turnout for this one. We need more operators, especially for the c.w. tent.

CENTENNIAL PARADE

Stan, N5JFQ, has indicated he plans to use amateurs for the downtown 89er Centennial parade this year. He needs volunteers with talkies. If you are interested, give Stan a call at 231-1889 (Police Station). The parade will be held on April 21 beginning at 1:00 p.m.

1989 LICENSE PLATES

If you are like most of us and have not received your new 1989 decals or

new callsign plates, be warned that the Oklahoma City police have been issuing tickets for expired plates. So, either put your original plate back on or display it in some place to be on the safe side. We have been promised we will have the new plates around the first of March.

K5NK

I HEARD

DDB telling GKK to buzz off
PSF has a shadow GKK thinks
O5S sounds like another Yankee
BCX has a sore spot BOX lost
..... JDH looking for dose JN
out hunting rabbits at night with a
machine gun DDB freezing his
butt off IS thought that was
strange BOX didn't care
BQS wasn't impressed O5S was
excited about it JDH still
looking for a dose KLN is a
wheel GKK being told off by a
professional electrical engineer
..... BOX crashed his computer
GKK plans to turn KLN's compass
around PSF wears his lunch on
his shirt JN going after some
pain ESM thinks sex on TV is
uncomfortable DDB watches out
for those top loaded VCR's BQS
has a loose wire JN is having
trouble keeping his pants on
JDH finally found some dose IS
jumping out BOX fired his XYL
and hired a good-looking secretary
..... SXJ promoting his ski lifts on
Mustang Mountain GD can't get
on the air when he gets home because
GS hogs the station MEL has
milked many a cow BOX thinks
that is udderly ridiculous IS
jumping out GI anyways
MEL doesn't care to listen to all
the packeteers and computerers

•
Critics: people who are quick
on the flaw.

Net/ROM Routing Paper

This didn't make it to my house in time for my column but I thought someone might want to know about it. If you are involved with a Net/ROM node, you should know about a paper that Doug, N5DUB prepared about the strategy he is using to make the Net/ROMs handle normal routing better under "band-opening" conditions. He says it is free for the asking if you send him a SASE. (Better make it a legal size envelope because it is three typed pages.) He calls his paper, Using "reliable Neighbor" Routing as a Friendly Alternative to Fixed Net/ROM Routing. Doug's address is P.O. Box 76451, Oklahoma City, OK 73147. Joe, K5JB



Minutes of January Meeting

(C&E submission was prior to club meeting because of my travel schedule so these minutes didn't make the February C&E.)

Meeting was called to order by President Jack, WB5ZKZ, at 12:10 p.m., at the Homestead Country Kitchen, with 22 members and guests present. Minutes of previous meeting were approved and Treasurer's report was approved. Ellard, W5KE, reported that there were 17 paid-up members.

Steve, W5VCJ, wanted me to mention in the published minutes that dues for the VHF club are only \$5.00 and you can't hardly find a cheaper way to get the C&E if you are not already in one of the CORA member clubs. "Besides that", he said, "We have a lot of fun for \$5.00!" President Jack expressed a desired goal that each member recruit one new member this year.

Motion passed that if the Aeronautical Center ARC wants to do Field Day, our club would be willing to join them in the operation.

Meeting adjourned at 12:24 p.m. and Charlie, WA5JGU, and Jack, WB5ZKZ, showed video tape of the club station setup at the state EOC. Jim, K5VRL; Ken, K5VFN; Larry, K5VVD; and, Charlie, WA5JGU, fired up the station and checked into the Kididdlehopper Net. Jack then showed a video tape from Germany, construction of the Kehlstein road, in Southeast Germany, that lead to "Eagles Nest", Hitler's fortress retreat. Joe, K5JB, Sec'y

February's Meeting Minutes

Meeting was called to order by President Jack, WB5ZKZ, at 12:06 p.m. at the Homestead Country Kitchen, with 19 members and guests present. The Secretary read the minutes since they had not yet been published, and Jim, K5VRL, gave the Treasurer's report for Ellard, W5KE. Ellard ran a little late because of the Midwest City Swap Meet, but he made it before we adjourned! He reported that we now have 25 paid-up members.

Ken, K5VFN, reported on new equipment purchased for the state EOC Club

station, W5LOW. It includes a new Icom HF station and an Icom 100 Watt 2 Meter station. Antennas for all bands are being reworked.

John, KB5IHJ, announced that he passed the Technician test this day at the MWC Swap Meet. (Again, this illustrates the advantage of having that Novice ticket in hand before going for tech. John was able to go right out and buy a dual band talkie and get right on the air, rather than wait for a call from the FCC!) Congratulations, John!

Someone reminded the group that the RACES net meets on 3997, 3 p.m. every Sunday and all are welcome to join in for the experience and practice in traffic handling.

Meeting adjourned at 12:25 p.m. Joe, K5JB, Sec'y

Packet Activity

Things are moving rather slow in getting the Net/ROM port on 145.05 activated because of equipment difficulty on the tri-node in Norman. Monte, WB5RZX, has been breathing new life into a rather elderly Motorola 2M rig that suffered hardening of the capacitors. After a few days on line, the power supply gave up (I know, it was humming because it didn't know the words...). Dave, WB5FWE, has been working on some GE Mastr equipment to have some alternatives available.

Mac, K2GKK, jumped into the .05 action in a big way by putting a GE Mastr II on the air in a prominent location. Its call is K2GKK-5 and alias is GKK5. Normally, it has no terminal connected so if you connect to it you will get a "polite" (polite for Mac, anyway) message and disconnect.

(This "prominent" location is owned by one of the most benevolent "sugar daddys" we have had around here and I don't know how he feels about the publicity; but, Thank you, Elmo, for the many helping hands you have loaned through the years. Few people realize the contributions you have made to the 2M and 450 repeaters around here. I know you got me out of a jam a couple of times!)

Since Mac put the .05 digi on the air, and the network connectivity isn't quite ready for the mainline BBSs to move to 145.05, I opened a port on my file server over on .05 and will leave it there until the other BBSs get moved. We did some heavy duty testing the

first few days and the Mastr II handled some 20K downloads without breathing hard. I am using the attic antenna for that frequency so most people have to use GKK5 as a digi if they don't live nearby. The GKK5 digi is getting some good signal reports from outlying areas and should make a good connection to the WA5BQX-2, WB5RZX and WB5FWE BBSs when they move to .05.

