



Second Class Mail

OCTOBER



1993

Volume 19

Number 9

RECORD NUMBER OF YOUNGSTERS "ON THE AIR" WITH AMATEUR RADIO

NEWINGTON, CT (September 14, 1993) -- If you're hearing more young voices on the air while tuning through the Amateur Radio bands on your shortwave radio, don't be surprised. Since 1991 when the Federal Communications Commission eliminated the Morse Code requirement for the entry-level Technician class Amateur Radio license, the number of people under the age of 21 involved in the Amateur Radio hobby has increased an average of more than 30 percent a year.

According to the American Radio Relay League, the national association of Amateur Radio Operators (or "hams"), there are currently more than 28,000 licensed radio amateurs around the U.S. under 21, more than double the number of youngsters under the age of 21 in 1990, the year before the "no-code" license was introduced.

"Amateur Radio is a great equalizer for kids," says Steve Mansfield, Public Information Manager for ARRL. "When they're on the air, they can talk with other hams around the U.S., throughout the world, even in space. Operating ability, not age, is the only issue."

Mansfield says that many youngsters began to be interested in Amateur Radio in the mid-1980's when the FCC expanded the operating privileges of hams holding entry-level "Novice" class licenses.

"Even more were attracted when knowledge of Morse code was no longer required for the 'Technician' class license," Mansfield says, "making that the entry-level license of choice among youngsters."

Mansfield says that programs introducing Amateur Radio to schools have also helped boost interest. One such program, the Shuttle Amateur Radio EXperiment, or SAREX, lets youngsters in classrooms talk with astronauts in space via ham radio.

"Increasingly, tight school budgets have made it tough for teachers to find low-cost ways to enhance classroom lessons," Mansfield says. "But talking with an astronaut in space or another student in a foreign land via Amateur Radio is a dramatic way to supplement regular classroom instruction in subjects like science and geography."

-more-

OCAPA

MINUTES OF THE OCAPA MEETING

September 21, 1993

The meeting was called to order by Brad KJ0W at 7:30pm.

The minutes of the last meeting were read by John N5SAM, seconded and accepted.

Treasurers report was read by Mike N5VIT, seconded and accepted.

TECHNICAL COMMITTEE

Mike N5VIT reports the new hardline is in service and he reviewed other upgrades to the equipment and plans for future.

EDUCATION COMMITTEE

Brad KJ0W requested a new chairman for education. He said "it is an easy job".

PUBLIC SERVICE/INFORMATION COMMITTEE

Tom WA9AFM told us of two pieces of pending legislation of concern to the ham community. House Joint Resolution 199 and House Bill 2623 were discussed.

CORA

Chuck K5NK told us that the officer elections are next Tuesday. If interested in a position in CORA, come to the meeting and volunteer.

SALVATION ARMY

Tom N5TCG told us repairs to the Salvation Army service trailer are progressing.

CHRISTMAS COMMITTEE

Mike N5VIT told us the Warr Acres Community Center has been secured for this Decembers party.

OLD BUSINESS

Jim K5PER, the Oklahoma County Emergency Coordinator, invited the new

hams at the meeting to join ARES and RACES organizations.

NEW BUSINESS

Kieth KI5XA, Mary KB5VNP and Don KC5BRO now have a date for the first HAM-NIC.

October 9, 1993 at Don's place, 1 mile north and 3/4 west from the Deer Creek school. Bring sandwich stuff for lunch around 2 and stuff for the grill for the evening meal. Contact Mary, either by phone or on 82, about side dishes and plan to spend a day of good fellowship, food, and operating some HF rigs. MOTION to rent a portable toilet for the HAM-NIC, seconded and passed. Brad KJ0W told us of plans for the future of OCAPA and involvement in community activities.

ATTENDANCE 50

Meeting adjourned at 8:40PM.

John Brassfield N5SAM

Secretary

Job Wanted: Electronics

HAM with 7yrs. field service of electro mechanical and computer systems.

KB5UKT, Mike Sundstrom, 1716 Pinnacle Ln. Edmond, OK 73003, (405) 359-6681

Letter from the Editor...

I'm going to cut to the chase here because I hate to waste space on this subject.

WE NEED HELP!!! If you have any time you can donate towards folding and stapeling the C&E give me a call. My Telephone number is 787-3804. That is the **only** number you will reach me at. If I don't get any volunteers, we will be forced to go back to what we were doing which is paying an outside source \$50 just to do what a few people who care can do in 2hrs. So far, EARS is the only club to offer time and a place to put stuff together. Other clubs should pitch in. 73 de N5NYS

Editorial Staff -

Scott Walsh, N5NYS, Editor

Joe Buswell, K5JB, Editor

Editor Emeritus

Joe Harding

WA5ZNF

CORA -

Rick Masters, N5WNR, President

Kathy DeGraffenreid, AA5RU, VP

Jim Buswell, N5BEQ, Secretary

Tom Mangham, K5LDI, Treasurer

PLEASE help keep your information up to date. Check you entry on the back page. It can be changed. If there appears to be a mistake, check with your local club official.

Dear Secretary/Treasurer,

When you want a change of any sort to your membership, you must fill out completely a subscription slip. Watch for the date you recieved their money and the date the subscription expires. Have your slips, or list of deletions submitted by the 22nd of each month. If there is anything about C&E subscriptions you need to know, please contact us.

Story information as well as letters to the Editor should be sent to:

Scott Walsh, N5NYS

600 Annawood Dr

Yukon, OK 73099-2008

or left in their entirety on the BBS at (405) 354-3241, N81, 1200-14.4k.

You can also leave your article in N5PHW's packet mailbox on 145.03.

For additional information the only telephom number you will reach me on voice is (405) 787-3804.

