

Collector & Emitter

Central Oklahoma Radio
Amateurs, Inc. Publication

May 1999
Volume 25, Number 5
Issue 291
75¢

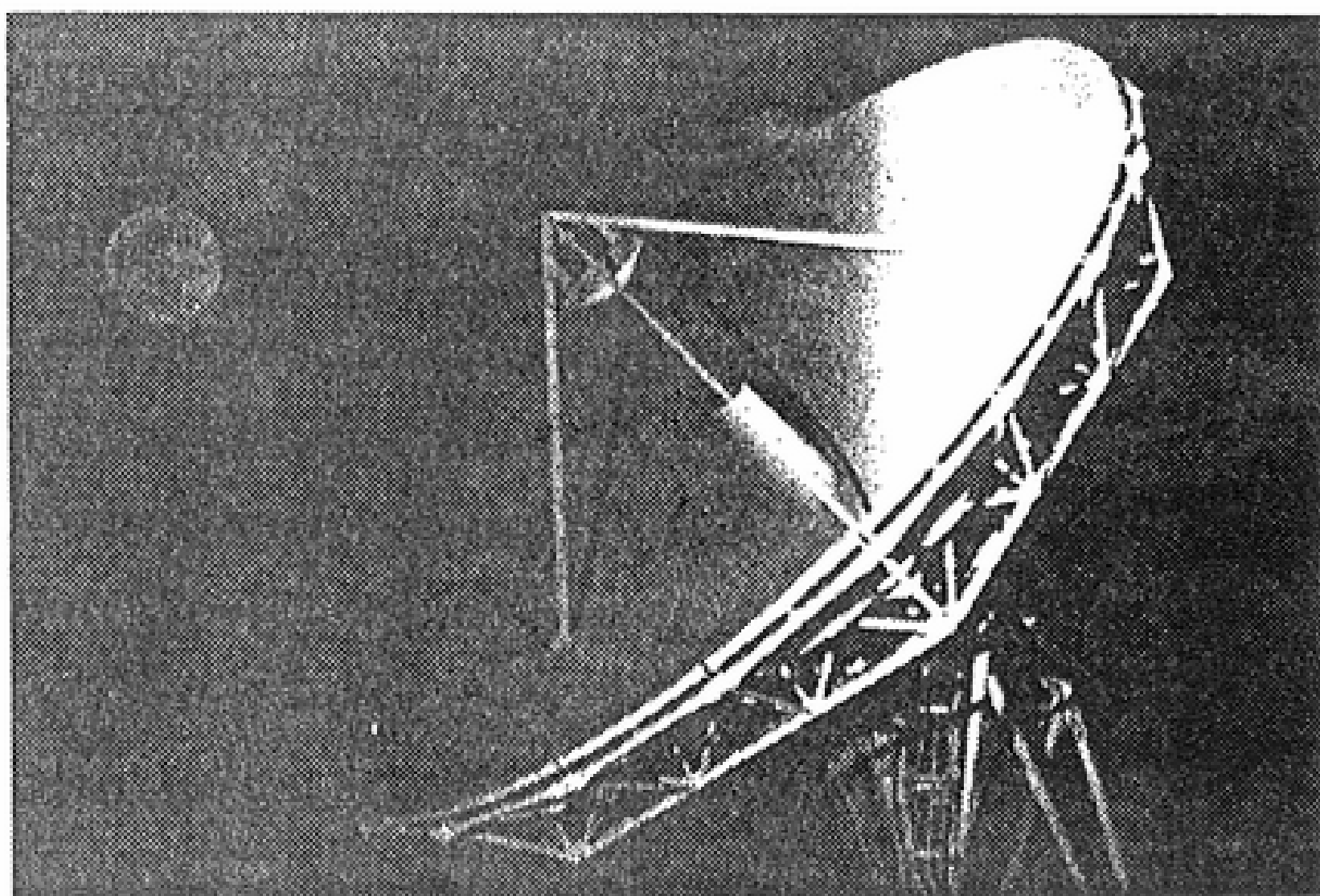
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Kosovo and Ham Radio

OKC Street/Lat Long Chart

Collector & Emitter**Harold C. Miller, KB1ZQ****Editor****Linda G. Miller, N1LPN****Circulation Manager****Central Oklahoma Radio****Amateurs, Inc.****President: Harold Miller, KB1ZQ****V Pres.: Tom Webb, WA9AFM****Secretary: Forrest Rush, N5VWF****Treasurer: Perry Jenkins, N5PJ****Web Page –****www.geocities.com/heartland/7332**

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May 1999**VOL. 25, No 5, Issue 291****Collector and Emitter**
(USPS 116-150)

is published monthly by CORA, Inc. 4216 Spiva Drive Del City, OK 73115-4424. Periodical postage paid at Oklahoma City, OK. 73125

Subscription rates:

CORA Associate \$4.80 per year

Paid subscription \$9.00 per year

Postmaster:**Send address changes to;****Collector and Emitter****P. O. Box 95942****Oklahoma City, OK 73143-5942**

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6. Altus Area Amateur Radio Assn. Meets: 1900L 2nd Thursday, Southwest Area Vo-Tech Center, 711 W Tamarack Altus, OK Pres.: James Molledahl, AB5FS VP: George Mateyko, N1GM 580-266-3357 Sec: Ron Roman, KD5CYW 580-482-8446 Treas.: Fred Cramer, KC5SRJ Editor: Ron Roman, KD5CYW 580-482-8446	16. Broken Arrow ARC Meets: 1830L, 1st Monday, Broken Arrow Community Center, 1500 S. Main, Broken Arrow, OK Pres.: Wayne Hartsfield, KK5AT 918-357-2139 VP: Joe Horn, KC5VPO 918-451-0028 Sec: Jerry Pascal, KC5JKU 918-455-6514 Tr: Harlan Kinney, K9GDK 918-251-2672 E-mail: w5bbs@juno.com
7. Enid Amateur Radio Club Meets: 1900L 4th Thursday, Enid/Garfield County Public Library, Enid, OK Pres.: John Turner, KA7GLA 580-242-6802 VP: Dwayne Posey, KC5QVS 580-237-3218 Sec: Dave Chael, KC5GUD 580-242-3445 Treas.: Bill Wehling, KC5OKG 580-233-5022 Editor: Dick Stricker, NJ5S 580-233-9869	17. Ada Amateur Radio Club Meets: 0900L, 1st Saturday, Salvation Army Bldg 115 N. Oak St., Ada, OK Pres.: Scott Renes, KD5AJL 436-1369 VP: Charles Eiter, KC5TGA Sec: Danny Coffey, KM5LB 436-1271 Tr: Finis Hallmark, KC5YGB 384-5470
8. Choctaw Amateur Radio Club Meets: 1900L 3rd Monday, Eastern Oklahoma Co. Vo Tech, 4601 N. Choctaw Rd, Choctaw, OK Pres.: Dave Downing, WD5G VP: Don McDown, N5ENQ Sec: Jim Harper, Treas.: Ron Ernest, WB9DAF 769-3207 Editor:	18. Lawton Fort Sill ARC Meets: 1900L 1 st Tuesday, Great Plains Area Vo-Tech room 301, Worley Center. Pres.: Terry Oates, KB5IYB 580-492-5743 VP: Mark Ewell, KC5IZN 580-536-2777 Sec/Tr.: Danita Haney, KC5YYU 580-549-6817 E-mail: w5ks@rli.net
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10. Oklahoma DX Association Meets: Hamfests and as announced in C&E. Pres.: Bruce Burnette, K5PX 918-455-2599 VP: Lu Fisher, K5YP 580-254-5641 VP: Jerry Chouninard, K5YAA 918-341-2659 Sec/Tr.: Mark Byard, N5OG 580-762-1966 Editor: Nelson Derks, KC5QVV 918-451-1594	Central Oklahoma Radio Amateurs Meets: 1930L, 4th Tuesday, Salvation Army Bldg NW 50th and Penn, OKC (BackDoor) Pres.: Harold Miller, KB1ZQ 672-7735 VP: Tom Webb, WA9AFM 737-6716 Sec: Forrest Rush, N5VWF 842-8486 Treas.: Perry Jenkins, N5PJ 354-5075 Editor: Harold Miller, KB1ZQ 672-7735 E-mail: n1lpn@swbell.net

Deadline for June, 1999 Issue of *Collector and Emitter* is Friday, May 28, 1999. Send all Articles to *Collector and Emitter*, 4216 Spiva Drive Del City, OK 73115-4424 on 3 1/2 inch floppy or e-mail to n1lpn@swbell.net. Articles received after the deadline may not be printed that month. Questions please do not hesitate to call - 405-672-7735 / 405-650-9963.

Chit-Chat

By Linda N1LPN

Y2K: It will soon be here...

Hams are known for not pushing the panic button in times of a crisis. They are also known for being level headed and ready for any situation. Well, for the past few years, the news media has been telling the public we are in for a rude awakening come 1 January 2000, simply referred to as Y2K. Depending on whom you wish to believe, anything can happen which could have a direct impact on our everyday lives.

What is Y2K and why should you give it a second thought? Well, about 30 years ago, when computers were being introduced to the world, they found out it saved time and space by entering dates using the last 2 digits to record the year instead of entering the full 4 digits. At the time they were only worried about years in the 1900 range. These computers were huge. One computer would require a whole floor to itself and sometimes a whole building. No one thought about what might happen down the road, many felt computers would never go far due to their size and the amount of room they required. Most of the individuals who wrote the programs are now retired or no longer alive. At the time, their knowledge was common and the new guy was supposed to know how things were put together. Everyone forgot about how the computers were programmed and thought everything was fine. They were wrong.

Computers caught on, were improved and in great demand. They were the future. Computers made life easier for every aspect of our lives. With all the improvements made over the past 30 years, no one thought about the way dates were entered into the systems. Someone noticed a few years ago. The problem is computers were programmed to recognize the date of the year as being 19--. When the year changes to 20--, most computers will think it is really 1900 and that is what is being called the Y2K Bug or scare. The truth is things will be a mess if the computers are not reprogrammed to handle the year 2000. All of the data and tasks these machines are programmed to do will crash because they will be confused. There are very few people who have the skill or knowledge to reprogram these computers. Almost everything today is ran by

computers and if they crash so will most of the everyday things we take for granted.

We assume the government would never allow our world to come crashing around our ears but they are not all-powerful and knowing. We have become too dependent on government to make things right. The rest of the world is now facing this same problem. From recent reports, they are not sure to what extent this problem will reach. Depending on the computer system, costs of bringing it into Y2K compliance can run into millions of dollars. Another problem is that once a computer system is Y2K ready, will it still be able to link with other systems. Computers talk to each other and if they are incompatible they can't. Computer systems that have been made Y2K ready are trying now to find out if their systems are compatible with other ones by running tests in hopes they have their system fixed. Many cities, businesses and small towns bought their computers years ago and due to federal cut backs on funding, many do not have the money to upgrade or de-bug their systems. There are others who don't think there will be a problem and the panic is groundless.

I don't know whom to believe anymore but I am not one to gamble on the unknown. Growing up I was taught to be ready for anything that might happen. It was much wiser to be prepared than not to be and regret not doing so. My parents always had at least 3 weeks worth of emergency rations on hand. We had extra blankets, oil lamps, candles, a camp stove and sleeping bags just in case they were ever needed. We always had gallon bottled water stored in the back of our closets. We were not what is called today 'survivalists' but dad made sure if anything did happen, his family would be taken care of. It is not any different than setting aside money for a rainy day or putting funds into an IRA account.

I have started my own little poll by asking our utility companies if their systems are Y2K compatible. So far our gas company states they are, our phone company is in the progress, electric company states they are, and water is not sure, they are working on it. I asked where we bought gasoline and they are working on it. I asked at our favorite Chinese takeout place and they had no idea what I was talking about. Credit Cards may not work after the year 2000 depending on the place you try to use

it at. In fact some people are facing that problem now with attempting to use a card that expiration date is past 1999. I did ask our bank if they were ready for Y2K and was told Yes!

What it finally comes down to is do we believe them and trust everything is under control. Do we just sit back and wait and see what happens? While we are waiting like good little sheep, what would it hurt if we all made sure we were prepared for the worse come 1 January 2000? If it doesn't happen, great, you have extra food on hand in case of bad weather and you won't have to go to the store. Buy a little at a time until you're stocked up for at least 3 weeks or more. Be sure to check expiration dates on all packages and call the company if there is no expiration date.

Most experts are saying 'if' the worse does happen it will take maybe a week to ten days before help comes. Others are saying it could be as long as 3 months before things were put back on track. Some groups are saying it may take up to a year before everything is back on track worldwide. The National Guard, military reserve units and regular military are also being briefed about a possible Y2K disaster. I would never have written this article, giving people the idea I was trying to become 'Chicken Little', if I had not been told about three different states getting their forces ready for a possible Y2K disaster. Their actions made me take notice. Why would they be getting troops ready for something there was nothing to worry about?

The Federal Emergency Management Agency, FEMA, has a website set up for Y2K. It is <http://www.fema.gov/y2k>

The President's Council on Year 2000 has a toll free number set up to provide consumers with information about the Y2K Computer problem. It is 1-800-USA-4-Y2K.

The American Red Cross has published a special pamphlet covering Y2K, "Y2K What you should Know." They also have three other pamphlets that are a must to have. They are "Your Family Disaster Supply Kit," "Emergency Preparedness Checklist," and "Food & Water in an Emergency." You can call your local Red Cross and request these pamphlets or stop by and pick up your copies in person.

I am not trying to tell you the sky will fall nor am I trying to scare anyone. Look at it the same way my dad does, it is better to be prepared than left out in the cold. The word "if" and phrase, "no one knows what will happen until it happens," do not give me any comfort or assurance everything will be okay. I pray this Y2K scare is just that, a scare. The problem is I am unwilling to gamble on the safety and well being of my family. Are you?

They are offering 'Prizes' and getting away with it...

My phone rings every Monday after some group has held a Hamfest and had given away 'door prizes.' The person wants to know why we have taken the stand not to do the same at our hamfest. Well, I got tired of having to defend a law I personally feel is stupid and called Mr Neal Leader and asked him the same question I keep getting asked.

It seems the law is very real. The way they enforce the law is on the 'snitch policy.' If any law abiding citizen knows of an organization or group violating the state Lottery/Raffle Laws, it is their duty to report the violators to the Oklahoma State Attorney General's Office. If no one reports drawings being held at an event, they get away with breaking the law. It is our duty to report those who break the law, we must keep gambling and lawlessness out of our righteous state of Oklahoma.

In the 3rd grade my teacher did not take kindly to people telling on others breaking the classroom rules. She was a very strong believer in minding ones own business. Tattle-tellers were punished by having to write lines. I can still remember the line we had to write too. "Thou shall not tell on one another. The one breaking the rules will be caught without your help."

I do not think everyone had a teacher like I did and there are individuals we must be fearful of if we knowingly break the state law concerning raffles and lotteries. Any hamfest or organization who holds door prize drawings in the state of Oklahoma are taking a gamble that everyone who attends their show are dishonest enough not to make that one call and report a felony being committed. It takes just one law abiding individual or someone who has it out for your organization and all of the officers and board members will be

brought up on felony charges. Fines as well as prison time can be something you can look forward to if that one call is made. There is no out, the law is very clear.

I will not make that call and report all of those individual hamfests that refuse to take the law seriously. But I am just one person and it is just a matter of time before someone turns your group in. I do not believe the state lottery/raffle law is reasonable but I will obey it all the same. Our state representatives are attempting to make exceptions to this law but it is an uphill battle.

Many politically powerful people are attempting to kill Bill 671. I have been told that it is the peoples' will that we keep Raffles and Lotteries out of our state. I have been told our representatives are only doing what the people want. I have been told that if Bill 671 is passed, Oklahoma will become a Gambling State and with that comes crime. What do you call horse racing and betting at the track? Let me guess a business and it is very legal in this state. Bill 671 is written to give non-profit organizations the right to hold drawings, limiting the number of times per year with a spending cap of \$2,500.00 as the prize. How anyone can read more into that bill, I have no idea. It is straightforward and the limitations are spelled out, making it clear for all.

Fear, rumors and misinformation is what may kill it and we will all suffer for it. As I was taught back in grade school, "Thou shall not tell on one another. The one breaking the rules will be caught without your help!" and I need to add, "Unless you happen to be in Oklahoma, thou must tattle tell for a law to be enforced!"

Lets all work together and have Bill 671 made into law, and regain our freedom to hold drawings and raffles as fundraisers. Call and write you representative today.

Until next month...

Ham Holiday to give away Prizes?

It is up to the clubs but we have found a way to give away prizes at Ham Holiday 1999 and still be within the law. The suggestion came from Mr Neal Leader of the Oklahoma State Attorney General office. We must eliminate one of the three elements that are required for something to

be called a raffle/lottery by this state. At the last CORA meeting it was presented which element we could do away with.

We can give away prizes but there will be no tickets or drawings held to do so. We will be removing the Element of Chance and will therefore be operating within the law. Again, I went to the top, the OK Attorney General's Office and was given this solution to our problem. Wonder how we can give away prizes without having to draw for them?

We test your knowledge, find the youngest and oldest ham, and have an old fashion 'Lets Make A Deal' ham style. No tickets, no drawings, just skill, knowledge and a bit of trading and we give away prizes to those who meet the challenge. Ties will have a sudden death round, questions about our hobby. The more you know, the more you can show off to others your skill and earn something too.

The 'trading' part can be loosely based on the old TV game show 'Lets Make A Deal.' I remember when the host of the show would ask if anyone had an apple with them, the first person to hand him an apple got the prize. He asked for some pretty strange items too and it was fun to see if anyone had the item to trade him. I just gave out a big hint here. Ladies, you will not be left out of the fun this year.

Another idea was to hold an old fashion Scavenger Hunt. The dealers as well as the fleamarket would be involved. The ideas flowed and were taken back to the clubs to vote on and add to the suggestions before the board's final vote on this very important issue.

If they vote Yes, I suggest you start brushing up on your skills and plan on joining us for some fun at Ham Holiday 1999.

Covertly employed by a government agency with no name, issued an international license with no restrictions, and sworn to achieve one goal: The exploration and understanding of the most extreme fringes of communications technology. You can join the adventures of Doug Xander, perhaps the most technically adept Radio Amateur in the world, by reading:

D'X FILES

Episode Eight: I Don't Think This Will Count Toward DXCC... Part Deux

Continued from Episode Seven (Part One)

Xander believed he needed to develop an ability to arrange the signal into some level of coherence, or start with a less demanding data segment. In any case, he struggled to clear his mind for a moment. If he could just relax long enough to listen instead of analyzing the signal... His mind drifted for a moment, then he could feel a strong sensation of intense heat on the back of his neck. The massive amount of data had caused the laser array to run hot and he had no interest in becoming a Redneck...

"...he realized this could be a historic moment... Would one small step for Xander become one giant leap for Amateur Radio?"

After quickly removing the interface, he took a moment to consider his options. While he had made some progress, it was painfully obvious there was room for improvement as the back of his neck grew tender to the touch. Xander needed a better understanding of the concept at play if he was to design a more effective neural interface. Since he could detect fragments of images by simply watching the data stream on a video monitor, there must be another way. The data could be coupling optically or through the magnetic fields of the flyback and CRT yoke assemblies...

Of Course! Magnetic coupling had the potential advantage of diversity while the original laser diode patch was a singular point of contact. If a magnetic array could offer a 360 degree horizon, the first design was like peering through a knothole. No wonder he'd experienced such a jumble of fragmented impressions; he was relying on a narrow path to display what could be broad-field 3-D modulation.

He designed a matrixed array of wideband magnetic transducers bonded to a flexible substrate that could be formed into the liner of a bicycle helmet. Anticipating the broadband nature of the signals, Xander optimized the coils for superior bandwidth by using Iridium sintered Meitnerium #42 AWG enameled wire wound on a conical cross-helix 'DNA' coil form of Rhenium oxide and Ununnilium borate in a 72:13 mix. After a quick calculation or two, he determined that 1,024 transducers would be capable of fully describing one byte of telepathic data. But questions remained about the signal orientation... Since there was no easy way to determine which data bits comprised the front, back, left or right, if directional components were encoded into the signal, he'd have to test this by chance. No doubt it would be a tedious but necessary part of the process.

As he was soldering each element to the flexible substrate, he wondered if he was over-complicating the process. It's easy to assume a false premise in what could be a technique so advanced it becomes simple to execute. Xander decided to sweep the transducers from front to back as this would be the most likely direction of sensory travel. But should the pattern run left to right, or right to left...? Sometimes Xander thought too much. If the direction components were wrong, he could reverse the scan in software.

As the final wisp of rosin smoke rose slowly from the last transducer, he began double checking the wiring harness for polarity and phase. As a safety precaution, he placed the helmet on an array of four elliptical coils connected to a freshly calibrated quad trace dual beam storage oscilloscope for testing. This would allow a quick check of transducer amplitude and

phase with limited risk of repeating the Redneck Effect still fresh in his mind.

