

# Collector & Emitter

A CORA Publication

**March 1996**

Volume 22, Number 03

Issue 253

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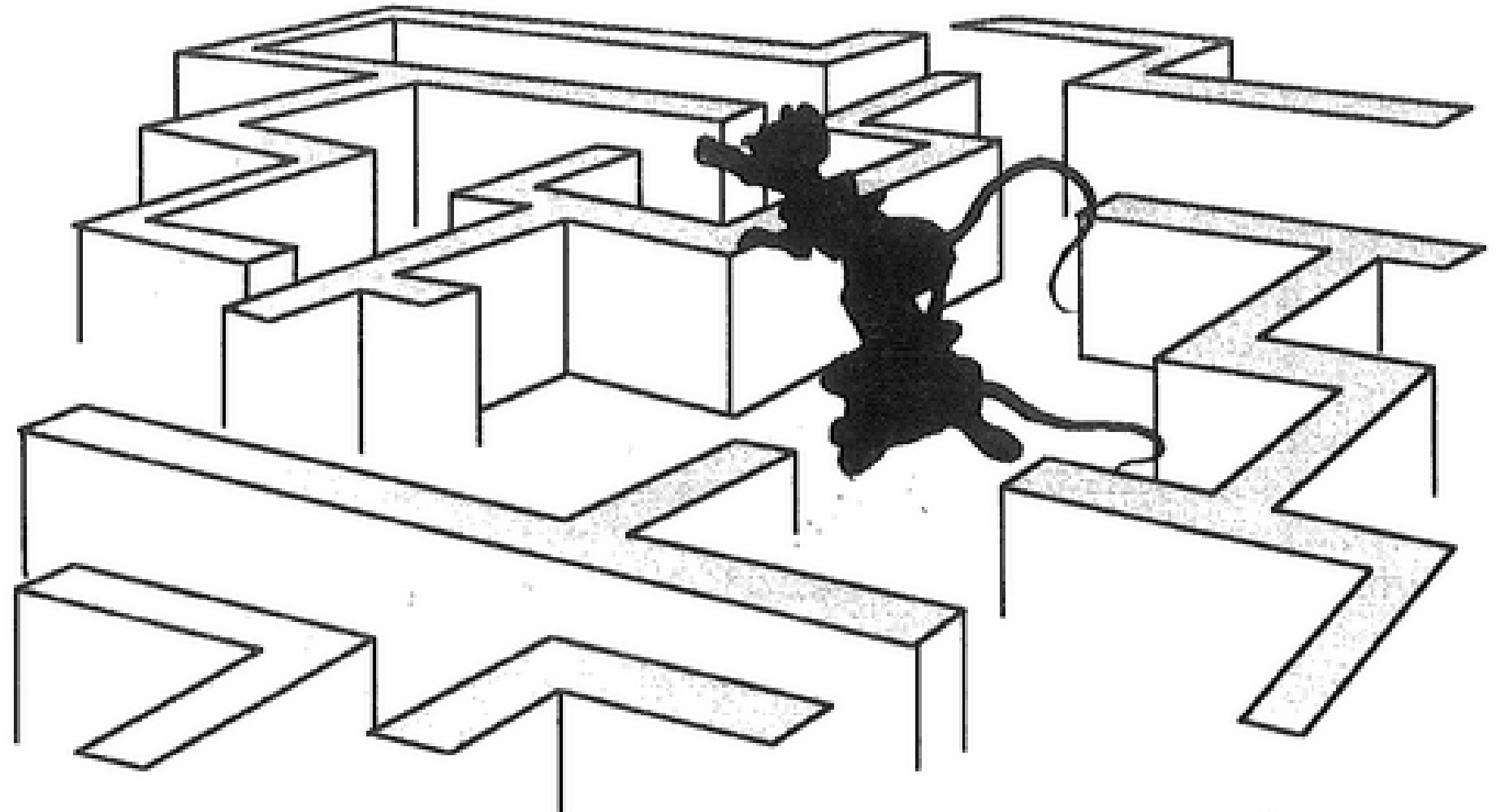
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**Hamshack hanky - panky?**

**The Leonard Hanstein  
Memorial Scholarship**

**Kudos to the Hams**

**To Beacon or not to Beacon**



**Working together conquers the maze!**

**Astromomy in the Midwest**

**Auduban Society**

**Death of a Club???**

**DXCC Countries**

*New Puzzle*

**Collector & Emitter**

**Harold C. Miller, KB1ZQ**  
**Editor**  
**Linda G. Miller, N1LPN**  
**Circulation Manager**

**Central Oklahoma Radio Amateurs, Inc.**

**President: Harold Miller, KB1ZQ**  
**V Pres.: Louis Kennedy, KC5ABI**  
**Secretary: Forrest Rush, N5VWF**  
**Treasurer: Perry Jenkins, KB5TOT**

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 PLEASE help us keep your information up to date. What time, where, when, who are your officers, editors, and their phone numbers. Check your entry, it can be changed. If there appears to be a mistake, check with your club officials. We can't do a thing about it if you don't let us know. Below is a sample label:

2	96/12	2
JOHN E. DOE, KA5ABC		
1234 SW 56th STREET		
RADIOVILLE, OK 74321		

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**February 1996**

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**Collector and Emitter**

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<p><b>9. Wheatstraw Amateur Radio Club</b>                  Meets: 1430L, 2nd Sunday, Location Varies                  Pres.: Leo Peil, WZ5H 886-2998                  VP: Jimmie E. Payne, N5VDY 233-4215                  Sec/Tr.: Joe Garland, WA5FLT 893-2660                  Editor: Ralph Wilder, WA5PFK 623-5421</p>	<p><b>17. Ada Amateur Radio Club</b>                  Meets: 1000L, 1st Saturday, Basement Ada City Hall 231 South Townsend, Ada                  Pres.: Roy Throne, KB5STV 436-1019                  VP: Dwight Myers, N0RIW 436-4755                  Sec: John Burchett, KC5EZX 332-1063                  Treas.: O. J. Collins, KC5DYX 332-7878</p>
<p><b>10. Oklahoma DX Association</b>                  Meets: Hamfests and as announced in C&amp;E.                  Pres.: Jim Hood, WV5S 405-732-6131                  VP: Ross Hunt, K5RH 918-234-5050                  Sec: Jeff Martin, K5WE 918-486-6493                  Treas.: Mark Byard, N5OGP 405-762-1966                  Editor: Mark Byard, N5OGP 405-762-1966</p>	<p><b>Central Oklahoma Radio Amateurs</b>                  Meets: 1930L, 4th Tuesday, Salvation Army Bldg NW 50th and Penn, OKC (BackDoor)                  Pres.: Hal Miller, KB1ZQ 672-7735                  VP: Louis Kennedy, KC5ABI 321-8992                  Sec: Forrest Rush, N5VWF 842-8486                  Treas.: Perry Jenkins, KB5TOT 354-5075                  Editor: Harold Miller, KB1ZQ 672-7735</p>

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# Central Oklahoma Radio Amateurs, Inc.

Minutes of the February 27<sup>th</sup>, 1996 CORA meeting:

The meeting was called to order at 7:37 p.m. by the president of CORA, Hal, KB1ZQ. Five clubs were represented with fourteen people in attendance.

Motion was made by John, N5SAM and Seconded by Glynn, N5WNL to accept The January minutes as printed the February C&E; motion carried unanimously. The Treasurer's report was read, discussed, and approved unanimously.

**C&E Report** - Hal, brought up the fact that for a number of people the March C&E will be their last one unless they renew their club dues. If you haven't yet renewed, please do so. Hal is grateful for the articles that come in, but we still need articles for the C&E; so if you have something to share, know of any VE tests, Swap meets, hamfests, or anything else that you'd like to see in the C&E, tell the editor. After all, that's what the C&E is for, so help us make it your journal. Also, let your favorite merchants know what a deal the C&E is and you may see them in a future issue.