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VHF Club
NEWS
W5LOW
The Elmer Goekler Memorial
Station

Minutes of September Meeting

Meeting was called to order by President J, KB0QJ, at 12:00 P.M. with 11 members and guests present. Treasurer Ellard, W5KE, gave his report and included a report on the watermelon purchasing and feed planning.

Charlie, WA5JGU, and Ellard, W5KE, gave the CORA report, and there was some discussion about club representation. Charlie and Ellard were concerned that they were going to be replaced!

Fred, W5NL, suggested that Bob, W5HXL, be appointed in absentia to be the telephone calling committee; but, he also added that Bob could appoint anyone he wanted to help him. With all the serious business taken care of, meeting adjourned at 12:22 P.M. after which Ellard, W5KE, challenged me with a couple of dead Gates Cell batteries. I will report on that next month. So far they don't look to be in too bad a shape and are taking a charge. Joe, K5JB Sec'y

Proofreader, Who? Me?

Usually I am pretty careful to proofread my material before I send it off to the C&E editor, but it looks like I really blew it last month. I received my C&E yesterday and read it to see what I wrote about. Drat! There were several misspellings, and typographical errors. I guess I not only didn't proofread it, I didn't properly run it through the computer's spell checker. I apologize. I really do know how to correctly spell "analogy"! And, I DO know the difference between "out" and "our"!

Another Member in News

The September 6, 1993 Daily Oklahoman had a photograph and short note about Ray, W5TY, as he scanned a crys-

tal eagle that was on display at the Oklahoma City Community College Arts Festival. The picture was captioned, "That's Really Something", and I can sure hear Ray saying that. Good picture of you in the paper, Ray!

Volts and Amps, Part 2

After last month's column on voltage and current, I am kind of unsure where to go this month. I hope that the point was clear that voltage and current are two different things. I introduced the term resistance, which is really an electrical property we measure indirectly by measuring voltage and current. I might back up a little and discuss a little about measuring these things. It occurred to me that very few of us have means to measure voltage directly. I know it can be done, and I know how, and most of us have some kind of "voltmeter", either a VOM, a VTVM, or one of the newfangled digital multimeters, *but none of these things actually measure voltage!*

(You are saying, "He's getting senile...") Seriously folks, that VOM measures current *only*. What it does is create a circuit across the voltage source and internally splits it up in such a way that a portion of the current flows through the meter, or other measuring device,

Did you ever hear how the VOM was invented?

There were two cousins, Charlie Volt, and Clyde Ampere who invented electricity. Charlie invented voltage, and Clyde invented current. Clyde had no problem showing people how electricity worked because would stick two wires on their fingers, run a little current through it, and they would get a funny feeling that would cause them to jump back in startled amazement. He was demonstrating current to them. Charlie, on the other hand, tried to convince people he was on to something by rubbing a piece of cat fur against some stuff he found oozing out of a tree. His observers thought he was wacko and promptly missed the point of his demonstrations. Not to be discour-

aged, Charlie invented a meter he called "volts on masquerade", which was shortened to "VOM". This device was a black box that performed as I described earlier. That is how the VOM was invented, and with it he could show people that there was something called "voltage", but he was actually using Clyde's current invention to show them the effects of voltage since he couldn't show it to them directly.

This is getting kind of silly. I guess I will contemplate things for another month and maybe come up with something profound by then. By the way, I have nothing new to report on 9600 baud packet operation. Joe, K5JB

New Regs on Commercial Content

The following is from a posting by Mac, K2GKK, on the WB5FWE packet bulletin board August 30, 1993. I presume he typed it in from QST, or somewhere. Thanks Mac! It contains changes to the FCC rules that govern acceptable content of amateur radio transmissions.

These rules became effective 9/13/93.

Part 97 of chapter I of title 47 of the Code of Federal Regulations is amended as follows:

Part 97-AMATEUR RADIO SERVICE

1. The authority citation for Part 97 continues to read as follows:

Authority: 48 Stat. 1066, 1082, as amended; 47 U.S.C. 154, 303. Interpret or apply 48 Stat. 1064-1068, 1081-1105, as amended; 47 U.S.C. 151-155, 301-609, unless otherwise noted.

2. Section 97.113 is revised to read as follows:

97.113 Prohibited transmissions.

(a) No amateur station shall transmit:

(1) Communications specifically prohibited elsewhere in this Part;

(2) Communications for hire or for material compensation, direct or indi-

rect, paid or promised, except as otherwise provided in these rules;

(3) Communications in which the station licensee or control operator has a pecuniary interest, including communications on behalf of an employer. Amateur operators may, however, notify other amateur operators of the availability for sale or trade of apparatus normally used in an amateur station, provided that such activity is not conducted on a regular basis;

(4) Music using a phone emission except as specifically provided elsewhere in this Section; communications intended to facilitate a criminal act; messages in codes or ciphers intended to obscure the meaning thereof, except as otherwise provided herein; obscene or indecent words or language; or false or deceptive messages, signals or identification;

(5) Communications, on a regular basis, which could reasonably be furnished alternatively through other radio services.

(b) An amateur station shall not engage in any form of broadcasting, nor may an amateur station transmit one-way communications except as specifically provided in these rules; or shall an amateur station engage in any activity related to program production or news gathering for broadcasting purposes, except that communications directly related to the immediate safety of human life or the protection of property may be provided by amateur stations to broadcasters for dissemination to the public where no other means of communication is reasonably available before or at the time of the event.

(c) A control operator may accept compensation as an incident of a teaching position during periods of time when an amateur station is used by that teacher as a part of classroom instruction at an educational institution.