The "arrangement of the day" on the C-BBS here is K5JB on 146.05, K5JB-1 on 146.415 and K5JB on 145.01. The latter frequency doesn't permit downloading (transmitting files from the BBS), for obvious reasons. This BBS is a file server, meaning, it has large (and small) files from Compuserve's HamNet, technical articles from various places, and the last year's collection of my C&E columns. I get these files from various places and make them available on this BBS. It is similar in concept to the Apple BBS (K5JB on 146.415) and may eventually replace it. Neither BBS forwards mail but accepts mail forwarded to it. That is how some of the interesting files arrive, primarily via TCP/IP. Don't be concerned if you can't hit me on .05 because when I am piddling and need to draft a TNC, that is the one that gets drafted first.

As a file server example, the Net/ROM - Rip/ROM analysis done by a software engineer is about 20k long. It has been working its way through the BBS mail forwarding system, putting quite a strain on it I might add, and it was already available on the file server here since it appeared on HamNet. Someday we are gonna get organized!

Dave, WB5FWE, acquired the latest version of the TCP/IP code for the MS-DOS computers. It is KA9Q version .33, W9NK version .4. It has some nice refinements on how it handles Net/ROM activities but we discovered that its internal timers for Net/ROM node broadcasts and mail kicking stopped after a user connected to the mailbox via Net/ROM circuit. This is no good so I sent off a bug report and we dropped back to the W9NK v.3. That version sends a "busy signal" if you try and connect to the Net/ROM pseudo node name. KA9Q has been reorganizing his net code and is planning a major release soon. Dave, WD5G, found a copy of Karns' source code with dates as late as Jan 89 and there were indeed some interesting changes. Karns has been diddling with 56 kbps speeds which requires some extraordinary handling with the IBM PC-AT design. At that speed, data is simply

coming and going too fast for that computer without some hardware help.

The TAPR annual meeting in Phoenix is this month and there should be some interesting news from that event. I would like to make it some year, but for the present, I have to be satisfied with Dayton Hamvention in April, sigh! Joe, K5JB

Oklahoma Repeater Society Meeting

...was held in Edmond February 11, Hosted by the Edmond Amateur Radio Society, and it was a good one. EARS did a dandy job of setting it up and arranged for cookies, tea and coffee for the crowd.

I offered to put the minutes in the C&E if someone would get them to me but I haven't received them yet. They may be mailed to the members since Ken, W5QMJ, a professional court reporter was busy taking notes. The most significant business item had to do with the telephone fees being charged to repeater operators for the phone patch circuits. Mike, N5MS, ORSI's legal agitator, is to check the status of things and if appropriate, ask that it be set on the Corporation Commission agenda for a hearing. I'll try and pass along the news as it becomes available.

It was good to see the turnout for the ORSI meeting, with representatives of repeater builders and users all over the state. If you are interested in continued quality repeater operation, it would be good to become associated with that group. There will be a meeting at Ham Holiday. Elections have been slipped half a year so they won't take up the limited time available during Ham Holiday, leaving the agenda free to deal with the issues of the day. There are two meetings a year. The summer meeting is at Ham Holiday and the winter meeting is held at various places around the state. Joe, K5JB

Packet Terminal Programs

I received a copy of Lan-Link mentioned in last month's column and it is not the one Dave, WB5FWE, and I thought it was. Its name is similar to Lanlink, a local area network (LAN) product from Software Link, Inc. Lanlink costs \$349 for the network host and \$79 for each computer attached. Lan-Link is a "begware" packet, AMTOR, BAUDOT, CW, etc. program written by Joe Kasser, G3ZCZ, for the MS-DOS computers. The review which follows is going to be a bit like the "book reports" I used to write in high-

school after scanning through a book and finding enough of the highlights to fake it.

The idea for this column came from Charlie, NN3V, in Virginia, who wrote to tell me that he had swapped off the PK-64 for a PK-232. He was unhappy that the PK-232 was more difficult to use, even with the program he bought from AEA to run it. He missed the ease with which the PK-64 managed packet operation and asked if I knew of any better programs. He didn't mention what kind of computer he was using so I had to reply that I would check my notes to see if I could find any info for him. I am still checking. I don't think I'll be able to help if he has a C-64, because the only program I know about is the one the Texas Packet Radio Society was selling for a fund raiser. I was given a program, on cassette tape, by a man at the MFJ booth in Dayton one year, but I confess that I gave it away before I made it back to the flea market.

There are a number of good packet radio programs designed for the MS-DOS computers but my experience with them is very limited because I basically don't do much keyboard work on the MS-DOS machines. Remember that my earliest packet experience was served quite well with a printing dumb terminal and I only pressed the Apple into use when wanting to save something for posterity. Having come from that environment, I am quite comfortable with issuing commands to a TNC and have never felt a desire for a computer program to help me. With that explanation of my naivete done, let's look at a couple of programs briefly, and then look more closely at what Lan-Link does.

Perhaps the most popular communications (terminal emulator) program for the MS-DOS computers is Procomm. This program, designed for telephone modem use, started as a shareware program written in compiled BASIC, and has developed into quite a capable, professional program. I suppose versions are still available as "shareware" or "begware", where the author freely distributes it, and asks for a donation or a fee payment if you find it useful. But, it is also available in a more fully featured version from the author's company, Datastorm Technologies. This program has no special features for packet radio, but the build in script (canned commands or phrases you want to send) could be adapted to packet operation.

Of course, there are legions of commercial modem programs for the MS-DOS computers and they are all serviceable. (e.g. Blast, Crosstalk, Mirror, Qmodem, ASCII Professional, PC-52, MITE, ASCOM, etc.)

YAPP (Yet Another Packet Program), written by WA7MBL, is another shareware program that uses hardware handshaking for TNC flow control. It incorporates a binary file transfer protocol that is of dubious value. (The binary protocol works OK, but most useful MS-DOS programs are so danged big, it ain't practical to send them over packet radio.) YAPP wants to configure the TNC its way and when you leave it, it shuts the TNC off. I never liked the program to do things to the TNC without my permission so I never did much with this program after running it once. (I do weird things with the TNC with my own programs but that is different. I understand what my programs do!)

