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

# WHAT IS POLICY ON NO-CODE?

Many members are asking League officials what is "ARRL policy" with regard to the current discussion of a possible no-code class of amateur license. Here is some background.

After the FCC was forced to back away from its own 1983 no-code license proposals, the ARRL Board established goals for growth in the number of FCC amateur licensees and in the ARRL membership. Given that at the time there was strong sentiment against reducing the entry-level requirements for an amateur license, ARRL looked for ways to improve the marketing and increase the attractiveness of the existing entry-level license. These efforts led to the Novice Enhancement proposal which was submitted to the FCC in mid-1985 and was adopted in early 1987.

Novice Enhancement proved to be successful in several ways. On-the-air activity of Novices and Technicians increased dramatically. Upgrading and the rate of license renewal by Novices both surged upward. Novice Enhancement also motivated some people to clear the licensing hurdles who previously had not wanted to make the effort; however, in the first 18 months of Novice Enhancement the numbers of licensees did not increase as much as had been hoped. The FCC decision to reallocate 220-222 MHz (the fight for which is far from over!) caused many amateurs to attribute new significance to the issue of growth. This, coupled with widespread publicity about the expected phasing out of Morse code in the maritime service, suggested that the time may have come for another look at entry-level requirements.

Last November, ARRL President Larry Price, W4RA and Executive Vice President Dave Sumner, K1ZZ, collaborated on preparation of an editorial for the January issue of QST entitled, "Why Morse Code?" The editorial called for a rational discussion, within the democratic framework provided by the League, of the no-code KASEFJ, NSBEW. When ever someone license issue. Advance copies of the editorial were distributed at the December 10 meeting of the Executive Committee. Subsequent discussion led the Executive Committee to instruct President Price to appoint a special study committee, made up of representatives from the Board, the amateur community at large, and the Amateur Radio industry. to explore the implications of a no-code class of amateur license.

The study committee was appointed January 9 (see ARRL Letter, Vol. 8 No. 1, January 13, 1989) under the chairmanship of Vice President George Wilson, W4OYI, and immediately began its work by correspondence. Several committee members CONTINUED WEST PAGE

# The South Canadian Amazeur Radio Society

SCARS

met on the Saturday the 11th of March 1989 at the Red Cross. meeting was called to order at 0937L by president Andi, WUSW.

The minutes of the February meeting were published in C&E. No one had any questions about the minutes so they were approved unread.

The treasurer, WB5RZX, announced that the account had \$1640 and dues were still being collected.

Old Business:

Mini Baja - April 13 - 15, Bob Guthrie has organized the radio operator volunteers for support of this event. Enough people have said that they will help. A schedule will be set up for the operators this week.

89er Stage Race - This will be a sort of warm up for the radio support of the Olympic Festival bicycle events. Steve Wolfe, NI8W, is organizing the operators for this event.

Olympic Festival - Steve is also signing up operators for the cycling events here. ALL volunteers must attend a mandatory Olympic Festival volunteer meeting. See Steve for the forms and details.

Technical Committee - Following discussions at the last meeting about the absentee technical committee this body has been expanded to include the following "volunteers" (some of whom "volunteered" under NSHZR, K5PL, K5KUK, NI8W, duress): notices that there is a technical problem with the repeater they should notify WU5W or N5HZR of what is wrong including symptoms and the time they occurred.

Storm Watch II - The second severe weather spotter seminar will be held on 25 March 89 at the Norman Public Library from 10 am to about 4 pm. Andi would like help setting up for it and if some people would bring cookies and "stuff" they (the cookies) would probably get eaten. No formal cookie roster will be established.

CONTINUED NEXT PAGE



### ALTUS AREA AMATEUR RADIO ASSOCIATION

The Altus Area Amateur Radio Association held its monthly meeting at the Altus North Main Fire Station on 9 March.

Present for the meeting were Bob N5NQO, Joe W5CCV, Bryan AA5BR, Chuck WD5BBN, Terry K5HP, Dwight WB5KRH, Phil K9PNT, Frank AA5IT, Clyde W5ZDI, Deanna WB5UMH, Paul WD5BBO and Mike W5VXU.

The treasurer's report showed that the Club has \$340 on hand.

After some serious discussion it was decided that each member should put in writing his or her feelings on the No Code situation and then the secretary will put together a letter to the ARRL stating the Club's opinion on the matter, once and for all.

With the clearing of the weather in the area it was decided that the Saturday morning breakfast meetings would be started again.

The next one wil take place at the Quartz Mountain State Lodge on Saturday, April 29 at 8 am. All amateurs are invited to attend. No serious business will be discussed since most of the time will be taken up by visiting, and general fellowship.

Dwight has gotten himself in the local newspaper on several occasions and on the radio station as he is trying to get the community ready for the next storm season.

Frank is still working on putting together a large RF amplifier but his efforts have been slowed a bit due to an ORI at the airbase.

Bob is still trying to clear up a massive radio noise problem in the alley behind his house.

Mike is in the process of getting another tower. The one he just bought from Rupert is still in its original location and no progress has been made yet in taking it down.

Mike, N5VXU

# MoreSTARS

License Class - Will be starting at 7 pm on Wednesday the 15th. The faculty will include N5MAF, NISW, and WA7UDK.

New Business:

ORSI Meeting - N5KUK Attended the ORSI meeting last month. Some corrections were made to the repeater information with the state coordinator. ORSI members voted to request that N6CL and N5MS assist with the telephone rate problem that is facing the repeater operators.

Committee Reports:

Technical Committee - Nothing to report other than the expansion of the committee.

NWS - Weather Net control operators have been signed up for the spring season. A training session will be held, next week if possible and a schedule should be available then.

ARES - Anyone who plans to be a storm spotter and has not attended one of the past training sessions should plan on attending on the 25th.

CORA - We need someone to volunteer to represent us at CORA meetings. CORA is progressing on Ham Holiday and have had some dealers confirmed already.

Guests: Jerry, KAOPFZ and Bob KO4Z were visitors at the meeting.

Door Prize: There was one and someone won it after a mis-draw but I didn't write down who won what.

The meeting was adjourned at 0957 local time.

Ken, N5KUK



#### NO CODE ?

were present at the Florida State Convention
(Miami Hamboree) the weekend of February 4 and
were able to attend meetings of the informal
industry group which has been discussing the
issue of Amateur Radio growth for the past four
years, as well as to get together themselves. The
first formal meeting of the study committee is
slated for March 11.

Between now and June, the study committee will be developing a report for the Board to consider at its July meeting. The report may or may not include a recommended League position. The Board may or may not accept such a recommendation. ARRL policy will be whatever eventually garners the support of a majority of Directors.

There's no way anyone can know at this time what that will be.

Latement was given by Fre atterson. The main order susiness was the upcoming yeball QSO to be held in great city of Mooreland on April 1st and 2nd. All placements are discovered and first light and programs were discovered and first light.

In the meantime, a reasonable statement of ARRL policy that reflects the Executive Committee's December 10 action is that the subject deserves careful study over the next several months. Any member wishing to provide an input to that study should be encouraged to address the study committee members, either individually or c/o ARRL HQ, as well as their own Director.

The ARRL Letter

LEASE or SELL: DX-QTH. 55 Ft tower, 3 Yagi beams 10,15 & 20, TV sattelite 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.

last club meeting. We couldn't let this feat go unnoticed, so good luck, Gerald, and try to cut down.

#### TORNADO

The severe weather season is upon us. It is time to limber up the 2 meter rig and peel an eye toward the sky. Hopefully the weather will be mild but we've had several years of good times and our luck can't hold forever. To help us stay lucky, National Weather Service meteorologist Bill Bunting will be giving severe weather spotter training seminars in a number of Oklahoma communities. Bill is from the NWS office in Norman, Oklahoma. Bill will be in Woodward on April 10th at 7:30 p.m. The place has yet to be determined depending on the expected size of the turn out. Keep checking with Andy Taylor. Leon

## GREAT PLAINS A.R.C.

WSMGH Repeater 146, 13/73

The March meeting was called to order by president Windle Hatchett. The minutes of the last meeting were read by Rod Ford and a financial .tatement was given by Freida atterson. The main order of usiness was the upcoming yeball QSO to be held in the April 1st and 2nd. All plans for this event including tables, concessions, communicdiscussed and finalized. Tammy Bowman is in charge of the children's program and Freida Patterson is taking care of the ladies program. A major event such as this creates a lot of work and everyone has been very generous with his time. The list of volunteers to make this a success would be too large to print so a big thanks to everyone involved.

Andy Taylor, Network Manager, Oklahoma Service Network, reports that 12 sessions, 118 check-ins, and 3 pieces of routine traffic was handled for the month of February. Sixteen members and one guest were present for the March club meeting.

#### NOVICE CLASS

Gerald Bowman says that the new novice class is coming along nicely. Everyone enrolled is enthusiastic and working hard to learn code. The class meets every Monday at the Mooreland High School. Everyone is welcome to attend. Novices are the new blood of our hobby so please be sure to encourage anyone you know who might be interested in being a ham. Anyone wishing to donate one hour of their time to help by conducting a demonstration or class discussion on theory, safety, antennas, or anything relevant, please call Gerald or Leon.

Jodee D'Avignon gave the novice class a demonstration of packet radio at the last class. He explained repeaters, TNC's, and programs and generally had everyone's unblinking attention.

By the way, Gerald smoked his annual cigarette at the

#### 1 AERONAUTICAL CENTER ARC HEETS: FIRST THURSDAY, FLIGHT STANDARDS BUILDING. FAA. SOUTH MACARTHUR 7:30 PM PR TED ANDERSON, NYSW SE DOUG TEACHMAN, WODXA ASPR HAROLD TODO, WASVAG ASVP CHARLIE GREENE, WASJEU EDITOR: BILL OLIVER & LUKE ELLIS 2 CENTRAL OKLAHOMA VHF WEETS: 11:00AM THIRD SATURDAY, THE RESTAURANT, 3100 N PORTLAND, DKC PR JACK MUSE, NBSZKZ VP FRED BOARDMAN, WSNL SE JOE BUSNELL, KSJB TR ELLARD FOSTER, WSKE EDITOR: JOE BUSWELL, K5JB 18 GREAT PLAINS ARC .MEETS: 2:15 PM FIRST SUNDAY WOODWARD PUBLIC WORKS BLDG. PR WINDLE HATCHETT, WASPLW (FT SUPPLY VP BOB BAYLESS, WBOGAX SE ROD FORD, WB50VT(6ASE) TR FREIDA PATTERSON, MSEOX(HOND) 'EDITOR: LEON CARLISLE, KBSCZT 4 OK CITY AUTOPATCH MEETS: 7:30PM, THIRD TUESDAY SALVATION ARMY. NW 50 & PENN PR ROBERT SHAM, WASBOX VP DENNIS PATTERSON, NDSCSM SE LEONARD HANSTEIN, WISHEL TR LARRY DAVIS, KF5JN EDITOR: CHUCK WILHITE, K5NK 5 DKLA UNIVERSITY ARC MEETS: 7:30PM SECOND TUESDAY (SEP-M 115 WILSON CENTER, 1334 S JENKINS PR FRANK DONALOSON, MSIQJ VP JOHN WUSTENBERG, KESN S/T JIM GREENSHIELDS, WDSHPU 6 ALTUS ASSOCIATION MEETS: 7:30PM, SECOND THURSDAY, NOR' MAIN FIRE STSTION (CD) ALTUS PR FRANK FERITTA, AASI: WP NONE S/T MIKE SCHENKEL, W5VXU EDITOR: MIKE SCHENKEL, W5VXU 7 BICENTENNIAL (76er) AF MEETS: 8:30PM SECOND TUESDAY OKLA CITY COMMUNITY COLLEGE, ROOM 2 PR DENNIS MUSSER, KASGIM VP BILL SKIPPER, KB5BS S/T JERRY SPROUL, NSAUH EDITOR: CHRIS EVERETT, KB566Y 9 WHEATSTRAW ARC MEETS: 2:30PM SECOND SUNDAY. LOCAT

Vol 15 APRIL 1989 No 120

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SE DOUG TEACHMAN, WODXA	392-5458	
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ASVP CHARLIE GREENE, WASJEU	943-5631	ŀ
EDITOR: BILL OLIVER & LUKE ELLIS	329-8333	)
2 CENTRAL OKLAHOMA VHF MEETS: 11:00AM THIRD SATURDAY, THE RESTAURANT, 3100 N PORTLAND, OKC PR JACK MUSE, NB5ZKZ	851041 691-1552	
VP FRED BOARDMAN, WSNL		
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TR ELLARD FOSTER, WSKE	789-6702	1
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19 OKLA INDEPENDENT ARC	
MEETS: 7:00PM SECOND TUESDAY	
SOUTHWESTERN BELL OFFICES, PONCA CITY	
PR VERMON TREIBER, Jr. NSANV	767-6260
VP TRUMAN STEINER, WB5MRE	
SE DEBBIE WHITE, MSLPF	765-5707
TR STEVE HUSTON, KB500R	762-4726
	765-6260
f f granten and an array	