**Insurance** - John, N5SAM brought up the group liability insurance that CORA has to protect tower sites.

At present that insurance has OCAPA as the original insured party with three other clubs participating as riders on the policy. CORA has decided to pay the policy and to let participating members listed on the policy to reimburse CORA, all costs shared equally. Motion to that effect was made by Don, KC5BRO, seconded by Tom, WA5AFM, with the motion passing without objection.

**New Clubs** - CORA has sent information to Broken Arrow Amateur Radio Club, Enid Amateur Radio Club, Oklahoma Lakes Amateur Club, and Tenkiller Area Amateur Radio Club. It is hoped that we will hear from them in the near future.

**HH 96 - Dealers:** Hal is working on the next letter to send to prospective dealers for HH96. Last years flyer will be reworked and brought up to date for HH 96.

**VE Testing:** Jim Copeland will head up the ARRL VE test Team; if you would like to volunteer get in contact with Jim Copeland, NW0K.

**Technical programs:** The AMSAT program will be given by Tom Webb, WA5AFM; Antennas will be covered by Dee Mize, WD5FHR; and The Packet program will be given by Terry Hackworth, K5HP.

**Non-Technical programs:** Right now the non-technical programs are a Craft Demo and Bingo.

If you have any Technical or Non-Technical programs, bring your ideas to the next CORA meeting.

**Security:** Right now Explorer Post 13, which is affiliated with the Midwest City Police Department, will be responsible for security during Ham Holiday 1996.

**Scholarships:** CORA talked about making this years scholarship available to all students as long as their is a licensed amateur radio operator in the family. This will be discussed in the next meeting. On motion made by Don, KC5BRO, seconded by Louis, KC5ABI, and passed unanimously, CORA will give away one scholarship this year. *The deadline for the CORA scholarship is June 15, 1996.*

**Advertisements:** The amateur radio magazines already know about HH 96; local media will a little later on; too early to tell them now.

**Tickets:** The Board looked at the ticket design by Clarence, KB5RR, and will make a decision at the next meeting. Also, looked at some logo designs.

**Prizes:** Right now we have two MFJ coffee cups as door prizes.

**Facilities:** Chuck Wilhite, K5NK, is in charge of facilities. All expenses will be in the contract this year.

**Mailings:** We haven't yet made a decision on doing a mass mailing yet.

Salvation Army - OCAPA informed CORA that the Salvation Army station, N5FM, will be on on April 19<sup>th</sup>, 1996 and April 20<sup>th</sup>, 1996. If you would like to operated a special event Station, come by. It should be lots of fun.

**Next CORA meeting.** The Next CORA meeting will be on the afternoon of Saturday, March 30<sup>th</sup>, 1996, at 1:00pm at the Skyline Restaurant at 1631 S.E. 15<sup>th</sup> Street, just east of I-35. This will be both a luncheon meeting and a business meeting. Hopefully those clubs which cannot attend on Tuesday will attend on Saturday.

There being no further business, a motion to adjourn was made by Tom, WA5AFM, seconded by Glynn, N5WNL, and passed without objection.

Submitted by,

Forrest Rush, N5VWF  
CORA Secretary

**From the President,**

Well another month has gone by and the plans for Ham Holiday are still progressing. We still need people to come out and help.

Enough of the hamfest for now, I want to discuss something, the need for the people belonging to clubs to get involved. The reason I'm saying this is that during the last month we have had some terrible fires in the state and I know of at least one instance where responsible hams were involved in catching a suspected arsonist.

I was in Stillwater on business during the large fire on the 23<sup>rd</sup> of February, having finished my call, I was monitoring the 145.35 repeater hoping to find out if the interstate south was open.

I was about to make a call, when one of the locals came on and requested someone call 911, he had info on a possible arsonist and couldn't remember the dial up code. At that time a ham operator stationed at the EOC came on and took the call. With a police officer standing there in the EOC monitoring the conversation the

information was passed on to the proper authorities.

A short time later as I moved thru town a call came on again looking for the individual so that the proper witness could be gotten to a spot were the authorities had detained the suspect.

If it had not been for the involvement of this individual assisting to get the description to the authorities no telling how many more acres and homes could have been lost.

I have traveled I-35 north thru this burned out area and can easily appreciate the call. We need people to get involved and to help keep amateur radio going. With only a few doing all of the work and the rest just sitting back enjoying the ride is not fair, and those that are working reach burnout that much faster.

So if you do not get involved then there is no reason for you to complain when a repeater does not work, do you go to the meetings to express your concerns. If not then you don't have the right to complain when something doesn't work.

I belong to several clubs associated with CORA and there are many times when the request for help goes out and falls on deaf ears.

So people get off you backsides and get involved. The home you save may be yours, or lives of your loved ones. With storm season coming upon us soon, after the fact is to late.

Harold C. Miller, KB1ZQ  
CORA President

## Death of a Club????

I did my 20 minute + talk about packet and got asked back to do the ADVANCED talk come next club meeting. I took some time before and after the talk to preach about opening up a CLUB CLASS where I and others would TEACH ELECTRONICS theory to new hams from our ARRL HANDBOOK. The idea drew a 50% show of hands and so the club will decide on where and when to hold these classes. I told them that I would do the work myself but, they have insisted on deciding the issue during the board meeting if we are going to use the SMARC initials of the club on the Radio and Paper adds I want to run. I also want a spot on TV to do this with.

So the ball is back in the clubs hands for another 30 days, upon which time, at the next meeting, if no definite plans are approved for such a class, I will take it upon myself to start up a TRUELY TECHNICAL HAM RADIO CLUB for our SWMO area. I have had some hams who have shown some interest and support in the idea of having a club meeting where they can learn electronics theory and BUILD projects for their own personal use. 20 years ago, this used to be the NORMAL mode of operations for clubs. I'm bound and determined to start this fire up again. We need some educated hams to help with repeaters, packet systems, ATV, and so on and so forth. We are not going to get this level of proficiency with our worthless testing structure.

The subject of field day and some hamfest consumed the rest of the time. I don't want to knock field day, but, I told them that I wasn't going to assist in organizing either event as I have plans for this class. I think it's time the younger hams took part in organizing field day and hamfests and the such. They need to

be doing their part and the success of this effort will lie with their efforts.

We have a small group of hams, (2) hams, who are going to take on the task of reviving our 6 repeaters. The 91 repeater which was Springfield's last repeater bit the dust for two weeks. They panicked, getting it back on line. They have "PLANS" for reviving two other machines, the 49 and the 64 machines. I have made the commitment to get the WX service server going with a minimal text capacity within one month. We have completely scrapped the idea of the WX maps as the WX service no longer wants to do it.

So there you have it FOLKS. Club at the brink of disaster. 6 repeaters down to 1 crippled machine now. Two guys doing all the packet, me and Jim KG0IV. Nobody working on anything new. I mean they are literally down to operating simplex two meters around here for all their needs....

This is what happens when you take the EDUCATION and the TECHNICAL EXPERTISE out of the equation with our system of testing. You have a destroyed system.

This is what happens when your club is mainly into hamfests and working special events.

I would say, out of the 80+ members of the club, there are only 5 who are working on anything to benefit the community. The rest are just USERS. They contribute NOTHING because they don't have the desire to learn to CONTRIBUTE to the SYSTEM.

I did have one guy who called me an ELITEST J. for suggesting these ideas and he was a NOCODE age 60+. He said my ideas are only for the ELITESTS....

I can't spell well enough to be an ELITEST...

Anyway, I will keep you apprised on ROUND TWO of this OLD DYING CLUB...