A few moments after connecting the array controller to a nearby workstation, Xander observed finely detailed patterns induced into the test coil assembly that indicated proper symmetry and phasing of the elements... However, a sweep pattern through the matrix showed several of the transducers had failed, with more being added by each successive sweep. Double-checking his power calculations, Xander found his design was well within the duty cycle and power ratings of the circuit with a generous margin for overload. Atomic analysis of the materials revealed trace elements of Kevorkium in the wire. No doubt this accounted for the premature failures. A quick re-winding of the failed transducers with a protective coating of High Reliability Component Spray quickly restored proper operation.

As he strapped the helmet to his head for the first time, he realized this could be a historic moment... Would one small step for Xander become one giant leap for Amateur Radio...? He clicked an icon on the computer to transfer a short sequence of data gathered during the early morning event to the neural interface...

Immediately... As if a cerebral switch had been flipped, his senses were replaced by the signals within the helmet... Vivid, detailed images of remarkable clarity and coherence accompanied by full support of all five senses, it was as if he was standing in front of a sophisticated control panel filled with a plethora of indicators, all labeled with characters unlike anything he'd seen before. But, for some incredible and impossible reason, he was able to read and understand the function of each display. It was incredibly *REAL*...

It was as if his mind was patched into another mind. Apparently his theory had been correct... The signals were indeed mental telepathy and the current results were far beyond his most optimistic expectations. Not only was he sharing the experience of a distant event, but the meaning of it as his surrogate host gazed across the control panel and relayed the flight progress and status of four very large craft... All without saying a word.

“ Most Amateurs would know when to throw in the towel, most Amateurs would know when they'd reached their limits, but most Amateurs hadn't come as far as Xander... ”

A moment later the file ended and Xander switched back to reality. Or, should we say, his default reality? The experience was so vivid that at times it was difficult to decide which was more 'real'. He knew that in this reality he had control of his actions, in the other reality he was an enlightened observer. In either case, it was a profound experience somewhat difficult to fully comprehend... He checked the helmet transducers for excessive heat and found none. The design had worked well, and now was the time to analyze as much of the data as possible. He had a receiver!

Xander pulled up files from his archives and reviewed them through the neural interface, cataloging in detail the content in hopes he could find a sequence to tell more of the story. After several days, his studies crystallized into a Blinding Flash of Inspiration he could hardly believe...

Yes, there is a subterranean civilization, and it is far older and well advanced beyond our own. Highly sophisticated in their technology, they operate at a level that demands the full attention of anyone trying to comprehend their techniques. Xander monitored them in real time with every waking hour, constantly tuning the impedance bands to learn as much as possible... He was amazed at the diversity of the transmitted data. Was he seeing an accurate representation of their society? There was no way he could know for sure, but two things were certain: Do they have

Ham Bands? YES !!! Do they have a Citizen's Band Service? NO !!! After all, they are an Advanced Civilization...

As the days rolled into weeks and beyond, his knowledge grew exponentially. But one question remained unanswered: What were the four large craft he had observed? A few days later, he would stumble across a data channel that revealed the answer...

As you can imagine, life below ground would naturally tend to restrain a growing population. With intelligence well beyond our own, it's not hard to understand that many of their citizens would welcome an opportunity to travel the cosmos and explore the farthest reaches of the universe. As best he could tell, the four large craft were vehicles of colonization...

Flying cities large enough to sustain the lives of both man and beast without the limits of cramped quarters, it was entirely feasible for the explorers to live full lives for generations on end. With adequate stores of food and supplies they could study the planets for decades. By sharing their discoveries telepathically, they could extend their adventures far afield without being isolated from their most talented scientists. The advanced communications technology is a valuable asset whenever a permanent colony is established.

Despite the fascinating content, Xander grew restless with SWL'ing the flux... It was no match for the joy the first QSO would bring. Although he had designed a neural receiver, he realized he still had no concrete idea of how the data stream was created. Adding full transceiver capability would be an even greater challenge.

Most Amateurs would know when to throw in the towel, most Amateurs would know when they'd reached their limits, but most Amateurs hadn't come as far as Xander. He focused his entire intellect on the task of building the first neural transceiver, and a finer mind for the task would be hard to find...

Xander needed to master the technique of capturing cogent thought. While it's easy to measure the electrical activity of the nervous system using medical equipment, he must go beyond this... He was after

the essence of sensory reality. A neural receiver is an easy build compared to a flux impedance transmitter modulated by mental telepathy. No doubt he'd be wise to begin his studies using a source of limited mental capacity. At that moment, the cat strolled into the room...

Repeating his earlier experiment, Xander wired the cat to establish a telepathic link, then isolated each signal component to determine its significance. Within a few hours he had a working theory. Building on this foundation, it was only a matter of days until he was modulating a local flux field with images from the cats' mind.

With rising anticipation of becoming the first Ham to QSO our ancient relatives, he began design work on a fully shielded neural transceiver interface. The potential for telepathic feedback was significant and a problem he needed to avoid at all costs. The T/R switching arrangement would be complicated, but if this design proved successful, he'd attempt full cerebral VOX operation in the next version...

After testing the helmet, he modified the control software for bi-directional data transfer. Checking his work one last time, he reached for the helmet and fired up the neural transmitter. As he tuned the flux he was soon receiving images from what he believed was a Ham band... He waited for a pause in a QSO, then clicked the workstation mouse to switch into transmit...

In a moment that could change the history of communications as we will know it in the next millenium, a software bug caused the full content of his mind, the complete essence of Doug Xander, to be 'Moved' onto the flux instead of just 'Copied'... Xander's consciousness was now hurtling through the flux toward a destination unknown while his lifeless body remained at the console, a hollow shell that once...

To Be Continued

The QSO is out there.

Contents Copyright 1998-1999
by Nelson Derks – KC5QVV
“ Illegitimus Non Carborundum
Ipso Facto “

Ada Amateur Radio Club

The regular first Saturday meeting was moved to the 10th of April because of the Easter Holiday, Scott, KD5AJL, called the meeting to order at 09:10 Local with 9 members in attendance. Some of our members were attending a weather school in Tulsa, on the Emwin system that hopefully will soon be installed. Two Motorola Mitrek radios were located for the system and are being checked out by Mason, WT5X.

The financial report was passed around to the members and approved as presented.

Old business:

It was brought to our attention that Dale Booker had passed away on March the 2nd. Also it was pointed out that the 147.150 is down right now and the 145.230 machine in the Arbuckle area is still not working with the weather link.

In other business Charles, KC5TGA found a Salvation Army Campgrounds retreat and training session on the 14 - 15 - 16 of May with the 15th being the big day, the use of the camp is free, For further info contact Charles.

We were also informed of the availability of some free 7/8" hard-line and connectors after a vote on whether to go after the line or have it shipped. Charles, KC5TGA and Scott, KD5AJL went to Chelsea on the 18th and brought back several hundred feet of hard-line and connectors. This will be helpful to the club machine and to our local Emergency Operations Center. We can now redo our antennas at the Salvation Army Headquarters here in Ada.

We also had some discussion of our upcoming Field Day operations and we are starting our preparations and registration. The meeting was adjourned at 09:50 Local and a test session was held afterwards. We want to wish all of you a happy and safe summer.

Danny Coffey, KM5LB
Club Secretary

Helpline

This is a supposedly a true story from the WordPerfect helpline. The helpdesk employee was fired. Actual dialogue cited as reason for her firing follows:

Employee: 'Ridge Hall computer assistant; may I help you?'

Caller: 'Yes, well, I'm having trouble with WordPerfect.'

'What sort of trouble?'

'Well, I was just typing along, and all of a sudden the words went away.'

'Went away?'

'They disappeared.'

'Hmm. So what does your screen look like now?'

'Nothing.'

'Nothing?'

'It's blank; it won't accept anything when I type.'

'Are you still in WordPerfect, or did you get out?'

'How do I tell?'

'Can you see the C: prompt on the screen?'

'What's a sea-prompt?'

'Never mind. Can you move the cursor around on the screen?'

'There isn't any cursor: I told you, it won't accept anything I type.'

'Does your monitor have a power indicator?'

'What's a monitor?'

'It's the thing with the screen on it that looks like a TV. Does it have a little light that tells you when it's on?'

'I don't know.'

'Well, then look on the back of the monitor and find where the power cord goes into it. Can you see that?'

'Yes, I think so.'

'Great. Follow the cord to the plug, and tell me if it's plugged into the wall.'

'Yes, it is.'

'When you were behind the monitor, did you notice that there were two cables plugged into the back of it, not just one?'

'No.'

'Well, there are. I need you to look back there again and find the other cable.'

'Okay, here it is.'

'Follow it for me, and tell me if it's plugged securely into the back of your computer.'

'I can't reach.'

'Uh huh. Well, can you see if it is?'

'No.'

'Even if you maybe put your knee on something and lean way over?'

'Oh, it's not because I don't have the right angle - it's because it's dark.'

'Dark?'

'Yes - the office light is off, and the only light I have is coming in from the window.'

'Well, turn on the office light then.'

'I can't.'

'No? Why not?'

'Because there's a power outage.'

'A power... A power outage? Aha! Okay, we've got it licked now. Do you still have the boxes and manuals and packing stuff your computer came in?'

'Well, yes, I keep them in the closet.'

'Good. Go get them, and unplug your system and pack it up just like it was when you got it. Then take it back to the store you bought it from.'

'Really? Is it that bad?'

'Yes, I'm afraid it is.'

'Well, all right then, I suppose. What do I tell them?'

'Tell them you're too stupid to own a computer.'



Broken Arrow Amateur Radio Club

April meeting minutes

Minutes of the Fourth Meeting of the Broken Arrow Amateur Radio Club for 1999

The meeting was called to order by President Wayne Hartsfield, KK5AT at 6:32 PM. Introductions were done of all persons present.

OFFICERS REPORTS:

The Treasure's report was read by Harlan Kinny and approved by the club membership.

The Secretary reported that there were no minutes from the March meeting. The March meeting was the weather seminar.

COMMITTEE REPORTS:

VE Report – there were 5 tests given, 2 general upgrades were attained and 1 Tech plus.

Engineering report – Jeff Scoville is working on a packet / APRS system at the EOC. This will be a great assist to the EOC during storm activation events.

Packet Report – Mike indicates all is working well. W5BBS BB is back up and running on 145.03 and 145.05.

AARES: No Report

Other reports – Jeff is looking for anyone that can assist in posting the daily weather outlook. He can do it most of the time, but when he's out of town he's looking for anyone to assist. If you are interested, contact Jeff Scoville, KC5RTH.

The Tulsa hamfest was deemed very successful and each of the members that helped during the two-day event was

recognized. Frank, W5TDL did an outstanding job of coordinating schedules. Thanks Frank – without your work on this, it would not have been as successful.

OLD BUSINESS/NEW BUSINESS:

– None reported.

President's Comments:

There is a joint project going on with the TRO and BAARC to install a UHF machine. Additional details will follow to let our club membership know what's going on with this project.

We're looking for anyone interested in helping to build some rollup J-pole antennas. This may help new members get on the air and especially those that may be in an apartment complex where outside antennas would be a problem to install. Don, AC5II volunteered to lead this project and will gratefully accept any assistance and if you have any twin lead you don't need, contact Don. Don suggested that Rooster Days might be a place to do some of this activity.

Rooster day is coming up in May so Wayne was looking for anyone interested in coordinating a special event station for the celebration. After much debate – or silence, Vahid, KD5FVL volunteered to be the coordinator. He's never done anything like this and would appreciate any assistance from anyone that is willing to help – especially those of you that may have done this before.

Wayne noted that there would be a hamfest in Joplin on April 17, 1999.

Wayne reported that he and Steve Bradley, KB5ZSD (acting Emergency Management Coordinator) were developing Emergency Communications Procedures. Every member of BAARC will get a copy of this info.

Member's Comments:

Recommendation from Lou – to create an honor / certificate for Preacher Ray as he was a founding

member of the Broken Arrow Amateur Radio Club.

Guy Richie noted that the April issue of Trailer Life Magazine featured commercial weather pager information (by Accu-Weather). Guy suggested that BAARC check to make certain that we are not in competition with our weather paging system. Wayne pointed out that the BAARC system is a no-fee community service system and not in competition with commercial systems.

CTO. New members recognized: Don Harris, N5YDJ; William Gwin, KC5SFB; Craig Pitts, KC5XXT; J. R. Wilson, KC5FCD; Roger L. Matthews, KD5EMG; Jerry Burrow, KD5GUC

A slide and lecture program was presented by Wayne Hartsfield about standard operating procedures for the Amateur Bands.

Program Completed. General Discussion of all topics.

Meeting Adjourned

There were a total of 33 people present for the meeting.

Submitted by,

Gerry Paschal, KC5JKU

New Harmonic @ Scoville Household

Jeff KC5RTH & Tonia Scoville are pleased to announce the birth of their baby boy, Nicolas Ian, born at 1:09 PM on March 29, 1999. He weighed in at 8 lbs. 9oz. And was 20.5" long. Our congratulations to Jeff & Tonia!



Rooster Day 1999

Unfortunately, we will not be doing this event for what would have been the sixth straight year. After Vahid had to step down as the event chairperson, none else stepped forward to "make it happen". Unfortunately, this means that several of the newer hams in our club will lose out on the opportunity to work HF and find out what it's all about. Remember, we ALL work together to make the club a success!

Field Day 1999

Unless we want Field Day 1999 to go by the wayside like Rooster Day, we need to get on the ball! Call Wayne, KK5AT at 357-2139 or send an email to kk5at@juno.com if you'd like to chair or help out with this annual event.

Looking for Articles

Have an article? Have an idea for an article? Send it to w5bbs@qsl.net or give Jeff a call at 251-0132 (if Jeff's not around, leave a message). As always, contributions to the BAARC section of the CORA newsletter are welcome!

Packet BBS Update

Both sides of the W5BBS are up and running (145.03 and 145.05 MHz). We're running a new BBS software package called WINFBB. It's windows based and has many more features than the old DOS-based MSYS. Check it out!

Questions about APRS?

If you have any questions about how to set up an APRS station, contact Jeff Scoville, KC5RTH at w5bbs@qsl.net or via phone at 251-0132. Interest in APRS has been steadily growing since the APRS seminar in Tulsa last month. New stations are literally showing up on the air every day in Northeast Oklahoma every day.

If you'd like a taste of APRS without setting a full-blown station up, check out <http://www.aprs.net> on the internet. It will load Java-based APRS software and plot

SWAP & TRADE

K5FRI, Tom, is looking for an operating manual for an Alinco DR-120. He can be reached at 918-486-4811.

VE Testing is held the first Saturday of each month at the Church of Christ, 811 N. 4th St., Broken Arrow. Starts at 9:30 AM and lasts until everyone is finished. New hams and upgrades are welcome.

If you want to list one or more items for SWAP or TRADE in this newsletter, you may contact any a club officer, the editor, or the net control operator on the regularly scheduled Swap and Trade Nets, which are held every Monday at 8:00 PM on the BA repeater, 146.910 MHz.

Help! I'm Looking For My Dad

Hello Dave!

I just visited your clubs web site. Very informative. You can expect me as a regular visitor. That may sound funny seeing how I reside in Concord, CA which is about 30 miles east of San Francisco. Actually, there is a good reason for it. You see, as a child, we lived in and around Tulsa until about 1959 and I loved living in the area.

Anyway, I am the type of guy that likes to sit down and read a good book. The problem is my definition of a good book is a technical article in a magazine or a technical manual rather than a novel. Well, one day several years ago, I was down town and walked by a ham store. Being interested in electronics, I sneaked away from the XYL for a few minutes to check it out. I happened to pick up a QST and it looked like what I might enjoy reading during my commute. Then it happened! I read about the upcoming Vanity Call Sign Program being offered by the FCC. Hmmm...I wondered if it would be interesting to see if I could get my Dad's old call. Now I had no interest in becoming a ham, I just wanted to get the call. You see, my Dad (William M. "Bill" Prater) became a silent key in the late 70's. I thought it would be nice just to have the call and maybe sometime, pass it along to my son.

The next day, back to the ham store and I picked up a copy of "Now You're Talking" and this became my commute literature for the next week. The following weekend, I had the XYL ask me questions for a couple of hours. Well, seems like I "might" be able to pass this thing. So, I

hopped into my truck and down to the testing site. What a surprise! I passed! Now what? I knew it would be about 3 weeks until my new ticket arrived. Now keep in mind, I had no interest in becoming a ham. I just wanted the call sign. You see, I didn't know that this stuff spreads faster than a cancer!!! It took about 2 days and I was found back down at the ham store picking out a new HT (Just to keep me busy learning something until the ticket came). I had this thing down pat by the time the postman came and on the air I went. (Things in Northern California just hasn't been the same since)

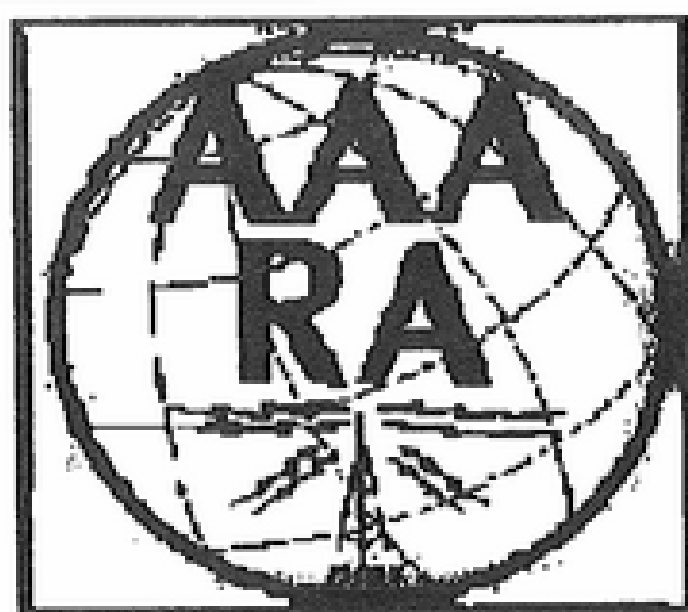
Since then, I have a hat with my call on it. My truck has my call on the license plate. My web site is at <http://www.w5blt.com>. My email address is w5blt@w5blt.com. Get the idea?

Which brings me to the reason for my email to you. The thing that I don't have is any old QSL's or information on my (and my Dad's) call from the early years. I'm hoping that you might be able to get a small paragraph in your newsletter or a word for me in one of your meetings about my search. I thought, maybe, one of the old timers in the hobby may remember, have or know who may have some information on my call.

Thanks for taking the time to trudge through this, but, I thought without some of the history, the request just wouldn't seem important. I would appreciate any help you or the hams in the Tulsa area clubs may be able to send my way. You are welcome to make public any part or all of this email as you see fit.

73,
Bob Prater, W5BLT





Altus Area Amateur Radio Association

Altus Hamfest and Electronics Show 99
Altus Oklahoma Community Center
401 Falcon Road
Altus Oklahoma 73521

Saturday, July 17, 1999 8:00 am to 4:00 PM

Our Hamfest 99 Committee has been busy scheduling facilities and gathering up vendors for our 1999 Altus Oklahoma Hamfest and Electronics Show. In addition to both new and used hamgear, we plan to have vendors with a wide variety of new and used computer equipment for packet and other uses around your shack. Wouldn't it be nice to pick up necessary equipment to put together your "packet or Amtor station?" The two technologies are now inseparably tied together, so this addition to our regular assortment of "pieces and parts" is a natural addition.

We are planning to have live music at the event (if you ask, I bet they will play "Red River Valley" for you), as well as a catered barbecue luncheon for those who are inclined to eat (as most of us are). The chow prices will be quite reasonable and first quality vittles.

As usual, we try to give you the best show at the most reasonable cost. We are actively pursuing retail vendors for our show as well as the ham with the hankering to sell some of his many treasures. We have commitments from some local Altus vendors and are actively seeking other vendors in the areas of hats and badges, ham radio equipment, QSL cards, and anything else you would find appealing.

We know that serving on a committee sometimes feels like a "thankless" task,

but it is all worth while when the event finally comes together. We know you will enjoy attending our Hamfest as much as we enjoy presenting it to you.

Registration will be available at the door for \$6.00 per person. Pre-Registration is available at a discount, it would be to your advantage. (More info as it becomes available)

The pre-registration costs are: Hams: \$5.00, Non-Hams: \$4.00, Vendor/Fleamarket Tables: \$6.00 ea (special: buy 2 tables, get a third for free!)