11 EDMOND AR SOCIETY MEETS: ODD MONTHS, 3RD SUMDAY, 2:00PH EDMOND ECC. DINNER, EVEN HONTHS, 3RD FRIDAY, 623-5191 PR HAROLD WELLS, WASZKX 947-4968 VP MARTIN McGEE, MSLZS SE DANN ROWELL, NSKMD TR GLORIA QUINN, KB586M

IF THERE'S ANYTHING WRONG WITH YOUR CLUB LISTING. CONTACT YOUR PRESIDENT TO GET IT CORRECTEDI

#### 13 KAY COUNTY ARC

EDITOR:

MEETS: 7:00 PM, THIRD THURSDAY, SEP-MAY, PIONEER VO-TECH, PONCA CITY OK PR MIKE MORGAN, MSLPZ 765-9539 VP STEVE HUSTON, KB500R 762-4726 S/T HARRY BEATIE, WDSDPR 765-3862

EDITOR: DAVE LAAND, KDSFX

762-8616

340-0034

#### 14 CIMMARON ARS

MEETS: 7:39 PM SECOND TUESDAY MX5Y PLAYHOUSE, 827 S 13, FAIRVIEW (405) 227-4515 PR JACK KELLY, NSLEN (405) 274-3334 RAY BARNES, ABSI (405) 764-3599 SE DENNIS PAINTON, WK5V (405) 764-3599 IR NADINE PAINTON, MSFMH (405) 227-3462 EDITOR: JACK DAY, NNSZ

#### 15 SOUTH CANADIAN ARS

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

799-5150 PR ANDI WOLF, WUSM 799-5363 VP DORINDA SKAGGS, NSIVA SE KEN BROWN, NSKUK 329-7485 TR MONTE BATEMAN, WB5RZX NONE EDITOR: KEN BROWN, NSKUK

#### 16 EDMOND AR CLUB MEETS: 7:00PM SECOND MONDAY. SEE CLUB

SECTION FOR LOCATION AND TYPE PR MARK NORTHCUTT, WOSDY! 755-4672 VP MENDELL COCHRAN, MB51SD 943-4308 S/T KAY NORTHCUTT, WDSDYJ 755-4672

TRUSTEE: DENNIS ORCUT, WBSISN

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

PR FRANK TASSONE, AA561 341-4945 VP DORINDA SKAGGS, NSTUA 799-5363 SE MARSHALL MADDDX, NUSP 360-3205 TR MARK KLEINE, NSHZR 329-4285

OKLAHOMA INDEPENDENT AMATEUR RADIO

These notes are from the March Meeting.

The Novice classes which are a point effort of this and the Kay County club are progressing well. The students and teachers are now enjoying a two week Spring Break. It looks like this will turn out a great bunch of new HAMs in this area. Thanks to all the participating instructors.

In conjunction with effort, a BYOF (food) picnic is planned for the 29th of April to the new Novices. Picnic Shelter 1 at Ponca Lake has been rented for this event . All the area HAMS are encouraged to attend this to welcome the new HAMs.

A severe weather discussion was held. There was some discussion about the upcoming spotter season and the recent training session. The upcoming Storm Watch 2 seminar to be held by the NWS in Norman was discussed. Vern, NSANV, plans to attend.

Jim DelTorto, K5FLL, gave a very interesting program on the old rotary dial phone system. involved stepping switches and relays. Vern tells me that Jim played a tape of the sound inside the switching room, and it must been deafening in there. Thanks a lot Jim.

The April meeting will include the election of officers. to show up if you don't want to hold an office! Dues will also be payable at that meeting.

> 735! Mike Morriss NSJJR.

The farmer called the fire department and shouted that his barn was on fire.

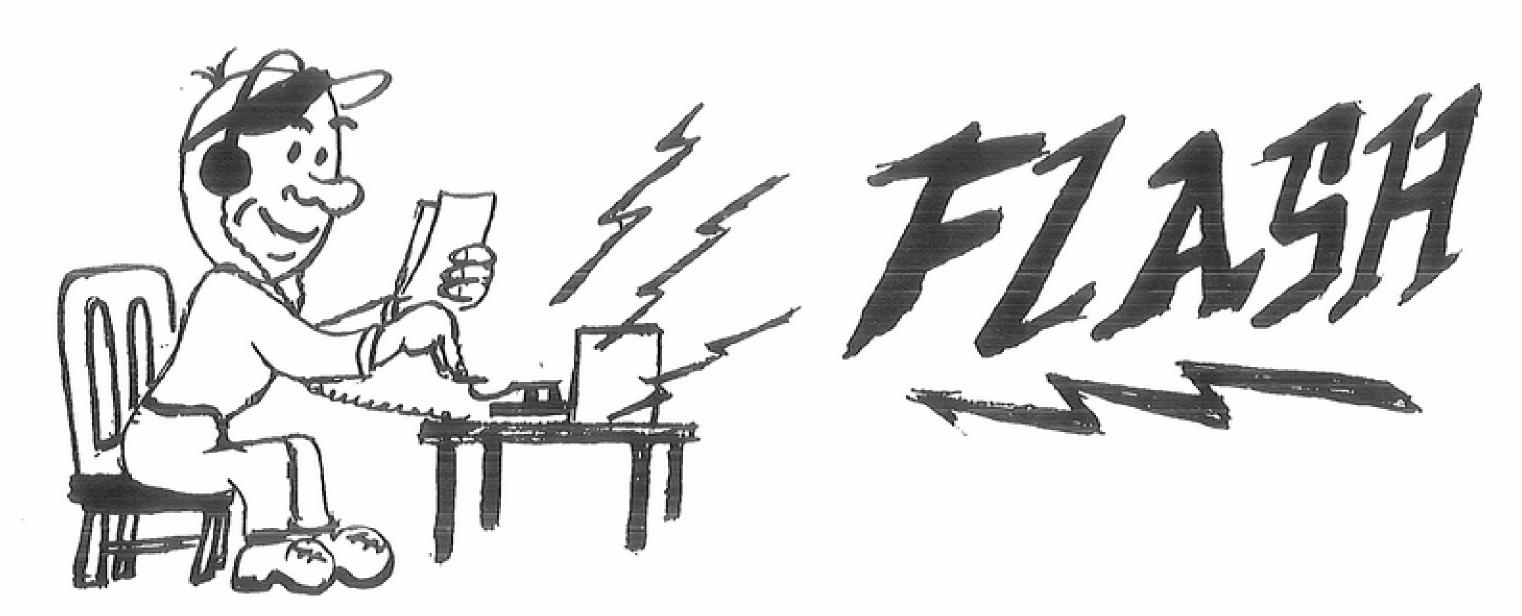
"How do we get there?" asked the chief.

"Don't you still have your little red truck?" countered the farmer.

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EDITOR: JOE HARDING, WASZNF 737-1044 CIRCULATION: BOB GRAHAM, WB5NSV 677-8685



# ANNOUNCING THE GREAT PLAINS AMATEUR RADIO CLUB'S

ANNUAL

EYEBALL QSO

# SWAPFEST

Bring Your Swapping Gear Lots of Free Tables

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

Covers Both Days Kids Free

No charge for tables
No prizes
Two motels

20 + tables already reserved

> NC5C Gerry N. Ford 256-5342

Dinner 1:00 P.M. Talk in 146.52

146.13/73

147.72/12

Dealers Present
Self contained Camper Parking
6 local churches

NZ5T Bart Bart Lawson 994-5940

WG5Z Gerald Bowman 994-5453

#### INDIVIDUAL IMPRESSIONS

Carl C. Drumeller, W5JJ, was a unique individual in amateur radio who made a distinct impression on all who knew him. Since Joe, K5JB, Joe, WA5ZNF and others have already acknowledged his passing into the realm of silent keys, I will confine my remarks to my personal contacts with Carl. first met him on the air on May 21, 1953 when his call was W5EHC. It was an AM QSO on 3.9 MHz. Carl was in Warr Acres and I in Britton. I was impressed with his friendliness and dignity. Carl was interested in encouraging neophytes too. I have heard him several times QRS to their slow speed and patiently stay with the QSO. At the time I was employed as a charter TX Engr. at KWTV, Channel 9 which had recently gone on the air as CBS outlet for OKC and was a multi-million dollar showcase station with the world's tallest tower at 1572 feet. helped install the original RCA transmitter under the direction of Morris Thomas, Chief Engr. and Hal Phillips, TX Supervisor. It was a memorable 4 years of my life from 1953 to 1957. Sometime in 1956, Hal mentioned to me that the best future in electronics for the OKC area was the FAA Academy at Will Rogers Field. Accordingly, I filled out a Civil Service Form 57 and submitted it to the FAA Personnel Office. A full year rolled by with no response till finally one day I got a phone call from Carl Drumeller. He asked if I was still interested in employment at the FAA facility and explained the year's delay was due to no slots open for my experience and salary requirements. In due time I came on board and was assigned to the Avionics Training School which had just been established. There I served with Larry Vorheis, K5RJR, a former colleague at KWTV, and we helped install the avionics laboratory and screen room. An opportunity later arose as Instructor in the "Directed Study" correspondence training Branch and 1 transferred to that area for about 3 years, transferring again in 1961 to a residence instructor position in the ILS/VOR Section of Air Navigation Facilities Branch. There I served as Electronics

Engr. Instr. until my retirement in July 1979.

During this period, I joined the Aeronautical Center Amateur Radio Club which Carl had helped organize. After serving as President, Carl became perennial Secretary of ACARC and first Editor of Collector and Emitter. He was a prolific writer with many published articles in amateur radio periodicals. He loved to lecture on standing wave ratio and other transmission line subjects. He impressed me as a dignified "college professor" type who chose his words carefully and had his lecture fully prepared. He had good eye contact with his audience and could draw out individual response as he lectured. Carl hated the term "ham" applied to amateur radio. He also firmly objected to the code term "XYL" applied to wives. He said "XYL" implied that the woman was no longer young nor a lady! Carl preferred "YF" instead which enunciates almost like "wife". Of course with his firm and set opinions in such matters, Carl had his detractors who thought he was too stilted and stodgy.

I ran into Carl again one spring day when a grandparent day was held at Putnam City Elementary School. He had the usual pride of a grandfather and we enjoyed a good chat as we partook of lunch in the school cafeteria. Carl's wife Mildred was with him. They had 2 sons, 1 daughter, 12 grandchildren and 3 great grandchildren. Summing it up, Carl Drumeller was a credit to amateur radio and a great guy to remember!

Charles E. Maupin, W5HQM

#### No-Code Comments from KOYIY

Subject: No Code Reversal

reversed my position and strongly favor of similar comparisons can be drawn. a no-code license. I do this with a trade-off in mind. Keep the privilege I, like KOYIY, do not propose any operator. Perhaps a VE monitored

internship to assure that we have the beginning of something new in amateur radio that is now sadly missing. Credit for these ideas go largely to two young men; K9RZ and WFOD of Chadron, NE.

I see another 'golden Otherwise, parachute' about to open for a generation of young people who rank at the bottom of a multi-national examination (of 13 year-olds) in science and mathematics, just completed by the Educational Testing Service (ETS). At the top of the list is South Korea and second place goes to British Columbia. The National Science Foundation predicts a shortfall of 400,000 bachelor degrees in science and mathematics majors by the turn of the century, a frightening statistic in the age of the super-conducting super-collider and the spin-offs it may bring. The reason for the problem is arguable but I am convinced that instant gratification is not one of the answers. Young hams could find a new pathway to higher education via amateur radio if we will just offer them a disciplined challenge in a contemporary context. Then, reward them handsomely with amateur radio credentials for which they could have a genuine pride of accomplishment.

73 de Jim McCafferty, KOYIY, P.O. Box 68, Whitney, NE 69367

Via WB5FWE Gateway and K2GKK.

#### No-Code Comments from K2GKK

I add my comments on the subject of "NO-CODE" to the outstanding thoughts of KOYIY (@AGON) which have been on the forwarding circuit since mid-February.