(d) The control operator of a club station may accept compensation for the periods of time when the station is transmitting telegraphy practice or information bul-

letins, provided that the station transmits such telegraphy practice and bulletins for at least 40 hours per week; schedules operations on at least six amateur service MF and HF bands using reasonable measures to maximize coverage; where the schedule of normal operating times and frequencies is published at least 30 days in advance of the actual transmissions; and where the control operator does not accept any direct or indirect compensation for any other service as a control operator.

(e) No station shall retransmit programs or signals emanating from any type of radio station other than an amateur station, except propagation and weather forecast information intended for use by the general public and originated from United States Government stations and communications, including incidental music, originating on United States Government frequencies between a space shuttle and its associated Earth stations. Prior approval for shuttle retransmissions must be obtained from the National Aeronautics and Space Administration. Such retransmissions must be for the exclusive use of amateur operators. Propagation, weather forecasts, and shuttle retransmissions may not be conducted on a regular basis, but only occasionally, as an incident of normal amateur radio communications.

Editorial Comment on BBSs

I see a lot of message content on the packet radio data stream that is borderline legal for amateur radio, and some are clearly unacceptable. The judgement regarding message content is not as simple or clear as some people would like (or need) but my personal rules are simple. If it is questionable, I dump it.

Since the First Amendment doesn't apply to my packet bulletin board I play dictator and exercise the right to judge content to my standards and dump those messages that make me uncomfortable. It should come as no surprise to veteran amateurs that I don't permit messages that contain price negotiations on items

for sale. If money is going to change hands, I reason that the dealers are going to have to spend a nickel on a phone call.

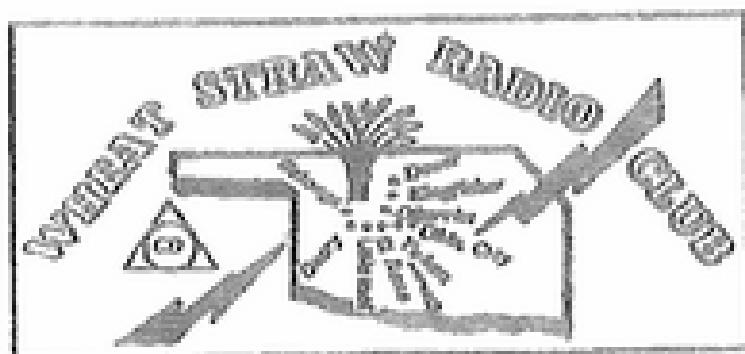
Messages concerning business matters of other organizations, like Religious Missionaries, Red Cross, Salvation Army, Civil Air Patrol, etc. aren't acceptable, unless there is an emergency. These organizations have commercial communication channels that they should be using instead of freeloading off of amateur radio.

Messages having off color language *may* be deleted if I judge that they go beyond commonly accepted community standards. I would *probably* let vulgar (defined as "common") language go by, but sexually explicit language is outahere.

Messages that appear to be written to propagate an individual's political or religious beliefs, and aren't of general interest to amateur radio would probably be kicked off the BBS. Here is where I exercise my rights. The BBS users have no rights regarding censorship. It is *my* bulletin board, and *my* license. This stand is clearly unpopular, but that is what it is.

I see a lot of whining in the messages addressed to "SYSOP", (and I hate that term as applied to amateur radio) that moan that there isn't enough time in the day to read and manage the messages of their BBSs. My response is if you don't have time to manage the thing then *shut it off!* There is no automatic way to control message content that can't be defeated by mischievous operators. The control operator should either *control the thing*, or *Just Say Off!* Some of BBS operators have confused priorities.

This subject isn't important enough to me to harp on it very often, but I find it necessary from time to time to inform newly licensed amateur radio operators (and remind some old-timers) how it is. I hope my users enjoy using the BBS, because I enjoy running it. It is because I enjoy running it, and enjoy and love amateur radio in general, that I'm following the rules. Joe, K5JB, *Benevolent Dictator*



September Wheatstraw Meeting

The September 12 meeting was held at the city hall in Calumet.

There were 26 members and visitors present. As usual, the ladies had goodies galore for refreshment after the meeting.

The meeting was called to order by our president, Ray, AB5Z. Everyone enjoyed the meeting. Ralph and Goldie brought about nine gallons of okra from their garden.

Ralph, WA5PFB, mentioned the Christmas dinner coming up the 12th of December. Fortunately, the End 'O Main had an opening! The full buffet, drinks of coffee or tea, and sales tax is seven dollars each. The members voted to make reservations.

Tom, N5IKN, made a motion that the club make a memorial at the Christian Church in Dover for Carl, WA7AZO. Motion carried.

The next meeting will be moved to the third Sunday in October, which will be the 17th, due to the availability of a meeting place. The meeting will be in El Reno, at the Northwest Community Center, located at Grand Blvd. and Clark St., on Sunset Drive. At the first street west of Homeland, turn north to the Center. We have met there several times before. Most of you have been there.

Tom, N5IKN, will be net control for October, or will have someone call the net in his absence.

1994 officer nominations will be made in November and elections held in December. Any member can still be nominated for office and elected in December.

Have your checks ready for your 1994

dues by December, so it will make it easier for the Treasurer. Please don't forget the Crippled Children's Christmas fund, which the Wheatstraw ARC sponsors each year. It needs our blessings and support.

For entertainment after the September meeting Ralph, WA5PFB, played a tape of Archie Campbell and his son Phil. It was made at Archie's Theater. He was one of the entertainers on Hee Haw until he died. Ralph, WA5PFB

FCC Preempts "Scanner Laws" for Hams

(From the W5YI Report)

Some states had scanner laws and could render amateur licensees traveling interstate by automobile vulnerable to arrest and to the seizure of their radio equipment by state or local police.

After research, and comments or recommendations from the ARRL, the FCC asked for comments from amateurs, police, and others.