To Pre-Register, please send names and call signs (if any), address and phone number, along with a check or money order (for the fees listed above) to:

Altus Area Amateur Radio Association
PO Box 8863
Altus, OK 73521
Attn: Hamfest Registration

For more information (including a schedule of events and a pre-enrollment form) visit our special Hamfest 99 Webpage at:
www.qsl.net/aaara/hamfest99.html

April Minutes

Meeting held at 711 W Tamarack Rd. Altus, OK 8 April 1999 Meeting called to order at 7:15 PM. by James, AB5FS.

Intro.'s- Done, 14 attended.

Last months Minutes - Read, voted and approved

Treasurer's Report - Read, voted and approved

Old Business:

Red Cross Van - It is at George's, NIGM House. It will be moved to the Vo-Tech for the front end work it needs. Also still looking for a Donation of an A/C unit. We found a source for Wheels and Tires.

Club UHF Repeater, needs a second Antenna and some coax to get it near running stage. The Club Voted and Approved Funds for this, any remainder will go back to the club funds. * Still in work *

MARS Radio was discussed, there is a new VHF repeater in the works for Altus AFB, and time frame of going "On the Air" had not been given. Still in need of 100' of Hard Line, or a good Coax cable. MARS had done away with the CW and must be Digital capable. Report by Mike, W5VXU and Ed, KD5DPK. *The Club took a vote and Funds were denied to help out, since it was not a ALL CLUB MEMBER usage. (Only during Emergencies any one can use) This was also going to be used by the Civil Air Patrol, so it is going back to the CAP to see if they can get funding for it.

Mangum Rattle Snake Derby (Last Weekend of April 23,24,25), Fred, KC5SRJ and Donnie, KC5MKZ were not at the meeting this month. The AAARA has been invited back to help do the Ice Sales, this also needs our club to support it with some volunteers to man the booths and deliver the ice.

Civil Air Patrol - Ron, KB5UVC, and Nathan, KD5GML will do the 1 May Boy Scouts little Hamradio Comm day. (Ron, KB5UVC reported to the club and found out that ANY FUNCTIONS of the CAP or Boy Scouts, the person(s) who hold a Ham License MUST BE a member of that Organization to provide that service for them, NO Exemptions to the rule on that. It is Part of the Protection Policy they have.)

Field Day - Last Weekend in June (26-27th), George, N1GM is going to try to get Cole Heights (Missile) Park, so we can set up there. The Missile will make a nice Antenna base, and also open to the public view so they can see what Ham Radio is all about, this is the reason for Field Day. Also... The West Window at the Altus Public Library was Reserved for us by Ron, KD5CYW for the month of June (1st Tuesday setup, 30th Wednesday Takedown). We need to get together things in the history of Ham Radio, date line from days of old to what we do today, Old Logs, Maps, Patches, Pictures. We have several shelves and a wall to pin up stuff to. *Still in Work*

New Business:

AAARA- HAMFEST 99 INFO:

Date: 17 July 1999

Place: Community Center on Falcon Rd. (Same as last years)

Time: 8am till 4pm

VE Test Session: 10am across the street at Petticoat Junction. Woody's BBQ will be the Vendor for Lunch from 11am to 1pm. And the Band will be back to play for us once again. Vendors will be in the flyers when sent out if the commit to the Hamfest before 15 May 99 (Contacts to the vendors are in the works, Doc, KM5IO and John, AB5WQ are contact point for the Vendors)

Red Cross was Represented by James Mahan. He talked about the Disaster Assessment Team, before ANY Federal Services can be provided, the Red Cross must Submit a Report of Survey to the Tulsa Office, hence they would get other Red Cross units out to help and also contact the federal agencies. Some training was given last night. (A course will be given at a later date, folks who are on the list will be called for that date by the Red Cross, if your NOT on the list, give Dale, N5VX, or John, AB5WQ a yell on the .79 machine, or Email Ron, KD5CYW and it will be routed to them.) After the meeting was closed, Mr. Mahan would like to get with various folks around town and set up a meeting with some of us Hamradio folks, to see how we can help "After the Disaster" with radio communications. These will be with the City and Private Companies to help the Red Cross set up "stations" for us Hams to help out with services to give assistance. (Examples of Stations-Red Cross Local HQ, Hospital, Relief Centers / Schools, Augment for other assistance as Public Radio Communications, when the Phones are down or circuits are flooded with calls, this Includes Cell Phones too.) With all this, we hope not it comes to this as a disaster, but if it happens, we are prepared to help.

John, KC5HUW has a UHF repeater just about up at Roosevelt, 449.775 (444.775). It may be linked with another repeater.... Which one it will be John will let us know.

The Bunny Rabbit Award (for the VHF in the Altus Area) was given away by Yes, James, AB5FS, well here it goes again to James, AB5FS, he voted himself, since he had not been on the radio. (Don't forget to put new Batteries in it) This was once again as stated, this is a second repeat of the statement.

Christmas fund . donation - John, KC5HUW

Next VE test session, 6:30 PM 27 April 99 at SWTC, in Altus.

Meeting adjourned at 8:20 p.m.

Next Meeting on: 13 May 1999 at 7:00 PM. at South West Technology Center. 711 W Tamarack Rd. Altus, OK

Respectfully Submitted:

Ron Roman KD5CYW
Secretary/Editor

The Great Circus Train goes back to Hams,

(Dates, Places, Station Call was from a phone call I got today, any info shared would be great to all but...)

All Aboard RailHams, the Northern part of the US, Wisconsin to (I forgot where) run of the Circus Train that the Ham radio folks who Volunteered every year to do will be doing it again this July (2nd through 5th?), 1x1 call of W9P Special Station on HF (DX stations) and VHF/UHF (aboard Train).

Last Year the Circus went to a Private Commercial Vendor to provide Communications along the route and the hams were left at the station watching the departure. Well with the Ham Radio Operators being all Volunteers and more 'concerned about the trip' on a personal basis of more than just a business related activity. It is the RailHams, and just some Hams that like to do what they know how to do, and just not foamers over trains, but like to provide their services. This is what the Circus found out and I think the RailFans, RailHams, and Hams will all see the continuation of the Ham radio to provide communications to the Train Crews and Circus Crews for a long time to come.

Take a moment to you on the RailSpot list and the AAARA list, now if Farmrail did the train excursion they said they want to do, at least for a dry run, now that would be something in similar and fun for a day thing to do. Get to Ride, Chase, take Pix's and Video, all because of something we enjoy to do as a RailFan, RailHam, or just a plain Ham who likes to do what others want payment for, and a service that is

better at it than the 'Hobbyist' that has talent to make it work.

Have a good one and the thought is there... just wondering what is better than to making things happen into reality from a play in the head of an Idea.

Take care and see you in May, 73's and Keep it in the Gage,

Ron Roman
Altus, OK

VIRUS WARNING!

If you receive an e-mail titled "It Takes Guts to Say 'Jesus'" DO NOT open it! It will erase everything on your hard drive. Forward this letter out to as many people as you can. This is a new, very malicious virus and not many people know about it. This information was announced yesterday morning from IBM; please share it with everyone that might access the Internet. Once again, pass this along to EVERYONE in your address book so that this may be stopped. Also, do not open or even look at any mail that says "RETURNED OR UNABLE TO DELIVER." This virus will attach itself to your computer components and render them useless. Immediately delete any mail items that say this. AOL has said that this is a very dangerous virus and that there is NO remedy for it at this time. Please practice cautionary measures and forward this to all your online friends ASAP.

Bryan Martin
Compaq Computer Corporation
1125 Evergreen Oak Way
Dacula, Georgia 30019
(770) 822-1195 office
(770) 354-6082 mobile
(888) 979-3719 pager
bryan.martin@compaq.com





Edmond Amateur Radio Society

If JD, KF5TM was asked to say a few nice words about anyone, I can remember he always said, "Well...he was a good old boy". Now it is my turn to say the same thing about "J D". He had a radio-TV repair shop in a building behind his house and was a "GENIUS" in providing tubes, parts and circuit diagrams to help anyone's problems. JD operated the old Edmond bus station when it was located at the second street railroad crossing before the underpass was excavated. His building was torn down to make a location for the only underpass in Edmond. The Bus Station was moved to a new location at 305 South Broadway in Edmond. (I still have a postcard (5 cents postage) announcing the next 'EARS' MEETING FEB. 14, 1970 SIGNED BY "RUSS", WA5NRJ. (Does any one have information to locate "Russ"?). The (EARS) Edmond Amateur Radio Society, started out as a group of friends meeting at each other's "Ham Shack". It was always interesting to see how the others "Rigs" looked and worked. JD invited the group to meet at the bus station after the membership grew so large because everyone was invited to the meetings. Short-wave Listeners and (CB) Citizen Banders were welcome. I think we monitored channel "19". Thank you for listening to me tell about my friend "J D". He was a real good "SCOUT" and now may the GOOD SCOUTMASTER of all good scouts be with us until we meet again.

Allen Watson, W5ERY
(Edmonds Radio Youngster.)

Birthdays:

The following EARS club members have May birthdays:

- 5-2 KC5AGM Harold Hall
- 5-4 KG5UG Clara Granger

- 5-7 KC5GFX Evelyn Carder
- 5-8 KC6YKH Dwight Shrum
- 5-9 KJ5UI Kent Bourland
- 5-11 KA5WHI Mary Wells
- 5-15 AC5PI Tom Heffron
- 5-17 K5GBH Harold Plunk
- 5-19 KC5UWA Gary Ummel
- 5-20 KA5WIS Lee Vaughn
- 5-22 KC5ZBX Wes Foote
- 5-24 KB6HWI Steffy Guinn
- 5-29 W5ERY Allen Watson
- 5-31 KC5CPS Gail Edwards

New Members:

EARS welcomes these new members:

Wayne Edwards, KC5CRT
Gail Edwards, KC5CPS
Alan Sewell, N5NA

To notify the Club of a change in your Call, Address, Phone number or E-mail address, please contact Sharon by E-mail. Thank you.

de Sharon Thompson KM5GV



Minutes:

Future Activities:

Since this will get to you after the first Saturday in May, the following announcements are for June!

The June EARS Emergency Net will convene at 11:00 AM Saturday the 5th of June. Be sure to check in and clear the cobwebs out of your radio for the following event:

The June Siren Test will be Saturday the 5th of June at high noon. Edith KA5YPX needs to hear from you if you can spend some time helping out. This is one of our easier public service projects. It takes less than an hour and really does help the city. Give Edith a call at 348-2961 to get a spot to listen from.

There is some nice new equipment at the club station now. You might want to come by the club station in downtown Edmond on Thursday nights to check it out. Are you keeping up with technology? Come see what the excitement is about.

Field Day is coming up the 26th of June. It will be closer to Edmond this year, with the site being Hafer Park. Planning is going on already. Can you come and help out?

EARS Business meeting will be May 16th at St. John the Baptist Catholic Church. We are trying to have less boring business and more interesting material (not to mention more time to rag chew!). If you haven't been to a meeting lately, "Come On Down!"

Breakfast still happens each Saturday at 2nd and Coltrane in the Country Kitchen. Do you get up that early on Saturdays?

Don't forget about the Monday Night Information Net! Get the latest information on amateur radio around Edmond. It's a good chance for those who don't talk much to see if the radio still works.

de Curtis Foote KC5GEP

Health and Welfare:

Harold Well's, WA5ZKX, mother, Mary, had quadruple bypass surgery on April 29th at Integris Baptist Medical Center. Hope all goes well for her. Please remember all the Wells family in your prayers.

We would like to offer our deepest sympathy to John, WB5SYT, Jana Thomason, N5KMJ and family in the unexpected loss of John's Uncle Delmar Thomason on April the 24th, 1999. John's Aunt is still in St. Francis Hospital in Tulsa. Please keep all of the Thomason family in your thoughts and prayers.

Bob Hebert, N5SAG, is doing great since his hernia surgery a month ago. He expressed his thanks to all for their calls, cards, and concern for his well being and prayers.

CONGRATULATIONS to our 1999 graduates and their families!

Theresa Louis Storey is a candidate for the degree of Master of Library and Information Studies. She will graduate from the University of Oklahoma in Norman on May 8th, 1999. During her graduate studies she also had a full time job. Dave, K0TYC, and Sherry, KD5CPJ, are very proud of their daughter. She set her goals and never strayed from the path that led to success.

Jennifer Welch will graduate from Edmond Memorial High School on May 22nd, 1999. She is one of the Salutatorians in her class. Just recently she received her notification of acceptance in the Honors College at the University of Oklahoma. Mark, KC5SMH, and Claudia are so proud of their daughter. She always strived to do her best at anything she attempted to do.

Lori Clark, daughter of Alan, N5PA, and Cathy will be graduating from Edmond North High School on May 21st, 1999. She will be attending Oklahoma Baptist University in Shawnee, Oklahoma this fall and plans to major in accounting. At North she played basketball, and was involved in the Pack Pals group. She enjoyed going to John Ross Elementary School and speaking with students about sports, being a leader, working together, and always doing their best.

Courtney Cook will graduate from Edmond Santa Fe High School on May 22nd, 1999. During her senior year she specially enjoyed the time spent each day working with the children with special needs. She is the granddaughter of Shelby, KA5YPE, and Dee Mize, WD5FHR.

Gina Tassone, daughter of Frank, AA5GI, and Erline Tassone, will graduate from Edmond North High School on May 21st, 1999. She thoroughly enjoyed her participation in the ROTC program.

We are proud of what each of you has accomplished. Set your goals and always remember your future depends on YOU! Wishing all of you a successful future. God bless you and your families.

Happy Mother's Day to all the moms. May it be a special day of you for you!

73 de Clara Granger, KG5UG

Humor

Subject: "Why I never went into construction" OR "How NOT to Fix Your Radio Tower"

This man was in an accident and was therefore required to fill out an insurance claim form. The insurance company contacted him and asked for additional information. This was his response:

"I am writing in response to your request for additional info for Block 3 of the accident reporting form. I put 'poor planning' as the cause of my accident. You said in your letter that I should explain more fully and I trust the following details are sufficient.

"I'm an amateur radio operator and on the day of the accident, I was working alone on the top section of my new 80 foot tower. When I had completed my work, I discovered that I had, over the course of many trips up the tower, brought up some 300 pounds of tools and spare hardware. Rather than carry the now un-needed tools and materials down by hand, I decided to lower the items down in a small barrel by using a pulley, which was fortunately attached to the gin pole at the top of the tower. Securing the rope at ground level, I went to the top of the tower and loaded the tools and materials into the barrel. Then I went back down and untied the rope, holding it tightly to ensure a slow descent of the barrel. You will note in Block number 11 of the accident reporting form that I weigh only 150 pounds. Due to my surprise of being jerked off the ground so suddenly, I lost my presence of mind and

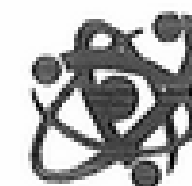
forgot to let go of the rope. Needless to say, I proceeded at a rather rapid rate of speed up the side of the tower.

In the vicinity of the 40-foot level, I met the barrel coming down. This explains my fractured skull and broken collarbone. Slowed only slightly, I continued my rapid ascent, not stopping until the fingers of my right hand were two knuckles deep into the pulley. Fortunately, by this time, I had regained my presence of mind and was able to hold onto the rope in spite of my pain. At approximately the same time, however, the barrel of tools hit the ground and the bottom fell out of the barrel. Devoid of the weight of tools, the barrel now weighed approximately 20 pounds. I refer you again to my weight in Block number 11. As you might imagine, I began a rapid descent down the side of the tower. In the vicinity of the 40-foot level, I met the barrel coming up. This accounts for the two fractured ankles and the lacerations on my legs and lower body. The encounter with the barrel slowed me down enough to lessen my injuries when I fell onto the pile of tools and, fortunately, only three vertebrae were cracked. I'm sorry to report however, that as I lay there on the tools, in pain, unable to stand, and watching the empty barrel 80 feet above, I again lost my presence of mind. I let go of the rope and, well, you can surmise the rest."

That's it for this month. Send information for next month's C&E to Curtis Foote at cfoote@theshop.net or curtis.foote@nextel.com

50 Watt UHF Transmitter w/ 4CX250B Tube
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Oklahoma City Autopatch Association

Minutes of the OCAPA meeting for April 20th, 1999

Members Present:

Glynn Massey, N5WNL
Larry Bevis, KC5ADP
Don McDown, N5ENQ
Ron McCubbin, KC5QCV
Forrest Rush, N5VWF
Earl Pitzer, KC5LDT
Larry Romine, WD5DFK
Sue Wilhite, KC5SMJ
Willard Henderson, W5UZV
Keith Baker, K15XA
Don Ayers, KC5BRO
Jeff Dye, WD0GTY
Carole Ayers, KC5EXR
Tom Webb, WA9AFM
Ron Barszewski, KD5EXQ
D.C. Macdonald, K2GKK/5

The meeting was called to order by the president of OCAPA, Glynn Massey, N5WNL, at 7:30 PM.

Secretary's report - The secretary's report was read and approved.

Treasurer's Report - The Treasurer's report was read and approved.

Technical Committee - The technical committee reported that part of the coax from the repeater to the antenna is BAD. It measured 9.5 watts forward power with 9.0 watts reflected power. They did have some good news. We are about to get 950 feet of 1 1/4 inch hard-line from a company that is giving up it's spot on the KWTW tower. We hope to have it all arranged as soon as possible.

Honorary Membership - Curtis Foote, KC5GEP, was given an honorary membership in OCAPA for one year.

Field Day - The Primary Site for field day will be Joe Barnes Park in Midwest City. The Secondary site is Midwest Boulevard Christian Church.

Salvation Army - On April 10 there was 7-10 amateurs who showed up to help run the Salvation Army's ARS. The next test will be on May 8th at 7:30 AM.

WA9AFM is in charge of updating the Salvation Army's digital communications. They need a KPC-3. If you can help, contact Tom Webb at (405) 737-6716.

Silent Key - Bob Robert "BR" Shaw, WA5BQX, died of cancer.

Scholarship Report - This year OCAPA and CORA are using the same form for scholarship applications. The last date scholarship applications will be accepted is June 5th, 1999. The application form is in the April 1999 issue of C&E, it can be found on CORA's website: WWW.geocities.com/heartland/7332 or an application will be mailed to you upon request. Contact Forrest Rush, N5VWF at (405) 842-8486 for information or to request an application form.

Next Meeting - OCAPA's next meeting will be on May 18th, 1999, at 7:30 PM at Salvation Army Divisional HQ's. See you there!

Respectfully Submitted,

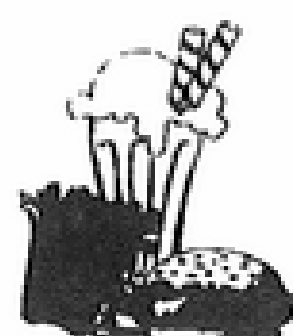
Forrest Rush, N5VWF
OCAPA Secretary

ORSI meeting date

The next ORSI (Oklahoma Repeater Society Inc.) meeting will be on May 8th, 1999 at Noon. Location will be at Poor Girls' Cafe in Sulphur, Ok. To get there, from Exit 55 on I-35, go east on State Highway 7, through Davis, about 10 miles into Sulphur. At 12th Street (the first traffic signal), turn left (north). Go 1/2 block north and see Poor Girl's Café on your right. Plenty of parking in front, down the side, in back, and adjoining parking lots nearby. Coming in the front door, the room we have is immediately to the right. We especially need folks from the Southwest and Southeast part of the state to attend and join ORSI. You need only be a licensed amateur to be a member of ORSI.

Talk-in on 146.97 repeater in Ardmore.

N5WNL
GLYNN MASSEY



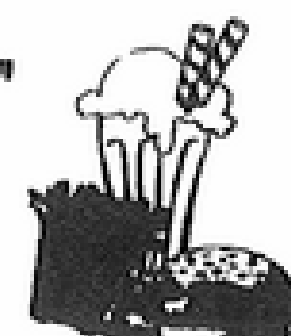
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KCSVZN
JAN MASSEY



Sputnik 19 - Where are you?

Is Sputnik 19 in Earth orbit or is it not? That's a question that nobody seems willing or able to answer.

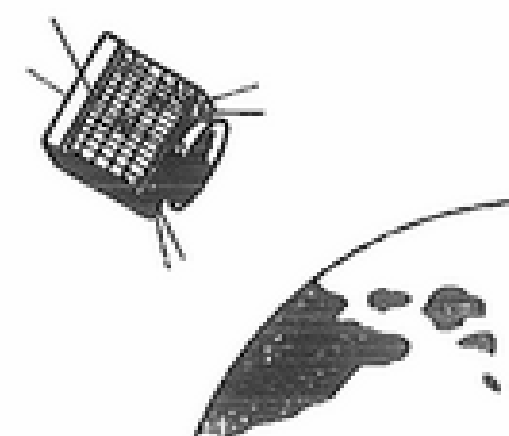
According to news reports, last Friday, April 16th, the Mir cosmonauts placed the tiny artificial moon in orbit during a spacewalk. The same report says that the satellite was transmitting messages to children back on Earth.