Many, if not most, of us who can be considered "long-timers" in this hobby have at the root of their animosity toward the so- called "no-code" proposals, a deep-rooted feeling that is basically, "I worked for MY license. why can't THEY work for THEIR 11censes?". We "long-timers" need to realize that love of "CW" isn't inherently "GOOD" nor is a dislike of "CW" innately "BAD". Code is simply a ONCE-MANDATORY skill for ANY long distance communication. Many tasks that were justifiably required for an ama-From: KOYIY @ AGON To: ALL @ USPBBS teur radio license in the past are no longer pertinent. Is an ability to couple a rotary spark gap transmitter After reading many bulletin board com- to a "cage" with counter-poise germane ments on the nocode argument I have to the radio art of today? Any number

above the most populated HF and VHF sidestepping of the International bands. Abandon the question pool con- Treaty requirement for a "CW" proficept and require the mastery of know- ciency demonstration for HF operation. ledge of electronics and regulations. However, except for some highly spe-Finally, build into the requirements cialized weak signal activities, virsome specifications for becoming an tually all VHF and UHF activity by hams

CONTINUED ON MEXT PAGE

is "Non-CW". I hardly think that a "CW" I live in the Los Angeles basin. I know requirement is really mandatory for Ron Raikes, WASDED, the author of to the ham bands (HF, VHF, and UHF conference almost 3 years ago. I disalike) knows, the existing "CW" re- cussed the development of NETROM with quirement has NOT "separated the grain Ron on numerous occasions as he was we just got less of both.

Think, I mean REALLY think, about it. What is the purpose of ANY licensing I also know Thom, WAGIGY. (My wife at 1930 by President Ted, exam? It is to ensure that those per- graduated from high school with him.) NY5W. There were 16 members sons granted access to the privileges Thom is VERY competent and honest to a present. After a round of self are at least minimally qualified to use fault. His analysis of the NETROM and introductions, Tom, K5LDI, those privileges without causing harm, "TheNet" source code files is impecca- gave the CORA report. distress or interference to others. The ble. Believe it, "TheNet" is a ripoff skills to be demonstrated for any of NETROM. privilege need to keep pace with conditions in any field of endeavor. To- Neither of us owes any allegiance to the books from the last day's training and certification of Ron in any way other than respect. treasurer. medical doctors is based on currentWe're not related, have no common knowledge. Should amateur radio li-business interests, etc. Thom and I are the program was sick. censing not operate under like crite- both just ham friends/acquaintances of interesting Bull Session ria? Is our present system one which Ron's who are sickened by the way he resulted. furthers the stated purposes, aims, and has been ripped off and abused by a even the reason for the existence of portion of the amateur packet commu- frequencies was discussed. the "Amateur Radio Service"? Is it not nity. possible that changes might advance those aims more satisfactorily?

was tremendous "hue and cry" by men and our networks with stolen software protube "continuous wave" transmitters software piracy has created. supplanted spark. I personally went bands with the switch from AM to FM. nity to amateur packet radio. The little "dead bugs" known as transistors replaced most tube use. Nothing With regard to "the evil that lurks stays the same except that which is amongst us" (otherwise dead. Even that which is dead will de- "TheNet", which is clearly nothing more cay.

Time is upon us once again to move. I If we allow software piracy and theft hope it is forward, but to stay in one to become the standard of conduct in place is, in effect, to retreat. The the amateur radio community ... if we best defense is still a good offense, tolerate, even encourage it ... we'll As I said before, I consider the pro-cease to be worthy of the spectrum we posal by KOYIY to stop the "question occupy. pool" nonsense and require the MASTERY of a field of electronic knowledge and If we condone the theft of software ... regulations for any "no-code" license "so long as it's used to build an exto be a TRUE GEM on the subject of panded network" ... how long before NO-CODE, 73 de Mac, K2GKK Net/ROM Comments from WA6VSE

From: WA6VSE@WB6YMH To: ALL@USPBBS Subject: Comments on TheNET

To all packeteers,

this operation. As anybody who listens NETROM. I met him at a packet radio from the straw". As one man has said, creating it and, like many, personally SAW the earliest Alpha and Beta testing of NETROM actually going on.

The amateur radio community will no nothing specific was decided longer be able to hold its head high on. When the Novice Class License was ini- with pride for its accomplishments in tiated in the very early 1950s, there packet radio if we continue to build good program next month. women who were "long-timers", that am-ducts. Only by publicly denouncing the for coffee and doughnuts at ateur radio was being totally ruined ripoff, boycotting "TheNet" nodes, and 2025. and many of them actually quit the locking them out of the routing tables hobby. The same type of thing happened of legitimate nodes can we erase the at EVERY major change in ham radio. blot on the integrity of the entire Folks got upset and quit when vacuum amateur radio community that this

through almost total replacement of AM I hope that you will support those of (full carrier) by SSB. The same thing us who feel compelled to try and right FCC-ISSUED CALL SIGN UPDATE happened in the last 15 years on VHF this wrong and restore honor and dig-

than a rip-off of NETROM):

we've convinced ourselves that it's OK "All 2 x 1 call signs have been assigned in these areas to steal the hardware, too? How many \_ new companies will endeavor to bringthan packet growth, "the network," or ware!")



The March meeting of the Aeronautical Center Amateur Radio Club was called to order

The treasurer, Doug WODXA, could not give the treasurers report as he has not received

The person scheduled to give

QSOs on the new band

An antenna party for the station was bandled about but

Ted said we would have a

The meeting was adjourned

See you next month.

Bill, K5KDR

The following is a list of most recently issued FCC call signs (February 1).

District O 1 2 3 4 5 6 7 8 9 Guam Hawaii	Group A Extra WROE NV1L WN2I NT3O AB4MU AA5JZ AA6MO WX7A WO8H WF9L KH2K	Group B Advanced KFØAS KC1NN KE2LI KD3LH KM4NM KG5RI KJ6QQ KF7RD KE8WL KE9OM AH2CE AH6JO	Group C Tech/Gen NØKOL N1GGY N2IYO N3GVC N4UWY N5NVT N6UHO N7MFY N8KIA N9IDA KH2DN NH6SL NI.7OK	Group D Novice KBØDXQ KA1TFB KB2HDR KA3UDC KC4IUS KBSIKW KC6BTW KB7GTC KB8GKZ KB9CBH WH2ALX WH6CBV WL7BTO
	NP2E	AH6JO AL7KT KP2BN KP4PV	NH6SL NL7OK NP2CU WP4TO	
A STATE AND LABOR.				

new products to the ham market? ("Why anything else, for if we don't have our bother with the hams, they'll just integrity, we have nothing ... no matsteal our designs and copy our soft-ter how rapidly we can blast bits back and forth across the countryside.

Some of you may have read my vocal and Putting the packet community back on Let's show the onlookers that we're sometimes abrasive comments on the the right track ... by refusing to use better than that!!! 73, Carl, WA6VSE NETROM/"TheNet" issue. I haven't been obviously stolen software to build our rabble- rousing just to get attention networks in reality, more important(via WB5FWE Gateway and K2GKK) or anger folks.





#### GETTING TO KNOW

A few years ago, four or five, or maybe less, one or two, I don't remember exactly how long, but this editor introduced a new feature to the Collector and Emitter called "Getting to Know Your Fellow Members". This seemed to go over fairly well and about the only ones who were offended by the articles were those who never made it. Oh, perhaps one or two of the subjects didn't exactly like what was said about them, but they haven't sought revenge as of yet. One has said he would, but nothing has come of it yet.

Anyway, time has passed and we have many new members in the club and many new amateurs in the fraternity who missed out on these articles. I feel it is time to reintroduce one of our most noted members to the club and inform the newer ones about this rather unusual person.

First of all, he isn't a native of Oklahoma. An extensive traveler, he has seen most of the world. On one of his last tours, he made a stop in Oklahoma and fell in love with this part of the country so much, he decided to make it his permanent home. It was a difficult choice for him to make, being undecided as to whether he wanted to settle down in Oklahoma or one of the southern states. He is also very fond of Mississippi with its cajun food and especially their beer. His boyhood days were spent in the hills of some state located in the northeastern part of this great nation. He has mentioned many times that love nor money could make him want to go back to his original home. He has developed a slow southern drawl and speaks so slowly that you almost go to sleep between words. He has stated on various occasions that he feels all Yankees should go home and not bother us "Okies".

There are so many things about Oklahoma which he loves that space will not permit me to tell you about all of them. He is very complimentary of our roads and streets in our fair state. He has never seen a chuck hole that he didn't like. He feels the highway system in Oklahoma is among the greatest. Going along with our good highways and streets, he feels our motorists are among the most polite he has ever seen. Normally, when a person is about to be run over by some idiot or someone pulls out in front of you, it is your natural instinct to honk and make all kinds of

nasty gestures and remarks at the individual, but not him. He just waves and with a big smile on his face, lets the person know that anyone can make a mistake one time. He doesn't even mind getting behind an old lady who is driving about 25 m.p.h. in a 55 m.p.h. zone. This gives him more time to enjoy the scenery.

He loves our city and state governments. Many times I have heard him bless our city fathers and state governor and legislators and remark about what a fine job he feels they are doing. He never complains about the taxes he has to pay and feels they are spent very wisely in our fair state.

He isn't all that active in amateur radio. He has been an avid dxer and has probably worked all countries so many times he rarely can be heard on the hf bands, unless it is working a rare one on cw. At the present time, he is pretty much of a pack rat and even has a digipeter. Although he won't admit it on the air. I have heard him say many times that his favorite form of communications is still with the broken wire method. He loves cw and has often expressed his opinion that he feels the code speed requirements are much too low. To have the extra class license, he feels one should be able to copy at least 50 w.p.m. He would probably turn in his license if the FCC ever did away with the code requirement for obtaining a license of any kind.

He is a very quiet individual and seldom voices his opinion about anything. Normally, he will just go along with the flow and let others state their opinions without butting in. Seldom will he get into an argument over anything. He usually mixes in with the crowd at the club meetings and rarely has anything to add, and then only when called on. He checks in with the morning and afternoon group on his way to and from work, but seldom has anything to say. He will just give his call for "I.D. Purposes" and let everyone know he is "Monitoring".

He will admit that his knowledge in most subjects is very limited, especially when it comes to electronics. Instead of offering the answer to a question, it is usually him who has the question. He loves to listen to professional people who seem to know it all, especially would be electrical engineers. You will never hear him degrade the class of license held by another amateur. He presently holds the Extra Class license, but one day hopes to earn the coveted Advanced Technician Class.

Although he uses equipment bearing the loom brand, he feels there is better gear on the market. If he could afford it, he would probably use either Yaesu or Heath equipment. The primary reason he

keeps the Icom around is they furnish him with all his T-shirts.

He never complains about the quality of the signal from another's radio. To him, all radios sound about alike. He admits to having a tin ear and has trouble telling if a mike is too hot or too cold.

He enjoys many hobbles other than amateur radio. He has been known to take extended trips on his Susuki motorscooter. He loves animals and one of his most prized possessions is a camel given to him by one of his closest friends. He is very talented when it comes to musical instruments, being very adept on the electric keyboard and guitar. He has even written a song or two. He is a marvel to see on the dance floor. The rhythm he possesses is probably what makes him such a great cw operator.

Not only does he enjoy fast cw, he also loves fast cars. Although he drives General Motors products, he feels the foreign made cars are much superior to those made in the United States. If it has a clutch in it, forget it.

He is one of the regulars at the Thursday lunch sessions. He seldom comments about the food or the location. It seems his favorite places to eat are those which serve food similar to his old highschool cafeteria and the Golden Arches. Not to embarrass himself, he will normally only take small helpings of a few items and not go back for seconds. He might take thirds and fourths, but never seconds.

His wife is also licensed and can be heard on the repeaters more than he. She works at a large store and has to take all kinds of guff from irate customers all day long. Fortunately, she has a calm husband to come home to who seldom complains about anything.

He reminds me of one of Oklahoma's favorite native sons, that being Will Rogers. He never met a ham he didn't like. He speaks very highly of everyone and never utters a harsh word about anyone.

He loves practical jokes and jokers. He has a lot of close friends, but he has said many times that probably his closest friend and the one he most admires is K5NK.

Yes, this is a very unique person. If you haven't met him or talked to him on the air, you should. Come to the next club meeting and ask someone to point him out and there will surely be someone there who knows him.

CONTINUED ON NEXT PAGE

#### NEW ANTENNA MANUFACTURER

It has been several years since we had antennas manufactured in Norman and Duncan. Fortunately for us, we now have a new firm who has started manufacturing a high quality antenna here in Oklahoma that should create many new jobs and add a good source of personal income to the state.

Cashion Manufacturing Company, Inc., recently started operations on a 24 hour basis, employing two persons on each 8 hour shift. The product is a 10 meter dipole which supposedly will out perform any antenna on the market today.

The company was formed by none other than Mr. J. D. Lowry, noted author and expert on antennas, especially the 10 meter variety. He is presently serving as President and C.E.O. and his wife fills the capacity of Vice-President. So far they have no need for a treasurer.