The FCC's final conclusion: "We hold that state and local laws, that preclude the possession in vehicles or elsewhere of amateur radio service transceivers by amateur operators merely on the basis that the transceivers are capable of reception of public safety, special emergency or other radio service frequencies, the reception of which is not prohibited by federal law, are inconsistent with the federal objectives of facilitating and promoting the amateur radio service and, more fundamentally, with the federal interest in amateur operators being able to transmit and receive on authorized amateur service frequencies. We therefore hold that such state and local laws are preempted by federal law."

ARRL Executive Vice President, David Sumner notes that ARRL began pursuing the ruling on November 29, 1988, proposing the addition of a new section of the FCC's Part 97 rules. A year later, the league asked for a declaratory ruling on the issue.

Watonga Cheese Festival

The cheese fest will be November 5 and 6, 1993. Everyone is invited. Besides the Made in Oklahoma Show, there will be a large parade, arts and crafts, helicopter rides, and all kinds of entertainment throughout the festival. There will also be a flea market, antique show and sale, the great rat race, and amusements for children of all ages. The cheese tasting always has a large crowd.

Hot meals will be served at restaurants, cafes, drive ins and concessions available at all events. The United Methodist Senior Citizen Center and the Watonga Elks will serve hot meals.

Don't forget the Watonga Cheese Festival Queen Contest.

Carl, WA7AZO A Silent Key

Carl Rothermel, WA7AZO, entered into rest August 29, 1993. A memorial service was held Saturday at ten o'clock September 4, 1993. Carl was a member of the Dover Christian Church, the Wheatstraw Amateur Radio Club, and many other organizations. Carl loved his music; he sang and played the guitar, entertaining the club. He played about four or so instruments very well. He was loved by all who knew him.

It was a beautiful service. The ministers were Terry Roelfsema, KC5ACS, of the Christian Church and Father Joseph Colb, W5JEB, the Catholic Priest from Hennessey.

Two ladies, Donna Terrell and Debbie Trout, each sang a solo.

After the services, dinner was served for the family, close friends, and the Wheatstraw Radio Club.

Carl will be greatly missed by all.

Ralph, WA5PFB

Remember

If you play poker with the Devil,
There ain't no limit!

Meers OK, Watching the Moves

Labor Day Goldie and I decided we would take off work for the day. We went out and got another couple to go with us.

The largest Canna farm in the world is eight miles north and one and one fourth mile east from Carnegie. (The address is Horn Canna Farm, Route 1, Carnegie OK.) It was established in 1928 by a family named Horn. The second generation operates it now (The Snow family). They offer 15 different varieties of Canna from an average height of 28 to 60 inches tall. If you can't visit the farm, you can call it at (405) 637-2327. Minimum order is 12 bulbs.

Meers is quite a place to dine. You would have to see it to believe. The food was good. I ate Texas long horn beef dinner with barbecue sauce. We arrived at our table about 11:30 and were through eating a little after 1:00 P.M..

Goldie saw a seismograph setting on a table and called my attention to it. I will copy most of the written story about it so you can understand what it is all about.

*Meers Observatory
Oklahoma Geological Survey.
Meers Oklahoma
The Meers Fault*

Information and answers to questions most asked: The Meers fault, a profound structural dislocation, forms the frontal fault zone between the Wichita uplift to the south and the Anadarko Basin to the north. The Meers fault is part of the Pennsylvanian frontal fault system which stretches from the southeast to the northwest through south central and southwest Oklahoma and into the Texas panhandle. The characteristics of the fault are unusual for the midcontinental United States. A distinct fault trace is visible from near Saddle Mountain to Cache creek, a distance of at least 15 miles. Scientists had believed that the last major movement occurred during the Pennsylvanian period some 300 million years ago. However, recent studies show

the time of the last major movement occurred 500 to 2000 years ago, and that the Meers fault could produce a magnitude 7 earthquake in the future. The Meers fault would appear to belong in California, where young faults are plentiful, but it is the only surface-breaking rupture east of the Rocky Mountains. The Meers fault is the first documented movement of a fault in the last 10,000 years in the central Mid-Continent region of the United States -- Oklahoma, Kansas, Nebraska, South Dakota, and North Dakota

Seismically, the Meers fault has been extremely quiet. Only one small quake in 1981 can be associated with it. This quietness makes some scientists believe there is little cause for immediate concern. New studies suggest that earthquakes occur in the Meers fault at very long intervals. It could be another thousand years before another major quake occurs.

The Meers station was established in June 1985 and was given the international station abbreviation "MEO" for Meers Observatory. It is operated on a voluntary basis by the Meers staff, and is supervised by Dr. Jim Lawson of the Oklahoma Geological Survey, Leonard OK.

The entire fault trace is visible from the air. A part of it can be seen near the Stony Point school. However, it can best be seen on the Kimball Ranch.

The Meers seismometer is located in a mine shaft about 2000 feet northwest of the Meers store, and is connected to the seismograph in the store by coaxial cable. The station is one of the most sensitive in the country. It has recorded quakes in the Indian ocean near Diego Garcia Island, 10,300 miles from Meers, nearly at the opposite point on the earth. It took 20 minutes for the wave to travel through the earth to Meers, a distance of nearly 8,000 miles.

On January 14, 1988 the Meers seismograph recorded a small quake of magnitude 4.3 in Nicaragua at a distance of 1,675 miles. Meers was the only station

outside of Central America to report this earthquake. On November 15, 1990 it recorded a trembler, magnitude 3.6, in northern Garvin county, about 55 miles east of Meers. It rattled windows in Lindsay and Rush Springs. (It was the largest earthquake in Oklahoma since December 8, 1987 when a magnitude 3.7 occurred in Kingfisher county.) From January 1, 1977 through August 12, 1990 there were 695 earthquakes in 64 of Oklahoma's 77 counties. The most seismological active areas of Oklahoma are from the Red River in Love county, north to Garvin county, and in the El Reno and Kingfisher areas. Artillery firing at Fort Sill does not interfere with seismic recording at Meers.