Then on April 18th, during the 08:45 GMT Mir pass over France, Mir guest astronaut Jean-Pierre Haignere, FX0STB confirmed that the mini Sputnik was not active. He the mini satellite has not been launched because it was carrying advertising for a Swiss watch manufacturer, Swatch A G.

But as late as the 17th, the commercial media was reporting that Sputnik 19 was on the air and transmitting. This, even though there have been no reports of any ham or SWL hearing it.

So the big question now is, where is Sputnik 19? In space or in a storage locker on board the Mir.

(Newsline, AMSAT BBS)





Choctaw Amateur Radio Club

Choctaw Radio Club Minutes for April 19, 1999

Location: Choctaw Vo-Tech on N. Choctaw Rd.

At 7:05 PM club president Dave WD5G opened the meeting with introductions and here is a list of those in attendance:

Dave Downing, WD5G
 Larry Brewer, K5VVD
 Don Mcdown, N5ENQ
 Bill Grossland, N9SQV
 Toby Vasbinder, KC5DZJ
 Don Grissom, KD5GER
 Les Johnson, KB5RV
 Corey Ritter, KD5FGU
 Bill Tarkington, KC5ICR
 Tim Harper, KC5DSW
 Don Clark, KB5KWV

Don, N5ENQ passed out a roster of current club members.

The minutes for the last club meeting were accepted.

The treasurer's report was not presented.

Old News

Removal of the packet tower was discussed and it was deemed that we would remove it when it becomes necessary or when we can decide when to do it.

Incorporation of the club is still pending.

There was some discussion of tying a UHF repeater to the 147.090 repeater. This would allow us to increase the range and not interfere with Claremore. This repeater would allow users with UHF to extend

their range and still communicate with those on 147.090.

The swap meet is still planned, it was discussed as to what would be done about the refreshments. I hope you enjoyed the swap meet.

New Business

We all wish John, K5CBP a very speedy recovery, John we will keep you in our prayers.

Dave, WD5G informed those in attendance of the ARRL VHF/UHF sprints. These are small contests that last about 3 hours and are a great way to get VHF and UHF contacts.

FIELD DAY- we need volunteers to man the radios. Ideally we would like to have operators volunteer for specific time slots so we can work on filling the empty slots. CW ops needed! It was discussed as to what class to operate, and it was loosely determined to operate 1C. We will formalize plans at next month's club meeting.

Ideas for raising the club's membership and public awareness were discussed. Our membership is down 50% from last year. Some of these ideas were to conduct on the air meetings, public service at the old timers parade, bringing our existence to the attention of local law enforcement agencies, giving demonstrations at local schools, etc. At the next meeting we will agree upon an official club shirt for public service events and hamfests. Also it was agreed that more dinner meetings would help accomplish this.

The meeting was adjourned to Braum's at 8:10 PM.

Tim, KC5DSW, submitted this report 73

FCC clarifies rules regarding consolidation of PLMRS

The FCC has released a Second Memorandum Opinion and Order reaffirming its commitment to consolidating the radio services below 800 MHz. The Commission says that it plans to take this action in the interest of more effective and efficient use of the Private Land Mobile Radio spectrum. The Commission has also clarified various aspects of the radio service consolidation rules and has effected certain rule changes. (FCC)

New Hamcasting Website

If you are looking for more ham radio related material to listen to over the world wide web, James Poulin, VA3JPX, says he may have just what you are listening for. This is because Jim is the host of a new webcasting website at:

www.honk.org/jpx

James new service uses MP3 encoding to provide live audio from Ottawa, Ontario Canada, delivered. Listeners will require Windows, and the latest version of Winamp. (VA3JPX)

Two new ARRL SM's

Northern New Jersey and California's Santa Clara Valley have new ARRL section managers. In Northern New Jersey Section Manager elect Jeffrey Friedman, K3JF, of Succasunna, assumed the reins in mid-March. This after former Section Manager Roy Edwards, AB2RE, stepped down early.

Meanwhile, out West in Santa Clara Valley, Glenn Thomas, WB6W, of Milpitas, succeeds Geoffrey Ellis, KD6MFM, who resigned. (ARRL)

405-737-3781

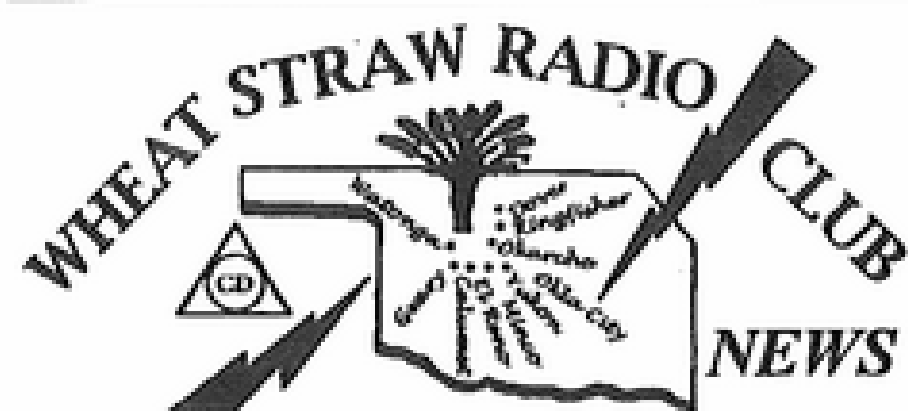
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Terry L. Smith
 Owner



Wheatstraw Amateur Radio Club

Well, once again, the weather played a trick on us, (and it wasn't even April Fools Day) and we had to cancel our March Meeting. I was all set to talk to Johnny and Margarite, but, since I didn't see them, I drafted Stu and Alice instead. I got them a week after the meeting, as they come to the Dover Church, and visit with me after.

Loren Stewart, better know to me as "Stu", was born 11-27-1915 or 16 (he say's there is a little argument there) 6 mi. West and 1 1/2 miles South of Mulhall, not too far from where he lives now. Alice was born 9-9-1920 South East of Meridia, which is near Guthrie.

They met at Walker Sunday School, located South East of Guthrie when they were 16 and about 20 years old. They dated (when Stu was around) for 3 or 4 years, the rest of the time (when he was working away) they didn't see or correspond at all. Just trusted one another.

During this time, Stu worked for Otee Sand and Gravel Co., on Turkey Island who had a contract for furnishing the sand and gravel to build 51 Highway, as well as other paving around and in Stillwater. Turkey Island was located on 177 SE of Red Rock, O.K.

Alice, at this time worked for Morgan's Dairy near Edmond, about at the inter section of Waterloo and Seward. Alice said they corresponded by letter, but she wrote much more often than he did. The mailman would pick up Stu's letter, hand cancel it, and deliver it to her, as she was "Down the Route". However, when she wrote to Stu, he wouldn't get it until the following day.

They married 1-27-1939 at Oklahoma City, and were married by a Mormon

Priest, in a Mormon Church. He called a woman (Presumably his wife (to "stand up with them". They got their Marriage License in Guthrie, and were married in O.K.C.

They still live in the house they started life together in. At one time it was the Midway Station and Grocery, and the Cash Register still stands where the counter once was. This is about mid-way between Lovel and Mulhall •

Three children were born to the Stewart's. Gene, the oldest, passed way in Nov. of 1994.

Ivan, next in line, is married to Jeanie Avery, and they have 3 daughters and one granddaughter. Their daughters are kind 'a spread around, they live in Nevada, Washington, D.C., and Sacramento, Ca. The one Great-grandchild lives with her Mother in Nevada.

Velma Stewart is the third of the siblings, and the only H.A.M. Her call is WA5UJQ. She lives and works in Edmond. She also takes pretty special care of Stu and Alice, and like Alice, can climb poles with the best of men.

They have been interested in H.A.M. Radio for many years. The first meeting they remember was a Christmas meeting, held at the Catholic Church in Watonga. Harold and Mary Welch, Ralph and Goldie Wilder, and Father Joe Kobe hosted the meeting.

Father Joe began visiting the Stewarts at their home sometime in the early 60's. (He would sometimes drive his little Volkswagen, or' some times Buzz them with his Air Plane, and tip his wings as he flew off into the blue.

H.A.M. Radio and its people mean very much to Stu and Alice. I met them through a mutual friend, Carl Rothermel, WA7AZO who " is now deceased. Carl had kind'a adopted Stu and Alice as his "Mom and Dad", and I have done likewise. They fix my Rig, chew me when I need it, and let me know they love me.

They truly exemplify H.A.M. Radio!

Too fast for comfort

From the science page comes word that scientists have been able to slow the speed of light to a relative crawl.

Harvard University researched light speed. VK2VPC shared with those on packet a most enlightening article showing how Harvard University Physicists have slowed the speed of light.

Light, which normally travels the 240,000 miles from the moon to the Earth in less than 2 seconds has been slowed to the speed of a mini van in rush hour traffic, 38 miles per hour.

An entirely a new state of matter, first observed 4 years ago has made this possible.

Apparently when atoms become packed super closely together, at super low temperatures, in a super high vacuum they lose their identity as individual particles and act like a single super atom with characteristics similar to a laser.

Such an exotic medium can be engineered to slow a light beam 20 million fold 186,282 miles per second to a poky 38 miles per hour. In this odd state of matter, light takes on a more human dimension. "You can almost touch it.", said one Harvard University Physicist.

And they commented it is fascinating to see a beam of light almost come to a stand still.

The process is described in detail in the February 18th issue of the scientific journal Nature.

A little warning, don't try this at home.

There's no practical application yet for slowing the speed of light, but scientists say it eventually could be used to improve communication Technology, but at the moment they are, well just not sure just how.

(Q-News)

The Leonard Hanstein Memorial Scholarship

Sponsored by
Oklahoma City Autopatch Association

The selection committee in awarding of the scholarship will use the information requested herein. All information will be confidential and only the members of the selection committee will see the application.

All areas requested will be considered by the committee; however, no single area will preclude an applicant from receiving the scholarship. All applications will receive the same impartial consideration.

If selected, the applicant agrees to allow his/her name to be used in publicity pertaining to the scholarship.

Scholarship recipients will be presented a certificate at a conference in Oklahoma City in July.

Applications are to be returned by **June 5, 1999**.

Return applications to:

Forrest Rush, N5VWF
P. O. Box 60252
Oklahoma City, Oklahoma 73106-0252
(405)-842-8486

Applicants must be a graduating High School Senior who is a member, child of a member, or grandchild of a member of an amateur radio operator. Any questions please feel free to call Forrest, N5VWF. Award to be given at the CORA annual Ham Holiday, July 24th.

SCHOLARSHIP APPLICATION OKLAHOMA CITY AUTOPATCH ASSOCIATION

NAME: _____ DATE: _____
LAST FIRST MIDDLE

ADDRESS: _____
STREET

CITY

STATE

ZIP

PHONE: _____

A. Submit any information regarding your scholastic abilities. Please include your most recent transcript and any of the following you can.

ACT SCORES: _____

SAT SCORES _____

RANK IN HIGH SCHOOL GRADUATING CLASS: _____

VERIFICATION BY SCHOOL COUNSELOR AND TRANSCRIPT REQUIRED

IN WHAT SCHOOL (COLLEGE, UNIVERSITY, OR VOCATIONAL SCHOOL) ARE YOU PLANNING TO ENROLL FOR THE FALL?

HOW MANY CREDIT HOURS WILL YOU TAKE THE FALL SEMESTER: _____

INCLUDE A COPY OF YOUR CURRENT TRANSCRIPT.

INCLUDE A COPY OF YOUR CURRENT CLASSES.

INCLUDE A COPY OF YOUR SCHEDULE FOR NEXT FALL IF AVAILABLE.

B. WHAT IS YOUR MAJOR: _____

WHY HAVE YOU CHOSEN THIS FIELD? _____

WRITE AND ATTACH A BRIEF ESSAY ABOUT YOUR EDUCATIONAL AND/OR CAREER GOALS.

C. LIST ACTIVITIES IN WHICH YOU ARE OR HAVE BEEN INVOLVED. INCLUDE EXTRA-CURRICULAR ACTIVITIES, SPECIAL PROJECTS, OFFICES IN ORGANIZATIONS, COMMUNITY SERVICE, AND VOLUNTEER WORK.

DESCRIBE ANY ACTIVITIES IN AMATEUR RADIO IN WHICH YOU HAVE BEEN INVOLVED.

D. OUTLINE YOUR WORK EXPERIENCES.

E. SUBMIT THREE (3) LETTERS OF REFERENCE (FROM INDIVIDUALS NOT RELATED TO YOU)

(PART F. TO BE COMPLETED BY AMATEUR RADIO OPERATOR OR RELATIVES OF HAMS)

F. ARE YOU A HAM? _____ IF SO, CALL SIGN: _____

CLASS OF LICENSE: _____

IS ANYONE IN YOUR FAMILY A HAM? _____ WHO _____

HOW IS THIS HAM RELATED TO YOU? _____

I, _____, DECLARE THAT THE INFORMATION PROVIDED FOR CONSIDERATION OF THIS SCHOLARSHIP IS TRUE AND ACCURATE. I GIVE MY PERMISSION TO THE SCHOLARSHIP COMMITTEE TO SEEK ANY INFORMATION AVAILABLE CONCERNING MY ACADEMIC RECORDS.

SIGNATURE OF APPLICANT_____
DATE

Ham Radio past Y2K

Ham Radio Past Y2K is the title of this years Dayton, Hamvention Ham Radio Town Meeting of the Air. Produced for the Hamvention by Newsline, this annual live to the Internet forum will feature some of the true movers and shakers of ham radio discussing where we are headed as we pass through the Millennium.

Keynoteing the two hour session will be CQ VHF Magazine editor Rich Moseson W2VU. Rich will present an overview of ham radio as it is today and where it may be a decade from now.

The program will also feature a discussion of the world wide web and its affect on the growth of ham radio by ARRL First Vice President Steve Mendelsohn, W2ML. I will be there along with some of my SAREX staff and a NASA astronaut to discuss the future of manned ham radio in space Ham Radio Past Y2K takes place on Saturday, May 15th from 3 PM to 5 PM Eastern Time. It will be carried live in RealAudio by Tucson Amateur Packet Radio at their website. A link will be provided from the Newsline website at:

www.arnewline.org

(Newsline)

Arthur C. Clarke and Y2K

And finally, AMSAT member 2001 has a lot to say about Y2K. Arthur C. Clarke, author of "2001: A Space Odyssey," and AMSAT member 2001 feels so strongly about people calling next year a new millennium that he issued a public statement to correct them.

According to Clarke, because the Western calendar starts with Year 1, and not Year Zero, the 21st Century and the Third Millennium do not begin until January 1, 2001.

He says that while some people have great difficulty in grasping this concept, there is a very simple analogy to explain it. He asks if the numbers on your grocer's scale were to begin at 1 instead of 0, would you be happy when he claimed he'd sold you 10 kg of tea?

Clarke says that the same is true regarding what is and is not the real Y2K. He says that we will have had only 99 years of this century by January 1, 2000. We will all

have to wait until December 31, 2000 for the full hundred.

(Y2K Science Watch)

FCC to hams: Don't play on Free Band

Hams that the allegedly used their stations on the so called Free Band between 11 and 10 meters are the latest enforcement target of the FCC.

We have already reported on one of these people. Back in February, FCC Engineers from the Houston, Texas field office attempted to inspect the station of Leonard Martin, KC5WHN. This, after monitoring signals on 27.535 MHz and 27.350 MHz that they traced to Martin's home.

Martin refused them entry. Now the FCC has sent Martin an Official Notice of Violation. The April 2nd letter accuses the Technician class ham of unlicensed operation and refusing a legitimate request by FCC Field Office personnel to inspect his station.

The FCC's Riley Hollingsworth, K4ZDH, reports that he has spoken with Martin on numerous occasions. The FCC had also warned Martin in writing last November 3rd about operation on frequencies other than those authorized under his Technician class Amateur Radio license.

The regulatory agency has now told Martin that he has only 10 days to reply in writing to the FCC's Houston Field Office.

Also hit with a Notice of Violation is General licensee Greg F. Nolan, W5UDX, of Waller, Texas. He is charged with unlicensed operation after FCC Field Office personnel monitored his station on February 27th operating on 27.535 MHz. This is spectrum assigned to the Industrial Radio Service. Nolan was also reportedly heard on 27.555 MHz in the Government and Forest Products Radio Service.

Also hit with a similar set of charges is Technician licensee Daniel R. Furman, KD5BCI, of Houston. Like Martin and Nolan, Furman were ordered to reply in writing within 10 days to the FCC's Houston Field Office. This to explain the specific steps that they will take to correct each violation and to preclude any future recurrence.

(FCC, ARRL)

Probationary License

I'm CQ VHF Editor Rich Moseson, W2VU, with a late-breaking story from New Jersey, where the FCC has put a new amateur on probation for a year, after he allegedly interfered with police communications while waiting for his license to arrive.

According to an April 14th letter from FCC amateur enforcement chief Riley Hollingsworth, K4ZDH, Mike Mustachio, KC2EUT, of Rockaway Township, New Jersey, interfered with police communications by transmitting music on a police frequency five days before his amateur license was issued last month. The FCC set aside his license grant while investigating the incident, and reviewing the matter with the police department involved.

In the April 14th letter, Hollingsworth says the commission decided to reinstate Mustachio's ham license but -- in an innovative twist -- for a term of only one year. "Due to the seriousness of the interference," Hollingsworth wrote, "we are granting you a short-term license." The letter then advised Mustachio to file a renewal application a month or two before the March, 2000, expiration date, and, quoting again, "if there are no further violations, it will be granted routinely for a normal license term."

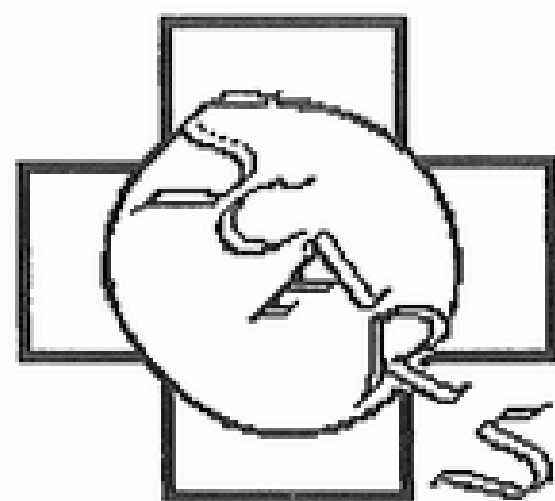
That's the latest from New Jersey.
(FCC)

California Retest

A southern California ham is the latest to be ordered to stand for re-examination. In an April 9th letter, FCC chief rules enforcer Riley Hollingsworth has ordered Rusty Leewright, KE6UOF, of Northridge to submit for retesting at the FCC office in Cerretos.

Leewright was given until May 15th to stand for re-examination. No reason was given for the retest order, but if he fails to appear, his Technician class ticket will be canceled and he will no longer be permitted on the air.

(FCC)



South Canadian Amateur Radio Society

Minutes - SCARS regular meeting April 10, 1999

Vice-President Steve Pierce, W5BIV, called the meeting to order at 9:30 a.m. It was announced that Frank Rizzo, W2OCM, had passed away on March 28th.

Treasurer Jeff Wyke, KE5EB, reported on the balance in our account and distributed new club rosters to the members present.

Dennis, KC5EVH, has one of the receiver kits left for sale at \$36. Call him if you're interested.

Field Day Planning: The club station power supply has been repaired and our transceiver will be used for field day activities. Volunteers were asked to bring their radio equipment so that we can set up several stations as we did last year. Contact Dennis or Jeff if you can assist. Club President Dennis, KC5EVH, has obtained a permit to use the small pavilion that we used last year. Fred has graciously volunteered to take care of our food again this year.

CORA Report: Louis, KC5ABI, and Tom, KD5ENL, reported on the CORA luncheon meeting. Progress continues on Ham Holiday planning. We may be able to hold a bingo game this year to award the prizes. More details later. Club members were encouraged to attend the Saturday CORA luncheon meetings.

VP Steve, W5BIV, announced that he is moving to Edmond in May and was resigning as SCARS Vice President. He expressed his appreciation to the members for the great fellowship and club activities. As a result of the vacancy, nominations

were solicited from the members present for the position. Jeff, KE5EB, nominated Tom Miller, KD5ENL, and Tom was unanimously elected. CONGRATULATIONS, TOM!

The meeting was adjourned at approximately 10:00 a.m., followed by a testing session conducted by Jim, NW0K, and the VE team.

Submitted by

Steve Pierce, W5BIV
SCARS Vice President

Renewal Of Licenses

Moved or license expiring? What should you do?

If your license is coming up for renewal, W5YI and ARRL (for ARRL members) will send a letter and a blank Form 610. Prior to the fall of 1996, the FCC sent out renewal notices, but no more.