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73 Charlie

END OF MSG from KD5OB @  
KD5OB.#SWMO.MO.USA.NOAM

*This message was taken off packet and is an example of what is happening in other areas besides our own. So the lack or loss of participation is not just a local problem.*

*The Editor*

## CHIT-CHAT

Hi! I was outside earlier this morning taking a very good look at our grass. It looks dead as well as my rose bushes. I ran my hand across the grass and it just crumbled. I can smell the smoke from the grass fires from my home in Del City. My dad called from San Antonio and the heat is a nightmare down south. 100+ DEGREES recorded in San Antonio on February 21, 1996. Maybe we are experiencing just a freaky weather pattern and things will soon be back to normal. We need rain!

If any of you have noticed, we have a new advertiser in the C&E. Bagels, Bagels and more is what they offer. I found the shop by accident and fell in love with it. So, the next time you happen to be out and in Midwest City, drop by the Bagel Basket. Oh and please remember to mention that you heard about them in the C&E. Good, low fat bagels, made daily and there is always something new to try.

Are there any places that you love to go to and would like to share with the rest of us? For \$5.00 they can run a business card in the C&E. Send the card to us along with a note from the owner giving their permission and we will bill them after we run it in the newsletter. It is fun letting others know about our ham community. It is through the support of these businesses that keeps us from going in the red with this newsletter.

The next section is my own personal thoughts concerning a subject dear to my

heart. It is not written to offend anyone or to point the blame on any single group.

### Thoughts...Something is missing!

Last month, I retold a true story about the new pastor of my home church and his attempts to bring a message to the children. The message got lost, yet the child that answered the question was correct. The lesson was too complicated for a child's understanding. The answer that the pastor was seeking was, "If you take the chocolate chips out of a chocolate cookie, you no longer have a chocolate chip cookie."

So, what went wrong? Simple. The pastor is a very educated man. He was top in his class. He graduated with honors. All of the years he studied had finally paid off, he could make his dream a reality. The one skill he had not developed is the ability to bring his knowledge down to the level of understanding that all can see the wisdom of his words. This skill is learned through maturity, understanding and practice.

Now, how does this apply to us in the ham community? More and more of our older hams are 'retiring' from the radio. The new hams are left to muddle in the dark on their own, sometimes being an embarrassment to us all.. Some of the old timers that remain active, are the first to point out a newly licensed ham his or her errors, no help or advise offered. Personally, I remember being corrected a few times when I became a new ham.

When an experienced ham does attempt to help a new ham, a problem of communication comes into play. Most new hams cram to get their ticket and have very limited knowledge of what ham radio is really about. I am not saying they are dumb or stupid, but that many have no 'practical' electronic skills. They possess the very basic concepts which are presented in the book to pass their test but many know nothing beyond that point. It can be a frustrating experience for our older hams as well as the new ham when an Elmer program is attempted.

I keep remembering the story about the chocolate cookie, with more and more of our older hams leaving the airwaves, "Where does that leave ham radio?" Honestly, I can not picture our ham community without our old timers. We need their wisdom, knowledge and expertise which makes ham radio what it is today. Without them, we are lost. I believe that if we stop dwelling on the inexperience and lack of knowledge of our new hams and instead consider helping them.

Clubs could set up an 'Elmer program', simplifying the information to begin new hams on the path of learning. Working together, new hams could be introduced to the wonders of ham radio. Set into motion the excitement of creating working radio gear made by their own hands.(T-KITS are now available, same as Heath Kits from yesteryear.) Show them that there is nothing to fear by learning code and help them to believe that they can meet the challenge.

We all had to learn as babies how to roll over before we could crawl. We had to learn to crawl before we could walk and walk before we could run. Yet, we still can find times when we have to crawl once more to achieve a goal we really want. It does not matter if a new ham was once a CBer or a scanner nut. They had the desire to move up in the world and become hams. They wanted to earn the rights to use the airwaves, not just to buy it off the store selves.

Scared and uncertain of themselves, ham radio is a different world all its own and the natives can seem very unfriendly to a new ham. Maybe the KEY here is to remember what we all felt like as new hams and those that took pity on our inexperience becoming our teachers and friends.

I know that as with all organizations, there will always be a few 'air-heads' in the group. There are also a few new hams who are rude, refuse advice and feel they could write the book on ham radio. BUT! There are many new hams that truly want to learn and need help in understanding

the ropes. Attempting to punish all for the immaturity of a few is not the answer.

There is a cry in our ham community for help. A seeking of knowledge, an openness to learning what is needed to truly become a amateur radio operator. We just need a few brave hams to answer this cry for help. Maybe this is our only hope for preserving ham radio as we know it should be, time will tell. Something needs to be done.

Until next month,

Linda N1LPN

## Hamshack hanky-panky

by Jim Stephens, KB7TZ

What do all those male and female connectors hiding behind the ham gear do during the night? I never suspected anything until the other night during a CW QSO with a California ham.

Every time I touched the key, the lights dimmed. That makes sense with a kilowatt, but I was running 100 watts. I took a hard look at my station, and found a tangle of wires and cables that would confuse a spider. How could this happen to a neat person like me? It was a mystery to me.

I plugged in my AC voltmeter and touched the key. The line voltage dropped to 109. That did it! I tore down the station.

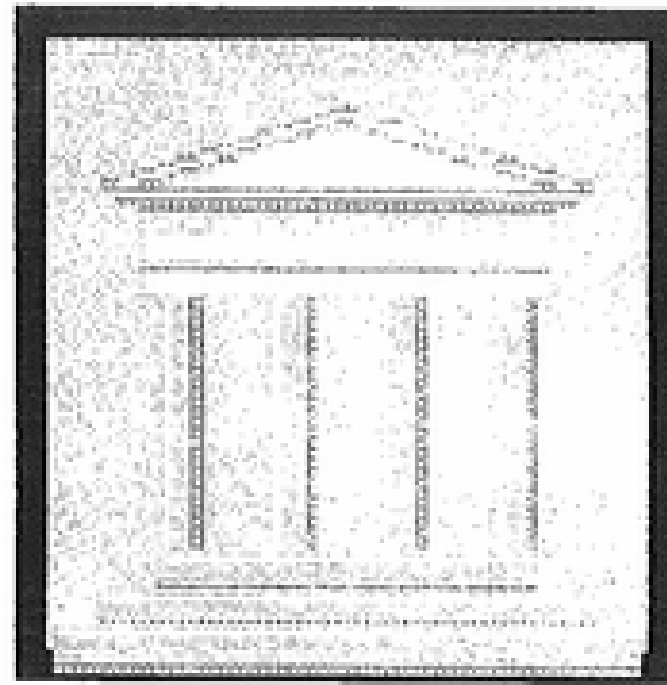
Entangled in the snarl I discovered RF cables to long-gone antennas, power cubes terminated in nothing, and no fewer than three multi-outlet power strips daisy chained to a single wall socket. Did I create this octopus? "of course not; I know better", I told myself.

Those nasty connectors were getting together after I went QRT. Well, this chaotic "family" was about to be broken. I disconnected all power before beginning my "surgery." Then I ripped everything out, releasing all spiders. And I set all those old power cubes aside for possible future use.

Then I labeled every connector, cable, and wire with masking tape – at both ends. I connected all radio equipment to a wall outlet separate from the computer gear, and installed surge protectors on both.

Finally, with everything rerouted, it was time for that venerable ham standby, the "smoke test." With the dummy load connected, and my eyes on the AC voltmeter, I pressed the key. The meter read 116 volts and, as my granddad would have said, "Nary a flicker." And I'd freed up one whole power strip in the process. Now, if I can keep those male and female connectors distracted...

from the Feb. '95 Radio Club of Tacoma "Loggers Bark" – Ralph, KA7FIG, Editor



## Kudos To the Hams

Among the quiet heroes of the April 19th bombing of the Alfred P. Murrah Federal Building were a bunch of loud talkers.

The loud talkers to which I refer are ham radio operators...members of Oklahoma's Amateur Radio Emergency

Services Network.