I hope this information is interesting to some of you. I enjoyed the time spent there and I certainly enjoyed the dinner. The place is unique. It would make a good caravan club trip.

This article has no value to technical radio knowledge, but we have a good dependable technical writer, Joe, K5JB.

Ralph, WA5PFK

Editorial Comment

Since there is just a little bit of a page left here I thought I would just have enough space to do a little mutual back patting with Ralph, WA5PFK. I have always enjoyed reading material that others put in the C&E because I know that they are doing it without compensation, and a lot of time, without thanks.

I particularly enjoy reading Ralph's material because he has perceptions that he articulates very well. I volunteered at Ham Holiday this year to type Ralph's material if he would mail it to me. I can type 200 words a minute you see!

Ralph's apology that his material wasn't technical was totally unnecessary in my opinion. This would be a very dull magazine indeed if it only contained technical information. Jack Bickham, KU5B, for years wrote one of the best columns the C&E ever had. Remember Q.R. Zedd?

Joe, K5JB, Typist and Editor

WE NEED YOUR HELP!! Recently legislation was Introduced in the House (House Resolution 2623) under the title "The Amateur Radio Volunteer Service Act of 1993". This isn't your standard 'commemorative legislation (like National Pickle Week). It is designed to amend the Communications Act and protect amateur radio operators. It would protect us from liability for any alleged damage, loss or injury while acting in good faith and within the scope of their duties in volunteer examining, monitoring or administering a club/military recreation amateur radio club'. Essentially, it will protect VE's from liability if someone fails any or all of the elements for an amateur radio license exam; Official Observers from alleged violations if they might report to the FCC; and administrators of club and military recreation clubs. The key is 'acting in good faith'. You would only be protected if your actions are within the bounds of FCC/club regulations and are acts of a reasonable person'.

To express your position on H.R.2623, write your member of congress at the following address:

Hon. (member's name)
House Office Building
Washington, DC 20515

To make sure your position is considered, the letter should specifically invite cosponsorship of H.R. 2623. The request need not be long and detailed. Perry Williams, W1UED (ARRL-Washington Area Coordinator) suggests, for visual impact, consider stating your case a QSL card! As of this date, no member of the Oklahoma delegation has signed as a cosponsor of H.R. 2623.

ARRL News (page 1)

Manfield says that students as young as six years of age have earned Amateur Radio licenses, often after having attended classes sponsored by local Amateur Radio clubs.

TNX ARRL....

MORI

Hi there, as many of you have noticed, MORI has made drastic improvements compared to just one year ago. When the current board was elected, the club was at a point that it could not survive a few more months physically and financially.

After taking over, we promptly cleaned up the mess that was the 146.67 repeater, rat leftovers and all. After rebuilding the controller, we went on to get the repeater in a condition that it would function through last winter.

The 146.94 repeater, being in a non working state lost its coordination forever.

The 444.100 machine was not property of the club so it was removed by its rightful owner minus the frequency that was club property.

Repeater sites were at a point of the owners were just waiting on the smell to go away, before having the club remove its equipment.

It was also said that "they don't know what they are doing." Well, we may not know what we are doing but, we got some good ideas from the "How to Build a REAL repeater" book by R.F. Burns. Here are some of the chapters that we have completed.

Chapter 1 The 146.67 repeater is currently receiving on an antenna over 600 feet higher than its predecessor. It took the lead as Oklahoma City's highest repeater as it went up. With the repeater transmitting on the antenna that it used to receive on at 820' this has made for one huge talking machine with coverage up the turnpike to Stroud and south to Pauls Valley.

Chapter 2 146.925 was coordinated to the club for the replacement of the 146.94 frequency. This repeater receives at the same height as .67 but is oriented to the west-southwest. It will soon be transmitting from an antenna at 1170'.

Chapter 3 MORI in conjunction with Oklahoma County Emergency Management / Civil Defense start a new weather spotters network on the 146.925 repeater, with a link that can be brought up to include southwest Oklahoma via the 147.27

repeater in Anadarko and the 146.91 repeater in Lawton.

Chapter 4 444.100 is now a club owned machine with controller purchased for it. Its coverage has allowed it to become the states largest coverage UHF repeater. With stations checking in regularly from Lawton and on further south, we are still amazed by its performance.

Chapter 5 The new kid on the block, 145.21 has turned heads also. It is a basic repeater with no frills but has coverage like the others, receiving on the same antenna as .925, but transmitting from the Liberty Bank building downtown.

Chapter 6 MORI puts up a packet network consisting of Ka-Nodes on 145.03, with nodes in Oklahoma City, Dougherty, Stillwater, and soon Wewoka/Seminole. For those of you on packet, you can download a current map of the network by accessing the MORIBX via MORI1.

Chapter 7 Who knows what the club will come up with next, a satellite remote base, a ATV repeater, or how about a packet link to Mars?

The repeater sites graciously donated by KFOR-TV and Liberty Bank in conjunction with Motorola have been saved. KFOR also gave us a spot in the weather-room to conduct the weather nets along with our own radar display. They have given us tower space that costs most commercial customers thousands of dollars.

Now for some club activities. Meeting attendance has went from 6-12 people to over 30-40 people. Our weekly transmitter hunts have even been recognized in QST. The club joined up with EARS for a joint field day with a wonderful cookout and a score of 4756 in the 5A class.