To renew, you have several options:

- Fill out and send the Form 610 direct to the FCC, or,
- Fill out the form and return it with a \$10 handling fee to W5YI who will process and submit your application to the FCC for you, or,
- Fill out the form and send it to ARRL who submits it to the FCC for you, or

- Within 120 days prior to the expiration, you can renew on-line via the Internet to the FCC site ("FCC Form 900") which has the awkward URL of:

http://svartifoss.fcc.gov:8080/cgi_bin/ws.exe/prod/efpa/forms/900/900_Form.htm

alternatively, you can go to <http://arrl.org/arrlvec/#renewals> then click the "FCC Form 900" highlighted link and fill in your data. About 3 days later, your license will have been posted as renewed and hardcopies of the renewal follow in about two weeks.

A license expired less than two years can be renewed but only by a hardcopy application to the FCC at the address given on the Form 610.

Questions? Check the ARRL VEC webpage (<http://arrl.org/vec>)

Jim Copeland, NW0K

International Marconi Day

Hams around the world will be spending April 24th helping to commemorate International Marconi Day. The annual event, held on the Saturday nearest to Marconi's April 25 birthday and will include operation from the Cape Cod, Massachusetts, Marconi transmitting station site in Wellfleet by the Marconi Radio Club. Its callsign is W1AA. In all, some sixty-five stations in the worldwide are expected to sponsor special event operations to mark International Marconi Day.

(ARRL, RSGB, AMSAT-BBS)

Wrong orbit satellite

A \$250 million missile-warning satellite launched two weeks ago is stranded in the wrong orbit. The Defense Support Program satellite was lofted into a low Earth orbit by a U.S. Air Force Titan 4 rocket in the first launch for the booster since a spectacular mid-air explosion last August.

A two-stage Inertial Upper Stage was to have raised the satellite into a 22,300 mile geostationary orbit above the equator. Although the two rocket firings appeared to have occurred, the satellite ended up in an egg-shaped orbit instead.

(Published news reports)

Get well W3IWI

Get well wishes go out to AMSAT-NA Board member Tom Clark, W3IWL. According to AMSAT Secretary Martha Saragovitz, Clark had heart bypass surgery on Thursday, April 15th at Johns Hopkins University Hospital in Baltimore. Get well wishes may be sent to:

tac@clark.net

or direct to:

6388 Guilford Rd
Clarksville, Maryland
21029

(AMSAT-BBS)

Enid Amateur Radio Club

Minutes of the April 1999 Enid Amateur Radio Club Meeting
22 April 1999

Red Cross Headquarters Enid, Oklahoma

The meeting was called to order by the president John, KA7GLA at 7:09 p.m.

Members and guests in attendance were: John, KA7GLA; Dave, KC5GUD; Scott, N5VRL; Al, KD5BA; Randy, KB5CWF; Curtis, KD5GQU; Eldon, KC5RRS; Bill, KC5OKG; Gene, N5SPY; Clint, KB5OEQ; Wendell, (accused of being a new member) WB5OQX and our newest member Justin, KD5GVO - welcome! Absent without an excuse was KM5DH.

The treasurer's report was presented by Bill, KC5OKG and approved. There was no correspondence. The membership roster according to CORA was distributed. Welcome to new member Jim, N5QCM!

Old Business:

Club Kenwood TS-520 for sale! The club approved the sale of the Kenwood TS-520 with all the attachments, with the intention of purchasing a newer all-solid-state compact HF radio (with built-in tuner). The motion was approved unanimously. The rig features several desirable attachments such as VFO, antenna tuner, et al. The rig will be displayed at Wheat Capital Communications, and may be advertised on the INTERNET on e-Bay. If you're interested in this "low-mileage, really clean trade-in model," please call Dwayne at Wheat Capital Communications, (580) 237-3218.

Generator for sale! In an effort to really clean house, John then proposed to sell the club's 15kW generator. Wendell reported that the generator was originally a WWII surplus, deeded to the club by the Government for the purpose of handling MARS traffic. This rascal can really put out the power! It is run by a Jeep engine, and can be adapted to provide a wide variety of voltages and phases. What's it worth? Nobody really knows, but there will be some expenditures required preparing the unit for sale (cost unknown). If advertised as a "Y2K generator" later this summer, it may fetch a higher

premium, as there is currently a big generator shortage in this country. Wendell reported the generator presented several disadvantages for the club, including the high noise level that makes it tough to use for ARRL Field Day. A parts liability also exists (remember, this thing is almost as old as Wendell ed.). We need something more usable and efficient for club use. Scott recommended donating it to the Red Cross (which currently has NO backup power supply). This idea was quickly shot down in favor of generating cash for the club. What the club needs is two smaller (portable) generators, each with about 3500 watts, which could be used on Field Day, and for emergency use in the local area. A motion to repair and sell the generator was made by Al, KD5BA, and seconded by Eldon, KC5RRS. The motion passed and further discussion was tabled until next month. John recommended advertising the generator in the CORA publication. If interested, please call Dwayne at Wheat Capital Communications, (580) 237-3218.



Al reviewed club plans to support several upcoming parades (both of which will be over by the time you read this Ed) The March of Dimes Walk-a-Thon scheduled for Saturday, 24 April, and the Tri-State Parade scheduled for Saturday 1 May require our participation. Several of the new members expressed interest in getting involved. This is a great time - get out there!

John discussed the status of our quest to get IRS 501c(3) non-profit status. He's planning on getting with Jim, N5QCM and his accountant soon to file the required paperwork. Stay tuned, we're almost there!

The Tailgater Party was a success! Our annual gathering was held on Saturday, April 17th from 8:00 a.m. until 1:00 p.m. at Central Christian Church in Enid. A smaller crowd than last year was on hand, but there was plenty of "bargains" to be

had. What ever happened to Mike's 6m beam? It would have made a great fence gate for sure! The coffee and donuts were a hit, and the inside facility made it more comfortable for staying out of the wind. Let's do it next year again!

New Business:

John then reported on storm tracking activities last night at the Tri-County Emergency Center, headquartered at the Central Fire Station on Garriott in Enid. If you were in or around Enid on the 21st of April, you'll remember the thunderstorms, tornado warnings, and the significant damage that occurred in Carrier just northwest of Enid. John and Justin, KD5GVO were on hand to assist with communications between the Enid Weather Center and the National Weather Center in Norman. With 5 radios going at once, it was a real zoo, especially as the radar picked up the hook echo which resulted in a real tornado! Lots of traffic was passed between Enid and Norman, and according to John the National Weather Center is delighted to have us in there helping out! We're all welcome to stop by and visit when the next one hits. John indicated we need volunteers who would be interested in helping out in times of emergency. There's only room for about two at a time, with one handling the radios, and the other taking notes in the traffic log. (Spotters are NOT needed). Sounds like fun! Just ask Justin, a self-proclaimed adrenaline junkie, who was there until after 2:00 a.m. Way to go!

The EARC Executive Board Meeting will be held on Thursday, May 20, 1999, 6:30 p.m. at the Midgley Museum, 1001 Sequoyah Drive (just south of Garriott on Van Buren). All board members are required to attend, and visitors are welcome.

The meeting was adjourned at 8:20 p.m.

The next meeting will be held on Thursday, May 27, 1999, 7:00 p.m. at the Red Cross Facility, 401 North Grand, Enid. See you there!

73's

Dave

Antenna Lingo!

Have we forgotten some of these terms? Here's some "Antenna Lingo" to add to your vocabulary!

End-fed, and center fed: These terms are closely associated with the terms, "Voltage Fed and Current Fed". At the end of a half wavelength there is an infinitely high impedance and consequently an infinitely high voltage. At the exact center of a half wavelength is an infinitely high current and virtually by contrast, no voltage and very low impedance.

Characteristic Impedance: All conductors or wires have both some amount of inductance and some distributed capacitance, this in itself provides a "lumped constant" derived impedance. In various configurations such as two wires parallel to one another, a characteristic impedance will result. Wires that are brought more closely together will have a lower impedance as parallel capacitance rises, or if they are farther apart this impedance will rise as capacitance is reduced.

Radiation Resistance: All antennas have a characteristic radiation resistance because of the comparative effects of their distributed inductance and capacitance. This can also be expressed as a current to voltage ratio. Whatever this ratio is, a characteristic impedance will result. For a dipole this is 72 Ohms, for a 1/4 wave Ground Plane with radials at 90 degrees to the radiating element this is about 34 Ohms, and for a 5/8 wavelength Ground Plane its about 90 Ohms.

SWR: Standing Wave Ratio is the term given to the measurement of current or voltage distribution as imposed within the antenna. It is usually measured as a voltage and therefore the term often used is "VSWR". If an antenna has a radiation resistance of 72 Ohms and we feed it with 50-Ohm coaxial cable, the SWR will be 1.44:1. If we fed a 90 Ohm antenna directly with 50 Ohm cable the SWR would be 1.8 to 1 (1.8:1 or $90/50 = 1.8$).

Phase de-coupling: Whenever the aperture size of an antenna is increased we have to make provision for the additional antenna elements to work in phase with the other elements. On vertical Omni-directional antennas phase de-coupling half wavelength radiators do this with quarter wavelength phase de-couplers. (Is this anything like soup de-jour? Ed)

Gain: Antenna gain is often times a controversial subject. It really shouldn't be,

for the following reason. Every time an antenna's aperture size is doubled, its gain will double. If I properly stack one beam antenna of equal size over its predecessor I will have doubled its aperture size. If I ignore the losses imposed by the feed line and phasing network, I will have added 3 dB's of signal gain. Don't forget though, there's no free lunch. If I put a 10 dB gain antenna on a 100 foot tall tower and use poor or cheap coax cable to feed it, it may well turn out that I have less signal gain than I would have had by putting a unity gain "J" up at 30 feet with good coax.

Special thanks to NJ5S (who actually understands this stuff! Ed)

The thrill of the chase in space

And speaking about space, one mid-west ham has not only discovered the excitement of the Amateur Radio satellites. He is also showing a lot of others just how easy it can be. Jack Parker, W8ISH has the story of a ham who is willing to take a chance:

Scanning the skies for a high tech QSO has become almost routine for Tom Chance, WB9KWS. With a handheld crossband Aero repeater, and your basic dualband HT, Chance is able to work many of the Amateur Radio Satellites crossing central Indiana.

According to Chance, these low Earth orbiting repeaters make it possible to communicate with hams around the world with very low power and a small investment in equipment.

Chance demonstrated this low priced, high tech communications mode for members of the Mid State Amateur Radio Club in Franklin, Indiana.

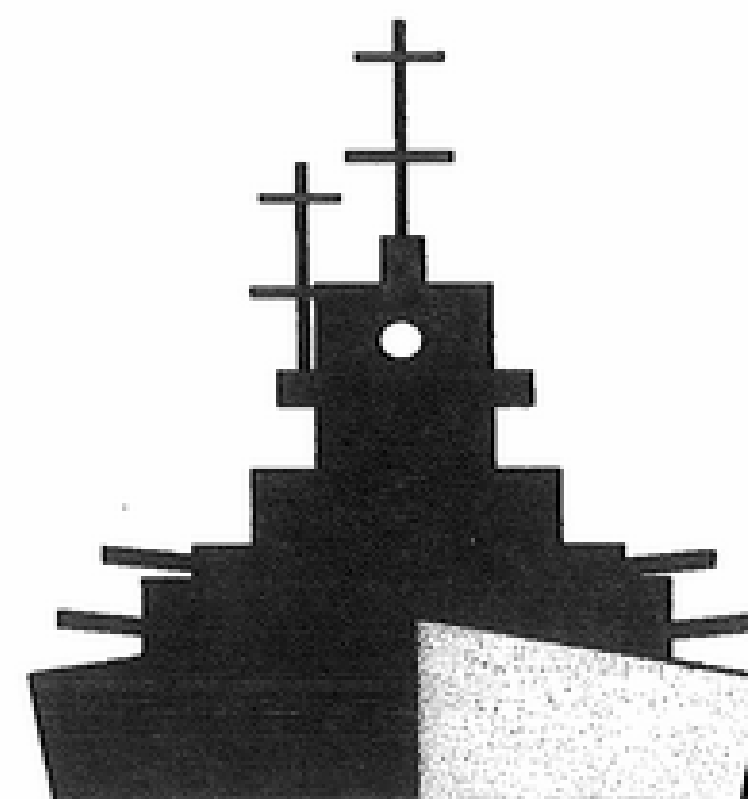
He said satellite tracking programs help locate and identify each pass of the dozen

or
Amateur
Radio
Satellites.

For more
information,
on Amateur
Satellites they
can be found
on the
AMSAT
Webpage by
typing:

www.amsat.org

(ANW)



Some subs

The Submarine Veterans Amateur Radio Association will activate several former under-seas radio rooms the weekend of April 24th to the 25th. This, to commemorate the 99th anniversary of the Navy's Submarine Service.

As many as twenty-five museum submarines in the United States and overseas will be on the air. Some of the museum boats have radio rooms restored and operational using their original equipment.

In addition to the high frequency and six meter operation, both the U.S.S. Cavalla and the U.S.S. Stuart will be active on several of the amateur satellites. Listen for the callsign WA5VKS calling on AO-27, RS-13 and RS-15. Satellite operators from the Houston and Dallas Texas areas will oversee operation of the satellite stations. QSL cards commemorating the event will also be available for all contacts made.

(AMSAT-BBS, ARRL, others)

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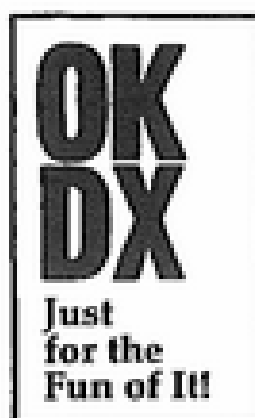
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OKlahoma DX Association

From Da'Prez...

By Bruce Burnette, K5PX

Time flies when you're having fun!!!! Wow, do I own all of you an apology. Between work, family crises, and buying a new house I have not had time to turn around for the past several months. So I have neglected my writing of this column. I'm sure many of you have been devastated by not being able to read my incoherent ramblings each month. I have received thousands, well maybe hundreds, OK how about one, E-Mail message asking me if I was still alive. But, I fooled all of you and I'm still around. I have been so busy that until the WPX contest in March, my rig had not been plugged in since JULY!!!

Anyway, I'm backkkk... We had about 25 people turn out at the meeting at the Green Country Hamfest, not too bad at all. It was good to see some old faces and meet a few new ones. We talked about the banquet, or the non-banquet, that we tried to have last fall. I feel like we had way too many things going on and we had to change the dates too many times. These factors led to no, or at least not enough, support or participation so we pulled the plug. Let us know what your thoughts are for this year, Yea or Nay on having a banquet. There is an extreme amount of work that goes into planning one of these and we have to have membership support if we are going to have a successful banquet!

We are going to sponsor two trophies for the WPX contests: **Single operator, all band, Low power for the SSB Contest and Multi operator, Multi transmitter for the CW Contest.** These are going to cost us a grand total of \$90 per year, and it gets our name splattered around in CQ. I know these are contests, but from the states they turn into a grand DX chasing party. You can obtain your DXCC in one weekend, with just a modest station and a little effort. I took this idea to the Board and got an overwhelmingly affirmative response. Craig Boyer sponsors a trophy, along with the guys who make up the "Boomer Contest Club" which is just a

bunch of us OKDXA guys in this part of the state who operate Field Day together. So, we have the State of Oklahoma well represented in the WPX world.

Dayton, the Mecca of Ham Radio, the place where big guns and little pistols share a common bond, the place where pocket protectors rule supreme, the place where some of the crazies from up North think that they can never sunburn! You would have to see it to believe it.... Day 2 finds all these guys who are bright red all over. I mean, if these guys were steak they would be medium rare! I promise myself to take my camera this year. My wife does not believe all of my stories from Dayton, (I can't understand why) so this year I'll bring back the proof! Dave Horn, KK5I and Ed Gilliland, NA5B are going to make the trip up this year and stay with the good Doctor Wayne Hudson, K5ZG. So we will have many new tales to tell.

Elections, Elections, Elections...

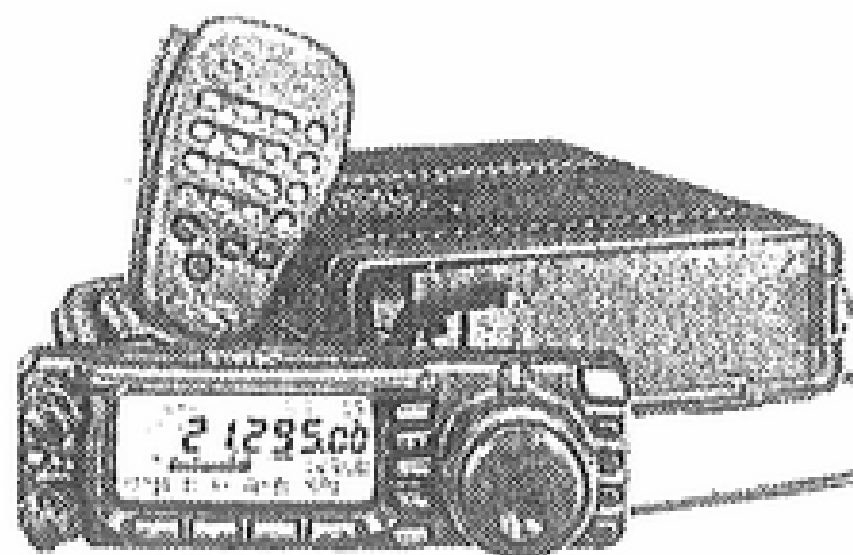
Coming up at Ham Holiday '99 in OKC, Saturday, July 24th. We need a few good men, or women to run for office. I know that we are going to need a new President and Secretary / Treasurer, and maybe a few more. Now is the time to step up and get on the list! Contact either myself or Mark, N5OG if you would like to serve. If you nominate someone else be sure and ask for his or her blessings first.

Well, that about does it from here. If you're still reading at this point you have:

1. Found this column very enlightening...
2. You are totally bored out of your mind and just killing time until you get to the ShaZamaHamaTronics advert... Or...
3. Your brain is QRT but your eyes aren't.

Anyway, until next time, Just work um!

73 Bruce, K5PX



Secretary / Treasurers Report...

By Mark Byard, N5OG

Greetings OKDXA members and happy spring! And by the way, how do you know when it is finally springtime in Oklahoma? Thunderstorms, of course! Hopefully not too many of you have been blown upon, enlightened with lightning, or massaged by hailstones so far this season. My tower is still standing and the old Mosley still has all of its "arms and legs". Hopefully that will be the case for one more storm season.

• Membership Notes

The OKDXA membership stands at 89 and I want to again welcome and thank our four new members mentioned in last month's newsletter: KK5I, W5CDW, W0PAN, and W5ZAV. Please help us spread the word about the OKDXA and if you have acquaintances who you think might like to join us please send me their address and I'll send them a membership packet and invitation.

• OKDXA Info by Mail

Rosters and financial reports were handed out to those attending the Green Country HamFest in March and I will have them available again at our Ham Holiday meeting in OKC. But if you can't or don't attend HamFests you obviously never have access to this very important info! Ha So remember that all of our OKDXA info - rosters, treasury reports, shirt order forms, membership apps, badge order forms, and OKDXA artwork - is just a postage stamp away. Simply drop me an e-mail or a postcard and I'll get your request in the mail pronto. (See addresses at end of NL)

• Elections in Two Months

A very important time is fast approaching! Our annual election of officers is just around the corner. The OKDXA holds the annual election of officers at the OKC Ham Holiday HamFest in late July. Now is the time to start our nomination process.

The Secretary / Treasurer normally serves as the chair of the nomination committee which also includes the President (K5PX) and Vice Presidents (K5YP and K5YAA). Please send in your nominations now. As a courtesy, always "OK" a nomination with the nominee before submitting. This avoids embarrassment should the nominee not share your enthusiasm for service! ha If you would like to serve but prefer not to

self-nominate, arrange for a friend to send in your nomination.

I have not spoken with Lu, K5YP, or Jerry, K5YAA about their wishes but I do know this will be the last year to serve as an OKDXA officer for Bruce and myself. We will need nominations for Secretary / Treasurer and the President positions. Perhaps Lu or Jerry would like to step into one or both these slots? Is there anyone out there good at arm-twisting? Ha

I have sent a message to our Board of Directors and past officers asking them to become active in the member contact and nomination processes. Please consider serving if you are contacted. Here are the email addresses for our current officers:

President - Bruce Burnette, K5PX
k5px@contesting.com

Vice President - Lu Fisher, K5YP
fisher@pdi.net

Vice President - Jerry Chouinard, K5YAA
k5yaa@aol.com

Secretary / Treasurer - Mark Byard, N5OG
n5og@poncacity.net

• The OKDXA Web Site Needs A Host

Our webmaster Dave Balli, N5XDN in Ponca City is researching an advertisement by QSL.NET to host Amateur Radio web sites for free. These "offers", however, usually involve some sort of advertising, e.g., splash screens, pop up windows, etc. This may (or may not) be satisfactory to our Board. Be thinking about this.