The antennas come in two models, one being the APR-1-89-A version which is normally used as an inverted vee. It is constructed of number 24 wire. copperweld, and blue in color. makes it harder for the birds to see as well as the neighbors. Each leg of the antenna will be approximately 1/4 wave length long as soon as they figure out how long 1/4 wave length is for 10 meters. It is fed with RG-58 coax, which must be used. New coax doesn't have enough resistance to stop some of the s.w.r.'s flowing through the feedline. The antenna is supplied with 33 feet of coax and has no PL-259 attached, simply a ragged end. To connect the antenna to the station, one must use other coax which has been stored for some time and make a splice long enough to reach the transmitter. This is probably the most tedious procedure required to install the antenna. One must carefully twist the two center conductors together and make a nice solder joint with a blow torch. This connection is then wrapped with masking tape and the shield of the two pieces of coax is then spliced by unraveling them at the ends, rolling them up in a neat strand and soldering them together. After all the soldering is done, the splice must be wrapped with duct tape to keep out water and dust. Normally, the center of the antenna is connected to the highest point possible, with the ends sagging down to a point about belly high and tled on to something driven in the ground or existing structures, such as a tree or fence. The antenna is rotatable to be more directive. All one has to do is have ample objects to connect the ends to.

The second version, the APR-1-89-AF, is used as a straight dipole. Once again, the center is connected to a point as high as possible with the ends connected at the same height. It is identical to the

APR-1-89-A model except for the model number. Connection to the station is the same for both models.

Both models exhibit outstanding features. The s.w.r.'s are great. A lab test revealed an s.w.r. of 2.5 to 1 at the resonant frequency and falling off to about 1.2 to 1 at 250 khz above and below resonance. Impedence is a constant 48.9 ohms.

Both models can be used in a mobile installation. Mr. George Adkins, AD1S, is presently field testing both models on his mobile home. As long as George doesn't drive under any overpasses, he uses the APR-1-89-A model, otherwise, he must use the APR-1-89-AF version.

The demand for the antenna has been exceptional. So far production has been running far ahead of requests. On the average, they are shipping out one antenna a week.

In anticipation of the great demand for the antennas, Mr. Lowry has hired Mr. Ron Recer as his marketing specialist. Mr. Recer has been courting Johnny Cooper Electronic stores and Radio Shack as the primary outlets for the antennas.

A more detailed report can be found in the April 1, 1989 issue of QST under Product Review for these fine antennas. CLUB MEMBERS IN THE NEWS

It has been rumored that Craig, KB5BOB has filed for the Mayor's office in Mustang. It seems there is an over abundance of hams in the city and he wants to get rid of a few to make life easier for him. He is trying to talk K5SXJ in running for Chief of Police.

Results of the antenna examination given at the February meeting are now posted and a high majority of the members made passing grades. It seems that WA5BQX was caught stealing the test papers and as a result has been placed on 3 year's probation. The only flunk was by W5MEL, who wrote the test.

Mike, N5DDB, has applied for a grant to purchase 160 acres between Memorial Road and N.W. 122nd street to build a bird sanctuary. It seems there is an abundance of great horned owls and hawks in the area and he wants to provide a safe home for the critters.

Gary, KA5BQS, can't decide whether he wants to get a flat top or a permanent. He intends to bring it up for a vote at the April meeting.

Since the oil boom has busted and he has gotten so thin, Larry, KF5JN, is to become one of the jockies at Remington Park this summer. Watch for him in the Pick 6. Since Jim, W5JDH, has become so proficient in DOSE, he is thinking about opening a DOSE store. You can get a dose of anything you want.

Leonard, W5MEL, plans to have the first printing of his autobiography in the book stores by the first of April. Proceeds from the sale of the book will be used to pay for plumbing and furnace repairs.

Vic, WOSS, has enrolled at the University of Francis Tuttle in a language course to learn how to speak Okie. The words he is having the most trouble with are "Mobile" and "Roger".

WASBQX is planning to expand his business and Install tinkle stops along the Broadway Extension.

Jim, KASPSF, is opening a Private Eye Agency around April 1. He has personnel in training at this time.

#### MORE CLUB NEWS

King B. R. has asked me to inform the club that the March meeting has been cancelled due to lack of interest. It has been rescheduled for the 3rd Tuesday of April.

I am informed that the Fox Hunts which are held every other Saturday morning have been scrubbed. It seems the Society for the Prevention of Cruelty to Animals has filed a protest and asked that the little fellows be left alone. The hunts are to be replaced with a Jane movie in hopes Tarzan will show up.

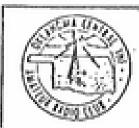
Effective April 1, the discussion of Packet and Computers will no longer be allowed on the .82 machine. If you desire to talk about such subjects, it will be necessary to use the .21 repeater. W5MEL has been appointed O.O. of the .82 machine and will be sending out pink slips to anyone caught discussing such obscene material. The first one will only be a warning, but the second one is 30 days.

#### LAST CLUB MEETING

Approximately 40 members and guests were treated to another fine meeting at the last session. It was perhaps one of the most educational ones we have had. President Bob Robert put on an excellent demonstration as to the proper procedure for completely zapping a modern day transceiver.

King B.R. first demonstrated one of the new 10 meter antennas being produced by the Cashion Mfg. Co. A noise bridge was connected to the antenna to show how to properly use the bridge and determine the resonant frequency of the antenna. After this was demonstrated, he applied a little rf to the beast but all that happened was the chair fell off in the floor.

K5NK



#### VHF Club NEWS

W51,OW The Elmer Goekler Memorial Station

#### Minutes of March Meeting

Meeting was called to order by President Jack, WB5ZKZ, at 12:05 p.m. at the Homestead Country Kitchen, with 22 members and guests present. Minutes were approved as published in the C&E. Ellard, W5KE, gave the Treasurer's report.

At Fred, W5NL's instigation, motion passed that member's birthdays be recognized (but not their ages) at club meetings.

New member George, W5DKC, from Cashion, related events from when his mother was a member of the VHF Club. Marge, K5LRE, was a member back in 1954, and used to enjoy antenna assistance from the likes of Steve, W5VCJ; Stan, WB5BYJ (now AA5HQ); Fergie, K5SXJ; and the likes. Marge passed away in 1972 but many of us remember her.

We also welcomed new members Jim, W5JDH, and his wife, Eunice; and, Paul, N5PT, who was a little late but made it never-the-less.

Sid, K5MKW, brought his camera and tripod, and set up an impromptu portrait studio to get pictures of all the gang. With that done, meeting adjourned at 12:16 p.m. Joe, K5JB, Sec'y

#### Packet Racket at K5JB

I really rattled on last month about that Lan-Link program, but remember that I said I had never run it, and that the article was like the book reports I prepared in school (based on superficial knowledge of half-vast generalities, heh!).

I saw WD4LPU sending a UI frame that said something like, "QTC K5JB" so I responded by sending him a connect. It passed a message from Doug, N5DUB, and heck, I didn't know what to do next. I fumbled around a bit and disconnected; guess I should have read my article! (:QSP: WD4LPU.)

Dave, KD5FX, in Ponca City left the following note:

"Just finished your C&E article, it was VERY interesting this month. I'm sending you a SASE disk for the LAN-LINK program. I'm a constant user of YAPP right now and happy with it, but the LAN- LINK looks like it might have some features that I could use. You can modify the YAPP.CNF file so it doesn't mess with the TNC every time you run it. I don't like programs to mess with my TNC either!!! I've tried to use TERM and a couple of others without success, you couldn't tell 'em which com port to use and I use COM2: so they wouldn't work."

"Ur arrangement of the day sez that K5JB is also on 146.05?? 146??? is that a typo?? (etc.)"

Yeah, that was an error on the frequencies. I temporarily have one of the MS/DOS BBS ports on 145.05 but it is on an indoor antenna (because that is all I have left to hook to).

Most of my packet radio software isn't current but anyone who wants something I have (if it isn't a commercial program) needs only send me a formatted MS-DOS diskie and return postage for a mailer. Call me, or leave a message on K5JB BBS if there is something specific you are looking for.

#### New TCP/IP Software

Dave, WB5FWE, acquired a new version of the main TCP/IP program (called net.exe) for us to play with and I sent a copy off to Paul, N5PT, to give a try. It seems to have fixed the problems we had with the previous "upgrade" which had some fatal flaws in it. The current version, 881225, W9NK version 4.2x, has enhanced Net/ROM support. An AX.25 user can now connect to the system mailbox via Net/ROM. Previous attempts to connect to a TCP/IP station using Net/ROM resulted in a "busy" signal.

There are some new abilities to tweak Net/ROM parameters, but they would be interesting only to someone who is using the thing as a Net/ROM network device. Since we are only using them as portals we only have to tell them that we aren't interested in any net routing broadcasts except from our "best neighbor", as Doug, N5DUB, calls 'em. I let the thing build the routing tables from the broadcast information it receives so I can peek at them for curiosity. Since my station isn't capable of adding any value to the network, I don't permit it to transmit any node information except its own name.

Phil Karns, KA9Q, author of the various TCP/IP programs is restructuring the way his main net program works and we are still awaiting word on when it might be available. Phil reported at the TAPR annual meeting that he was converting to Turbo C which suits me fine. I am glad he finally saw the light; he was probably convinced the first time he could compile the whole package in a fraction of the time it previously took.

If you are interested in trying TCP/IP, let me know and I will try and fix you up with the software and an IP address. Since Bob, KA5MIZ, is in Wisconsin for a couple of years, I will be handling the IP address coordination. Joe, K5JB

#### New Hardware for TNC-1

There will soon be new life for the original TAPR TNC-1 (Heath HD-4040). The following was lifted from a March 13 Compuserve HamNet message from Andy, NOCCZ, to Lynn, WB6UUT.

(This is) From the February 1989 Packet Status Register, an Overview of the TNC1 mod by Lyle Johnson, WA7GXD. The rest of the article covers the mod in more detail.

#### OVERVIEW

The TNC 1 Upgrade adds an enhanced TNC2 to the TNC 1 chassis. When the upgrade is completed, the TNC will have all the capability of the TNC 1 coupled with all the capability of the TNC 2.

Looking at it from the TNC 2 perspective, the upgraded TNC 1 provides all TNC2 features plus the following new ones:

- (a) Software selectable serial port (ABAUD) and radio port (HBAUD).
- (b) Two sets of default parameters in battery-backed RAM (optional).
- (c) Two sets of EPROM-based software (optional).
- (d) Complete TNC2 firmware capability (NET/ROM, for example). This also "ensures" availability of firmware for the upcoming AX.25V2.1, etc.
- (e) Two modem disconnect headers (one for the TNC 1, one for the TNC 2.
- (f) Front panel RESET switch.
- (g) A TNC 1!.

We're hoping to have kits available for Dayton, price not yet determined. 73, Andy

#### Packet Network Topology

Some of the folks, who have built and are maintaining the packet long-haul network, have been discussing various schemes to try and improve performance. One involves higher speed modems. Another involves using multiple frequencies to try and prevent collisions caused by "hidden transmitters". In the three articles that follow, I extracted parts of some work by others that might offer food for thought.

Let me define some terms so it will be a little easier to follow these folks. CSMA is carrier sense, multiple access. That is what we are supposed to be doing on packet. Problem is that to sense the carrier, we all have to hear it, and we don't; therefore, CSMA doesn't work too well on the radio. Paul, N5PT, believes he has the answer in a method called BTMA (busy tone, multi-access). The next two authors believe that frequency separation is the answer. Hank, N8XX prepared a paper for the 1988 Ohio Packet council that described a hexagonal network that used six different frequencies. Each node would have one transmit frequency and four receive frequencies. If the six frequencies are given letters A through F, each station would fall into one of two groups. One group would transmit on A, C, or E and the other group would transmit on B, D, or F. Each node would receive on all three frequencies of the other group.

Notice in Figure I that each node has three links. The three stations that each node links to have frequencies from the opposite group. These frequencies are link frequencies, not user access frequency would be an additional radio/packet modem.

Glenn, N6GN, in reply to Hank's draft, sent come comments relating to the possible hardware approach to this type of network. These two articles were condensed from the TCP/IP Newsgroup mail on USENET.

It is fun to take out pencil and paper, draw a map of Oklahoma with the existing nodes (digis, Kanodes, and Net/ROMs) and play what-if. It would be a very ambitious project to put such a network in place but you have to start somewhere; so, get out that pencil and paper.

(Incidentally, the full text of these articles is on my BBS, in the technical files directory. Joe, K5JB

#### BTMA v.s. CSMA

I am interested in trying to improve the state of the art as it exists today on amateur packet radio. Specifically, I would like to come up with a better collision avoidance method that will help solve the hidden terminal and exposed terminal problems.