The hams went into action within minutes of the bomb blast and coordinated the mobile emergency communications network that was so vital in coordinating the work of the Red Cross and Salvation Army. It was the hams who proved vital communications between the relief workers.

Oklahoma's amateur radio operators who work in the emergency services network have won significant recognition for their work. The American Radio Relay League has awarded the group the Certificate of Merit...a certificate worthy of the group's outstanding work.


It must be immensely rewarding to the emergency services network radio operators to once again have performed an important and critical service in a time of crisis.

To all those hams...those loud talkers who worked so swiftly and so quietly in assuming an awesome responsibility in the wake of the Murrah bombing...a tip of my hat and a heartfelt thank you.

I'm Mike McCarville...that's my opinion.

This editorial #749 was broadcast over KTOK radio Thursday, February 15, 1996 by Mike McCarville.

Thank you Mike for standing up for those who came forward to a job no one really wanted.



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### Edmond Amateur Radio Society

Well here it is another month has gone by and it sure doesn't seem like it. It seems like I just wrote an article yesterday. Oh well.

The board meeting was held on Wednesday February 7<sup>th</sup> at 7:00 p.m. The attendance was good. Many ideas and plans were discussed. Everyone is invited to attend, as they are open meetings.

The first thing on the list is dues. Thank you to everyone that has renewed their membership. There are still some that haven't yet. We really don't want to lose you. Anyone who has not paid their dues by April 1<sup>st</sup> will have to be dropped from our list. So check the front of the C&E to see if this is your last issue. Dues can be mailed to EARS PO Box 48 Edmond OK 73083. Or you can give them to a board member.

On Monday, February 12<sup>th</sup> we had a search and rescue of our own. It seems that Dee's (WD5FHR) father walked off from their home. he was found safe and sound about 45 minutes later. Thanks to quick response from those who helped. Ken, N5TWC, Pat, N5SGV, Joyce, KC5NBI and David, KC5KJE.

THANKS AGAIN FROM DEE AND SHELBY.

A few of us got to experience the fickle Oklahoma weather. On Thursday, February 15<sup>th</sup> a few of us helped with the parking and directing traffic at the Santa Fe School in Edmond. The Business After Hours was holding a job fair. Pat, N5SGV, Megan Gray, Matt, KC5QQG, Stephanie, KB5HWI, John, WB5SYT and Edith, KA5YPX braved the high winds and dust. With a brief rest inside it was rewarded with a sign of recognition for our efforts.

By the time you read this the weather spotting class should be over. It was scheduled for March 4<sup>th</sup> at 7:00 p.m. at the community center. I know from past weather classes that the turnout should be good. At the time of this writing I am planning to attend. Hope to see you there.

The dinner meeting last night was well attended. I counted 45 persons there. We met at Gambles Country Kitchen at 6:30 p.m. on February 17<sup>th</sup>. There was a film from ICOM to watch, some short speeches, some information to hear, and lots of people to meet and talk to.

If anyone is interested there will be a CPR class in April. The date is April 13<sup>th</sup> the time is not firmed up yet so listen to the net for more info. CPR is something everyone should know. You never know.

The St. Patrick's Day Parade is just around the corner. The parade will be downtown OKC. on Saturday March 16<sup>th</sup>. If you want to help call Lee, KA5WIS at 348-2961 or 348-4910 and leave a message. This is a fun parade. This is a chance to learn how to work a parade before the big one. That being the Fourth of July Parade here in Edmond.

Applications for the Bertha Watson Scholarship can be obtained from Joyce, KC5NBI. You can call her at 340-7486. The deadline to apply is MARCH 29<sup>th</sup>. The scholarship will be awarded at Ham Holiday '96 which is the last weekend in July.

The next board meeting will be Wednesday, March 6<sup>th</sup> at 7:00 p.m. at the EARS Club Station.

The next meeting will be Sunday March 17<sup>th</sup>, (watch out for those leprechauns) at St. John's Baptist Church, 9<sup>th</sup> and Littler in Edmond at 2:00 p.m.

February birthdays  
John, W5QBA  
Barbara, KB5DGH  
Ed, N5ZHS

Pat, N5SGV

Jamie, KB5EIC  
Forrest, N5VWF  
Ray, KC5BTR

#### March birthdays

Bob, KB5BIN  
Scott, KB5OFT  
Merle, KB5SPN  
Richard, KJ5QU  
John, KC5QJT

just catching up with the birthdays- if yours is not there contact Clara, KC5UG or me Happy Birthday!

73,  
Edith, KA5YPX

## QST-----QST-----QST

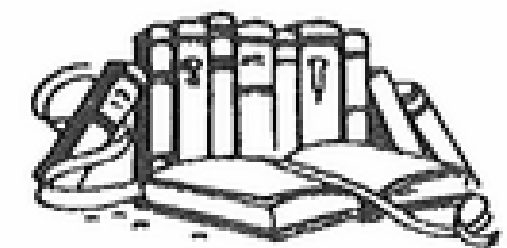
To: All Oklahoma Radio Amateurs

From: John Thomason, WB5SYT  
Work: 405-848-9306  
Home: 405-340-1798  
FAX: 405-848-9312

Subj: Southwestern Bell Tariffs in Oklahoma for Autopatch Sites

The tariffs charged by Southwestern Bell Telephone Co. for phone lines for autopatch use have been reduced from business rates to Residential rates. This rate change became effective February 19, 1996 under Cause Number PUD 950000155, Order Number 399304.

To have this implemented please contact your business office. Refer to the Cause #, Order #, and Effective date.

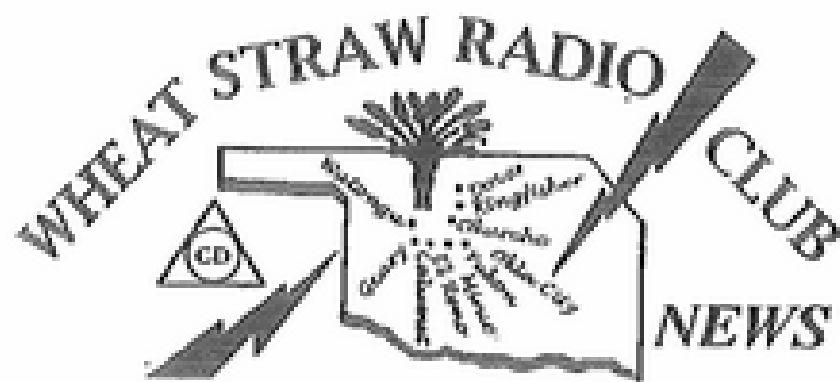


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### Wheatstraw February Meeting

Meeting was called to order by Johnny, K5GBN, our president. There were thirty one members and guests present. No minutes for the last meeting of January 14. Secretary Joe, WA5FLT, was absent without giving anybody a copy of the minutes. (Ed note: Ralph may not have known that Joe's father had passed away. We wish to express our sympathy to Joe. -- K5JB.)

Officers present were Johnny, K5GBN, president; Neil, N5KCO, V. President; and, Ralph, WA5PFK, Reporter, who acted as Secretary. Neal, N5KCO, appointed W5JEB, as activities chairman for 1996 and Father Joe accepted.

After self introductions, the president thanked everyone for coming to the meeting, and many thanks to Leo, WZ5H, for getting the meeting place for us.

On the membership drive, Ralph, WA5PFK, made a full report on the amateurs listed in his area. Most of the amateurs have moved and did not change their addresses with the FCC.

Johnny, K5GBN, announced the upcoming hamfests. The Green Country Hamfest is March 23 and 24, 1996. Preregistration is \$8.00, or registration is \$10.00 at the door. The Elk City hamfest is March 2, 1996 with a \$5.00 preregistration. The annual Eyeball QSO at Mooreland is April 13 & 14, cost is \$3.00 at the door. For further details check out nets and meetings.