Lynn, WB6UUT, wrote a program, called TERM, that is specific to the PK-232, and other AEA TNCs that have that company's HOST protocol. (Host protocol makes it easier for a computer to control data flowing from a TNC. AEA has it and TNC firmware written by WA8DED has a host mode. They are not the same.) TERM uses windows to show status of all kinds of things like multi-connected sessions. I have an early version of the program that was kind of buggy but I am sure the latest versions are OK. Since it manipulates the TNC in strange ways I am not attracted to it for the same reasons I avoid YAPP.

AEA sells a program for the PK-232 called PC-PACRATT (I think) that I saw demonstrated on a lap-top once. It seemed to take forever to get started because it sends a bunch of configuration data to the PK-232 when it starts. Sorry, I don't know how good it is but some who use it think it is the berries. It was written by a contract programmer for AEA and it is a big program, as I remember. (Since my first communication program for the MS-DOS computer was 97 bytes long, I have a warped perspective of program sizes!)

DRSI, provides MS-DOS programs with the PC*PA packet adapter it sells. The packet "engine" in this software was written by WA8DED and has his host mode available. The big-time terminal program provided by DRSI has all the bells and whistles but performed awkwardly in my multi-tasking environ-

ment so I wrote my own, minus some of the bells and whistles.

That in a nutshell is about all I know about MS-DOS packet communications programs in general so let's look at one in specifics. I may want to try it sometime if I can shake loose a TNC from one of the BBS ports, Hi! Joe, K5JB

Lan-Link Packet Program

I downloaded a copy of Lan-Link, about a month ago, from Compuserve's HamNet. I was watching for it since I saw it mentioned in the Washington, D.C. area. The reference to it was relating how it could automatically connect to a Packet Bulletin Board System (PBBS) and retrieve mail or bulletins of interest. I took a look at the files, which arrived in archive format and was bowled over by the documentation. The .doc file was 186,000 characters long! I don't do too well in reading reference text off of a computer screen and this one was clearly too long to print (for casual perusing) so it took this long to check it out. It looks real good, particularly if you are interested in AMTOR, and the other things a multi-mode TNC can do.

The copy I got was marked, "LAN-LINK Version 1.51 (c) 1988 by G3ZCZ" and includes a note that it is distributed for evaluation purposes. There are instructions on how to order your very own copy, which I bet is somewhat updated, judging the massive amount of time and work evident so far.

The following is the introduction and feature highlights from the first few pages of Lan-Link's documentation:

LAN-LINK is a Personal Digital Communications Terminal Program for a Packet Radio TNC. The program is designed to optimize the configuration of the TNC in each communications mode and to provide some smart terminal features. It takes advantage of the extra features of the PK-232 which is made by Advanced Electronics Applications Inc. It is designed to allow anyone to use and get the most out of their packet TNC as well as from the PK-232 and KAM for Morse, ASCII, BAUDOT, AMTOR as well as Packet Radio communications without having to keep the manual handy.

LAN-LINK is a sophisticated program. In its basic state it allows you to use the TNC in an optimal manner. It configures the TNC for you to maximize the communications efficiency in the

communications mode of your choice. That means, for example, when working Packet on HF you need to program the TNC parameters to different values than you would use on VHF to make maximum use of the mode. One significant difference is the length of the packet itself, for the longer it is, the greater the probability of QRM destroying it. This program will adjust the packet parameters for you.

Since the computer is now involved, other features have been added to simplify operation, and several features have been automated. All these operations are performed using menus and function keys as documented below. It will take a while to learn how to use this program in a manner that suits you, read this document and have fun, after all, isn't that one of the purposes of Amateur Radio.

PROGRAM HIGHLIGHTS:

Function key and Menu driven.

Automatic logbook entries for Packet and Mailbox/Beacon mode AMTOR Connects, semi-automatic logbook entries for other modes.

Log file can be processed by the DBASE Logbook Package of PC-HAM by G3ZCZ for indexed listings, tracking of DXCC and other AWARDS, etc.

Contest operation, sends standard message and automatically increments QSO count.

Automatic optimized configuration of the TNC for each communications mode.

All mode Function key 'OVER' feature (End).

PACKET RADIO:

Automatic capture to disk of all packet radio connects.

Automatic indication of the number of Packet connects.

Local Area Network (LAN) message store and forward capability.

Capable of automatic connect attempts to download a QTC from an other station in the LAN.

Capable of automatic connect attempts to a packet BBS to download your incoming messages, when your call sign appears on the BBS mail beacon annunciator.

Capable of automatically requesting Bulletins on subjects that interest you from your local packet BBS.

Digipeat monitoring and capture.

Alert signal to let you know when a predetermined call shows up in a packet header on frequency.

Conference mode in multi-connect situations.

Bridge mode in multi-connect situations.

Path determination to DX station.

Indicator that a specific station designated as the 'target' call connected in Packet mode, or linked to AMTOR Beacon/Mailbox while you were away.

Automatic NET/ROM and KA Node path set up from LAN-LINK.DIR call/path directory file.

Selective answering machine and MAILBOX using NC/L command dialog.

Screen indication of connect by desired station (target call).

Automatic Beacon Mode CQ caller.

Will call CQ repetitively and either work the connect and keep going after disconnect or signal you when a reply is received.

AMTOR:

Automatic CQ caller. Will call CQ repetitively and signal you when a reply is received.

Local Area Network (LAN) message store and forward capability.

Selective answering machine and MAILBOX using NC/L command dialog.

Function key change from monitoring FEC CQs to QSOs in progress (chirpcopy).

Automatic Beacon Mode CQ caller.

MORSE/BAUDOT/ASCII:

Automatic CQ caller. Will call CQ repetitively and signal you when a reply is received.

RTTY SELCAL:

NAVY MARS RTTY file transmitting protocols for the PK-232.

Lan-Link has an interesting conference mode, described in the manual as follows:

...In the conference mode on the other hand, everything that you type at the keyboard is automatically transmitted to each station that you are connected with. Thus if you are linked to two stations each line will be packeted twice by the TNC. You don't have to worry about sending the wrong thing to the wrong person, as they will all get the stuff.

You connect in the usual manner using Alt-C or the Connect option in the Call Menu. You MUST WAIT FOR A CONNECTION TO BE ESTABLISHED OR TIME OUT before attempting to connect to the next station. If you do not, you will get an error message back from the TNC.