I am thinking about using BTMA (Busy Tone Mult. Access) where a receiver of packets transmits a tone over an area comparable to his reception pattern. This would have to be done on a frequency far removed from the packet channel to avoid desensing the receiver, probably on 220 MHz or 50 MHz. Has anyone had any experience with trying this out or know anyone who has?

Another solution would be to use a duplex repeater, forcing all stations within range of that repeater to listen to its output (As in regular CSMA) before transmitting. This gives all stations equal reception coverage areas. This still does not solve all problems, however. Stronger stations capture the repeater's receiver, and since all traffic has to pass through the repeater, throughput may be high but capacity is limited.

If you would like to work on BTMA with me, I need 2 or 3 stations to work with me that are setup for multiband VHF operation. As a minimum the following equipment would be needed:

VHF packet station capable of operating on several 2 meter freqs. A decent 2 meter omni-directional antenna

2 meter directional antenna (optional for experimentation) Separate VHF station, 220 MHz or 50 MHz FM with omni-dir. antenna, same site as 2 meter antenna.

The equipment would not need to be modified internally except (possibly) for the TNC CD lead. I have not completely thought everything out yet, and am open to suggestions as to how this setup could be done. Let's experiment, fellow hams! Leave your reply on WA5BQX-2 mailbox (.05) or Leave a message on N5PT TCP/IP mailbox (.01). Paul, N5PT

footnote: The full duplex packet repeater is used in Tucson and BTMA has been tested on the west coast. Check out past issues of PSR and Gateways for details.

Joe, K5JB

#### A Hexagonal Network

(From a proposal presented by N8XX at the 1988 Ohio Packet Council annual

meeting. This came from USENET, TCP/IP Newsgroup)

ABSTRACT: This paper presents an alternative to the linear networks which we currently are using and building in Ohio and surrounding states. It overcomes the well documented "ALOHA" syndrome, where actual throughput of a linear, random access network, where nodes hidden (by either topography or distance) cannot hear each other and cause collisions. It builds upon concepts previously discussed at the ARRL Computer Networking Conferences. The effective throughput of the system would be close to the baud rate of the links involved.

Lemke, WB9MJN, has proposed a cel-Iular network. (See "Cellular Area Coverage Transport Networks" by Donald V. Lemke, WB9MJN, in the proceedings of the ARRL 7th Computer Networking Conference). He proposes full duplex nodes on the 1250 MHz. band, adjacent nodes have inverted transmit and receive frequencies. It is assumed that the three directions would be handled by three pairs of frequencies for the three directions. Getting three transmitters to coexist with three receivers at a site might be a bit difficult, though it probably could be done.

The fellows at AMSAT have a somewhat different idea - they use three or more receivers and a single transmitter at a site, hooked through a computer which receives AX.25 frames on four channels, and generates AX.25 frames on two output frequencies.

What does a spacecraft have to do with terrestrial networking? Well, if we use such a functional module as a building block, let's see what kind of a network might be developed. We could have a node with three receiving channels (bands?) It would transmit on a fourth frequency. We could use a fifth port (used typically on a satellite for twoway telemetry and control functions) for connection to a LAN. Let's look at what a node in Fairfield might look like. It might receive from Brookville, Indiana, on one frequency, from Dayton, Ohio on a second frequency, and from Walton, Kentucky on a third. It would transmit on a fourth. If duplexers, could handle three receive frequencies and one transmit frequency (or if the frequencies were on separate bands?) the channel could be full duplex. However, the concept could work on a simplex mode, albeit at a slower rate and possibility for collisions and retries. We'd need a total of six frequencies to make the network, but spectrum should be available.

From a series of such sites we can build a hexagonal network with a path of redundancy around any node - so that the network would not fail if an individual node failed. (See Figure I for a part of such a network which could be put in place in Southern Ohio, Northern Kentucky, and Southeast Indiana.) Each node would be equipped with three receivers, one transmitter, and a computer designed to look like a multi-port TNC. We could use the receive and transmit modules from the Microsat modified for 51, 220 or 440 MHz (if we wanted to go simplex), or figure out if a 900 or 1250 MHz. duplexer could be made to work with three receivers and one xmtr on the same band. N6GN reports that VERY inexpensive modules are available for a 900 MHz. personal (CB-type) band in Japan - maybe these will be imported for use in the U.S. 902 MHz ham band? Or, maybe we could adapt the ever cheaper 900 MHz. cellular telephone strips for such use? We'd use another port for connection to a LAN frequency. using standard rigs (for now).

What sort of computer might work? Would a PS-186 handle the job? Would the TAPR NNC work? How about TEXNET? Would the microcomputer being used for the Microsat project be an economical and otherwise practical choice? The Microsat is supposed to be able to handle at least 5 input ports and two output ports at 4800 BPS or higher, and the cost is supposed to be low. The advantage of the MICROSAT hardware is that it MUST be available by May 1989, because THE BIRD WILL FLY!! at that time.

Vic, K1LT, et. al. (at the OPAC meeting) figured out that 6 frequencies would be needed, and the closest node transmitting on the same frequency would be twice as far as the desired node. This corroborates the assertion of Lemke in his paper.

If simplex nodes could used, but the overall thruput of the system would be cut by at least 50%. Special attention would need be paid to turnaround time of tx to rx to be effective. Software would have to be designed to NOT transmit if a packet were being received by a node, nor to attempt to transmit data to a node when it was transmitting. All in all, it would be MUCH better to work full duplex. Possibly we could use pairs near 51/54 MHz, near 221/224 MHz, and one du-

plex pair in the 440 MHz range. Other possibilities would be 6 frequencies strategically located in the 902 MHz band, or 1.3 GHz band, or ????? Getting started with equipment currently in use on 50/220/450 might allow us to develop software and prove the concept before we plunge into the unknown world of 900 or 1290 MHz.

The job of the node controller would be to receive packets from the receive ports, and queue them for transmission (if simplex) or send them along to destination if duplex. It would need to allow for TX turn-on time, inasmuch as when the node were idle there would be no need for the transmitter to be running, and would have to be able to handle routing and alternative routings to handle congestion and/or failure of a node. A PS-186 or similar should do the job.

The nodes could be connected to LANs, or merely act as trunking switches. If desired, a BBS forwarding port could be added to eliminate BBS forwarding on the LAN frequency.

The general idea was well received at the OPAC meeting, and we agreed to continue a dialogue on how best to improve and implement such a network. Hank, N8XX

#### Hardware for the Network

(The following was sent by Glenn Elmore, N6GN, in response to Hank's article, above.)

Here are some initial thoughts about the N8XX hexagonal network proposal. (The frequencies fall into the two following types:)

TYPE A: Transmit on a, c or e: receive b,d,f

TYPE B: Transmit on b, d or f; receive a,c,e

I don't know how this proposal strikes you all relative to optimum network design, but I think it might be pretty easy to accomplish the physical layer.

Suppose we build a 1200 MHz linear transverter with a single LO which can be phaselocked to run at either 1220 MHz or 1326 MHz depending on station type. Split the LO for separate use in the TX and RX sections. The transmitter power chain can be the Mitsubishi driver and 20W brick. This arrangement should be economical with about the same cost as my earlier 'whither layer 1?' posting. A \$5 FET front end

should easily allow the system to be limited by antenna noise temperature on receive.

For sake of discussion let the frequencies be: (these do meet the approval of my now-out-of-date ARRL directory)

- a 1248.1 MHz
- c 1248.5 MHz
- e 1248.9 MHz
- b 1298,1 MHz
- d 1298.5 MHz
- f 1298.9 MHz

Each station is also equipped with a single WA4DSY modern transmit section and three receive sections. The transmitter is modified to run at 78.1, 78.5 or 78.9 MHz. The receivers are crystalled to run at 28.1, 28.5 and 28.9 MHz. Now, by selecting 1220 or 1326 MHz LO, and the desired 78 MHz TX freq a station can be:

TYPE A: (bdf)-receive with (a,c or e)transmit - 1326 MHz LO; or, TYPE B: (ace)-receive with (b,d or f)-transmit -1220 MHz LO

This allows 50 MHz of transmit/receive isolation for duplexing on a single omni antenna. However, if two more PIN switches are added to the tranmitter board (\$12 per switch), three separate 'directional' antennas can be used on transmit. In addition to selecting the particular transmit antenna, by simply adding two more oscillators onto the DSY modulator (or synthesizer divide-by #), the station could select one of the three transmit frequencies to minimize QRM to other nodes based on terrain and propagation characteristics of the site. This is acceptable since the other node already has all three receive frequencies covered using an omni receive antenna. Transmit turn around time should be limited by the DSY modem.

This arrangement allows more flexibility at only a little added cost; the extra transmit antenna(s) and PIN switches. It also offers S/N reduced by only (directional ant gain - omni antenna gain) from the full blown point-to-point link I showed in 'whither layer 1?'. Running separate TX/RX antennas might very well remove the need for a duplexer, per se. Identical (except for frequency) simple-to-fabricate interdigital filtermixer assemblies could be used for the transmit and receive sections. Running with tx-if > rx-if and with low if power levels helps keep the transmitter out of the receiver too. The Mitsubishi power chain needs only

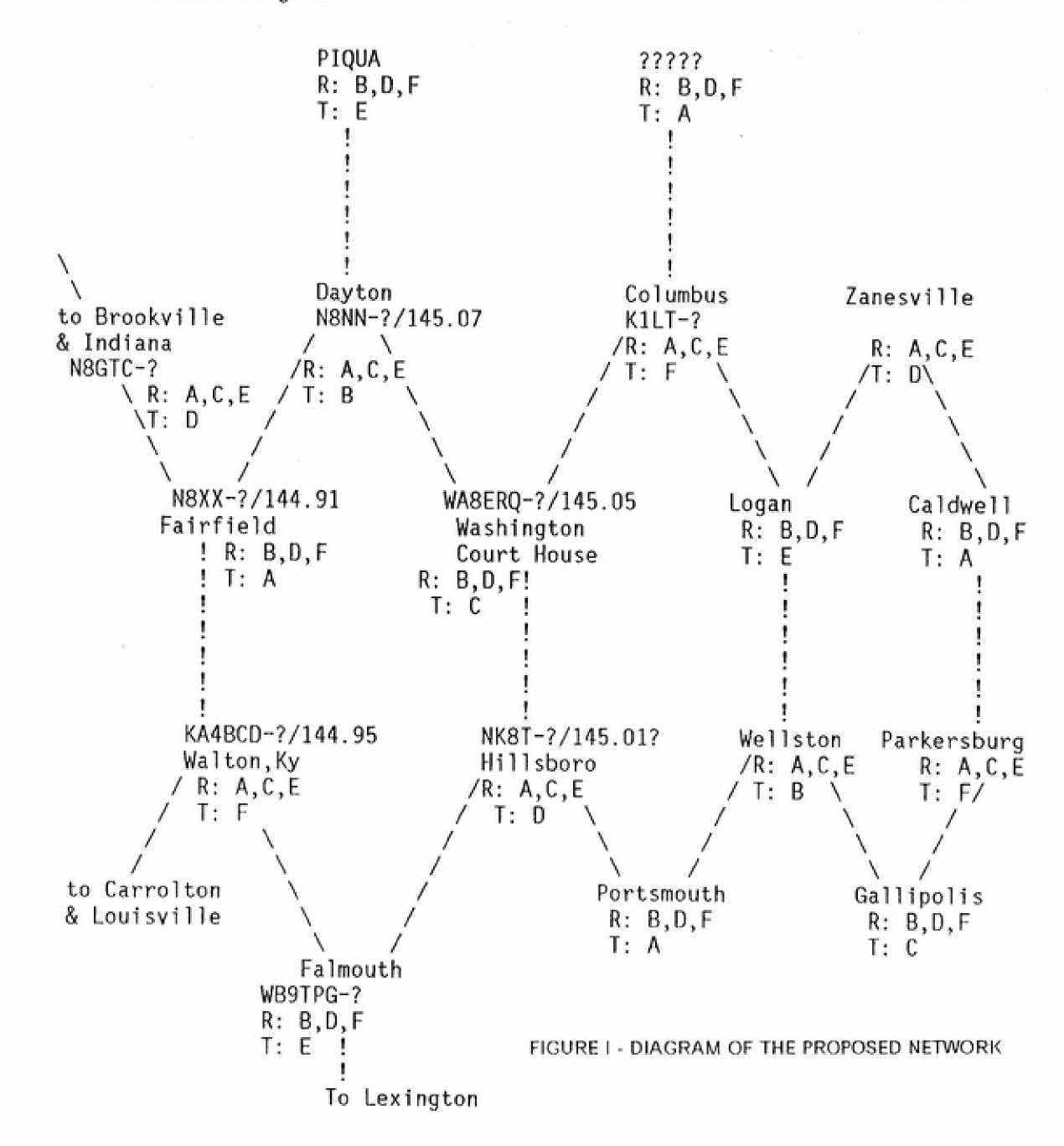
about 0 dBm and can operate over the full 1240-1300 MHz range.