In the meanwhile, are any of our members willing to host the site? All it takes is a 3 to 5 mb of directory space. Our webmaster is willing to continue handling all the transfer and management. Please send inquiries to Secretary / Treasurer Mark at n5og@poncacity.net.

• OKDXA Sportswear Still Available

Several members have recently asked if the OKDXA silk-screened sportswear is still available. It sure is! I have recently discovered however, that my color lists for the three styles of shirts are obsolete. I will get the new color lists and update our order form. If you are interested in "Dressing OKDXA" please let me know.

• Email Address Changes

OKDXA NW Director Ted Doty, who lives in Cheyenne, reports the Internet has finally made it to the "boondocks" and he

has upgraded from Juno-Mail. Here is Ted's new address.

Ted Doty, AA5CK aa5ck@arrl.net
If you have an e-mail address change, please advise N5OG. I'll update the OKDXA database and publish the change in the next newsletter.

• GOLIST Moves To the WWW

THE GOLIST - QSL MANAGER LIST is an Amateur Radio institution. Owner John Shelton, K1XN, after a lot of work and planning, has now moved the list onto the World Wide Web. The GOLIST QSL Manager Database may now be accessed via the GOLIST WWW Site at

<http://www.itis.net/golist/>

You can view John's products on the site (meaning how you wish to receive THE GOLIST information), subscribe by credit card (or check), look up QSL routes, download products, update your QSL info, order products, or apply for a QSL manager. It is neat stuff, fast, and as always, accurate! Give it a view! You can contact John at his email address, golist@wk.net or at (901)-641-0109.



From Da' Editor...

By Nelson Derks, KC5QVV

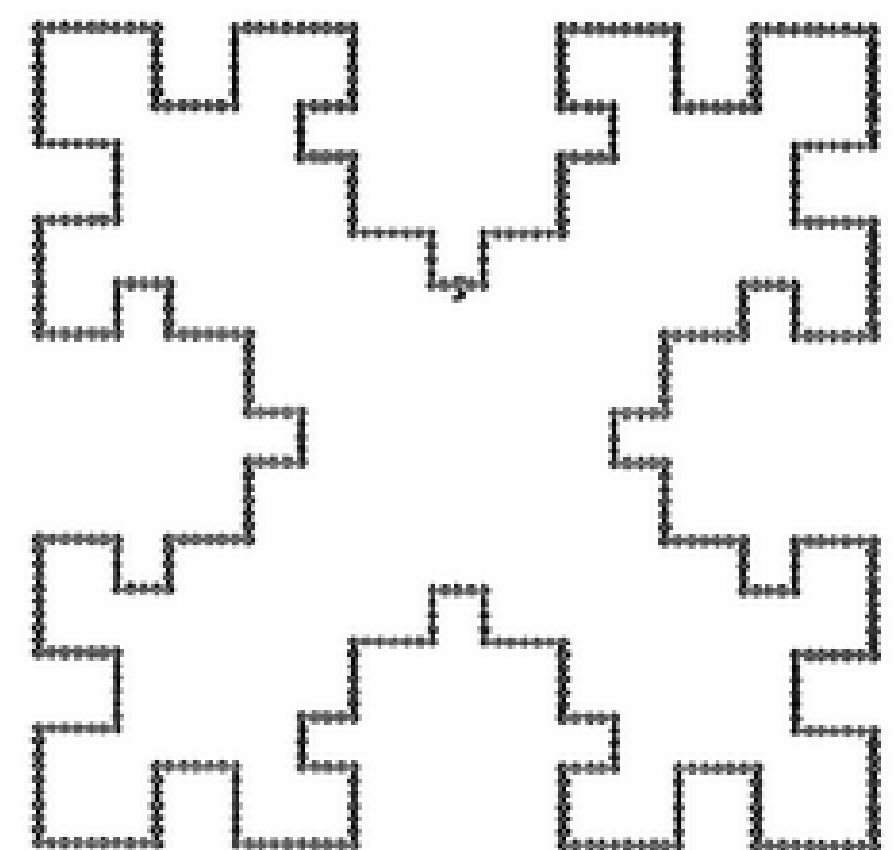
It must be official by now; spring has sprung all over Oklahoma and, if you're like me, you've been spending more time outdoors. Perhaps considering an antenna project or two during those long walks behind the lawnmower.

I had a nice crop of Henbit and Chickweed in the lawn this year and I'm mowing as short as possible to harass the remaining dandelions and weeds. As a general rule, I cut extra short in the spring after there's no chance of a hard freeze and start raising the mower height in May by a click every three weeks or so until I'm up around two inches or better in mid June. Taller grass needs less water and tolerates the heat of summer better as it shades more of the soil and doesn't need to grow as much after each cut. By August I'm cutting as high as the lawnmower will allow and continue to do so through the end of the season. I let it

winter at three inches or better as this helps insulate the Bermuda roots against the sharp temperature fluctuations and hard freezes we enjoy (?) every winter.

But... You ask... What does this have to do with Ham Radio in general and DX'ing in particular? Ahhhh... The less time we spend on lawn care, the more time we'll have to work the rare ones. If setting the proper cutting height for the time of the season and keeping the mower blade sharp leads to a good looking yard with minimal perspiration, why not? You remember the old cliché about the difference between working hard and working smart, don't you? Well, let's take a moment and see if we can DX a little smarter, too...

I'm currently doing some casual research into Fractal Antennas... What? You say you haven't heard of them? You will. It's a fairly new concept in compact antennas considered very 'odd' when Dr. Nathan Cohen N1IR, DX'er and Ph.D. in Physics, published his paper in 1995. When you see one for the first time you'll understand why as they don't look like any antenna you've seen before. *QST* rejected his first article in February of 1994 as a likely April Fool's joke... Can't fool the ARRL, you know. I wonder who's laughing now? I got the bug from the April issue of *Monitoring Times* which caters to the Scanner and SWL hobbies, but with some very good Ham content. As you recall, the Cubical Quad uses square loops of wire for the elements. Look at what happens when a loop gets the Fractal treatment:



'Fractalized' Cubical Quad Wire Element

It's a balanced antenna with a 50 ohm feed at any of the four center wire segments and needs no matching section, just a balun to decouple the coaxial feed. If you're on the Internet and curious, start with a visit to <http://www.fractenna.com> and take a look. While the commercial applications are currently in the cellular and PCS bands, N1IR shows us his two element Fractal Quad for 10 Meters and claims it has worked Europe on 1 Watt and Palau, Papua on 2 Watts from his QTH in Massachusetts. "Not Too Shabby", I'd say, for a quad four feet on a side with a six and a half foot boom. That's about half the size of a 'Real' Cubical Quad, or 1/4 the size of a comparable Yagi, but with 85% efficiency using aluminum wire and a F/B of 25dB. It was built for less than \$50.00.

Do I have your attention now...? Yeah, I thought so. We know 10 Meters has seen some very good days this winter, but I'm mighty impressed by his results. At times I've wondered if the neat, straight, lines, squares, rectangles and vees we've been using since Moses are in keeping with the fundamental 'Vibe' of the not-exactly-tidy world we squirt signals into. (...Jeez, Louise, he's way out there and headed for Mystic New Age Antenna Theory...)

Well... We know electrical current always travels the path of least resistance. Right? If so, why does lightning fork? Multiple paths of least resistance (think about it) or power dissipation into a lossy conductor? Whatever the reason, the 'forky' ion trail of a lightning stroke is a Fractal.

What's a Fractal? In geometric terms, it's a broken (jagged) curve comprised of a series of straight lines, but there are two schools of thought regarding the patterns: Deterministic and Chaotic. Depending on your view, a Fractal could be described as a repeating, or random, pattern of finite, or infinite, length. If only Professor Edwin Corey were around to explain it...

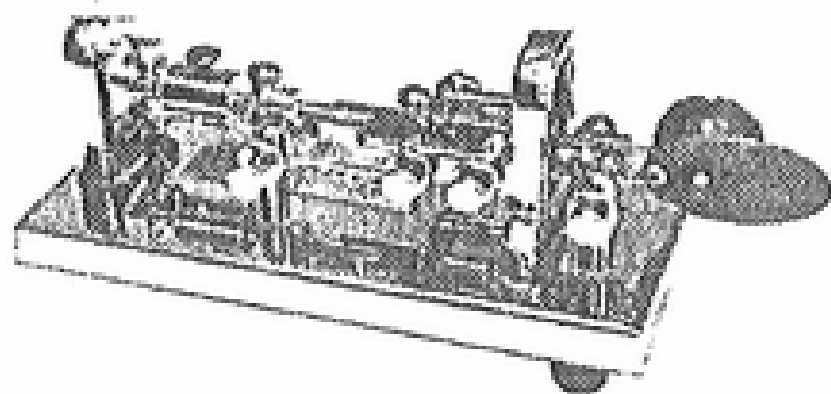
If you want a Close Encounter of the Fractal kind, visit <http://roselott.gsfc.nasa.gov/people/valdivia/thesis/thesis.html> and check out Juan Alejandro Valdivia's thesis "The Physics of High Altitude Lightning". Fractal Antenna Geometry is described in detail with mathematics as the primary language. The 'gsfc.nasa' in the URL refers to NASA's Goddard Space Flight Center... You don't need to be a Rocket

Scientist to follow the concepts, but it wouldn't hurt. It's a serious piece of work.

If you'd like a little experiment in odd phenomenon, try this: Go to the kitchen and pull a dinner plate out of the cupboard. Walk it over to the sink and crack open the faucet to a thin stream of water. Hold one edge of the plate under the faucet and tilt it at a 30-degree angle from horizontal and notice how the water runs straight down the plate. Reduce the angle until it's nearly horizontal (10 degrees or less) and watch what happens in a few seconds... The stream of water starts to oscillate across the surface like a standing sine wave. You could be looking at a 'smoothed' Fractal.

Why does the stream of water run straight at one angle and oscillate at another? The simple answer is the velocity of the water versus the surface tension as the angle of the plate is varied, but why does the path oscillate? Shouldn't it follow a straight line of least resistance regardless of the angle, or is a Fractal-like serpentine the true path of least resistance? Plan to spend a little time thinking about it if you're an experimenter at heart...

The point I'm trying to make is that if you look at natural energy patterns you'll find more similarities to Fractals than the straight-line geometry we use to design antennas. This fascinates me, but at the moment I know very little about Fractal antennas and probably understand less. I plan to torture some wire and think it over during those long walks behind the lawnmower... Maybe there is a connection between lawn farming and DX'ing.



OPDX Bulletin - Internet Edition

The Ohio/Penn DX PacketCluster
Editor Tedd Mirgliotta, KB8NW
Provided by BARF-80 BBS Cleveland, OH

3B9R UPDATE

The Rodrigues Island DXpedition is now QRT. They were expected to go QRT as of 2200z, April 10th (this is when their license was to expire). Frank, AH0W, reported last Thursday that he hoped the team would end up with 40K QSO's in the log by the end (they were 35K at the time

of the report). I am sure Frank will provide a DXpedition wrap-up upon his return to the states. Thanks to the DXpedition, Robert Felicite, 3B9FR, is now back on the air from Rodrigues. Robert has been off the air for over 5 years following a cyclone when he lost nearly everything he owned. Robert has been active on the weekends on 30 meters between 1330 and 1400z and between 2130 and 2200z. QSL direct only (this may change later).

Note: Frank Smith, AH0W is an OKDXA Member. Congrats and TNX for the Q's!

THE HOT DX TOPIC OF THE WEEK! P5, NORTH KOREA

Well known DX'er Martti Laine, OH2BH has again surprised the DX Community. Martti was active as P51BH for about 2 hours on April 21st. He was able to make 263 QSO's with antennas strung on a 150-ft tower. Martti states "the antennas were left right there together with the Yaesu FT-847 equipment. It is just a matter of switching the power on - when the time is right - to allow North Korea to join the ranks of amateur radio." In short "the operating was done between 1436-1640 Korean Time. First JA QSO was JA2DO, Europe OH5MBF, Oceania KH6WU and the US, W6WKE. Operation was on 14 MHz CW & SSB plus 21 MHz SSB. Documentation will be sent to the ARRL shortly and QSL cards will be released from the OH2BH Finland address as soon as possible." Martti is currently in Beijing, China. NOTE: Audio from this operation may be heard on 9K2HN's home page:

<http://www.qsl.net/9k2hn>

8J1, ANTARCTICA

The "DX News Letter" reports that the Japanese club station 8J1RL is situated on Ongul Island (IOTA AN-015). OPDX has found this station active on 21246 kHz between 1600-1630z. QSL via JARL buro.

T8, BELAU

The "DX News Sheet" reports Hiro, JH3FJG and Kenji, JI3DLI will be active July 20-25th as T88JR and T88DX. Activity will be CW / SSB / FM on 80 thru 6 Meters. QSL via their home calls. Listen for Misao, JJ1DWB; Hide, JM1LJS; and Hiro, 7N1KAE to be active as T88MT, T88LJ and T88YH April 27th - May 6th.

ZK1, NORTH AND SOUTH COOK ISLANDS

Listen for Wolf, DL2SCQ and his wife Ann, DL1SCQ to activate a few IOTA's from these two islands during the month of August. Their calls will be ZK1SCQ and ZK1SCR with planned schedules of:

August 4-8th - Rarotonga Island (OC-013), S.C.I.

August 10-12th - Aitutaki Group (OC-083), S.C.I.

August 14-17th - Mangaia Island (OC-159), S.C.I.

August 20-25th - Manihiki Atoll (OC-014), N.C.I.

August 28-31st - Palmerston Atoll (OC-124), S.C.I.

Bands & Modes were not mentioned. QSL via DL6DK, Peter Voilts, Uhlandstr 28, D-59192 Bergkamen, Germany.

SV9, CRETE

Bob, I2WIJ, will operate as SV9/I2WIJ during his summer vacation, July 12-26th. He will participate in the IOTA Contest as a Single Op (24hr CW) DXpedition Mode entry. He will be using a Cushcraft R7 and ICOM IC706 MkII. Listen for him on the usual IOTA frequencies and the WARC Bands. For more news, updates, and on-line logs after the operation, visit Bob's Web page at: <http://www.qsl.net/i2wij/>

3C, EQUATORIAL GUINEA

(New IOTA!) The "DX News Sheet" reports that Jean, TR8XX is planning to be active May 22nd from Corisco Island (in the Rio Muni Province Group). His length of stay is not known. Details are to follow.

T30 & T33, WEST KIRIBATI AND BANABA ISLANDS

A German team from the Berlin DX Group will go to T30 and T33 in October-November, 1999 for three weeks. The team includes 8 Ham operators. They will try to use two calls, one for SSB and another for CW / RTTY, calls to be announced when available. They may be able to run three stations around the clock and all stations simultaneously. October 28th through November 2nd operation is planned for Banaba. They will be leaving Kiribati on the morning of November 11th. For more details visit the Web site at: <http://www.qsl.net/DL2RUM>

FO, MARQUESA AND AUSTRALES ISLANDS

The "LNDX" reports that Alain, F2HE will be signing FO/F2HE from Marquesas starting June 4th. In July he will return to Tahiti with stopovers in the Tuamotu Archipelago (OC-066) and Raiatea (OC-067). In August he will be in the Australes on the Island of Tubuai (OC-152). He will return to France in early September.

5N99, NIGERIA

Stan Matejicek, OK1JR has been in Lagos since March 31st on a short business trip. He received his license from NARS (The Nigerian Amateur Radio Society - he is a Life member) and has the call 5NØMSV. Stan will stay here until the end of May and is operating from the Embassy of the Czech Republic. Listen for him during local afternoon times (Stan states, "We are one hour +GMT). He was spotted during various times (between 1530 and 0000z) on 10 / 12 / 15 / 17 / 20 / 40 meters. Stan mentions 40 and 30 meters are interesting bands during the night, but few QSN's have been reported. He should have an excellent signal on 20 / 17 / 15 / 12 / 10 Meters using a TS-950SDX and 1K amp into a 12 element Log-Periodic. QSL's go via his home call OK1JR, Stan Matejicek, Moskevská 1464 Praha 10, Czech Rep. Stan has promised to send all direct QSL's as quickly as possible in June and July.

9N7, NEPAL

Charlie, K4VUD currently active here, had a call sign change to 9N7UD (ex 9N1UD). Foreign visitors are now designated with a "7". Charlie has been active on 20 / 15 Meters. Listen for him on / around 21295 kHz between 1400 and 1500z, and on 20 meters CW/SSB (14022 / 14200) after 0130z. QSL via K4VUD.

SPECIAL EVENTS:

ARGENTINA Hams plan to celebrate the 75th anniversary of the contact between Carlos Braggio, R-CB8 in Buenos Aires, Argentina, and Ivan O'Meara, Z-2AC in Gisborne, New Zealand that established the world DX record in 1924. Radio Club Argentino, LU4AA will celebrate between May 16th and 23rd with the following:

- 1) The official RAC station will use the special call L75CB and confirm the QSO's with a special QSL card.
- 2) On May 21st L75CB will transmit continuously (24 hours) on CW, the mode used by Braggio and O'Meara during their

contact. Stations contacting L75CB on this mode that day will also receive an award.

3) During the period between 0000z, May 16th, and 2400z May 23rd, every amateur radio station in Argentina can operate with a Special International Prefix. Stations beginning with LU will use L2 (LU4AA = L24AA). LW will use L3 (LW8EZU = L38EZU). AZ will use L4 (AZ1AAA = L41AAA). L75CB QSL's may be sent via the LU4AA Bureau or to P.O. Box 97 - Zip Code 1000 Buenos Aires, Argentina. E-mail to lu4aa@lu4aa.org or visit the LU4AA web page <http://www.lu4aa.org>

IOTA NEWS:

NEW IOTA. The "LNDX" reports that Christian, 6W1QV; Jean, TR8XX; and Alain, TR8CA will be active as 3C8XX from Corisco Island from May 22-30th. They will have two complete stations, one on CW and one on SSB. QSL via TR8XX. **EU-038.** Marcel, ON4ASW, reports the club station ON4NOK (UBA section NOK) will be active from the Island of Texel, Netherlands, during the IOTA contest July (23), 24 and 25th. Their call will be PA6TEX. Activity will be CW & SSB. Also, listen for them on the WARC bands. QSL via ON4ALW.

EU-074. F5JOT, F5TBF, F5LGQ will be /P from Brehat Island from May 8-16th. They will be active on 80-10 meters CW/SSB.

EU-074 / EU-105 / EU-157. F5SNY and F5PFT will be /p from Batz Island (EU-105) May 3-5th, Brehat Island (EU-074) May 7-9th and Cezembre (EU-157) May 10-13th.

NA-136. Tony, WF1N and Lou, W1DIG (ex-KA1DIG) will be on Pot Island in the Thimble Island Group, May 21-23rd. Their operation will start around 1500z Friday and end about 1800z Sunday. Listen for SSB on (and near) the usual IOTA frequencies. QSL to home calls direct (SASE Please) or Bureau. Tony can be contacted at: megahertz@webconn.net **NA-169.** Hillar, N6HR and Elsie, N7WDX report they have reached a Memorandum of Agreement with the Makah Nation Tribal Council with permission to land and operate from the rare Tatoosh Island. This island off of Cape Flattery in Northwest Washington is a sacred "Makah Indian" burial ground. The full report will be released at the IOTA Meeting in Fresno. They will be on the air during the IOTA Contest July 24/25th with at least two KW stations giving out NA-169 QSO's to the deserving. Look for more details to follow.

SA-027. Listen for PY5B (SSB) and PV5L (CW) to be active from Arvoredo Island (DIB 46), May 13-17th. Listen for them on the IOTA frequencies and Brazilian nets. QSL via PP5LL, Jayme Lira, PO Box 08, Florianopolis/SC, 88010-970, Brazil. E-mail address: pp5ll@netplan.net

QSL NEWS:

BY1PK, the official station of the Chinese Radio Sports Association, participated in the Japan International DX CW Contest. The operators were BA1AA, BA1AB, BA1DU, BA1OK, BA1RB and others. QSL via P.O. Box 6106, Beijing 100061, CHINA.

MISCELLANEOUS NEWS:

GREETINGS FROM NORTH KOREA P51BH WAS A GENUINE STATION

I have just returned from my sixth visit to North Korea, with many cherished friendships and many totally new. It is just amazing how friendly those people are and how much they enjoy life in spite of their needs in many areas.

I arrived there on April 20, with departure set for Thursday, April 22. From the site I was located at, it was an 8-hour drive from the closest airport on bumpy roads. So, out of the three days, I spent my fair share in a 4WD vehicle, seeing the landscape of this mysterious land.