In the conference mode, as the same text is transmitted on all I/O channels, the throughput will be reduced. Slow down your typing speed or use short packets. Should you check the link status or call monitored list, you may not be able to get back into the converse mode if you have too many packets outstanding. If that happens, wait a while and then try to set the converse mode with command key 10. You may have to try it a few times, depending on how good your links are.

DON'T TRY TO SEND A FILE IN THE CONFERENCE MODE, ITS NOT DESIGNED FOR IT. KEEP THE PACKETS SHORT.

BE ALSO WARNED THAT IF YOU USE THE CONFERENCE (BRIDGE) MODE ON BAD LINKS (SUCH AS CROWDED HF CHANNELS AND OTHERS WITH LOTS OF RETIRES), THE KEYBOARD MAY SEEM TO LOCK UP, WHILE LAN-LINK WAITS FOR SPACE IN THE TNC BUFFER TO OUTPUT THE TEXT.

The conference mode will only work in the PK-232 if DCDCONN is set to ON. So if you are using a PK-232, LAN-LINK will do it for you when you enter the conference terminal mode in case you forgot or/and haven't set the LAN-LINK.SYS file to include the line 'DCD ON'. At the same time set LAN-LINK.SYS default states to show the calls of other stations on each incoming line in the MULTI connect modes. (Read the TNC manual for how to do this).

The conference mode will only work in the TNC2 if DCDCONN is jumpered so

that Pin 8 of the RS-232 Interface changes state when you connect to someone else. If you get error messages and see the characters 'J' on your screen, then the jumper probably isn't set.

In the conference mode, if any one of the stations disconnects, the TNC will return to the command mode, and you must use command key 10 to return the program to the converse mode before you type another character of text.

There is also a conference bridge mode but it appears that the user running Lan-Link has to be rather close by to supervise things. Notice the note about what happens if someone disconnects. Again, from the manual:

...This option toggles the conference bridge on and off. In the Bridge Multi Connect Mode you are acting as a central switch. You can link together up to 10 stations in one multi way connection. In this mode any packets arriving on any stream are echoed to all other streams that you have 'connects' on except the one that they came in on. Anything you type will be sent to all connected streams.

In this manner, all stations will not see their own text echoed back. Each line of text output by LAN-LINK in this mode will contain the callsign of the station originating the packet. Your packets will contain your call as entered in line 1 of the LAN-LINK.SYS file. Thus for example, if your call was KB8RP/4X and normally shows up in the packet header as KB8RP here it will show in the data as KB8RP/4X.

Just remember that the bridge puts out a lot of packets, so do multi way connects on a quiet frequency. You must be in the conference mode to turn the bridge on, and any disconnect will take the bridge down. Should that happen, toggle it on again. A bridge will be shown in the status window whenever the conference bridge is up.

And here is a cute feature that should have been incorporated in all the TNC firmware ever distributed...a "kill the other guy's beacon mode":

I recognize that some stations may abuse the beacon facility of this program. I have thus built into the program a 'remote shutdown' capability. If someone running LAN-LINK has their beacon timer set too often, connect to them in the AMTOR or Packet Com-

munications modes, and tell them to "QRT" which will clear their beacon mode and take them off the air for a while at least.

In section, A1.7 Strange Events, Joe includes a curious problem the program experiences. (Clue to the solution is to give the PK-232 a pause after sending a command so it can do its busy-work between commands.) From the manual:

If the TNC does not use an interrupt driven serial port you may experience problems when using baud rates greater than 1200. The PK-232 DOES NOT LIKE LAN-LINK to use RS-232 baud rates faster than 2400, and sometimes not even that. Use 1200 until YOU have tested and ARE SURE that a faster one will work.

IF YOU HAVE ANY STRANGE PROBLEMS AND ARE USING an RS-232 TERMINAL BAUD RATE to the TNC WHICH IS GREATER THAN 1200, set the Terminal Baud Rate to 1200 and see if the problem goes away.

That should give a picture of what Lan-Link is designed to do. I ran the program with a telephone modem attached so I could see what it was going to send to the TNC and how things would look on the screen. It makes use of windows and looked real good. It has configuration files for PK-232, Kantronics KAM and KPC series, TNC-1 and TNC-2. It uses software handshaking so it shouldn't be difficult to get working. (People have more trouble with the RS-232 "standard" than they ever had with electron coupled oscillators!) I really intended to give it an on the air test before writing this but I just didn't have the time to see how bullet proof it is.

After fooling it into thinking it had made a couple of connects, I exited the program and examined the files created. It made a "heard" list and a log of my fumbling around. Looked good enough to me to try it on the air sometime.

The evaluation copy is cheap enough. Send me a mailer and formatted floppy and I'll send you a copy of mine. Postage will be \$.45 each way so the price is right. If you are the daring type, send \$35.00 to Joe Kasser, G3ZCZ, P.O. Box 3419, Silver Spring, Md 20901, and get the latest version. Telephone number is given in the documentation as (301) 593 6136. Let me know what you think, and I'll pass it on. Joe, K5JB

OPRA News

Regretfully, I have to report that J, KB0QJ's father passed away about the time I was preparing this and J was heading out of town to make preparations for that. My sympathy goes to J and his family.

J pointed me to Dave, K5PL for an update on latest OPRA news and Dave left me the following response on the NWS computer:

You could mention that OPRA has received its letter from the IRS that acknowledges OPRA as a public foundation, tax-exempt under 501(c)3.

Also, there are some planned NWS computer software upgrades for 1989 storm season. Changes will be made to reduce response time and increase product transfer rate. The echo tops product has already been added. It can be retrieved with the "TOP" command. This product shows storm tops within the 120nm range.

A new lightning product will be added (some technical details still need to be worked out) but all the necessary approvals have been obtained. The lightning product will resemble other RADAP products and will show ground strike density in a 10 minute interval in each of the RADAP bins. A RADAP bin is an approximately 3 x 5 mile box. Some weather wire products will be added to the system. These could include special weather statements, watches (currently entered manually), and forecasts. We have not decided on the products to be included.

Thus concluded Dave's response. I noticed somewhere a squib that the NWS computer folks would like to support a satellite BBS that obtained the products from the NWS computer for further user dissemination. This sounds like a peachy keen idea to me. The squib noted that such a process should be designed to operate without assistance from the NWS people.