The club received notice from CD-ROM needing help. They want Wheatstraw members to get together, take each amateur's picture, and send it in so their pictures can be put on their licenses. When their call letters are brought up on the computer you can see their pictures. Someone up spoke up and said, "and it will cost each one \$5.00 to do it." I don't know if he was joking or not.

Collector and Emitter, March 1996

Ralph announced his and his wife's upcoming fiftieth wedding anniversary being celebrated March 9, 1996 from two to four O'clock on Saturday afternoon. He invited anyone wishing to come.

Wanda, KC5GTW, missed the meeting. She attended her sister-in-law's 80th birthday celebration. We will forgive you Wanda.

If anyone is interested in some used ham gear and other things of the late Earnest Martin's please contact Raymond Barnes, AB5Z, Longdale, OK, phone 405-274-3334.

The meeting was turned over to Leo, WZ5H. Leo introduced Tim Coffey, an employee of the Corp of Engineers, U.S. Army, to present the program for the club. This film was made a few years back, of the Canton Walleye Rodeo. Walleye is the largest species of the perch family. The film showed the Wildlife Department catching and milking the females. Each one produced an average of fifty thousand eggs. The eggs were fertilized and hatched. At the age of four days they were transferred to tanks to be supplying lakes.

When these fish are taken out of the water a gray film seemed to form over the eye. That is how the name of Walleye came about.

Last year the fish hatchery produced eighteen million Walleye for stocking purposes.

Canton lake has an average of eight thousand acre feet of water. Tim explained how this procedure increases the supply of catchable fish, and a very big boost in Canton's economy.

Tom, N5IKN, made a motion we close the meeting for refreshments. Seconded by Neal, N5KCO. Meeting adjourned at 3:14.

I think everyone who came brought refreshments. It seemed everyone of us ate enough for our evening meal. It was 5:35 when we got home.

Ralph, WA5PFK

### Homemade Summer Sausage

2 lb ground beef- 1 T. mustard seeds- 1 1/2 T. liquid smoke- 1 1/2 t onion salt- 2 T curing salt- 1/8 t. pepper- 1 cup water- 1/4 t. garlic salt.

1st, mix all ingredients and form into three rolls. Place in glass dish and cover with plast wrap. Refrigerate for 24 hours.

2nd, remove plastic wrap and wrap each roll in foil. Prick holes in bottom of each wrapped roll with toothpick and place on rack in baking pan with pricked side down. Bake 1 1/4 hour at 325 degrees.

Ann's variation, combine 1 lb. ground beef with 1 lb. ground country sausage to use instead of 2 lb. of ground beef. Sometimes she uses 1 lb. ground deer or elk.

Ralph's taste buds, if you use half beef and the other half either deer or elk, use more garlic, like 3/8 teaspoon.

### Ralph's Personal Opinion

Every licensed amateur that belongs to a single radio club, and that club is a member of **CORA** is a vital part of CORA. Harold is the editor. He has asked for club reporters to write articles to help make the C&E a better newsletter.

Linda, N1LPN, writes the Chit Chat. If you as an individual have any article you feel would be good for the C&E, give it to your club reporter, asking for it to be printed please. Or you may mail it to Hal, or Linda.

What I am thinking is that if you have something of interest to be printed, get it in. If you have constructive criticism about anything I write, let me know and I will try and work with you on it. Let's make a big improvement in 1996. Thank you for reading this. All the addresses can be gotten out of the C&E.

### Sucker Market Predicted to Rise in 1927

Edward A. Schwab, a famous fraud investigator and former secret service man predicts "Men, Women, and children are going to lose their money to the swindlers and



sucker bait." Swindlers took more than more billion dollars in 1926.

Science is not to be outdone by others in predicting the developments of 1927. Science, however, deals with the more pleasant probabilities. Now you know why I have always been poor.

Ralph, WA5PFK

### Always Learning

Every once in a while I seem to learn something new about amateur radio. I appreciate all the privileges the amateurs have in this world of ours.

Last Tuesday, January 30th, we got home at twenty minutes after seven, having a QSO set up with John, WA5PFJ, for me to report on Carol's condition after the operation. Carol is Goldie and my daughter.

We usually start at 3810 kHz. If the frequency is busy we go down as the QRM requires. I went down and located on 3775. While calling John for a while I got a call from Massachusetts, asking me if I knew I was in the middle of the DX frequencies. I apologized and shut off my radio and used the twisted pair. No gripe, just info.

After I got my chores done Thursday morning I went and paid our utilities along with paying our neighbor's. He is 89 years old and shut in this kind of weather. Then I went to the grocery store for Goldie. I had told our neighbor if they needed anything let me know. They had called the grocery store and ordered their groceries. They called me and I ran down and got their groceries and carried them in. By that time it had just started snowing. That was the smartest thing I have done all week. I did not get outside Friday.

### Time to Smile

Camping "I hear you got lost camping and it took your friends two days to find you." "That's right." "Don't you know when you get lost in the wilds, you're supposed to fire three shots in the air?" "I did that and it didn't help." "Well, if it didn't help the first time, you are supposed to fire three more shots in the air." "I did that, too. In fact, I kept firing until I ran out of arrows."

First woman: I understand your husband got upset because you lost the compass while the two of you were camping?

Second woman: No, he wasn't upset because the compass was lost. He was upset because we were lost.

### Cajuns

What's the difference between cajun food and creole food?" "Cajun food's been dead longer!"

### Celebrities

I heard you got into a big argument with a fellow last night about giving him your autograph."

"Yeah, but he finally took it."

"Loan me a quarter; I want to call one of my fans." "Here's fifty cents. Call both of them."

"Your town is so small, I'll bet the only activity is at the post office." "What's a post office?"

"This is an awfully small town, isn't it?"

"No, the town is plenty big. There just ain't nearly enough people in it."

"Our town used to have a curfew law, but we repealed it." "How come?" "Every time that bell rang at nine o'clock, it'd wake everybody up."

"Man, this town is really back in the sticks!"

"Naw. We're only fifteen minutes from Knoxville -- by telephone."

"Do they have driver's education classes in your town?" "They did for a while, but then the mule died."

### Correction

I will have to take time out to apologize to Joe, WA5FLT, Icom, Wheatstraw club and C&E readers. When Joe was showing the Icom film my ball point went dry. My memory is not good enough, so I have to make notes looking for something to write with while I made a mistake.

Of the two radios I wrote about, the IC-2000 is the 2 meter. The power out is 5, 10, and 50 Watts. The IC-706 has 100 Watts on all

HF bands, and 6 meters. On 2 meters it is only 10 Watts. The IC-706 is the radio with the series of filters with the very sharp signal.

### Government Shutdown Stalls Ham Radio Growth!

In the W5YI newsletter dated January 15, it says that due to the government shutdown during December new ham radio ranks nose-dived dramatically.

For the second time in a month, the U.S. Government closed down do the federal budget debate. The FCC's Gettysburg, Pennsylvania licensing facility has been shut down since mid December and all employees furloughed. As a result, the VECs are unable to electronically file any Form 610 license applications into the FCC computer.

During the month of December there were 1543 new amateurs licensed. Of this figure, 1298 of them were Technicians. Upgrading in December total was 708. Novice upgrades were 0, Technician were 0, and clubs were 0. This is about half the normal of new and upgrading amateur radio operators

### FCC is back Issuing Amateur Radio Licenses

On January 11, 1996, all VECs were directed to electronically submit the Form 610 applications that they had been holding during the shut down. On Tuesday, January 16th, 1,814 new and 870 upgraded amateur operator/station licenses were issued by the FCC.

### Old Pair of Shoes

That old pair of shoes may not look so fine. But they'll renew their appearance with a good shoe shine.

They've given miles of comfort, years of excellent wear. Although they've been resoled I'd not change for a new pair.

Lord, make my life, I pray like that old pair of shoes, Comfortable to live with, For some purpose my life use.