The symmetry of the station should help reduce manufacturing cost and complexity. As my earlier posting described, this 1200 MHz arrangement seems the most attractive for moderate speed point- to-point networking.

I have already built, and have operating, a transverter similar to the one described above.

OK, now you network architecture guys can tell me why the N8XX proposal is no good from your viewpoint and this hardware diatribe is wasted.

Glenn, N6GN



Here's a diagram of the network in part of southern Ohio, northern Kentucky, and southeast Indiana. Exact sites are not critical, as long as nodes can hear each other, and are approximately on the circumferernce of a circle. A few calls are listed, as the holders are currently active in packet and helping with networking in various ways. I did not intentionally ignore others who may be helping with the networking efforts.

## BICENTENNIAL AMATEUR RADIO CLUB

"To Promoto Radio Communications"

The meeting was called to order at 8:00 P.M. Tuesday, March 14, 1989 at Oklahoma City Community College 7777 South May,

Oklahoma City by Pres. Dennis Musser. There were 14 members and guests present.

The minutes from last month were read. A typing error Was found in Treasurer's report for the club's bank balance. It was corrected and the minutes were then approved.

Old business began with a discussion of an Article in the By-laws that had been tabled the previous month. once again tabled so that Pres. Musser can make inquiry into the Article that is to be voted upon.

Repeater Report was given Dick DУ Baker. In the examination the repeater of sight at. South Community Hospital he found the repeater cabinet had been tampered with. heliax connector had 7/8" been missing, but the pin remained on the coax. The cost replacement was estimated some \$90-\$120. The connector was to be purchased by the next meeting if an outer shell was found not anybody's scrap box.

Dick also said that the antenna on the repeater was in need of replacement. antenna that was suggested to be replaced was the DB2-24 with estimated cost of some \$350.00 to \$500.00. The general consent was to first take care of the heliax connector, then next month determine purchase of the antenna if within the budget capability. repeater, according to Dick, was in reliable shape and could be moved from his repair shop to the hospital anytime.

anonymous donor providing 76er's repeater. It really was part of the "Antenna Program" appreciated!!! From all of us. and will be conducted by Bill Thanks!!!<<<<

For new business, Pres. Musser reported that a need has welcome developed several Robert for wavelength antennas: 40-75-80- Michal, 160 dipole with traps. One Soward, idea brought up was to purchase Edward Kane.

KAY KOUNTY

AMATEUR RADIO KLUB

that were discussed are-

Repeater work, this will (hopefully) be done on Friday March 24th, the autopatch codes will be changed at this time because the new controller will be installed. All those who are PAID-UP will be notified of the new codes. It will also be given a good 'tuneup' and should be back in first class condition.

Callbooks, the club voted to buy both posed too!) a US and DX callbook that will be available for all club members to use. NOVICE/TECHNICIAN CLASS- A new class I'll announce next month who will have ask for an address.

for an update on the other items.

on Thursday April the 20th at 7 p.m. far, we need MORE!)

the antennas. As a result of further discussion, a motion was made and seconded to build the antennas as a club project The club will build the antennas after the end of the next business meeting. Bill Skipper will help coordinate this project with his lecture of antenna construction.

The OKCCC has a bulletin board that is available to all. The system has ham radio programs and other needed information for ham operators. The phone number is 682-7559 up to 2400 BR. It operates 24hours a day. The SYSOP is Denny Myers.

The club meeting was adjourned at 8:45 P.M.

The presentation of the >>>> A very big thanks goes to "Antenna Program" followed the for adjournment of the meeting. a final for the Next month will be the second Skipper.

> the club wish to our six new members: Landreth Jr., Larry Eddie Sanders, William John Thomason, and

Our program will be by N5PC about a new antenna tuner that he has perfected. It's also time to start thinking about elections, they are coming up in May.

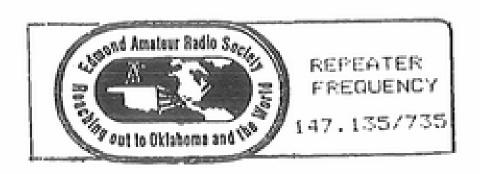
PUBLIC SERVICE EVENT- The next event MARCH MEETING NOTES- This meeting was is April 1st at Lake Ponca. It will be held back at the Vo-Tech where we had a biathlon. A 5K run, a 30K bike ride, a very good turnout. The main items and another 5K run. Listen on the Monday night nets for more details. Another event that will take place on the same day is the Special Olympics. This is an all day event at the football stadium. We will need a lot of help to handle both of these events. Contact N5LPZ, W5ZWM, or KD5FX 1f you can help. Remember, public service is one of the justifications for amateur radio using the valuable spectrum that we have, have you helped out this year? (Did that make ya feel quilty? It was sup-

began on Feb. 7th at the Vo-Tech them so you can give them a call and building. We have a very good turnout so far, about 12 people enrolled. Mike N5LPZ and Dave WN5LUI are doing most Our program was presented by Fred of the teaching, with some help from Kemper of Me-Too Media who runs the Mike N5JJR and yours truly. WE NEED weather observing station at the Ponca SOME MORE HELP!!! If you can come help Airport for the FAA. He put on a very just a couple of nights please contact interesting program for us. See below Mike N5LPZ. This would be a great chance to brush up on your theory and rules. (Did that sound like a re-run NEXT MEETING- Our next meeting will be from last month? Well, it was, N5GIW held again at the Vo-Tech. It will be was the only one who has helped us so

> EMERGENCY TRAILER NOTES- The club bought a nice 10 amp automatic charger for the batteries. We also have permission to keep it next to the building so the batteries will stay charged. We had a short work day on it last Saturday, thanks to N5JJR and his son for helping out. We got it all cleaned out and some of the wiring done on the three public service radios inside. Just a little more work and it will be done. I put the charger on the third battery, it's been pretty sick for quite awhile. maybe it will perk up with some attention.

> 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 fer now, Dave KD5FX.

> > CLONES are people two



#### Greetings from EARS!!

weather spotting class for 89. N5HIP's picture on the wall. Some 75-80 people attended. Several EARS members were Ed Granger, KB5DZU, and Joel Hamlin or Howard Wise. present along with other clubs Beasely, KB5FCF, have is also talk of having a being represented. was quite well organized, as is persons for orientation on the Plaza for EARS members to rest usual, when the National club HF station. Weather Service holds one. The wanting to use the rig(s) and others to stay at the Lincoln next weather spotting class will be Saturday March 25th. This will be an all day class from beginner to advanced. Please try to attend if you It will be held at the Norman Municipal Library. I believe the hours are 9 a.m. to approximately 4 p.m.

Congratulations to Scott Haas, KB5EBT, and Jason McGee, KB5EYE, for completing their RED CROSS first aid and CPR We hope we will not training. need their services, but do we ever know?

The St. Patrick's Day Parade was held on Saturday March Those of the EARS club participating in the line up of the parade as well as the parade route were as follows:

NSHIP	Phil Wolfenbarger
KA5ZPN	Jos Harp
WR5G	Jerry Boyd
K5SKA	Bill DeMand
N5LZF	Marlin McGee
KB5EYE	Jason McGee
KA5YSF	Donna Guinn
KA5WAV	Tommie Guinn
KB5BGM	Glo Guinn
KB5HWH	Steve Guinn
KB5HWI	Stephanie Guinn
KB5HXT	Mike Delaney with XYL
	Debbie and son Mike
KB5INN	Jim Richardson
KB5INM	Linda Richardson and
	their son, Paul
KB5EIC	Jamie Cook
N5NUK	Bill Wilburn
N5KUE	Bob Long
KB5LID	Brad Efaw

The Explorer post also had several hams helping, but due The April Dinner Meeting will club meeting Sunday afternoon. to the deadline, I wasn't able to get their calls. EARS was presented a very nice plaque from the Oklahoma City all Ireland Club for our help this year.

#### CLUB MEETING NOTES:

the Edmond Police Station training room and had many EARS will again be handling the several visitors attend. February 28th was the first information, couldn't find to the Lincoln Plaza.

> The class volunteered to be the contact hospitality room at the Lincoln have not been orientated, Plaza as this will help keep should contact them. Joe Harp, the cost down for Ham Holiday. KA5ZPN, has volunteered to Good news: teach Packet to anyone 145.37, will be getting a interested. MEMBERS, the club station is repeaters in our area. there for you to enjoy!! TRY IT, YOU'LL LIKE IT.

> > the Field Day Event plans this will improve conditions on both year and will try to get the repeaters. need volunteers to help range of the repeater. coordinate the event. Anyone have noticed any improvement, call. this year we're going for the from Tulsa to Lawton. fun (which isn't easy) than we be on UHF. had last year.

the last week in June - 29-30.

#### PARADE REMINDER:

held on April 21st in downtown information. OKC and several volunteers will be needed.

#### HAMPOUT::::::

Our Annual (whenever we want to) Hampout trip will be to the We would all like to wish Lee Wichita Mountains State Park on Vaughn (KASWIS) the best on a April 15th. All you need is a speedy recovery from surgery. information.

be at St. John's the Baptist Catholic Church on April 14th. The menu will be a spaghetti scholarship committee will be meeting.

catering it again so bring your appetite.

members present as well as registration desk for Ham By Holiday so many people will be the way, we looked the posters needed to handle the 3 day over very carefully, and event. There is still a need despite very reliable for someone to handle talk-in anyone is interested, contact one of our CORA reps, Steve Any member and relax. Try to encourage The repeater, REMEMBER CLUB remote base which will link UHF 444.5 repeater is getting a new controller which will help those on UHF. I'm sure the Larry Traub will be heading up benefits of these additions Our main site same pavilion we had last year receiver was taken off the at Arcadia Lake. He will also duplexers to help improve the interested, please give him a the repeater committee would Yes, I know that's not like to know. We are also for a couple of months, but looking forward to the EDN link Well...we'll make sure link is scheduled sometime were going to have a lot more later this year. The link will

There is talk of an Advanced By the way, Field Day will be Licence study group if enough people are interested. It would probably be held at the Church on Sunday's during the afternoon. Anyone interested The CENTENNIAL PARADE will be contact Phil N5HIP for

> CONGRATULATIONS to our newest upgrades - Jim Richardson, KB5INN, and Linda Richardson, KB5INM.

place to sleep and something to Lee is not only trustee of the eat; the fun will come from 147.135 xepeater, but a somewhere. Contact Harold or dedicated member of EARS. He Phil on the air for more probably talked his doctor into letting him out on Sunday morning in order to attend the Our thoughts are with HA! you.

Well, we beater close for now. dinner with trimmings and the Look forward to seeing everyone cost will be around \$5.00. The at the April club dinner

#### The Second Oklahoma Land Rush

April 22 is the 100th year anniversary of the "Great Oklahoma Land Run" to the Unassigned Lands of Oklahoma Territory. As a centennial celebration of that event, a family event has been proposed.

Instead of coming by "horse and wagon", to use more modern propose conveyances; the automobile, motorcycle, or whatever suits your fancy.

The boundaries for the unassigned lands were the Cimarron River on the north, the South Canadian River on the south, the Indian Meridian on the east (seven miles east of Douglas Blvd.), and a north-south line through Fort Reno on the west. These areas are all within the range of one or more repeaters.

At 12 noon, on Saturday, April 22, we will depart from our preselected "border crossing" areas and proceed (at legal speed limits) to the Oklahoma State Capitol parking lot. 146.07/67 repeater will be used during the final few miles to help guide those who need help locating the "finish".

We plan to take a group photograph at the finish for publication in Collector & Emitter. After photographs are taken, the "hungry ones" will "convoy" to the Village Pancake House at N.W. 27th St. and Classen Boulevard for a bite to eat.

If you need additional information, or show to conclude the festivities at would like to express your desire to 9:30 PM. participate in the Oklahoma Land Run of 1989, please inform WB5SJX, Jim, in Stillwater. You can contact Jim on the Oklahoma Night-Owl Net on 146.67 (-600) at 2230 local time in Oklahoma City. Via KD5IS and K2GKK.

Like reactances in series (either all capacitors or all inductors):

X<sub>total</sub> = X1 + X2 + X3 + . . . (with capacitive reactance, total is negative)

Different reactances in series:

 $X_{total} = X_L + X_C (X_C is a negative value)$ 

Like reactances in parallel:

$$X_{total} = \frac{X1 \times X2}{X1 + X2}$$
 or

$$X_{\text{total}} = \frac{1}{\frac{1}{X_1} + \frac{1}{X_2} + \frac{1}{X_3} + \dots}$$

(With capacitance reactance, this total is negative.)