It seems to me that since the NWS computer is completely predictable, a packet BBS could initiate a connect to it and download the latest products, say once an hour, during interesting weather, and less often at other times. Users could then access the satellite BBS to get the information they want.

I haven't given any thought to the details of linking, frequencies, etc. but would be interested in helping some-

one with the project if they want to establish such a service on some frequency other than 145.01.

See next month's C&E for what J thinks OPRA will be able to do with that IRS letter in hand. Joe, K5JB

TCP/IP Update

As soon as I finished printing my regular column for this month, Paul, N5PT, got it all together and fired up his rig on TCP/IP. Sandy, WB5RRR, has been trying to get TCP/IP software for the Apple Macintosh so he could join us in the fun.

It seems that there have been some problems getting the bugs out of the Macintosh version of the net software but several people are working on it. There are versions available, I understand, for the Commodore Amiga computer, but I haven't seen them. The only person I am personally aware of using the Amiga on packet is Wanda, KJ5C, who is a regular on the Apple BBS on 146.415.

One of the problems we are having in getting the TCP/IP to work well in our area is the lack of stations willing to leave a computer running all the time. It is no small commitment with the risks of power hits, thunderstorms, etc. liable to louse up the works at any time. Most packet activity consists of a few minutes of action and hours of idleness. I fully understand user's reluctance to make that hardware commitment.

Fortunately for my conscience, I long ago lost the compulsion to justify the silly things I do. Like my friend Hoss, WA5ZAI, says, "It ain't what you NEED that means anything! If you WANT it, go for it!" Joe, K5JB

KAY KOUNTY

AMATEUR RADIO KLUB

February Meeting Notes

This meeting was held in the E.O.C. room in the basement of the public service building. It was centered around preparation for the upcoming storm season. We talked with Norman Coffelt and Mr. Packet gave a demonstration of the National Weather Service packet network. There was a good turnout in spite of the weather and other activities on that night. We also discussed the Emergency Trailer (see below), the Novice Class (see below), and the next meeting (likewise).

One note--we found out that Harry WD5DPR is in the hospital, be sure to give him a ring or drop him a note. Speaking of hospitals, Paul should be back at full force by the end of the month.

Next Meeting

Our next meeting will be held back at the Vo-Tech. It will be at 7 p.m. on Thursday March the 16th. Our program was going to be put on by N5PC about a new antenna tuner that he has perfected, but he can't make it that night due to a conflict. We'll look forward to having him in April. Mike is talking with Fred W5VAY to see if he's available to give his talk on lightning protection. Stay tuned to the Monday night nets for late breaking developments.

Public Service Event

The next event is April 1st at Lake Ponca. It will be a biathlon. A 5K run, a 30K bike ride, and another 5K run. Listen on the Monday night nets for more details.

Novice/Technician Class

A new class began on Feb. 7th at the Vo-Tech building. We have a very good turnout so far, about 12 people enrolled. Mike N5LPZ and Dave WN5LUI are doing most of the teaching, with some help from Mike N5JJR and yours truly. WE NEED SOME MORE HELP!!! If you can come help just a couple of nights please contact Mike N5LPZ. This would be a great chance to brush up on your theory and rules.

Emergency Trailer Notes

We got a good charge on the batteries before the weather turned real cold. It's a good thing too, they were so far down they would have frozen! A big thanks goes to Jay W5TXF for this. Norman has said we can leave the trailer where it is, so we can keep them charged. If you have a small (1 to 5 amp) battery charger you don't need, we can sure use it to keep a charge on them. Give me a ring if you do. We're going to need a Saturday's work to clean up and finish up some work on the trailer. The first nice weekend in March, I'll be calling around.

That about wraps it up for this month, tune in the Monday night nets at 9 p.m. on 146.97 (the late night place to be) for more details and the latest developments. 73 for now, Dave KD5FX.

THE ARRL Letter

Volume 8, No. 3

February 11, 1989

17 METER BAND OPEN!!

On the morning of January 30, the FCC issued a news release which announced the opening of the new amateur 17-meter band (18.068-18.168 MHz) that very evening at 0001Z, January 31 (7:01 PM EST)!

A copy of the news release was obtained by ARRL Counsel Chris Imlay, N3AKD, and faxed to HQ. A bulletin announcing the opening of the new band was immediately sent over W1AW. Word spread quickly; at 0001Z that night it was wall-to-wall signals to usher in US entry to the new band. W1AW worked 70 stations that evening before the band closed. The 17-meter band is one of three new HF bands allocated to the amateur service by the 1979 World Administrative Radio Conference (WARC).

The other two bands, 30 meters (10.1-10.150 MHz) and 12 meters (24.890-24.990 MHz) have already been allocated to the amateur service.

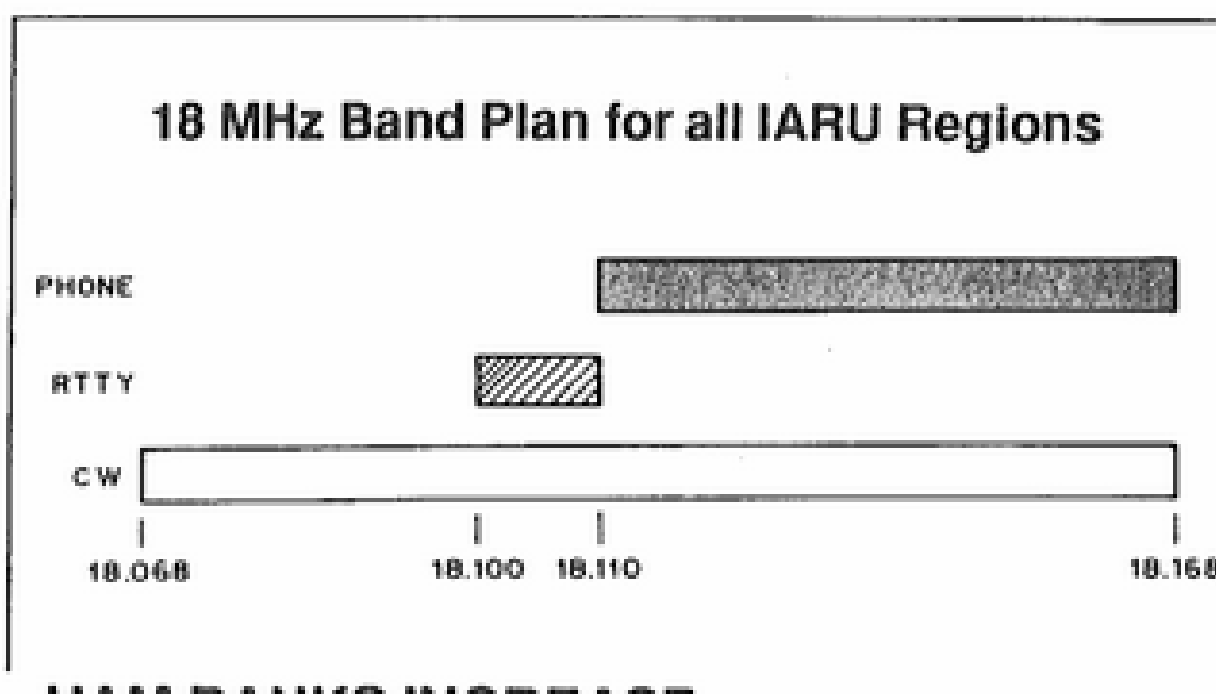
Early US amateur occupancy—it was to become exclusively amateur on July 1—was contingent upon the relocation of certain US government stations that had informed the FCC of their continued presence to that date. But the FCC said it would continue to monitor usage looking for possible early entry for US amateurs.