Then when life is over may our maker choose to give me a "resole".

Like that old pair of shoes!

Letha Fuller

## Farming Farmers

At super, the farmer announced to his family that he intended to spend the next day spreading manure on the fields. "Daddy," his daughter replied, "I wish you'd use the word fertilizer instead of manure."

"Don't complain, sweetheart," the farmer's wife said, "It took me five years to get him to use the word manure."

February 9, 1996, Clarence Gorden and I were out to the American Legion hall, checking out the need for some outside lighting. While we were outside a flock of geese or cranes flew over. They were squawking like nobody's business, and flying north. Now what does that mean to the ground hog weatherman?

Ralph, WA5PFK



VHF Club  
NEWS

W5LOW  
Elmer Goekler Memorial  
Station

## Minutes of February Meeting

(Since I was on sick call and missed the meeting, Jerry, KD5IS, took notes for this month's meeting. Thanks Jerry.)

Meeting was called to order by President Jackolyn, KA5ENU, at 12:11 p.m. with 20 members and guests present.

Treasurer Ellard, W5KE, gave his report and noted that all renewals were in that were expected. Only one member from last year failed to renew. Ellard reported that all the club's money is now in one bank.

Jerry, KD5IS, gave the CORA report which consisted mostly of what preparations were made for Ham Holiday. For some reason this report was accepted by formal motion.

The members present assembled for a group photograph that will be submitted to the *Callbook*, or some other publication, presumably in the club call section.

Meeting adjourned at 12:31 p.m.  
Joe, K5JB, Sec'y

Collector and Emitter, March 1996

## Internet Question

Last month Ralph, WA5PFK, mentioned some concerns about amateur radio, and what impact Internet will have on it. I also have concerns about how so many newer amateurs are drifting away from amateur radio and going to their computers to play telephone networking. It seems that intellectual challenge from amateur radio is dying, though I am sure a great number of amateur radio operators are still interested in the things that make it a unique hobby.

Getting a computer set up to play with the World Wide Web is a no brainer that seems to be attracting an extraordinary number of people. Problems similar to the one Ralph describes are evident in other questions that many modern young people are asking a lot:

### Reading:

Why read when you can sit and look at things?

(I read in the paper last weekend that 41% of the people who buy prescription medication cannot read and understand instructions as simple as, "Do not take on an empty stomach.")

### Internet:

Why use the radio when telephone will do?

(Numerous packet radio bulletin boards are getting bulletin feeds from the Internet and are proud of it. Most of what they get is worthless junk, and more importantly, have nothing to do with amateur radio in the first place.)

### Amateur radio:

Why work for a license when they are giving them away to anybody for nothing? Isn't the spectrum there for anybody to use for free?

(The last technical seminar I agreed to give was a total flop because the participants knew nothing of the fundamental principles of sending information by radio. Shortly after I started the explanation of digital radio, I was interrupted with the question, "What does this have to do with amateur radio?")

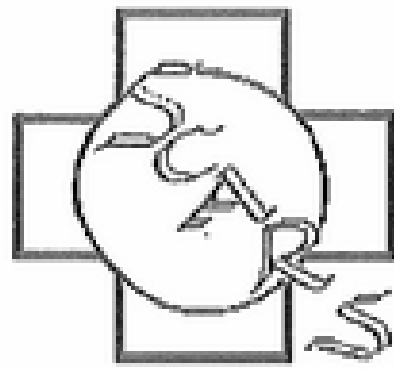
I could go on and on, but I will stop there. I have expressed privately with friends my disgust with the way we have diluted the honorable hobby, one which I used to be proud to cite in job applications as example of my industry and ability to gain knowledge. Phooey, it no longer means anything.

Using the Internet is certainly not bad because there is an enormous amount of information at sites, mostly educational institutions, connected by Internet. And, I haven't had to use a Web browser to find it and get it either. Using computers on amateur radio is not bad; they can not only be useful tools to facilitate logging and DXing, or calculating circuits, antennas, etc, they can also be interesting to program to make them do unique things that can't be done any other way. What perturbs me is when people get computers to use as substitute for radios, and then use them instead of radios to make contacts. Why do they call themselves amateur radio operators?

I am sure it is not a total loss, and the picture probably isn't as bad as what I am painting here. I read some of the amateur radio magazines and am pretty happy to read some of the authors who are making a genuine attempt to share knowledge to those who want it. The League is still publishing some wonderful books. I still have a number friends who have a rich knowledge of how radio works, and are always curious to know more. I have several amateur radio friends in the VHF club who, like me have "done that", but are still interested in knowing more about how things work. In fact, over most of my amateur radio career I have met *many* who have that same burning yen for knowledge that I have. I simply get pretty discouraged from things that so many amateurs have said, and get discouraged when I read how illiterate our society as a whole has become.

I hope that there are others out there who share my concern and take opportunities whenever they arise to nurture those with curiosity about fundamental principles, so they can enjoy some of the wonderful things that are happening with satellites, spread spectrum, sophisticated receiver filtering, and on and on.

Joe, K5JB



## South Canadian Amateur Radio Society

### February Meeting of S.C.A.R.S.

The February meeting of the South Canadian Amateur Radio Society was held on the 10th of February, 1996. Mike McEwen, KC5JGL called the meeting to order at 9:30.

Dennis, KC5ABH, suggested that the club start participating in weather net operations. We could aid in supplying information to the National Weather Service on their 145.210 link. Dennis is also providing weather spotter training on Tuesday, March 5. If anyone is interested in receiving training or participating in the weather net, please contact Dennis at 360-5928. This is an area in which amateur radio operators can provide a valuable community service. All who are interested are encouraged to contact Dennis.

We have been guilty of leaving the room in disarray when we finish our meeting. Don and Sarah have been straightening the room after us, but we shouldn't expect them to do what even our own mothers wouldn't do for us. Therefore, two volunteers are needed after each meeting to ensure that the room is put in order. Remember that we are guests at the Red Cross, and our presence should not be a hindrance to their operations.

We are in need of a power supply for the repeater. Ken, N5BEW, estimated the cost to be approximately fifty dollars. Later, Louis, KC5ABI, moved that we authorize 100 dollars for the purchase of a 12A power supply. Don, KJ5KB seconded, and the motion passed.

Mike, KC5JGL, has asked the park service for permission to operate from Mt. Scott for the 24 hour period of Field Day. Some concern was expressed that the club shouldn't be splitting its Field Day effort.

I, for one, being a firm believer in personal comfort, will probably spend the night neither at Reeves park nor on Mt. Scott.

Ed Berkowitz, N3US, reported that the code class is going well. He suggested that we order crystal receiver kits for those who are interested. The kits will enable listeners to monitor code practice from WIAW. The kits cost 32 dollars. For obvious reasons, those who want one are encouraged to pay in advance. If nothing else, having already paid for the kit provides some motivation to complete it. If anyone is interested, please contact Ed.

Don Byrer, KJ5KB, mentioned that Sundays are good days to use the Red Cross building if anyone desires to use the shack. Contact him at 321-1673 if you would like to use the shack during the week.

If anyone has any extra gear lying around unused, the OU Amateur Radio Club is looking for material. The club is trying to get their shack ready for use, and would appreciate any donations. Now that I think about it, I have a code key that hasn't seen any use in 18 years. Maybe someone would be interested...

Bill Baker, N5UMH, has done a lot of work on the SCARS home page for the World Wide Web. He has been placing copies of club members' QSL cards there. If you have a QSL card, please give Bill a copy of it for the page. For those of you on the web, The URL is <http://www.telepath.com:80/scars/>.

Finally, a poll was taken to decide the preferred meeting length. The choices were between longer and shorter. Personally, I voted for shorter. The less everyone talks, the less I have to write. The meeting adjourned at 10:15. The next meeting is March 9. I won't be there, but Keith, KC5ABI, will be temporarily resuming his secretarial duties.