So with this, to all of those who have stood behind the club and its leaders during the rebuilding, a big thanks, and let's make it another successful year. Keep up the support and we will have one of the largest clubs in the state. The meetings are on the first Tuesday of each month at Favorites at 36th and South Western. Listen to the 146.67 repeater for information and join us at the next club meeting and share your ideas. 73 de N5VIS, Craig @ MORIBX

JOE P. McDONALD, W5CCV

425 WEST MONROE

MANGUM, OKLAHOMA 73554



09/09/93

TO ALL AMATEUR RADIO OPERATORS

Perry Williams, W1UED, Washington Area Coordinator for The American Radio Relay League, solicits more letters from amateurs to their US Senators and Members of Congress asking their support for S.J. Res. 90 and H.J. Res. 199; also for H.R. 2423.

Short letters and QSL cards may be addressed to Hon. David Boren and Hon. Don Nickles, US Senate Office Building, Washington, DC 20510. Hon. Jim Inhofe, M.C., Hon. Mike Synar, M.C., Hon. Bill Brewster, M.C., Hon. David McCurdy, M.C., Hon. Ernest Istook, M.C., and Hon. Glenn English, M.C., House Office Building, Washington, DC 20515.

Here is a copy of my letter to each member of the Oklahoma Delegation: Perry, W1UED does request copies to be sent to him, if conveniently possible for the writer to so do.

...."Dear Senator_____, (or) Dear Congressman_____:"

I solicit your support of S.J. Res. 90 and H.J. Res. 199, to recognize achievements of Radio Amateurs (who serve without pecuniary interest;) and, to establish support for the public service of such amateurs as a national policy.

Also there is The Amateur Radio Volunteer Service Act of 1933, H.R. 2623, which would amend the Communications Act so that no licensee who provides volunteer services which are specified by FCC, shall incur personal financial responsibility for alleged damage, loss or injury while acting in good faith and within the normal scope of volunteer activities.

In times of disaster, the amateur radio operators are always available to provide communication when needed.

I have been a "ham radio operator" for forty years: the many thousands of amateur radio operators in Oklahoma will appreciate your support and cosponsorship of these resolutions: no funding is involved. Thank you for helping us!

Sincerely,

Joe P McDonald
Joe P McDonald, W5CCV,

(Extra Class Amateur Radio operator):
Assistant Director, West Gulf Division,
American Radio Relay League (Newington, CT):
ARRL/Volunteer Examiner:

H.R.2623

To amend the Communications Act of 1934 in order to facilitate utilization of volunteer resources on behalf of the Amateur Radio Service.

IN THE HOUSE OF REPRESENTATIVES
June 13, 1993

MR. SLATTERY introduced the following bill; which was read and referred to the Energy and Commerce Committee

A BILL

To amend the Communications Act of 1934 in order to facilitate utilization of volunteer resources on behalf of the Amateur Radio Service.

1 Be it enacted by the Senate and House of Representatives of the United
2 States of America in Congress assembled,

3 **SECTION I. SHORT TITLE**

4 THIS ACT MAY BE CITED AS THE "AMATEUR RADIO VOLUNTEER SERVICES ACT OF
5 1993."

6 **SECTION II. FINDINGS AND PURPOSE**

7 **(A) FINDINGS.** - THE CONGRESS FINDS AND DECLARES THAT -

8 (1) SINCE 1982, FOLLOWING THE ENACTMENT OF P.L. 97-259, THE FEDERAL
9 COMMUNICATIONS COMMISSION HAS BEEN AUTHORIZED TO UTILIZE VOLUNTEER ASSISTANCE
10 OF LICENSEES IN THE AMATEUR RADIO SERVICE FOR:

11 (A) THE PREPARATION AND ADMINISTRATION OF AMATEUR RADIO
12 LICENSE EXAMINATIONS, AND

13 (B) ON-AIR MONITORING FOR VIOLATIONS IN THE AMATEUR RADIO
14 SERVICE;

15 (2) THESE VOLUNTEER SERVICES PROVIDED BY INDIVIDUAL AMATEUR RADIO
16 LICENSEES HAVE GREATLY ENHANCED THE SELF-REGULATORY CHARACTER OF THE SERVICE,
17 AND HAVE SAVED THE COMMISSION COUNTLESS HOURS OF STAFF TIME AND OTHER
18 RESOURCES; AND

19 (3) THE SUCCESS OF THESE VOLUNTEER PROGRAMS TO DATE SHOULD BE
20 NOTED, ENCOURAGED AND EXPANDED;

21 (4) PUBLIC LAW 102-538 NOW AUTHORIZES THE COMMISSION TO ACCEPT THE
22 VOLUNTARY, UNCOMPENSATED AND UNREIMBURSED SERVICES OF AMATEUR RADIO
23 ORGANIZATIONS IN ADMINISTRATION OF CLUB AND MILITARY RECREATION STATION CALL
24 SIGNS;

25 (5) A PRINCIPAL THREAT TO THE CONTINUATION OF EACH OF THESE
26 PROGRAMS IS THE PERCEPTION THAT VOLUNTEERS PUT PERSONAL ASSETS AT RISK IN THE
27 EVENT OF ACTIONS AGAINST THEM, AS THE RESULT OF THEIR PROVISION OF THE
28 VOLUNTEER SERVICES;

29 (6) THIS PERCEPTION MAY RESULT IN NON-PARTICIPATION OF VOLUNTEERS
30 OR WITHDRAWAL FROM VOLUNTEER SERVICE;

31 (7) THE PROTECTION OF VOLUNTARISM IN THESE SPECIFIC PROGRAMS,
32 THROUGH CLARIFICATION AND LIMITATION OF THE PERSONAL RISKS ASSUMED BY THE
33 VOLUNTEER IN CONNECTION WITH SUCH PARTICIPATION IN THESE ENUMERATED PROGRAMS,
34 IS NECESSARY AND REASONABLE.