Impedance (resistance and reactance in series):

$$Z = \sqrt{R^2 + X^2}$$



"THE SOONER PARADE"

SUBMITTED BY: STAN VAN NORT, N5JFQ

The Oklahoma Land Run Centennial is being celebrated this coming April, and here in Oklahoma City there are going to be special events the entire Centennial Weekend. In the spirit of the "first" settlers, the centennial celebration will begin "sooner" on Friday, April 21, at 1:00 PM with "The Sooner Parade" in downtown Oklahoma City. The parade will be of 'Cotton Bowl' quality thanks to the cooperation and advice from Jim Skinner, Operations Director of the Cotton Bowl Parade.

On April 22, there will be activities all day long at the spring Arts Festival including a huge birthday cake & ice cream to feed 10,000 people. There will also be a free outdoor concert and a spectacular fireworks & laser

As the Parade Director, I would like to extend to you an invitation to come to downtown OKC and see "The Sooner Parade" on Friday and again on Saturday for the Centennial Day at the Festival.

Amateur radio operators from several clubs have also voluntecred to assit in the staging of the parade. It will be a large task lasting almost all day long, with staging to start in the morning. Any other amateurs, especially those with parade experience, can volunteer by calling me at 231-1889

Ohm's Law for resistance:

$$E = IR$$
  $I = \frac{E}{R}$   $R = \frac{E}{I}$ 

Ohm's Law for conductance:

$$I = EG \quad E = \frac{1}{G} \quad X = \frac{1}{E}$$

Ohm's Law for reactance:

$$E = IX \quad I = \frac{E}{X} \quad X = \frac{E}{I}$$

Ohm's Law for Impedance:

$$E = IZ$$
  $I = \frac{E}{Z}$   $Z = \frac{E}{I}$ 

#### REVIEW OF PARADE HIGHLIGHTS

-The Oklahoma City Council approved a resolution recognizing the Centennial Celebration and authorizing a half day holiday for city employees to begin at 12:00 Noon on April 21, 1989 and encouraged other businesses and schools to "jump the gun" and participate also.

-Admiral William J. Crowe, Chairman of the Joint Chiefs of Staff in Washington and native Oklahoman will be the Grand Marshall of the Parade.

-The parade will be televised live on KOCO, channel 5.

-Giant floating helium balloons, like in the famous Thanksgiving Day parade, will fly for the first time in Oklahoma City at "The Sooner Parade".

-Over 30 floats and 15 bands are highlights in the total list of over 100 parade entries. It was noted this year's Cotton Bowl Parade had 12 major floats and 15 bands in an hour long program.

-Many out of state entries: Domino's Pizza Ponies (Ann Arbor, Mich), Mayflower Moving Co. Float (Indianapolis, Ind.), Owens Country Sausage (Richardson, Texas), Greyhound Bus Lines (Dallas, Texas), and the Coors Belgian Hitch (Zearing, Iowa).

Capacitors in parallel:

Inductors in series:

Two inductors in parallel:

$$L_{total} = \frac{L1 \times L2}{L1 + L2}$$

More than two inductors in parallel:

$$L_{\text{total}} = \frac{1}{\frac{1}{L1} + \frac{1}{L2} + \frac{1}{L3} + \text{etc.}}$$

Transformer voltage ratio:

$$E_5 = \frac{n_5}{n_0} \times E_p$$

Transformer current ratio:

$$I_p = \frac{n_s}{n_o} \times I_s$$

Transformer efficiency:

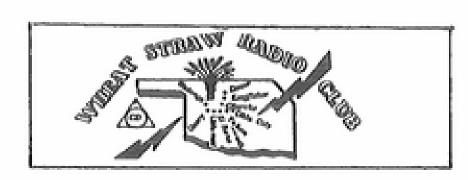
Po = nP, (n = efficiency factor as a decimal)

Inductive reactance:

$$X_L = 2nfL$$

Capacitive reactance:

$$X_C = \frac{1}{2\pi iC}$$



The March 12th meeting was held in the Peoples National Bank community room at Kingfisher. There were 34 present. We had one visitor, WA7AZO Carl from Hennessey. We were certainly glad to meet him, and welcome him to our club. Carl has been checking into the club net for some time.

A committee has been named by president W%MGZ Perry to look into and arrange for the the ofAnniversary 30th Wheatstraw Club. They are K5GBN Johnny, WA5PFK Ralph, and N5IJN Tom. I understand WA5RLP Margaret has a list of the charter members.

The next meeting will be stepped up to April 2nd as we to the Mooreland caravan Eyeball QSO, April 1st and 2nd. The caravan will leave Watonga from McBees's Steak House at 8:30 am on 146.52 simplex. Our president will join us at Seiling, then the meeting will be held on the way to Mooreland.

Some of the members said they were going to the Weather Watch II and Net Operation at the library in meeting Norman, Saturday March 25th.

K5GBN Johnny announced that WA5FVJ had a heart attack and at that time he was in the Baptist Hospital, His name is Ken Rodenberg, Route 1 Box 6, Drummond OK 73735. We are all sorry to hear about it, wishing him the best with a quick recovery.

WO5B Ed, net control for March 1, set another record by one for the Wheatstraw ARC. He had 32 check ins. We enjoyed every one of them.

KB5FYF Jane of Weatherford got her new call this month. She is now N5NZU, congratulations Jane.

KD50G Ralph is home now, thanks to the medical proffesion. Now he can enjoy his dog Peedy, and his radio. We are happy you're home and take care of yourself.

Sunday meeting, WD5GLD had a program on AMSAT, it was over my head. Any way he showed us the software for tracking the Russian space station, how it could tell where it is at at all times and the time of day.

their heads to blow their HUDSON. they since make a complete orbit of our planet THESE SESSIONS ARE CONDUCTED every ninety minutes.

K5GGL had a film showing the SPONSORED BY C.O.R.A. examples of how a telephone operated from the first number TEST until complete. It was by the LICENSE GRADES; Bell System. George

ments and more good fellow- FOLLOWING: Good refreshments, ship. thanks ladies.

THIS MONTHS SUBJECT IS THE PEILS OF CANTON OK

Leo was born June 25 1920 on a farm southwest of Homestead. He attended different country one room schools near Okeene. Leo graduated out of the eigth grade at Hitchcock. Finishing highschool Liberty and at Southard.

Leo and Darla Bedwell were FURNISHED married January 3 1942. this union one child was born, CHARGED a daughter who now lives in TESTS. Kingfisher. interrupted on Normandy Beach, D Day June PASS 6 1944.

After getting out of service Leo went to work for the Corps of Engineers driving heavy earth moving equipment until rctirement. During his emoloyment he was moved to different parks and lakes, building landscaping, kinds of park improvements.

Darla retired and the two of them were enjoying life. They were another "snowbird" couple going down to the Gulf for winter in South Texas. Near mid winter Darla had a severe heart attack, in a hospital, much too serious to be flown home. When Darla got well enough she was moved to their trailer. Leo being a licensed Amateur of course took his eqiopment along. Every evening Leo talked to several Wheatstraw members plus Denver, stations in Kansas, Enid, Prague and several other towns. Darla was close to the radio where she heard us and would tell Leo what to tell us. It helped all to hear them every day. A tragic loss to all who knew her. She passed away March 10, 1982.

Leo's daughter gave him 2 grand daughters, now he has 2 daughters. In great grand Dick said there are six sate- later years Leo and Ann got

lites in orbit of that caiber. V.E. TEST SESSIONS ARE HELD THE The program was good but it 3RD MONDAY OF EACH MONTH AT left me wondering which way 6:00 AT THE OLD OKLAHOMA CITY the men would have to turn RED CROSS BUILDING AT 10TH AND

UNDER THE W5YI PROGRAM AND ARE

SESSIONS ARE FOR ALL FROM NOVICE TO It was great THE EXTRA CLASS. WALKINS ARE WHEN ATTENDING A ACCEPTED. We adjourned for refresh- TEST SESSION, PLEASE BRING THE

- PEN OR PENCIL
- CALCULATOR(IF DESIRED)
- DRIVER'S LICENSE (OR OTHER SUITABLE I.D. FOR MINORS)
- ORIGINAL HAM LICENSE (YOU KEEP)
- XEROX OF HAM LICENSE (WE KEEP)

FCC FORM WILL 6105 BE THE TEST AT. To SESSIONS. A \$4.75 FEE WILL BE EXCEPT FOR NOVICE IF POSSIBLE PLEASE World War II BRING THE CORRECT CHANGE. THIS Leo's life. He FEE COVERS AS MANY ELEMENTS AS served in the E.T.O., landing YOU SUCCESSFULLY CONTINUE TO

> married. Ann is employed as a nurse at the hospital Fairview. Ann has 3 daughters and 9 grand daughters.

> Leo has done re-shingling, sowing wheat, combining, and picking up and delivering new vehicles.

> Leo gives AB5Z Ray Barnes of Longdale credit for getting in Amateur interested Radio. Leo had come up through the ranks of Novice through Amateur Extra, with the call Enjoying Amateur WZ5H. of Radio Leo spends most of his HFthe free time on frequencies.

> Having nineteen lovely women in his life, no son or grand sons, Leo has turned to the kitchen. He is the official chicken and home made noodle maker of the community.

In 1988 Leo had a radio school turning out 12 Novices. Then a class with 11 upgrading to Technician. In 1989 he has of 8 going for class Leo has been General. nominated to ARRL as teacher of the year, good luck Leo.

wife Leo and his are dedicated to their frienda and community. Keep up the good work.

WA5PFK, Ralph

## CIMARRON

CARA territory felt a little left out when net participants from the east half of the state began reporting heavy snow! We are dry out here, and we were not in a receptive mood when last Tuesdays dust storm blacked us out. Ponds are dry generally. The wheat that is our meal ticket is recovering from the hard dry freeze though, and nothing is wrong that a good soaking rain couldnt fix.

Several super solar flares have occurred recently. It will be interesting to see what effect this may have on communications. It has certainly furnished a spectacular view of the aurora borealis for the lucky few early risers who saw it.

More pertinent to us, perhaps, is the effect it may have on our weather.

CARA's March club meeting was held on the usual second Thursday, March 9th., and the evening was spent usefully, under the chairmanship of President Jack Kelly, N5LBN.

Nadine N5FMH, reported that steps running around playing cop. had been taken to insure that some of our newer members were finally placed on the C & E mailing list. Editor Joe Harding has assured us that the missing issues would be sent. Thank you, Joe!

CARA members are looking forward to the SEVERE STORM program by Bill Bunting of the National Wx Svc. It will be held April 11th., at 7:00 PM, in the Fairview City Auditorium. The public is invited...no...URGED to attend. The weather no longer just means the difference between a good crop or a poor one...it can mean life or death to many!

CARA members are urged to participate in the 145.45 weather watch by Jack N5LBN, who is the Civil Defense Officer in Fairview.

The hat was passed, during the meeting, to replenish the refreshment fund.

Steve KF5SW, suggested that we have a few TECH-TALKS in future meetings, and was promptly given first chance. Steve always comes up with something useful and we are looking

David Rumsey N5MZP, came up with a possible solution to our search for a Disastor Communications trailor. He and Leo WZ5H, are to report on what success they have at our next club meeting. We already have acquired a portable tower, and it is hoped that CARA will be prepared in the foreseeable future for what we hope will nev-

#### \*\* ARES REPORT \*\*

The Central Okla, ARES Dist. consists of 8 counties in central Oklahoma. As ARES Dist. Emergency Coordinator, 1 am responsible for the ARES preparedness to respond to the need for communications. Each county has or will have an emergency coordinator whose job will be to organize a group of amateurs who know what their assignments are in case of a disaster. These people are the heart of any response because they can coordinate the amateur community with the various distaster relief groups to provide communications. Radio amateurs have always responded to any call for help in these matters, however any one who has experienced this activity knows advanced training and job assignments come in handy. Part of this planning is getting acquainted with the various disaster groups and government agencies before This gives them a chance to know who you are, what you can do to help, and that you are not just one more sightseer under foot to keep track One thing to stress with these people is that all you will be doing is communicating for them and not

You do not have to be a member of ARES or the ARRL to help, however, the emergency coordinator in your county could do his job easier if he knew about you - so contact him.

er happen....a real...surenuff Disastor:

Terry N5MLT, reported a new desk for his radio shack and the rest of an enjoyable evening was spent in STB!

Those attending the meeting was: Ray AB5Z, N5LBN Jack, David N5MZP, Betty KASRTW, WX5Y Ruth, N5FUN Dede, N5FMH Nadine, WZ5H Leo, WK5V Denny, KF5SW Steve, N5MLT Terry, KA5SZD Vern, and NN5Z Jack.