On September 28, 1988 the ARRL filed a request for temporary use of the 17-meter band, pointing out that over 60 countries already allowed their amateur access to the band, and the additional US amateur stations using the band would not cause any significant additional interference to the remaining Government fixed stations. The request was renewed in our comments in PR Docket 88-467, filed on October 31.

In its news release, the FCC said that the Department of Defense (DOD) was still utilizing major portions of the 17 meter band and would continue to do so until July 1, 1989. However,

DOD had agreed to allow secondary use of the band by US amateur stations, subject to immediate termination if interference is caused to Government operations. After July 1, the band will be exclusively amateur; until then, amateurs also are obligated to avoid interfering with stations in the fixed service operating in other countries.

The band is open to all General, Advanced and Extra class licensees with a maximum output power of 1500 watts. As recommended by all IARU regions, the telegraphy emission A1A is permitted in the entire band, with RTTY/packet recommended from 18.100-18.110 MHz. SSB/analog subband is from 18.110-18.168 MHz. See chart below:



HAM RANKS INCREASE

The number of FCC-licensed radio amateurs has surpassed 440,000 for the first time in history. FCC figures as of December 27, 1988, show a total of 440,311 licensed amateurs. By license class this looks like:

Novice	80,168
Technician	101,495
General	113,082
Advanced	98,681
Extra	46,885
Total	440,311

Q. R. Zedd

HOMER GETS TRANCED OUT

Faithful readers (if any) will recall that in last month's column we began our exclusive, copyrighted report on the latest brave attempt by Q. R. Zedd to get Homer Klott's brain to work.

Zedd, of course, is A5A, holder of our only 1x1 callsign, the greatest DXer ever, and an inspiration to us all. Homer is the preternaturally stupid nerd whom Zedd has been trying to teach ham radio theory and CW since about the last time a Democrat was president.

As related last month, it was a dark and stormy afternoon at Honor Roll Ranch, just a hoot and a holler south of town. Zedd told the assembled, adoring representatives of the South Canadian Amateur Radio Society that he had a new plan to make Homer *think*.

Then in came Dr. H. D. Cortex, world-famous psychologist and hypnotist, who said he could hypnotize old Homer in an instant, and make him as smart as the average bear. Naturally, as you can imagine, that prospect made the rest of us real excited.

Homer was supposed to come at 3 p.m., but since he has never learned how to tell time, he was late. He got there at 4:30.

WHAM! WHAM! WHAM! on the door came this hammering, and *slam!*, back went the door and in with the north wind, some rain, and several old Twinkie wrappers came this short, ugly, scraggly-haired, bandy-legged, bucktoothed, staggering dork wearing Donald Duck bib overalls and a Jimmy Johnson tee shirt, black hightop tennis shoes, and on his head this beanie with a red propeller going around at 350 RPM.

"I are here!" screams the apparition! "Lucky you guys! Shazam!"

Zedd strode over to the nerdlly one and grabbed him by the ears, propelled him to a chair in front of Dr. Cortex, and clamped a hand over his mouth.

"*Mmmpff pumph ghtshpmf!*" Homer gargled.

"Go ahead, Doc," Zedd said quietly.

Dr. Cortex, a distinguish older man with gray hair and a goatee, whipped his gleaming gold watch from his vest pocket. He began swinging it back and forth in front of old Homer.

"Homer," quoth the doctor in a

low, measured tone. "Watch the watch. Follow its path. See how it swings back and forth, back and forth."

Zedd's hand slipped off Homer's mouth.

"Hey!" Homer screamed. "Zowie! I seen this in Sherlock Holmes onct! Dr. Watson done it to Moriarity or somebody! Sock 'er to me, Doc!"

And no more than having said these words, Homer stiffened, his eyes glazed even more than usual, and his eyelids clumped closed as his head fell forward onto his scrawny chest.

A total silence fell over the hamshack of Honor Roll Ranch, just a hoot and a holler south of town.

"He iss in trance," Dr. Cortex said softly. "Now, my friend Zedd, you vish him to unterstandt amateur radio theory, ja?"

"Ja," Zedd said. "I mean affirmative."

Dr. Cortex focused all his amazing mental powers on the sleeping idiot. "Homer. You haf zee ability to learn ziss ham radio theory. You will unterstandt all you haf ever read on ziss supcheckt. You vill also know und be able to sent und receive CW code at a high rate of speedt. Ven you awake, Homer, you vill think und perform like a ham radio genius!"

The profound silence lengthened as Homer soaked in the hypnotic suggestions. Dr. Cortex turned to the rest of us and said very softly, "Ziss induction vill only work once -- one time only! But I sink I haf succeeded. -- Let us find out."

He turned back to Homer. "Homer. Wake up now."

Homer's eyes opened. He had a strange and totally unfamiliar look on his face, one like we had never seen there before.

He looked *intelligent*.

"How you feel, pard?" Zedd asked.