While discussing the future of amateur radio in a longer term perspective, an immediate allowance was made to test the equipment and show the people present the boring content carried by our DX contacts - but carried for a good cause. I am most grateful to those who shared their excitement with us by saying hello to my friends in North Korea (thanks to W6OSP, KH7RS, SM3EVR and WH6CZD).

Many would ask why was it not pre-announced and why was only a limited amount of specific information released? During these several years of DX missionary efforts, it has become obvious that if you are able to work on a project in peace, the best overall results will be achieved. Many major efforts are typically hampered by competing forces who have a hard time accepting the success of others. It was only a few years ago that North Korea was just about to hit the airwaves when one competing body launched an attack to undermine a potentially successful endeavor.

Although the current DXCC rules (Rule 12) provide specific protection against that kind of behavior, it is still an issue that we all would like to eliminate from our true promotional schemes designed to further the cause of amateur radio in our dealings with the authorities of countries of intense DX interest.

Best regards from sunny Beijing,
Martti J. Laine, OH2BH/BY1

Well known DX'er **William Elasmarr, HK3RQ** has become a "Silent Key, SK", after a long and stressful coma. HK3RQ was very well known to many old timers who had their first HK QSO confirmed via his activity on SSB and CW. OPDX and OKDXA extend their deepest sympathy to his family and friends.

In a letter from the Radio Society of Great Britain dated March 29th and effective June 30 1999: "**The RSGB will no longer be producing the RSGB DX News Sheet**". This decision was made by the RSGB's Management Committee on the recommendation of General Manager Peter Kirby, GØTWW. A steady decline in subscriptions and alternative DX News sources on the Internet contributed to the decision. All inquiries about the DXNS should be referred to Barry Cooper, G4RKO Commercial Manager at RSGB HQ. The DXNS was considered one of Europe's finest printed DX bulletins and will be missed.

New ARRL VHF Category Addition

The ARRL Awards Committee has voted to accept a Contest Advisory Committee recommendation for the addition of a Single Operator Low Power entry category for VHF Contests, beginning with the January 2000 VHF Sweepstakes. The maximum power limits for the new Single Operator Low Power category will be:

50 and 144 MHz	200 Watts PEP max
222 and 432 MHz	100 Watts PEP max
902 MHz and above	10 Watts PEP max

To qualify for the new category a station must operate within the maximum power limitations on each band in which they participate. Certificates and awards will be developed for the new category according to the current awards structure. This rule will not affect the current Single Op QRP Portable category. The goal of the new category is to encourage participation among the large number of VHF / UHF contest enthusiasts, many of whom can be

competitive at lower power levels. For more information, contact Dan Henderson NIND, Contest Branch Manager, ARRL.

FCC Enforcement Changes

The FCC has discontinued the Amateur Enforcement Line (202) 418-1184 for Amateur Radio complaints and requests amateur-related complaints be sent either via e-mail to fecham@fcc.gov or by mail.

The FCC instituted the telephone service last fall when it beefed up amateur enforcement under the direction of Riley Hollingsworth, K4ZDH. However, the FCC never intended to maintain the telephone service permanently.

Complaints sent via the US Postal Service go to: Compliance and Information Bureau ATTN: Amateur Radio Complaints, 1270 Fairfield Rd, Gettysburg, PA 17325. The FCC said that complaints already filed on the telephone service will be acted on, and anyone who left a message will get a return call from Commission staff.

Excerpts and distribution of
The OPDX Bulletin are granted as long as
KB8NW / OPDX / BARF80 receive credit.

Doctor DX...

*When it comes to DX Advice you can trust,
you can always trust Doctor DX...*



Dear Doctor DX:

I built the Extended Double Zepp for 15 and 40 Meters in the last issue of the C&E. The SWR is good on both bands and it works well on 40, but 15 has been so poor I've only made one QSO. What's the deal?

Signed: Local Yokel on 21 MHz

Dear Yokel:

15 Meters ran hotter than a Ford with a plugged radiator in March and early April then puked & died... It could be back in biz by the time you read this. Also, if you hear a VK or ZL on 15, call 'QC' instead of 'CQ'... They're down under, you know.

Dear Doctor DX:

When I type 'Zero' call signs in Windows, how can I get a slashed 'Ø' instead of '0'?

*Signed: Keyboard Konfusion**Dear Konfused:*

Hold down the ALT key and type 0216 on the numeric keypad (10 key pad on the right). That's how you enter character codes directly... A 'Ø' should appear like magic. In Windows '95 or '98 there's a utility on the CD-ROM called 'Character Map' that shows all the characters and codes for installed fonts. Look under System Tools / Accessories for it. There is no slashed zero in True Type fonts, but 0216 is the 'Nordic Oh' and looks similar.

Dear Doctor DX:

Last week I set up my old dynamic desk mic for my new Kenmore HF transceiver and it has very low sensitivity. The mic works fine on my older rig. Is this normal?

*Signed: Screamin' on 75**Dear Screamer:*

Many newer transceivers ship with an amplified hand mic and provide about 8 volts DC of phantom power on the audio line. Install a blocking capacitor of 1µf at 16 volts in series with the mic element.

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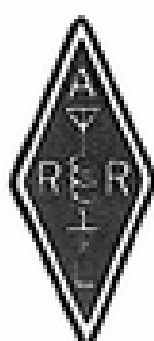
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A. R. R. L. Bulletins

From: ARRL Headquarters
Newington, CT
To: All radio amateurs

ARRL Bulletin 28
April 29, 1999

FCC Drops Amateur Radio Enforcement Line

The FCC has discontinued its Amateur Enforcement Line (202-418-1184) for Amateur Radio complaints and now requests amateur-related complaints be sent either via e-mail to fccham@fcc.gov or by mail.

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Complaints sent via the US Postal Service go to: Compliance and Information Bureau
ATTN: Amateur Radio Complaints, 1270
Fairfield Rd, Gettysburg, PA 17325.

The FCC said this week that complaints already filed on the telephone service will be acted upon, and anyone who has left a message will receive a return call from Commission staff.

ARRL Bulletin 27
April 27, 1999

FCC says no to expanding special event call sign program

The FCC has denied the ARRL's petition that sought to expand the Amateur Radio special event call sign program. The League had asked the FCC to amend its rules to permit the use of special event call sign formats that go beyond the currently authorized one-by-one (1x1) format. The petition also had asked the Commission to include call signs denoting US territories and possessions having no mailing address within the special event program.

In an April 21 letter to League, D'Wana Terry, chief of the Public Safety and Private Wireless Division within the Wireless Telecommunications Bureau said the FCC was "not persuaded that the requested changes to the system are warranted at this time." The League's petition was submitted May 18, 1998, but it was never assign a rulemaking number or put out for public comment.

ARRL Executive Vice President David Sumner, K1ZZ, called Terry's decision "somewhat disappointing."

The special event call sign program is administered by several private sector coordinators, including the ARRL. Those wanting a special event call sign for a limited period are able to reserve one via the Internet. Under current rules, 750 combinations of 1x1 format call signs are available for limited periods. Stations operating with special event call signs still must identify with the station's regularly assigned call sign at one-hour intervals.

In its petition, the League said there has been significant demand for special event call signs outside of the 1x1 format and for DXpeditions to locations under US jurisdiction that lack US Postal Service addresses. The League also said that there has been "a great deal of interest" in additional special event call sign formats that would let the call sign symbolize a particular event or type of event.

Terry said the FCC has not received any indication from the Amateur Radio community that demand for special event call signs exceeded the number available. She also said the need to create additional formats was outweighed by the complexity of creating them.

Terry advised more experience with the current system before deciding to change it, and she urged the League to continue to monitor demand for special event call signs. Sumner said he was encouraged that the FCC, while denying the petition, had invited the League to revisit the issue later.

ARRL Bulletin 26
April 16, 1999

League tips hat to amateur volunteers
ARRL Headquarters has issued a hearty thank you and a tip of a ten-gallon hat to

all Amateur Radio volunteers during National Volunteer Week, April 18-24.

Our great hobby is even greater because of your dedication and the many types of efforts you put forth. Your volunteer activities start with planting the seed about Amateur Radio and continue in assisting with earning a license to encouraging a ham's interest in any and every aspect within Amateur Radio.

In the realm of public service, ham radio volunteers serve admirably to provide emergency communication and assistance of all types during disasters and emergencies everywhere. For disaster victims, Amateur Radio volunteers often have provided a link with the outside world when other systems failed, easing the plight of victims and helping affected communities to recover.

All of you around the United States and overseas deserve high praise.

ARRL Bulletin 24
April 7, 1999

FCC Issues Strengthened Scanner Receiver Rules

The FCC has amended its rules to strengthen existing prohibitions on scanning receivers that can receive cellular telephone transmissions. While the new rules contain specific exemptions for the Amateur Service, they will have important ramifications for the manufacture of new Amateur Radio equipment that scans frequencies outside the ham bands.

The new rules--released March 31 in a Report and Order--broaden the definition of a scanning receiver to include receivers that automatically switch among two or more frequencies between 30 and 960 MHz and are capable of stopping at and receiving a detected signal. Still exempted are receivers designed solely for operation as a part of a licensed station. In response to an ARRL request, the FCC clarified that the rules do not apply to Amateur Service receivers unless they cover frequencies outside the ham bands.

The FCC also widened its definition of "test equipment" exempted from the cellular reception restriction. The adopted definition defines test equipment by function, rather than by end user as

proposed, thus permitting sale to the general public.

Receivers that allow reception of cellular frequencies because of their poor image response would be illegal under the new rules. As it proposed, the Commission adopted a 38 dB rejection standard for signals in the cellular bands "for any frequency to which the receiver can be tuned."

The FCC abandoned a proposal to require manufacturers to limit reception of cellular service frequencies by "direct pickup" through the cabinet. The FCC also backed away from a proposal that could have required epoxy potting and nonremovable components to prevent scanner modification. The League had argued that this could raise the cost of buying and repairing equipment and could preclude ham gear modification for CAP and MARS or for experimental purposes.

The FCC adopted a more generalized requirement that receivers be designed so that tuning, control circuits, and filtering be inaccessible, and that the design be such that any attempted modification would render the receiver inoperative.

The new FCC rules also prohibit modification of scanning receivers as a business or on an ongoing basis "regardless of the date of manufacture or number of units modified." The Commission also said modification of any scanning receiver is prohibited and invalidates the equipment authorization. New, permanent labels on scanning receivers also will be required.

Kits for scanning receivers would be treated the same as assembled equipment. The Commission said that ham radio scanning receivers "already cover frequency ranges needed by amateurs" and a prohibition against scanner kits "will not impact frequency converter kits used to expand the frequencies covered by amateur equipment." The League plans to look closely at this provision to make sure it will not prevent amateur manufacturers from producing legitimate transverting equipment.

The FCC said it was modifying its rules "to clarify that the prohibition on modifying scanning receivers to receive Cellular Service transmissions contained

in Section 15.121 overrides the home built device provisions of Section 15.23."

The proposed new rules become effective due 30 days after their publication in the Federal Register. But the FCC said it will include "transitional provisions in our rules to allow the acceptance of equipment certification applications for scanning receivers under the current rules for up to 90 days after the publication of the R&O.

A copy of the Report and Order is available at <http://www2.arrl.org/announce/et98-RandO.html>.

ARRL Bulletin 23 April 1, 1999

FCC says reciprocal permits now "paperless"

The FCC is advising applicants for reciprocal operating permits that an application is no longer required. Under new ULS rules that took effect February 12, the FCC Form 610A has passed into history. The new rules also will pave the way for US hams to more easily operate in most of Europe. The FCC is expected to issue a Public Notice in the near future that will spell out the details.

Alien visitors to the US holding an amateur license issued by their home country may operate in the US without submitting any FCC paperwork--provided that a reciprocal operating agreement is in effect between the two countries. The only documentation required is proof of citizenship and an Amateur Radio license issued by the country of citizenship. These arrangements are similar to longstanding arrangements between the US and Canada.

The new rules move the US a step closer to participation in the licensing arrangements of CEPT, the European Conference of Postal and Telecommunications Administrations. The US State Department applied for US participation in 1997, and the request was approved in early 1998. Completion of the final steps to make this a reality is understood to be imminent. These include formal US notification to the European Radiocommunications Office that it is prepared to carry out its responsibilities under CEPT Recommendation T/R 61-01, and the issuance of a Public Notice in English, French and German.

Under the CEPT arrangements, a US Technician licensee will be recognized as holding the equivalent of a CEPT Class 2 (VHF-only) license. Holders of Tech Plus through Extra tickets will have the full HF and VHF privileges of a CEPT Class 1 license. Novice licensees will not be eligible.

Additionally, the ARRL has informed the US State Department that it plans to go forward in April with arrangements to issue International Amateur Radio Permits to US hams in accordance with the CITEL Amateur Convention, signed by several countries in the Americas. The League has offered its services to issue IARPs to US hams. An IARP is not a license, but it certifies the existence of a license.

The new rules will not change the procedures for US hams wishing to operate overseas in countries that are not CEPT members or CITEL Amateur Convention signatories.

ARRL Bulletin 22 March 31, 1999

ARRL rebuts late-filed power industry arguments in LF proceeding

The ARRL has rebutted assertions that amateur LF allocations at 136 and 160 kHz could lead to interference with utility-operated power line carrier (PLC) systems. The unallocated and unlicensed Part 15 PLC systems are used by electric utilities to send control signals, data and voice. At the same time, the League urged the FCC to issue a Notice of Proposed Rulemaking to open the LF bands up to amateurs.

Last October, the League petitioned the FCC to create low-frequency Amateur Radio allocations at 135.7 to 137.8 kHz and 160 to 190 kHz. The ARRL proposed permitting CW, SSB, RTTY/data, and image emissions at a maximum power level of 2 W effective isotropic radiated power. The utilities' PLCs operate between 10 and 490 kHz.

The comments in question--from four parties including Commonwealth Edison and Mark Simon--arrived at the FCC well beyond the December 23, 1998, comment and the January 7, 1999 reply comment deadlines. They also appear to be the only comments filed on behalf of the power industry.

The League has requested that the FCC strike the late comments from the record, but it also rebutted their substance in case the FCC decides to accept them anyway.

The League debunked Simon's suggestion that ham interference could lead to dire consequences to unlicensed PLC systems. The League said Simon fails to explain why a marginal-level amateur signal would cause problems "where loud static crashes in the same bands do not."

The League said PLC systems already have been shown to operate effectively "in an environment of extremely high power government stations using thousands of watts of EIRP."

The League also took ComEd to task for suggesting that hams be obliged to protect PLC systems against interference. The ARRL pointed out that PLCs have "no incumbent allocation status" and are not entitled to protection from licensed systems. The ARRL acknowledged existence of the PLC systems in its October petition and provided a technical analysis indicating that amateur interference to PLCs was unlikely.

The League suggested that the utilities make available an industry database of PLC operating parameters that hams could consult as a guide to avoid interference. It concluded that the FCC should not make allocations decisions "based in whole or in part on the presence or absence of Part 15 devices in a particular band segment" since the devices have no inherent allocation status.

The League said it remains willing to address any interference cases that might arise and urged the FCC to issue a Notice of Proposed Rulemaking on the ARRL's request "without further delay."

Kosovo and Ham Radio

For families of displaced Kosovo Albanians living overseas, communications with their loved ones has become very difficult. As the NATO action drags on and the regions infrastructure continues to be destroyed, communicating with those relatives trapped in the war zone gets even harder. Now comes a helping hand from ham radio as we hear from Q-News Graham Kemp, VK4BB:

Have you heard T94GB on air? This is Drago. Broadcasting from the only country in the Balkens with which the U.S. has a third party agreement. T94GB is QRV daily on 80 meters with war zone and refuge areas gathering health and welfare traffic. Then passing that to the 15-meter phone network of IEAU. IEAU - that is the International Assistance Unit operated by President Mike Christopher, KG2M.

Needless to say, this kind of publicity once again shows the importance in the work that the Amateur Radio Community provides to the world.

And it appears as if ham radio is beginning to handle more than just the good news. According to one television news report, hams involved with communications dealing with Kosovo refugees sometimes receive news of the death of someone's loved one. That information is passed on to the Red Cross which has people trained to inform the families.

(Q-News, IEAU)

Riley at NAB

"Hey who'se this guy. Why its Riley Hollingsworth!" FCC Chief Richard E. Lee:

It's rather rare for a group of broadcasters give a standing ovation to an FCC official, but the introduction of chief rules enforcer

Riley Hollingsworth, K4ZDH by Compliance and Information Bureau Chief Richard E. Lee, had that effect.

Hollingsworth was a surprise guest at the gathering of 800 or so ham radio operators who are also broadcast executives, managers and engineers. It took place at the National Association of Broadcasters Amateur Radio reception in Las Vegas on Wednesday April 21st. In his short address, Hollingsworth was quick to give credit to others in the bureau who he says has made enforcing the ham radio rules a top priority:

"I want to say that there's two reasons that we ham Amateur Enforcement today. Pam and Rich. Pam and Rich. They went to the Chair and asked for it last October and I respect them for it. Because at the time they went to ask for it, they were totally loaded up with pirate broadcasting cases. And the last thing they needed was more work.

But, Rich being a ex-marine and totally being serious about enforcement. You don't have any flanks or fronts that are uncovered. And Rich is serious about enforcement and wants it done right, done on time, excellent quality about it.

The other thing I learned about ex-marines, not only do they want all fronts covered. They want them covered at the same time." Hollingsworth

Hollingsworth also indicated that there is more to come:

"Rich and Pam are both fond of maps and pins. When I go down to headquarters once a week I learned right off the bat, you don't go to headquarters in Gettysburg with one little pin to put in the map. You go with a bunch of stuff. And that's why we have enforcement.

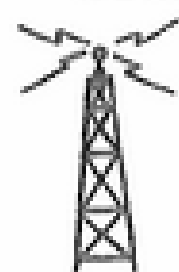
And the staff can be as enthusiastic as it wants to, the signals and direction comes from the top. And that's what we got." Hollingsworth The warm, welcome afforded Hollingsworth has to have impressed other FCC officials at the reception. If any wondered how hams felt about the renewed Amateur service rules enforcement, the applause and cheers have delivered a strong message. One that tells the FCC and Riley Hollingsworth to keep up the good work. (Newsline)

Clear Signal Products, Inc.