The CARA VE test session was held on schedule March 11th., by WZ5H WK5V, AB5Z and NN5Z officiating. Those taking tests included Terry McColl, Vern Brewer, Olive Adams, Harold Wells, Tom Worth, Sheryl Baker, Robert Baker, David Cole, David Rumsey, Harley Eliot, and Tom Adams.

David Cole passed his Extra Class theory, and Tom Adams passed his 13 forward to his presentation, April 13th wpm code test. Although there were several near misses, we had only one up-grade....Thomas Worth N5LWT, of Enid, who has a brand new Advanced Class ticket!

> This looks like a good place to write "30"! Remember club meetings... second Thursday of each month...WX5Y Playhouse, 827 S. 13th...Fairview, America! Be there or be square.

> > 73's NN5Z

If you do not know who he is call or write to me and I will give you the information.

Some: counties do not have enough resident amateurs to form a team so the Central District has started to form a response team. It will be complete with an emergency trailer containing a 5KW generator. 24 hours of fuel, fold up tower, feedline, antennas, power cables, and lighting. This is put at our disposal courtesy of the OCAPA Club. Also accompanying this unit is a Salvation Army mobile canteen.

This team will go into any one of these 8 counties \*\* only \*\* after being requested by the local county emergency coordinator and local amateurs. it will be placed at disposal until no their longer needed. This should eliminate duplication of response units in each of these counties. This however does not mean they cannot form their own unit if desired.

A radio station capable HF. VHF. and packet is loacted at NW 50th and Penn. In Okla, City, This is an ARES controlled station to furnish contact between the disaster site and the agencies they wish to The Salvation Army can contact. furnish food and sleeping facilities for the amateurs who man this station in an emergency.

If you wish to be a part of this group contact Frank McCollom. N5FM, 2421 NW 118th St., Okla. City, OK. 73120 or phone me at (405) 751-3577.

For some years now a group of lamateurs with Jim Buswell, N5BEQ, as net control tried to assist the Oklahoma City EOC test the warning sirens in Oklahoma City. The net later was conducted with Sylvia Henderson, N51ZZ, as net control. moved Sylvia has Since Connecticut to be with her husband Randy, W15W, now working at ARRL we have had a new headquarter, James Rouse, N5NEI, is volunteer. the new net control and net manager.

The test have been frustrating for the amateurs who made their way on the first and third Saturdays of the month to siren sites and found they reported sirens that inoperable last time were still not working. I have been on the same siren location for over a year and Others it never has worked once. have had a similar experience.

After a letter my Councilwoman and several eyeball Jim Patty. contacts with Director of Emergency Management for Oklahoma City, I was privileged to read a memorandum written by the person in charge of maintaining the I would like to share his sirens.

CONTINUED ON NEXT PAGE

SASE and I'll take it up with my

manager. Over."

"Zither, Zong - whatever is your name - if you want QSL from greatest hero of Red Army radio club, you send ten IRCs care Box 88, Moscow, maybe you get card in about twenty years, da?"

"Boris, old pal, old buddy, old sock, I sure would like to have your card, uh-haw. Who is the control operator there making sure you don't screw up the knobs? Over!"

"A5A, this UA1AAAAA for ID.
Ziff, Zagger - whatever - how does it
feel, being second-class operator
behind greatest radio sportsman,
myself, Boris Badenov, hero of whole
Soviet Union and everyplace radio
waves have propagated so far, hah?"

"UAIAAAA, this is A5A. Well, Boris, old bean, your signal went up a little that time and I could almost make out what you're saying there. Hey, do you have the address of your big boss over there? I want to let him know we've made this heroic effort to make out what that garbage station of yours is putting out. Maybe he'll want to give me a medal for working so hard to further glassblower, or whatever that stuff is he's been pushing, you know, about us getting along better and all."

"Zaggernaut, this is Badenov returning. Your signal mostly lost in racket from hated American Woodpecker. Hey, Yankee dog, I read in Pravda how your favorite teams are cheat and low-lifers and put on probation long time by your decadent NCAA, da? How you like not seeing your teams on TV, and they can't go to no bowl games long time, hah? I think is very funny, Zapper, your teams all get caught being cheat! Hahaha! Over!"

Zedd covered his boom mike so the VOX would not key. His face had darkened with rage and pain. "This is hitting below the belt. Insults to me and my family and my station - and even to the South Canadian Amateur Radio Society - I can handle. But this is really a low blow. This is dastardly."

Zedd uncovered the mike. "Okay, Boris, I didn't get any of that. You've faded into the QRM. Take care, buddy, and seven-three. This is the world's greatest, Q. R. Zedd, from Honor Roll Ranch in the heart of the wishbone country. UA1AAAAA, this is A5A. So long."

The audio came back so strong that lampshades rattled in the hamshack and KD5IT's eyeglasses cracked, much to his consternation and loss of professorial dignity:

"Zibblehoffer, this Badenov! You don't cut me off, you capitalist oink! I want tell you more about how I laugh when I hear about Sooner and Cowboy penalties! I laugh in your face over this cheat, da? You want know how great hero of Soviet Socialist Republics spread word on your teams being criminals? Hey, I -"

Badenov's voice got no farther. With a cry of outrage, Zedd had cut the audio and swung around to the master console for his antenna farm. With his knee, he simultaneously sent power to his No. 1 linear.

The BIG linear.

The one south of the house.

In its own separate building

with 16 acres of floor space.

The room lights got brown. The earth trembled as monster motors began to turn antenna arrays far overhead. Needles on panels centered. Computers smoked.

"No, Mr. Zedd, no!" cried WU5W, near a swoon of terror and consternation. "Not the BIG linear! Not at full power! Not into the stacked eighties and the four-mile rhombic!"

Alas, it was too late. Tormented beyond human endurance, Zedd not only had full power at his fingertips -- and the uncanny precision of his entire antenna farm at his disposal -- but he was clearly twiddling the knobs that tilted his arrays for the best bounce off the ionosphere.

At the moment he keyed his mike, bluish lightning played blindingly beyond the windows of the ranch house. There was a sound like no one had ever heard -- a high, wailing, screaming sound. Tortured electrons.

"Boo!" Zedd said,

We are told that the fireball that descended on Badenov's antenna farm was terrible in its intensity. Badenov had just had time to jump into an asbestos suit. He survived.

Whether he learned his lesson -that even a man of Zedd's saintlike
patience can be pushed too far -remains to be seen.

The moral of the story is clear. Don't make fun of someone whose team is on probation. Some of them don't see anything funny about it at all, at all.

-- KU5B

ARES ARES ARES
views with the amateur community. I
might add that after reading his
memo to his superior I agree with
his assessment of the situation.

First: There are no warning Sirens at any city lake that is operable.

Second: Vandals destroy some as soon as they are fixed.

Third: One, #83 at Harvest Hills School, has a broken power line that runs under the parking lot and the school is unwilling to allow excavation to repair it.

Fourth: The 2 1/2 Ton basket lift service truck cannot get to some sirens to work on them unless the ground is dry.

Now the greatest majority of the sirens are over 30 years old. They were originally purchased with Civil Defense funds during the bomb scare of the late fifties. primary function was to warn of an "Attack". Later they were assigned the task of warning the citizens of a tornado. About 8 years ago a few newer units were put into service. The Electronic Control equipment at the EOC is described by the memo as "Pre-Neanderthal" and due to its advanced age and obsolescence of compontents, is almost impossible to maintain at any acceptable degree of reliablity. 0ue inadequate to funding and shortage of personnel, there 15 presently no means available to perform the necessary preventive maintenance. They can only try to fix it when it breaks.

Now consider the major flaw as the writer sees it, is in the system itself. Even if the system was operating at 100%, its ability to adequate tornado warning provide during a storm would best described as a cruel joke on the citizens of this community who feel they can depand on it. The sirens for the most part are mounted 1/2 as high as is the minimum effective height. If they were not obstructed by buildings or trees, the practical effective range of each siren is a radius of one mile ( a total area of about 9.86 square miles). With a total of 47 sirens, total system coverage would equal approximately 463 sqaure miles; for a city of about 625 square miles. coverage is mediocre (for people outdoors). a person l f indoors, with TV or radio playing, and with storm noise, the effective range of each siren would be reduced to only a few blocks. There is no back up power on any of these "I feel that we are grossly remiss in our responsibility to the public as long as we continue to lead them in the mistaken belief they can place their sole reliance in this system for alerting them to an impending tornado." "! use a battery powered NOAA weather radio with the warning beeper to provide warning for my family". writes the memo author.

I, as the ARES District Emergency Coordinator, feel that this person knows what he is talking about. I intend to heed his message. I recommend you do the same.

SUN	MON	TUE	WED	THU	FRI	SAT
MARCH 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	APF				FIRST DAY OF THE MOORELAND EYEBALL QSO
2ND DAY EYEBALL GSO	3	4	5	6 AERONAUTICAL	7	SOUTH CANADIAN
WHEATSTRAW				CENTER ARC	-	ARS
9	10	11	12	13	14	15
	EDMOND CLUB	O U 76'ERS		ALTUS AREA A R A		CENTRAL
		OIDAR	First Quarter	CIMMARON ARC		OKLAHOMA VHF CLUB
16	17	18	19	20	EDMOND SOCIETY	22
	VE EXAM 6 PM RED CROSS BLDG	OK CITY AUTOPATCH		KAY COUNTY A R K  1st Day Passover	EDIT NIGHT FOR C & E	
23/	24	25	26	27	28	29
30		CORA CORA CORA CORA CORA CORA		8th Day Passover	HAM HOLID THE LAST FU IN JULY 28-29-30	LL WEEKEND

Q. R. Zedd

#### SOME PEOPLE HAVE NO CLASS

Q. R. Zedd, A5A, world's greatest Dxer, was relaxing in his hamshack recently and tuning all bands, all modes, all frequencies, as usual. A handful of the faithful from his local radio club, the world's greatest (of course), were sitting around watching in admiration and hoping to pick up a few tips on how to get nearer the DXCC Honor Roll, which Zedd leads as always.

It was an inspiring scene. There sat Zedd, feet on the edge of his circular operating desk, looking relaxed and debonair in his Oklahoma State sweats, his Boomer Sooner cap and his Rome Olympics sweater, casually working countries on CW with both hands, talking to an old pal in XU (or maybe it was Ardmore) on 160 meters (using the VOX-operated boom mike stuck to his forehead with a rubber suction cup), keeping an eye on the moonbounce operation and the OSCAR transmitter, and obviously listening for new calls on his other hf scanners and the bank of VHF gear arayed between his operating arena and the bleachers along the south wall where we all sat.

The holder of the country's only 1x1 callsign was still wearing his black armbands in recognition of the bad stuff perpetrated recently by the NCAA. He looked a little tired, his handsome visage sagging slightly, after his whirlwind visit to Dallas, where he lent his expertise to the Cowboys' staff planning next year's

personnel and strategy.

The great man brightened visibly, however, as his beloved son Zepp tottered into the room, showing a plastic toy lawnmower and jabbering a mile a minute on his tiny, back-mounted UHF rig. I think he was working a remote link into a 15-meter transmitter being monitored by Zedd as control operator, because he was talking to Poland. But Zepp passed the Advanced Class test at 14 months of age, so maybe he didn't need supervision.

"Da-da!" Zepp gurgled. "Oochie

schoochie dewey plah-play!"

"Right, son," Zedd snapped. "Now pay attention to your business there and work that UA station that's calling you."

About this time, one of Zedd's

automatic scanning monitors -- maybe on a 20-meter rig - lit up like the Lloyd Noble scoreboard when Billy's boys are playing at home.

Zedd signed with two Russians, a Brit, a couple of Fiji islanders and everybody in Southeast Asia. recognize that call!" he said with a glare of concentration, flipping switches to rotate a 10-over-10 at 800 feet.

Then Zedd keyed a mike: "UA1AAAAA, this is A5A, over!"

Back came a familiar voice, about 90 over 9: "A5A this is UA1AAAAA. Name here is Boris Badenov, you Yankee imperialist swine, in case your brain is more dead and you cannot remember greatest DXer in world, hah hah! Zipp, Zapper, whatever your name, you are usual about three and three, I repeat, three and three, but I put you in log as five and nine, give you a thrill. Over!"

Zedd sighed and tripped the VOX: "Howdy, Boris, you old skunk. This is Zedd. You're getting in here okay, about the same signal strength as my neighbor's bug light a couple miles down the road, and your readability ain't quite as good, but I'll log you as five and nine also, old chum, and if you want a QSL, you just send me two green stamps and a

SEE INSIDE BACK PAGE