Homer said, "Most diagrams of resonant circuits show only inductance and capacitance. No resistance is indicated. Nevertheless, some resistance is always present. At frequencies up to perhaps thirty megahertz, this resistance is mostly in the wire of the coil."

Zedd looked thunderstruck. Tondelayo, listening from the doorway, began to weep.

"The charge or quantity of electricity that can be placed on a capacitor is proportional to the applied voltage and to the capacitance of the capacitor," Homer went on. "The capacitance depends on plate area, spacing, and quality of insulation between the plates."

"Let me turn now to a discussion of oscillators. Oscillation normally takes place at only one frequency, and a desired frequency of

SCARS Events Calendar:

Olympic Festival Volunteers Meeting, Mar 8, 7 pm, Norman Public Library.

Weather Seminar, end of Mar, contact Andi, WU5W, 799-5150.

Mini-Baja, April 15, contact Davis, K05IT, at 321-7570.

Centennial Bicycle Race, April 22, contact Steve at 799-5150.

Olympic Festival, July 21-31, contact Steve, N18W, 799-5150.

A man of 55 was sure he looked 10 years younger until one of his grandchildren brought him back to reality by asking, "Grandpa, were you with Noah on the Ark?"

"Of course not, child," snorted the indignant grandfather.

"Well, then, how come you didn't get drowned?"

COMPUTER FOR SALE

ZENITH Z-100, 7.5 meg hard disk drive, \$600.00.

Daisy writer printer (emulates Diablo 630) includes 3 print wheels, \$200.00 OBO.

Make us on offer on the pair! Call Sandy or Dorinda 946-3388

oscillation can be obtained by using a resonant circuit tuned to that frequency. For example --

"It's a dadblamed miracle!" Zedd breathed.

Dr. Cortex donned his scarlet-lined cape and headed for the door. "Iss least I can do for you, my friend Zedd!"

"This is wonderful," Zedd choked. He watched Homer, who had grabbed a pencil and paper to draw some Hartleys and Colpitts. Zedd hugged Tondelayo.

Everyone was weeping with joy. The logjam inside Homer's brain had been broken by hypnosis. He was able to function at last.

"It's amazing!" said W5MCN, his voice at least 40 over 9 in the hushed room. "Why, Homer learned all that stuff just like *that!*"

And W5MCN snapped his fingers.

And Homer sort of twitched.

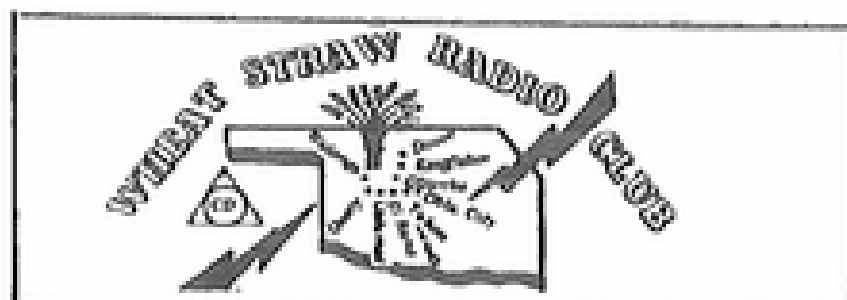
And the light went out of his eyes.

The trance had been broken.

"Oh, no," Zedd moaned.

Homer turned dull eyes toward him. "Are we going to talk Home's Law again today, good buddy? Sock it to me. I think I got 'er now. The P and the eye is over the zee. It are like a spigot. Am I ten-four so far, over?"

-- KU5B



Meeting was held February 12th at the St Rose Catholic Hall with 37 present. We wish to congratulate KG5JB Betty and WO5B Edgar, they were presented Elmer Awards by AA5IY Karey and AA5JQ Kris who stayed with them until they got their Amateur Extra license.

WA5PFFK Ralph talked to the club about having a thirtieth anniversary celebration of the Wheatstraw Radio Club. After a brief discussion N5IKN made a motion thyat the president appoint a committee to start working on it. Seconded by AB5Z Ray, motion carried. The committee named was K5GBN Johnny, WA5PFFK Ralph and N5IKN Tom. Vice president K5GGL announced he had appointed AB5Z Ray as activities chairman during the 1989 year. Ray and his wife Sue live on a farm near Londale. Besides gardening, Ray works for the State Highway dept. He is active on HF and VHF frequencies, holding an amateur Extra class license.

The club voted to go to Mooreland April 1&2 to attend the Great Plains Amateur Radio Club's Eyeball QSO. We go about every year and we all enjoy it. We have our meeting while in caravan enroute. I enjoy the meeting in caravan, they are always so orderly.

N6CL Joe our state Section Manager visited the meeting, we welcome him anytime. Joe reported that Southwestern Bell has been asked to lower the repeater rates. He has volunteered to work with the Oklahoma Repeater Society to study rates.

THE NEXT MEETING WILL BE IN KINGFISHER. The location is not announced at this time. Please checkinto the Wednesday nets for location. The time meeting starts is 2:30 pm, Sunday March 12.

We have been missing KD5OG Ralph at El Reno. He has been in the hospital with pneumonia. He is home now, but was too weak Sunday to come to the club meeting. We are glad he is home and doing good. He talked to N5IKN Tom, asking

him to thank every one for the cards, letters and calls, he really appreciated them.

We have six new members for 1989. We welcome them and are happy to have them. N5MZP David Rumsey of Canton. The Rumseys own a business there, David has been the mayor and is now the city judge. KB5FWT Harley Eliot, Canton's mayor retired from Boeing Aircraft in Wichita Kansas. N5MPG David and KB5FYF Jane are the Coles. They have two boys who they are proud of. The boys are in Cub Scouting, their father works at the 3M plant in Weatherford where they live. N5MOL Jon Lellman of Weatherford also works at the 3M plant. K5CPZ Carol King lives in Oklahoma City. Carol is a lovely young school teacher. She teaches handicapped children in three different schools. Holding an amateur Extra Class, she operates 160 thru 10 on HF bands plus 2 meters. We welcome all of you.

Associate members are Nina, wife of N5MZP David. Essie wife of KB5FWT Harley. These ladies do not have their license yet. We have several associates we need to get started to school.