Take Care,

Randy Ridenour  
WB5RWN

## To Beacon or not to Beacon that is the question...

Beacon, be'kon, n. a fire on an eminence used as a sign of danger: marking a rock or shoal on navigable waters: a radio transmitter that sends forth a signal to alert of it's existence.

The following is excerpted from the ARRL study guide "Now You're Talking", pages 9-27 through 9-28:

The purpose of the beacon, i.e. Packet, is to generate activity when there is none. This purpose was legitimate when there was little packet-radio activity. Back in the early 1980s it was a rare occurrence when a new packet-radio station appeared on the air. Without beacons, that new operator might believe that is station was the only one active in the area. Similarly, stations already on the air would not know of his new presence.

Today, beacons are not necessary. Just a few days of watching your screen you'll get a concise picture of who is on and usually when. Beacons only add to the already congested channels.

Does your beacon serve us out here in the amateur community or does it just serve YOU. How many hours do you beacon with your mailbox inviting mail but very little, if any, mail is ever there for you when you get home ?

The PBBs in your area are there for that very purpose. They serve the needs for mail quite well. Why don't you use them?

And those of you that send the incessant CQ as a beacon banner. We connect to your CQ only to discover your not even there... and we get the message, "Hi! I am not here right now but if you'll leave a message I'll get back to you..." knowing full well you have no intention whatsoever to get back with the person who did leave a message. You really just are amused of the magic of the box itself and like to watch is work.

Do you call CQ on the phone bands and then instantly hop in your car for a short

jaunt to the 7-11 store. I hope not... so why do it on packet ?

Because of these useless beacons it takes forever to go to a PBBS system and get useful information out of it because of the throughput problems caused by the incessant senseless beacons.

Do us all a favor if you're not sitting there in the shack or within earshot of the bell for God's sake turn the beacon off. If you're in the shack and you want to connect to someone set your Unproto banner for CQ and use your ENTER key and send CQ or go ahead and turn on the beacon but use it only if you're there.

de KG0WA @  
WFOA.#SCKS.KS.USA.NOAM

### DXCC COUNTRIES

This one is for people who don't like cryptoquotes. In this list are active DXCC countries.

See how many you can match the prefixes to without looking them up.

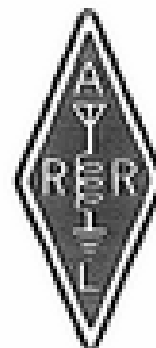
### Happy Dxing!

United Nations Headquarters	GM, GS
Fiji	JY
Bermuda	TI, TE
Scotland	YJ
Costa Rica	LY, UP
San Marino	J2
Micronesia	3D2
Guatemala	4U
Jordan	HV
Lithuania	VR6
Djibouti	S0
Western Sahara	TG, TD
	V6
	T7
	VP9

There are three extra prefixes in the prefix list. Name their countries.

- 1.
- 2.
- 3.

Enjoy! N5VWF



## A. R. R. L. Bulletins

From ARRL Headquarters  
Newington CT  
To all radio amateurs

ARRL Bulletin 11  
February 15, 1996

### Vanity calls delayed

ARRL has learned that the FCC may delay until mid-1996 the announcement of when it plans to open the first gate or gates of the vanity call sign program. A Commission spokesman says the FCC first wants to deal with remaining Petitions for Reconsideration it has received. The FCC had been expected to announce opening dates early this year.

FCC vanity call sign application Form 610V is now available, but the FCC will not accept completed forms until it opens the appropriate filing gates.

Prospective applicants can get the FCC Form 610V package by writing ARRL, 225 Main Street, Newington, CT 06111. Please include an SASE. Form 610V also is available from the FCC via the Internet at <http://www.fcc.gov/Forms/Form610V/> or <ftp://ftp.fcc.gov/pub/Forms/Form610V/>, or by fax at 202-418-0177. Ask for Form 006108.

The FCC's Forms Distribution Center also accepts orders for Form 610V at 800-418-3676.

ARRL Bulletin 9  
February 15, 1996

### PRB-1 change sought

The ARRL wants the FCC to take additional steps to compel state and local governments to make reasonable accommodation for Amateur Radio under PRB-1 and apply the least restrictive means to regulate amateur antennas and

activity. In a Petition for Rulemaking filed February 7, the League calls on the FCC to amend Section 97.15(e) to say that any state or local ordinances restricting ham radio antennas to heights below 70 feet would be presumed unreasonable, unless the state or local authority could show its restrictions support a clearly defined health, safety or aesthetic objective. State and local governments also could not impose substantial application costs on amateur service licensees.

The League also wants the FCC to acknowledge that it has an interest in the effective performance of Amateur Radio stations in areas regulated by deed restrictions or restrictive covenants rather than by local zoning ordinances.

The League says clarifying the preemption policy (PRB-1) would help guide municipalities to enact provisions that make fair accommodation for amateurs and avoid highly divisive litigation between hams and localities.

Under the suggested changes, state and local governments could apply to the Commission for a full or partial waiver of the amended rules in unusual circumstances.

The FCC has not assigned a rulemaking petition (RM) number.

Here is the suggested wording of Section 97.15(e) the petition requests:

(1) State and local regulation of a station antenna structure must not preclude amateur service communications. Rather, it must reasonably accommodate such communications; it must constitute the minimum practicable regulation to accomplish the state or local authority's legitimate purpose; and it must not impose substantial costs on amateur service licensees.

(2) Any state or local antenna restriction or regulation which, on its face or as applied, would limit amateur station antennas to heights below 70 feet is presumed unreasonable unless the promulgating authority can demonstrate that such regulation is necessary to

accomplish a clearly defined, and expressly stated health, safety or aesthetic objective; that there is no less burdensome alternative to the regulation; and that the Federal interest in efficient amateur radio communications from the amateur station at issue is otherwise reasonably accommodated.

(3) Any state or local authority, or other entity that wishes to maintain and enforce zoning, land use or other regulations or restrictions inconsistent with this section may apply to the Commission for a full or partial waiver of this section. Such waivers may be granted by the Commission in its sole discretion, upon a showing by the applicant that local concerns of a highly specialized or unusual nature create an overwhelming necessity for regulation inconsistent with this section. No application for waiver shall be considered unless it includes the particular regulation for which waiver is sought. Waivers granted according to this rule shall not apply to later-enacted or amended regulations by the local authority unless the Commission expressly orders otherwise.

**ARRL Bulletin 10**  
February 15, 1996

**FCC call sign update**

The following is a list of the FCC's most recently issued call signs as of February 1.

District	Group A	Group B	Group C	Group D
	Extra	Advanced	Tech/Gen	Novice
0	AB0AO	KI0AV	++	KB0VFH
1	AA1PL	KE1EA	N1WOJ	KB1BWP
2	AB2AA	KG2FN	++	KB2WXM
3	A3NK	KE3VY	N3WTW	KB3BNF
4	AE4QB	KT4KE	++	KF4GNF
5	AC5GK	KK5WI	++	KC5SQT
6	AC6SH	KQ6DN	++	KF6BGO
7	AB7OR	KJ7UK	++	KC7PBF
8	AA8VV	KG8VF	++	KC8CGD
9	AA9RE	KG9FK	++	KB9MOU
N. Mariana	KH0V	AH0AW	KH0ER	WH0ABE
Guam	WH2S	AH2DB	KH2PL	WH2ANP
Hawaii	++	AH6OK	++	WH6CZW
Amer. Samoa	AH8O	AH8AH	KH8CK	WH8ABF
Alaska	++	AL7QI	++	WL7CRO
Virgin	WP2V	KP2CJ	NP2IU	WP2AIA
Puerto Rico	++	++	++	WP4NIR

++All call signs in this group have been issued in this area.