1 (B) PURPOSE. - IT IS THE PURPOSE OF THIS ACT TO -

2 (1) PROTECT THE PROVISION OF VOLUNTEER SERVICES TO THE FEDERAL
3 COMMUNICATIONS COMMISSION AS PROVIDED FOR IN THE COMMUNICATIONS ACT OF 1934,
4 AS AMENDED, IN THE ADMINISTRATION OF THE AMATEUR RADIO SERVICE; AND

5 (2) SUSTAIN THE AVAILABILITY OF VOLUNTEER PROGRAMS WHICH BENEFIT
6 THE AMATEUR RADIO SERVICE, WHICH HAS PROVIDED A MODEL OF SELF-ADMINISTRATION
7 AND SELF-ENFORCEMENT AMONG THE RADIO SERVICES ADMINISTERED BY THE FEDERAL
8 COMMUNICATIONS COMMISSION.

9 SECTION III. FACILITATION OF VOLUNTEER SERVICES TO THE FEDERAL COMMUNICATIONS
10 COMMISSION IN PROGRAMS BENEFITTING THE AMATEUR RADIO SERVICE

11 SECTION 4 (F) (4) OF THE COMMUNICATIONS ACT OF 1934, AS AMENDED [47 U.S.C.
12 §4 (F) (4)], IS HEREBY AMENDED TO INCLUDE A NEW SUBPARAGRAPH (K) TO READ AS
13 FOLLOWS:

14 (K) EXCEPT AS PROVIDED OTHERWISE HEREIN, NO INDIVIDUAL
15 LICENSEE IN THE AMATEUR RADIO SERVICE WHO PROVIDES VOLUNTEER
16 SERVICES PURSUANT TO SUBPARAGRAPHS (A), (B) AND (C) OF THIS
17 PARAGRAPH, OR PURSUANT TO PARAGRAPH (G) (3) (B) HEREINBELOW, SHALL
18 INCUR PERSONAL FINANCIAL RESPONSIBILITY FOR ANY ALLEGED DAMAGE,
19 LOSS OR INJURY FROM ANY ACT OR OMISSION OF THE VOLUNTEER FROM THE
20 PROVISION OF SUCH VOLUNTEER SERVICES, IF SUCH INDIVIDUAL WAS
21 ACTING IN GOOD FAITH AND WITHIN THE SCOPE OF SUCH INDIVIDUAL'S
22 OFFICIAL FUNCTION AND DUTIES IN PROVIDING THE VOLUNTEER SERVICES
23 AS DEFINED IN SUBPARAGRAPHS (A), (B) OR (C) OF THIS PARAGRAPH, OR
24 AS DEFINED IN PARAGRAPH (G) (3) (B); AND PROVIDED THAT SUCH DAMAGE,
25 LOSS OR INJURY WAS NOT CAUSED BY WILLFUL AND WANTON MISCONDUCT BY
26 SUCH INDIVIDUAL.

27 COSPONSORS, H.R.2623.

28 THE AMATEUR RADIO VOLUNTEER SERVICE ACT OF 1993

29 AUGUST 18, 1993

- 30 1. REP. DAN GLICKMAN D 4 KS
31 2. REP. DENNIS HASTERT R 14 IL
32 3. REP. MIKE KREIDLER D 9 WA
33 4. REP. BERNIE SANDERS I AL VT
34 5. REP. JOLENE UNSOELD D 3 WA
35 6. REP. PETER DEUTSCH D 20 FL

Dear Scott:

Please put a calendar of testing activity in the C & E so that we may know when amateur testing will be conducted. Please give the person and his/her phone number to ask for further info. There is one testing group in Yukon. Call Paul Thompson, N5PT, 354-6623. There is another in Norman which tests at 10:15 am on the second Saturday on each month. Call Jim Copeland at 329-1681. There are others but I do not know when they test. This would help those who want to be tested. Most Novice applicants do not have access to bulletin boards nor repeaters.

Thank you.

Sincerely,

73, Bill

Bill Enter, KB5NUA

OKLAHOMA REPEATER SOCIETY, INC.

Serving Amateur Radio and Spectrum Management in Oklahoma

TO ALL REPEATER USERS :

The Oklahoma Repeater Society has been busy the last couple of years. Many positive steps have been taken to help increase the visibility of ORSI around the state. We have held meetings at the Texoma and Green Country hamfests, with very good response. We now have an Assistant Frequency Coordinator for NE Oklahoma, his name is Vince Moore, N5RFW from Tulsa. We are looking to expand the idea of Assistant Coordinators to other areas of the state. Any volunteers ? We are presently looking into setting aside a couple of 2 meter frequencies for "shared non-protected" repeater use. This would be for limited coverage "backyard" repeaters of 100 foot or less. They would be required to be tone activated and restricted as to power output. This plan is presently being used in many states as a way of improving spectrum management.

Repeater coordination in Oklahoma is alive and well, with over 350 coordinations. The demand for VHF frequencies has created a waiting list for available 2 meter frequencies around some of the metro areas. Because of this, I would ask that if you know of a repeater that has been abandoned, for whatever reason, contact me and we will check it out. Its not fair to you or the rest of the Amateur community for these frequencies to sit idle. If you are not a member of the Oklahoma Repeater Society, I encourage you to join. Dues are only \$5.00 per year and can be mailed to Dan Schroeder, ORSI Treasurer, 921 Edgemoor Drive, Stillwater OK, 74074. Join and have a voice in coordination in Oklahoma.

Please contact Glen Turner or Lee Vaughn with any questions or information that you may have. the contact information is listed below




Glen Turner NF7T
State Frequency Coordinator
RR 1 box 53
Purcell OK 73080
(405) 527-7104

Lee Vaughn KA5WIS
ORSI President
1020 JUNO CIRCLE
Edmond OK 73003
(405) 3482961

Please come join us at the TEXOMA Hamfest October 29,30 & 31st .The ORSI meeting will be at 11:00 AM till 12:00 AM Saturday the 30th.