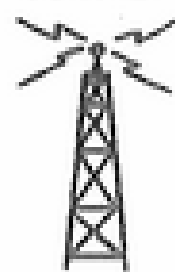
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CEDAR LAKE RD.	.175
IMHOFF RD./ EW 126	.188
LINDSEY RD./ SOONER RD. SOUTH OF TECUMSEH	.203
ALAMEDA/ MAIN IN NORMAN	.218
S 225 th / ROBINSON RD./ TUCKER RD.	.233
S 209 th / ROCK CREEK RD.	.247
S 194 th / TECUMSEH RD./ WALNUT ST. IN TECUMSEH	.261
FRANKLIN RD.	.276
S 179 th	.286
S 164 th / 34 th MOORE/ INDIAN HILLS RD. / BENSON PK. RD.	.290
HARDESTY RD./ BETHEL RD.(EAST-WEST)	.304
S 149 th / 19 th MOORE/ STELLA RD./ FARRELL RD.	.319
S 134 th / 4 th MOORE/ LAKE RD./ HIGHLAND	.333
S 119 th / 12 th MOORE/ INDEPENDENCE/ HOMER LANE RD.	.348
S 104 th / 27 th MOORE/ MACARTHUR IN SHAWNEE	.362
S 89 th / MEMORIAL RD./ 45 th ST IN SHAWNEE	.377
S 74 th / PARKWOOD RD./ WESTECH RD./ EW 112/ HWY152	.391
S 59 th / GARRETS LAKE RD./ EW 111	.406
S 44 th / WOLVERINE/ REDSKIN RD./ EW 110	.421
S 29 th / MOCCASIN TRAIL/ OKLAHOMA ST./ EW 109	.435
S 15 th / KICKAPOO RD./ EW 108/ HAZEL DEL RD.	.449
RENO/ EW 107/ MISSION RD.	.464
N 10 th / BANKERS HILL RD	.478
N 23 rd / RED HILL RD./ VANDERMENT RD.	.493
N 36 th / HWY 62 E OF HWY 102	.507
N 50 th / WAGNER RD.	.521
N 63 rd	.535
WILSHIRE RD./ N 78 th / PAYSON RD.	.550
BRITTON RD./ JONES RD./ N 93 rd	.565
HEFNER RD./ N 108 th / DARLINGTON RD.	.580
N 122 nd	.594
MEMORIAL RD./ N 136 th	.609
33 rd EDMOND/ N 150 th	.623
15 th EDMOND/ N 164 th	.638
2 nd EDMOND/ N 178 th	.652
DANFORTH RD./ N 192 nd	.667
COVELL RD./ N 206 th	.681
COFFEE CREEK RD./ 220 th	.695
SORGHUM MILL RD./ N 234 th	.710
WATERLOO RD./ 264 th	.725
SIMMONS RD.	.739
CHARTER OAK RD.	.754
SPRING RIDGE	.770
FORREST HILLS	.783
SEWARD RD.	.797
CAMP RD.	.812
PRARIE GROVE	.841
INDUSTRIAL RD., GUTHRIE	.856

LATITUDE- 1 MILE= .01375 1/2=.007 1/4=.003
LONGITUDE- 1 MILE= .01610 1/2=.008 1/4=.004

LONGITUDE (ROADS THAT RUN SOUTH TO NORTH)
NUMBERS W 96.XXXxx format (metric)
ROAD NAME LONGITUDE NUMBER

HWY 9A/ GABLES CEMETERY RD.	.806
???	.824
KINGS RD.	.842
MUSSON RD.	.858
BRANGUS RD.	.876
HWY 18 IN MEEKER AND NORTH/ BRYAN RD.	.894
HARRISON RD./ PERSIMMON HILL RD./ (HWY 18)	.912
BEARD ST. IN SHAWNEE (DO NOT USE AS A MILE INTERSECTION)	.925
KICKAPOO ST.	.930
LEO/ 13 ST. IN W. TECUMSEH	.947
ACME RD./ WHISPERING OAKS RD. IN TECUMSEH	.965
COKER RD.	.982
↓ W 97.XXXxx ↓	
HWY 177/ GADDY RD./ NS 337	.000
NS 336/ BETHEL RD.(NORTH-SOUTH)	.018
RUMMOND RD./ RANGE RD./ WHITE ROCK RD./ NS 335	.036
OLD HWY 102/ FOWLER RD./ NS 334	.054
ROOKER RD./ OAK RD./ BLACKBERRY DR./ STEVENS DR.	.071
McLOUD RD./ HWY.102/ PATTERSON RD./ NS 332	.089
ARENA RD./ CAPTAIN CREEK/ WALKER RD.	.107
(FISH)MARKET RD./ PINECREST RD./ PLEASANT RUN	.124
COUNTY LINE RD./ POTTAWATOMIE	.141
HARRAH-NEWALLA RD./ 192 ND AVE./ BRENDLE CORNER	.159
DOBBS RD./ 180 TH AVE.	.177
LUTHER RD./ 168 TH AVE./ LITTLE JIM RD.	.195
PEEBLY RD./ 156 TH AVE.	.213
TRIPLE XXX RD.	.230
INDIAN MERIDIAN RD./ 132 ND AVE.	.247
CHOCTAW RD./ 120 TH AVE.	.264
HENNY RD./ 108 TH AVE.	.282
HIAWASSE RD./ 96 TH AVE.	.300
ANDERSON RD./ 84 TH AVE.	.318
WESTMINISTER RD./ 72 ND AVE.	.335
POST RD./ 60 TH AVE.	.353
DOUGLAS BVLD./ 48 th AVE.	.370
MIDWEST BVLD/ 36 th AVE.	.388
AIR DEPOT BVLD/ 24 th AVE.	.406
SOONER RD.(77H)/ 12 th AVE.	.423
SUNNYLANE RD./ COLTRANE/ PORTER AVE./ JENKINS AVE.	.441
BRYANT/ BERRY AVE.	.458
EASTERN/ MARTIN LUTHER KING/ BOULEVARD ST./ 24 th AVE	.476
HIGH/ KELLEY/ TELEPHONE RD./ 36 th AVE.	.492
SANTA FE/ 48 th AVE.	.512
WALKER (DO NOT COUNT AS A MILE INTERSECTION)	.521
WESTERN AVE./ 60 th AVE.	.530
PENNSYLVANIA AVE.	.547
MAY AVE.	.565
PORTLAND	.583
MERIDIAN RD.	.600
MACARTHUR RD.	.619
ROCKWELL RD.	.636
COUNCIL RD.	.654
COUNTY LINE RD.	.671
MORGAN RD.	.689
SARA RD.	.706
MUSTANG RD.	.724
CZECH HALL RD./ CORNWELL DR.	.742
GARTH BROOKS BVLD./ CEMETERY RD./ CLEAR SPRING RD.	.760
FRISCO RD.	.777
RICHLAND RD.	.793
CIMMARON RD.	.812
GREGORY RD.	.828
BANNER RD.	.844

I-40 [1] I-35 [2] I-240 [3] 177 [4]
I-44 [5] HWY 9 [6] HWY3-N.W.EXPRESSWAY [7]
HWY 270 [8] HWY 62 [9] HWY 18 [10] HWY 66 [11]

ALPHABETICAL LISTINGS

2nd ST. IN EDMOND N 35.652
 4th N 35.333
 HWY 9 A W 96.806
 N 10th N 35.478
 12th ST. IN MOORE N 35.348
 12th AVE. W 97.423
 13th ST. IN WEST TECUMSEH W 96.947
 S 15th N 35.449
 15th IN EDMOND N 35.638
 19th IN MOORE N 35.319
 N 23rd ST. N 35.493
 24th AVE. (EAST) W 97.406
 24th AVE. (WEST) W 97.476
 27th IN MOORE N 35.362
 S 29th ST. N 35.435
 33rd ST IN EDMOND N 35.623
 34th ST. IN MOORE N 35.290
 N 36th ST. N 35.507
 36th AVE. W 97.388
 S 44th ST. N 35.421
 45th ST. IN SHAWNEE N 35.377
 48th AVE. (EAST) W 97.370
 48th AVE. (WEST) W 97.512
 N 50th ST. N 35.521
 S 59th ST. N 35.408
 60th AVE. (EAST) W 97.353
 60th (WEST) W 97.530
 N 63rd ST. N 35.535
 72nd AVE. W 97.335
 S 74th ST. N 35.391
 HWY 77H(SOONER RD.) W 97.423
 N 78th ST. N 35.550
 84th AVE. W 97.318
 S 89th ST. N 35.377
 N 93rd ST. N 35.585
 96th AVE. W 97.300
 HWY 102 W 97.089
 OLD HWY 102 W 97.054
 S 104th N 35.362
 EW 107 N 35.484
 108th AVE. W 97.282
 N 108th ST. N 35.580
 EW 108 N 35.449
 EW 109 N 35.435
 EW 110 N 35.421
 EW 111 N 35.406
 EW 112 N 35.391
 S 119th ST. N 35.348
 120th AVE. W 97.284
 N 122nd ST. N 35.594
 EW 126 N 35.188
 132nd AVE. W 97.247
 S 134th N 35.333
 N 136th N 35.609
 S 148th N 35.319
 N 150th N 35.623
 HWY 152 (74th) N 35.391
 156th AVE. W 97.213
 N 164th N 35.638
 S 164th N 35.290
 168th AVE. W 97.195
 HWY 177 W 97.000
 N 178th N 35.652
 S 179th N 35.286
 180th AVE. W 97.177
 192nd AVE. W 97.159
 N 192nd N 35.667
 S 194th N 35.261
 N 206th N 35.681
 S 209th N 35.248
 N 220th N 35.695
 S 225th N 35.233
 N 234th N 35.710

NS 332
 NS 334
 NS 335
 NS 336
 NS 337
 ACME RD.
 AIR DEPOT BVLD.
 ALAMEDA
 ANDERSON RD.
 ARENA RD.
 BANKERS HILL RD.
 BANNER RD.
 BEARD ST.
 BENSON PK RD.
 BERRY AVE.
 BETHEL RD.(EAST TO WEST)
 BETHEL RD. (SOUTH TO NORTH)
 BRANGUS RD.
 BRENDLE CORNER
 BRITTON RD.
 BRYAN IN SHAWNEE
 BRYANT
 BOULEVARD ST.
 CAMP RD.
 CAPTAIN CREEK RD.
 CEDAR LANE
 CEMETERY RD.
 CHARTER OAK RD.
 CHOCTAW RD.
 CIMMARON RD.
 CLEAR SPRINGS RD.
 COFFEE CREEK RD.
 COKER RD.
 COLTRANE
 CORNWELL DR.
 COUNCIL RD.
 COUNTY LINE RD. EAST OF OKC
 COUNTY LINE RD. WEST OF OKC
 COVELL RD.
 CZECH HALL RD.
 DANFORTH RD.
 DARLINGTON RD.
 DOBBS RD.
 DOUGLAS BVLD.
 EASTERN AVE.
 FARRELL AVE.
 (FISH)MARKET RD.
 FORREST HILLS
 FOWLER RD.
 FRANKLIN RD.
 FRISCO RD.
 GABLES CEMETERY RD.
 GADDY RD.
 GARTH BROOKS BVLD.
 GARRETS LAKE RD.
 GREGORY RD.
 HARDESTY RD.
 HARRAH-NEWALLA RD.
 HARRISON RD.
 HAZEL DEL RD.
 HENNY RD.
 HEFNER RD.
 HIAWASSE RD.
 HIGH ST.
 HIGHLAND
 HOMER LANE RD.
 INDEPENDENCE
 INDIAN HILLS
 INDIAN MERIDIAN RD.
 INDUSTRIAL, GUTHRIE
 JENKINS AVE.
 JONES RD.
 KELLEY
 KICKAPOO IN SHAWNEE
 KICKAPOO IN MCLOUD
 W 97.089
 W 97.054
 W 97.036
 W 97.018
 W 97.000
 W 96.965
 W 97.406
 N 35.218
 W 97.318
 W 97.107
 N 35.478
 N 35.844
 W 96.925
 N 35.290
 W 97.458
 N 35.276
 W 97.018
 W 96.876
 W 97.159
 N 35.565
 W 96.894
 W 97.458
 W 97.476
 N 35.812
 W 97.107
 N 35. 175
 W 97.760
 N 35.754
 W 97.284
 W 97.812
 W 97.760
 N 35.695
 W 96.982
 W.97.441
 W 97.742
 W 97.654
 W 97.141
 W.97.671
 N 35.681
 W 97.742
 N 35.667
 N 35.580
 W 97.177
 W 97.370
 W 97.476
 N 35.319
 W 97.124
 N 35.783
 W 97.054
 N 35.276
 W 97.777
 W 96.806
 W 97.000
 W 97.760
 N 35.406
 W 97.828
 N 35.304
 W 97.159
 W 96.912
 N 35.449
 W 97.282
 N 35.580
 W 97.300
 W 97.492
 N 35.333
 N.35.348
 N 35.348
 N 35.290
 W 97.247
 N 35.856
 W 97.441
 N 35.565
 W 97.492
 W 96.930
 N 35.449

LADD RD. N 35.116
 LAKE RD. N 35.333
 LEO RD. W 96.947
 LINDSEY RD. N 35.204
 LITTLE JIM RD. W 97.195
 LUTHER RD. W 97.195
 MACARTHUR IN OKC W 97.619
 MACARTHUR IN SHAWNEE N 35.362
 MAIN IN NORMAN N 35.218
 MARKET RD. W 97.124
 MARTIN LUTHER KING W 97.476
 MAY AVE. W 97.565
 MCLOUD RD. W 97.089
 MEMORIAL (NORTH) N 35.609
 MEMORIAL RD.(SOUTH) N 35.377
 MERIDIAN W 97.600
 MIDWEST BVLD. W 97.388
 MISSION RD. N 35.484
 MOCCASIN TRAIL N 35.435
 MORGAN RD. W 97.689
 MUSSON RD. W 96.858
 MUSTANG RD. W 97.724
 OAK RD. W 97.071
 OKLAHOMA ST.IN MCLOUD N 35.435
 OLD HWY 102 W 97.054
 PARKWOOD RD. N 35.391
 PATTERSON RD. W 97.089
 PAYSON RD. N 35.550
 PEEBLY RD. W 97.547
 PERSIMMON HILL RD. W 96.912
 PINECREST RD. W 97.124
 PORTER AVE. W 97.441
 PORTLAND W 97.583
 POST RD. W 97.353
 POST OAK RD. N 35.159
 POTTAWATOMIE W 97.141
 PRARIE GROVE N 35.841
 RANGE RD. W 97.036
 RED HILL RD. N 35.493
 REDSKIN RD. N 35.421
 RENO N 35.464
 RICHLAND RD. W 97.793
 ROBINSON IN NORMAN N 35.233
 ROCK CREEK N 35.248
 ROCKWELL W 97.636
 ROOKER RD. W 97.071
 RUMMOND RD. W 97.036
 SANTA FE W 97.512
 SARA RD. W 97.706
 SEWARD RD. N 35.797
 SIMMONS RD. N 35.739
 SOONER RD. S. OF TECUMSEH N 35.203
 SOONER RD.(HWY 77H IN MWC) W 97.423
 SORGHUM MILL RD. N 35.710
 SPRING RIDGE N 35.770
 STELLA RD. N 35.319
 STEVENS RD. W 97.071
 SUNNYLANE RD. W 97.441
 TECUMSEH RD. N 35.261
 TELEPHONE RD. W 97.492
 TRIPLE XXX RD. W 97.230
 TUCKER RD. N 35.233
 VANDAMENT AVE. N 35.493
 WAGNER RD. N 35.521
 WALKER RD. (RURAL) W 97.107
 WALKER IN OKC W 97.521
 WALNUT ST. N 35.261
 WATERLOO RD. N 35.725
 WESTERN AVE. W 97.530
 WESTMINISTER RD. W 97.335
 WESTECH RD. N 35.391
 WHISPERING OAKS RD. W 96.965
 WHITEROCK RD. W 97.036
 WILSHIRE RD. N 35.550
 WOLVERINE RD. N 35.421

Up Coming Events

May 8, 1999 Lake Eufaula Hamfest, J.I. Stipe Recreation Center 801 North 9th McAlester, Oklahoma 74501 8am til 3:30 Talk-In 145.370 -600 Free Admission, Tables \$10.00, VE Testing at 1pm.

ANNOUNCEMENTS

VE exams on 3rd Monday of each month sponsored by C.O.R.A. @ Salvation Army HQ at NW 50th and N. Penn, Oklahoma City at 6 PM local time. Doors will be locked at 6:30.

VE exams on 3rd Saturday of each month are held at 9:00 a.m. at Southern Temple Baptist Church, 1821 S High, OKC. Talk in on 146.76 MHz. For more information you can contact Audie, AA5GB @ 799-9916.

VE exams held by appointment only, on 4th Tuesday of each month at 6:00 p.m. in the Shawnee Public Library, 101 N. Philadelphia. Call J. W. Drummond at 275-3935 for more information.

VE Exams are held on the first Saturday of each month, at the Church of Christ, 811 N. 4th St., Broken Arrow. Starts at 9:30 AM and lasts until everyone is finished. New hams and upgrades are welcome.

VE exams on 2nd Saturday of each month are held at 10:00 A.M. after the SCARS meeting at the American Red Cross in on Westheimer Airport in Norman. Contact Jim Copeland, NW0K at 329-1681 or e-mail jimhelps@juno.com for more information.

VE exams on 1st Tuesday of even months are held at 6:30 p.m. at the Altus Vo-Tech

in Altus, OK. Contact George Mateyo, N1GM for details.

VE exams on the 2nd Sunday of odd numbered months sponsored by the Stillwater ARC at 3:00 P.M. in the OSU Engineering North Building, Room 316. Contact Ken, K5KC (405) 377-7586 for details.

VE exams in Enid are done on odd months starting with the month of January. On the 2nd Saturday at 10:00 AM at the Oklahoma Natural Gas Co located at the corner of HY412 & Garland Rd., across east from Atwoods store. The testing is PREREGISTER ONLY. Contact Dick NJ5S 580-233-9869

VE exams on the 1st Saturday of each month at 2:30 P.M. in the Vinita City Hall sponsored by Northeast Oklahoma Radio Assn.

VE exams on the 1st Sunday of each month at the American Red Cross 6th and Lincoln for more information call Jim, N5BEQ at 232-2299.

On the Air

Listings of Nets on local repeaters or sponsored by CORA members:

ARES - Oklahoma County Thursdays @ 8:00 p.m. on 146.22/82.

6 meter check in 52.525 Mhz simplex
Packet check-in on 145.07

SW Oklahoma - Thursday @ 7:00 p.m. on 146.31/91.

North Central Oklahoma meets on the first and third Monday of the month at 7:30pm on the 147.150 rep

Salvation Army - Second Saturday of the month @ 8:00 a.m. on 146.22/82.

HF 3941kHz - AMTOR @ 8:30 a.m. 14.064MHz

OKC Swap-n-Shop - Saturday @ 10:00 a.m. on 146.22/82.

Geritol - Daily @ 8:00 a.m. on 145.41 minus input.

Edmond Info - Monday @ 8:00 p.m. on 147.135/735.

Enid Amateur Radio Club Monday Night Net Monday @ 8:00pm on 147.150MHZ.

QCWA Chp 63 VHF - Thursday @ 7:00 p.m. on 145.41 minus input.

QCWA Chp 63 HF - Sunday @ 8:00 on 3855.0kHz USB.

Wheatstraw - Wednesday @ 9:00 p.m. on 146.01/61.

Purcell - Monday @ 8:00 on 145.19 minus input.

Cimmaron - Tuesday @ 9:00 p.m. on 145.45 minus input.

YL Net - Tuesday @ 8:00 p.m. on 147.09 plus

Oklahoma Training Net - Daily @ 0000Z on 3692.5 kHz (CW Net)

Oklahoma Section Net - Daily @ 0030Z on 3692.5 kHz

DX

In DX, 6 meters remains a VHF hotspot with Ed Rodrugez, WP4O reporting on the VHF Reflector that he has worked XQ6ET in grid square FE37 on 50.105 MHz. Ed says that the signal reports were a 5 by 6 both ways. The QSO took place on April the 6th.

(VHF Reflector)

And G3USF has published a list of 6 meter beacons on the world wide web. According to Bob Carpenter, W3OTC, the site contains current information that was last updated on March 20th. The actual URL is:

<http://www.keele.ac.uk/depts/por/50.htm>

(DXNS)

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(405) 682-0481
Fax (405) 682-0481

MUSTANG
400 W. Highway 152
Mustang, OK 73064
(405) 376-2848
Fax (405) 376-2848

1631 SE 15th

677-0001



May 02 - June 12, 1999

CORA Events

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
<i>May 2</i> 2:00 PM Red Cross Ve Exams	<i>May 3</i> 7:30 PM Broken Arrow ARC	<i>May 4</i>	<i>May 5</i>	<i>May 6</i> 7:00 PM Aeronautical Center ARC 7:30 PM Cimmarron ARA	<i>May 7</i>	<i>May 8</i> 9:30 AM S. Canadian ARS 10:00 AM EARC Ve Exams 10:00 AM SCARS VE Exams 3:00 PM Stillwater VE Exams
<i>May 9</i> 2:30 PM Wheatstraw ARC	<i>May 10</i>	<i>May 11</i>	<i>May 12</i> 11:00 AM OK VHF ARC	<i>May 13</i> 7:00 PM Alhus Area ARA 7:00 PM Tri-State ARG	<i>May 14</i>	<i>May 15</i> 9:00 AM SBC VE Exams
<i>May 16</i> 2:00 PM Edmond ARS	<i>May 17</i> 6:00 PM CORA VE Exams 7:00 PM Choctaw ARC	<i>May 18</i> 7:30 PM Oklahoma City APA	<i>May 19</i>	<i>May 20</i>	<i>May 21</i>	<i>May 22</i>
<i>May 23</i>	<i>May 24</i>	<i>May 25</i> 7:30 PM CORA Meeting	<i>May 26</i>	<i>May 27</i> 7:00 PM Enid ARC	<i>May 28</i> 5:00 PM Collector and Emitter Deadline	<i>May 29</i>
<i>May 30</i>	<i>May 31</i> 6:00 PM Shawnee VE Exams	<i>June 1</i>	<i>June 2</i>	<i>June 3</i> 7:00 PM Aeronautical Center ARC 7:30 PM Cimmarron ARA	<i>June 4</i>	<i>June 5</i> 9:30 AM BAARC Ve Exams 10:00 AM Ada ARC 2:30 PM Vinita VE Exams
<i>June 6</i> 2:00 PM Red Cross Ve Exams	<i>June 7</i> 7:30 PM Broken Arrow ARC	<i>June 8</i>	<i>June 9</i> 11:00 AM OK VHF ARC	<i>June 10</i> 7:00 PM Alhus Area ARA 7:00 PM Tri-State ARG	<i>June 11</i>	<i>June 12</i> 9:30 AM S. Canadian ARS 10:00 AM EARC Ve Exams 10:00 AM SCARS VE Exams 3:00 PM Stillwater VE Exams

April

S	M	T	W	T	F	S
			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	

May

S	M	T	W	T	F	S
	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				

June

S	M	T	W	T	F	S
	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			

July

S	M	T	W	T	F	S
	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						