W5MGZ Perry our honorable president had the program. It consisted mostly of magnetic forces. It was very interesting to all ages. He showed the flow of electrons, magnetic poles, also the change of poles. How the increase of current would lift higher a metal ring around a magnetic core. Really a person would have to see it demonstrated to believe and enjoy it.

Meeting adjourned for refreshments. the girls had the table cloth, napkins, plates and everything decorated for Valentines Day. Margaret, Mary and Goldie served refreshments fit for a king.

In the absence of the auctioneer WZ5H Leo, W5JEB Father Joe auctioned off the power plant, doing a good job of it. Thanks Father Joe.

A couple of Wheatstraw members its good to know. Johnny F. Fish was born July 24, 1923 southeast of Geary. Living on a farm he attended a country school up through the eighth grade. On graduation from Geary High School he attended NYA Radio School at Tnknawa. Johnny was interested

in amateur radio at the age of 12 but did not get into it yet. Quitting school at Tonkawa December 12th, he joined the Navy, taking his boot camp at San Diego CA. After boot camp Johnny was assigned to a school on board a ship at San Francisco where he was taught code and typing eight hours a day for five and a half months. After school he was assigned to an Argus 20 unit which was a radar communication unit. Landing over seas he got out of code and into the repair of radar and communication equipment. Johnny liked repair a lot better than copying code eight hours a day. He got up to 23 WPM but did not make the 25 it took to get a 3rd Class rating. Johnny made two trips overseas, after serving over thirty eight months he was discharged Feb 13 1946.

Being interested in amateur radio from a young age he was first exposed to it in Oklahoma City at W5HQV station who was a friend of Johnny's aunt. Johnny had built some crystal sets, a couple of tube type radios and converted surplus reveivers plus other pieces of equipment. After getting out of the Navy Johnny went to work at the Thompson Hardware. It was an I.H.C. dealer and also a dealer for motor trucks.

After driving a butane truck for a few years and makina couple of trips harvesting all the way to near the Canadian border in Mantana. One day his best friend Harold (Bus) Blum said to him, "I don't think you could even pass the Novice test." That started the challenge. Johnny went out and took the test to prove he could pass it. Then he and some more fellows went to Bus's school and he got his Tech. Johnny worked six meters until 1967. Sometime near 1960 another thing happenes, Johnny and Margaret met.

Margaret was born July 5 1927, southwest of Calumet on a farm in Canadian county. She attended the Rock Dale school near her home thru the eighth grade. Margaret started to High school there in Calumet, but did not finish school. Going to work at the Mustang Field south of El Reno, where the government was training cadets for World War II. Later she was transferred to

CONTINUED NEXT PAGE

SUN	MON	TUE	WED	THU	FRI	SAT
HAM HOLIDAY XVI HAS BEEN SET FOR THE LAST FULL WEEKEND IN JULY 28-29-30		MARCH				
			1	2 AERONAUTICAL CENTER ARC	3	4
5 GREAT PLAINS ARC	6	7 <small>New Moon</small>	8	9 ALTUS AREA A R A CIMMARON ARC	10	11 SOUTH CANADIAN ARS
12 WHEATSTRAW ARC	13 EDMOND CLUB	14 O U 76'ERS ARES OIDAR <small>1st Quarter</small>	15	16 KAY COUNTY A R K	17 <small>Saint Patrick's Day</small>	18 CENTRAL OKLAHOMA VHF CLUB
19 EDMOND SOCIETY <small>Palm Sunday</small>	20 <small>1st Day of Spring</small>	21 OK CITY AUTOPATCH	22 <small>Full Moon</small>	23	24 EDIT NIGHT FOR C & E <small>Good Friday</small>	25
26 <small>Easter Sunday</small>	27	28 CORA CORA CORA CORA CORA CORA	29	30 <small>1st Quarter</small>	31	APRIL 1 FIRST DAY OF THE MOORELAND EYEBALL QSO

2 APRIL

SECOND DAY MOORELAND EYEBALL QSO

Cimarron Field southeast of El Reno, working in the canteen. In 1944 she went to Modesto CA, working in the Army Depot at Lathrop CA. In 1945 Margaret came back to Calumet, spending about six months with her mother. Going back to Stockton CA, Margaret went to work in a drug store as manager of the snack bar and soda fountain. Coming to Calumet again on a two week vacation, she met Johnny.

Vacation over Margaret went back to work. They kept in touch writing and the land line. In 1962 Johnny took Margaret's sister and her husband to California to visit Margaret. The two became engaged. She came back to Calumet with them. November 2, 1962 they were married.

In the fall of 1966 Margaret went to Bus Blum's Radio School and received her Technician license. Her call, WA5RLP, came in January of 1967. Johnny upgraded to General and later to Advance.

Going to Bus's School with a few other fellows he passed his Second Class Phone license. Margaret joined the Wheatstraw in January of 1967.

In 1959 Johnny and K5RLM James Stults took part in their first Field Day. In February 1960 they organized the Wheatstraw Amateur Radio Club. There were twelve charter members. W5VCJ T.W. Blevins helped to organize the club. Johnny had worked 36 years in the hardware and implement business. Eleven years as secretary/treasurer of the club. He has been on the Technical Committee since we put up the repeater. He received a service plaque from the club for service. At the hardware he served as parts man, mechanic, radio and TV repairman, welder and anything else needed. The last six years Paul Hobson has been the owner. He has worked and been a member of the Lions Club, the American Legion, Masons, Sec of the Calumet Improvement Corp., Member of the VFW at El Reno and the Kiwanis club.

WA5RLP Margaret has served as reporter for the club, Vice

President, Worked with the 25th anniversary of the club, and is always helping the club with one thing or another. She worked several years and is now a housewife. Johnny and Margaret are both members of the Christian Church. Margaret has served for 19 years as secretary. Johnny served 17 years as Treasurer of the church. He is now semi-retired says he hopes to do some of the things he has been wanting to do. Personally knowing Johnny and Margaret, they are always going to keep busy lending a helping hand to any one in need with a big welcome. We hope your life continues to be a happy, full one. God Bless.

WA5PFK Ralph

LEASE or SELL: DX-QTH. 55 Ft tower, 3 Yagi beams 10, 15 & 20, TV satellite dish on extra lot. Brick house near university, Mid-Hi and grade school. 3 bed, 2 bath, 2 car garage. For photos write Box 927, Edmond OK 73083 or telephone 341-4209.