See You there !!!
Lee Vaughn KA5WIS

1. Aeronautical Center ARC Meets: First Thursday, Flight Standards Building, FAA, South MacArthur, 7:00 P.M. Pres: Jack Iman, WB5SVN Sec/Tr: Brad Nelson, KJ0W AstVP: Harold Todd, WA5VAQ 685-3685 AstVP: Charlie Greene, WA5JGU 943-5631 Editor: Jack Iman, WA5SVN	6. Altus Association Meets: 7:30 P.M. Second Thursday North Main Fire Station (CD), Altus Pres: Jim Romines, K15YY VP: None Sec/Tr: Bob Heron, KE4BN Editor: Jim Romines, K15YY	14. Cimmaron ARS Meets: 7:30 P.M. second Thurs. WX5Y Playhouse 827 S 13, Fairview Area code 405: Pres: Terry McColl, N5MLT 227-3672 VP: John Medley, N5WVU 227-3534 Sec: Dennis Painton, WK5V 764-3599 Treas: Nadine Painton, N5FMH 764-3599 Editor: John Medley, N5WVU 227-3534
2. Oklahoma Central VHF ARC Meets: 11:00 A.M. 3rd Sat., Golden Skillet 3401 N. Classen Blvd, OKC Pres: J Frank Fields, KB0QJ 789-8469 VP: Bill Noland, WA5FWD 354-5018 Sec: Joe Buswell, K5JB 732-0676 Treas: Ellard Foster, W5KE 789-6702 Editor: Joe Buswell, K5JB 732-0676	9. Wheatstraw ARC Meets: 2:30 P.M. 2nd Sunday, Location Varies. See club section for details. Pres: Ray Barnes, AB5Z, Longdale 274-3334 VP: Neal Kappus, N5KCO 262-1551 Sec/Tr: Joe Garland, WA5FLT, Calumet 893-2660 Editor: Ralph Wilder, WA5PFFK, Watonga 623-5421	15. South Canadian ARS Meets: 9:30 A.M. Second Saturday, Red Cross Bldg. North OU Campus, Norman Pres: Don Schader, K15TP 321-9649 VP: Mike Winkel, N5SOF 366-8639 Treas: David Gates, N5LCL 392-5677 Sec: Gary Skaggs, WB5ULK 799-5363 Editor: Gary, WB5ULK & Ken Brown, N5KUK
3. Mid-Oklahoma Repeater, Inc. Meets: 1st Tuesday, 7:00 P.M., Favorite's Cafe 36th & S. Western, OKC Pres: Scott Walsh, N5NYS 787-3804 VP: Larry Benedict, N5VYC 728-7824 Sec: Tim Hanna, N5USM 842-3812 Treas: Robert Moose, N5QKI 720-0073 Editor: Dean Ward, N0PAD 681-4606	11. Edmond AR Society Meets: Odd months, 3rd Sun., 2:00 P.M. Edmond EOC; Dinner Even Months, 3rd Friday Pres: Ken Stepp, N5DBM 341-4874 VP: Bob Long, N5KUE 373-2540 Sec: Lynise Hamlin, KB5FOH 427-2828 Treas: Ed Granger, KB5DZU 348-3454 Editor: Bob Long, N5KUE 373-2540	16. Edmond AR Club Meets: 7:00 P.M. Second Monday, Various Locations Pres: Mark Northcutt, WD5DYI 755-4672 VP: Wendell Cochran, WB5ISO 943-4308 Sec/Tr: Kay Northcutt, WD5DYI 755-4672 Trustee: Dennis Orcutt, WB5ISN 340-0034
4. OK City Autopatch Meets: 7:30 P.M. Third Tuesday, Salvation Army N.W. 50th & Penn. PR: Brad Nelson, KJ0W 793-9470 VP: Tom Webb, WA9AFM 737-6716 Sec: John Brassfield, N5SAM 685-8070 Treas: Mike Begley, N5VIT 732-2827 Editor: Tom Webb, WA9AFM 737-6716	12. Oklahoma Packet Radio Assn. Meets: At Major hamfests, Green Country, Ham Holiday and Texoma Pres: Hank Blackstock, WA5JRH 722-0640 Editor: Hank Blackstock, WA5JRH 722-0640	18. Great Plains ARC Meets: 2:15 P.M. First Sunday, Home of N5LRR 2914 Osage Dr, Woodward Pres: Bob Bayles, WB0GAX, Wdwrdr 254-3561 VP: Andy Taylor, N5LRR, Wdwrdr 256-4017 Sec/Tr: Rod Ford, WB5OVT, Gage 923-7683 TR: Freida Patterson, N5EOX, Wdwrdr 256-2111 Editor: Phillip Perry, N5QCN 938-2453
Central Okla Radio Amateurs: Meets: 7:30 P.M. 4th Tuesday, Salvation Army, Penn. and NW Highway, OKC (back door) VP: Kathy DeGraffenreid, AA5RU; Sec: Jim Buswell, N5BEQ; Treas: Tom Mangham, K5LDI, 677-5291; Editor: Scott Walsh, N5NYS, 787-380; Circ/Adv: Note that the original four clubs that formed CORA were Aeronautical Center ARC, VHF Club, MORI and OKC Autopatch.		

<div>19</div> <div>OCTOBER</div> <div>93</div>						
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
					1	2
3 Great Plains	4	5 MORI	6	7 Aero Center	8	9 VE Test SCARS
10	11 EARC	12	13	14 Altus Cimmaron	15 EARS	16 VHF Club Sat. VE Tst
17 Wheatstraw	18 VE Tst	19 OCAPA	20	21	22	23
24 United Nations Day 	25	26 CORA	27 C&E Edit	28	29	30