Automated Maritime Telecommunications System licensee. Orion had argued to rescind the decision to allocate 219-220 Mhz to ham radio saying the 50-mile exclusion distance between AMTS and amateur operations was insufficient to protect primary AMTS operations from harmful interference. Orion asserted that a 575-mile exclusion distance was necessary, which would have precluded Amateur Radio operation in many areas. AMTS coast stations use 219-220 Mhz to receive, and 217-218 Mhz to transmit.

The FCC did agree with Orion's concern that the amateur rules do not adequately specify the frequency range of AMTS operations. The FCC amended its rules to specifically call attention to the fact that one must look at 217-218 Mhz assignments to know what AMTS coast stations are operating in a given area.

ARRL Executive Vice President David Sumner, K1ZZ, says the League is pleased that the FCC reaffirmed its commitment to provide some relief to the Amateur Service at 219-220 Mhz to offset the loss of access to 220-222 Mhz. He says the ARRL has a procedure in place to ensure that amateurs planning to use 219-220 Mhz are aware of their obligations to avoid harmful interference to other services.

**ARRL Bulletin 7**  
January 26, 1996

**FCC changes hearing date**

The FCC has changed the date of its embank hearing on spectrum policy and management to March 5, 1996, and the ARRL hopes to participate. The original hearing date of January 31 had to be rescheduled because of the Federal furloughs triggered by the congressional budget deadlock and heavy snow which extended the shutdown.

The FCC will hear oral presentations and "allow a direct exchange of viewpoints" among individuals and representatives of affected industries. The commission will select panelists from among those who have submitted letters of interest. Panelists will address future spectrum demand and user needs, trends in technology, and approaches to spectrum allocation and assignment, including licensing and uses.

**ARRL Bulletin 8**  
January 31, 1996

**FCC affirms 219-220 Mhz**

The FCC has affirmed the secondary allocation of 219-220 Mhz for Amateur Radio. The action, for the most part, denies a Petition for Reconsideration filed by Orion Telecom, an

1631 SE 15th

677-9001

**Skyline Restaurant**

"country cooking"

*Bryan, Cindy, Jennifer and Jessica*



## Oklahoma City Autopatch Association

### OCAPA Minutes February 20<sup>th</sup>, 1996

The meeting was called to order at 7:30 by John, N5SAM.

There were 6 visitors and 39 members present.

Tom, WA9AFM introduced our special guest speaker Paul Bouchereau from the Channel 9 weather team. Paul gave an excellent presentation concerning training for severe weather spotters. He showed a 30 minute video which dealt mainly with recognizing numerous cloud types and lighting varieties and how they relate to severe weather spotting.

Minutes of the January meeting were approved as printed in the C & E.

Bob, WA9FCT gave the treasurers report and it was approved as presented.

CPR Class: Carol, KC5EXR will be having a CPR class on April 13<sup>th</sup> at the Salvation Army Building. Class will run from 9 AM to 1 PM and is open to all. Persons wishing to attend this class need to call Carole and pre-register three weeks in advance. There will be a charge for books and supplies.

Technical Committee Report: John, N5SAM was pleased to report that the new ICOM repeater is now operating on 146.82. The tower team is planning a trip this weekend to work on antennas.

New Business: The N5FM station at the Salvation Army Building will be available to all on April 19<sup>th</sup> and 20<sup>th</sup>.

Teresa, KC5NBZ is firming up orders for Official OCAPA hats and shirts.

### Collector and Emitter, March 1996

A list of the OCAPA CORA representatives will be given to Hal, KB1ZQ.

Don, KC5BRO made a motion for the club to invite EARS to join us for field day. Motion passed.

Tom, WA9AFM said that all paperwork for the club to get a vanity call sign is ready to go but we are still waiting for the FCC to begin the program.

Tom was also very glad to announce that largely due the continuing efforts of John Thomason, WB5SYT with EARS that the Oklahoma Corporation Commission has passed a resolution that will change the telephone service for all amateur radio autopatch lines from business rate to residential rate. This will reduce our monthly telephone bill by about two-thirds. The new rate went into effect on February 19<sup>th</sup>.

Field Day: Chuck, K5NK has said he will be glad to coordinate our field day for 1996. So far he has these "volunteers": John, N5SAM and Gene, KJ5GX on antennas and Loyd AB5I on the CW station(s). Chuck is still needing a "volunteer" for the SSB station(s) and the Novice station. Loyd AB5I mentioned that both the OKDX association and the Aeronautical Club will join us for field day.

The meeting was adjourned at 9:20.

Jim Richardson N5OHL  
Secretary

## THANKS FOLKS!

About 8 p. m. Thursday evening, February 22<sup>nd</sup>, I received a call from Lou Price, KA5NEO. He wanted to thank OCAPA and the unknown ham that made the phone call to report a fire at NW 23 & Penn behind Mega Market. Lou said he tried 2 other repeaters with no success. The 146.82 machine was in his next memory slot. The ongoing QSO was interrupted with the "BREAK BREAK" where Lou relayed the necessary information. The phone call was made to report the fire, and he was informed that the fire had just been reported. Lou called

me because he new I was a member of OCAPA and that he was grateful for the assistance. As President of OCAPA, I was proud to accept his thanks on behalf of the club.

John Brassfield N5SAM  
OCAPA President

## FIELD DAY 1996

Field Day will be here before we know it. The last of June will be here and plans are underway for another successful outing. With some arm twisting from President John, I have agreed to take on the responsibility of Field Day Chairman for this year. Being fully retired, I felt there was no reason not to do so.

We have a wonderful club with many great folks. When it comes to volunteering for various jobs, several of the members are ready and willing to offer their services. I feel we had one of the better Field Days last year that we had held, this one without a lot of the modern conveniences we have had in the past such as air conditioned motor homes and large tents. The Salvation Army food trailer was great for serving meals. All those who volunteered their equipment and helped set up the facilities did a great job.

We have been given approval by the Deer Creek administration to hold Field Day at the school this year. Many members have expressed their opinion that we should probably be more available to the general public to demonstrate our abilities in case of needed operations during emergencies, therefore, it was decided to move back to the school in 1996. We are fortunate that we have available to us two great sites, the school and the farm owned by our repeater trustee, Jay Liebmann, K5JL. We are not saying that we are completely abandoning the K5JL farm, but feel that it is good to change now and then.

Several have already volunteered their services, some with a little arm twisting by the chairman. But, being the good-natured people they are, little resistance was offered. I have asked John, N5SAM to be in complete control of our antennas

# The Leonard Hanstein Memorial Scholarship

Sponsored by the  
Oklahoma City Autopatch Association

The information requested herein will be used by the selection committee in awarding of the scholarship. All information will be confidential and the application will be seen only by the members of the selection committee. 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 15, 1996.

Return applications to:

Don Ayers, KC5BRO  
Rt 1, Box 108X  
Edmond, Oklahoma 73003  
(405)-340-0458

Applicants must be a graduating High School Senior who is a member, child of a member or grandchild of a member of a CORA, Inc. supporting club. List of available clubs is on page 2 of the Collector and Emitter. Any questions please feel free to call Don, KC5BRO. Award to be given at the CORA annual Ham Holiday, July 27<sup>th</sup>.

## 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: \_\_\_\_\_

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

\_\_\_\_\_

HAVE YOU RECEIVED ANY OTHER SCHOLARSHIPS? IF SO HOW MANY?: \_\_\_\_\_

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 EXPERIENCE.

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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

## AUDUBON SOCIETY MEETING

The January meeting of the Audubon Society was most interesting. This is always held prior to the regular CORA meeting on the fourth Tuesday night of the month. Various species are discussed, assets and liabilities of each.

Most of the regular members were present while one was late in arriving. Upon entering the establishment, he was wearing the jacket won at a recent rodeo, primarily entered by those who herd large 18 wheelers around. After shedding the jacket, the young owlet came to take his order. Noticing the jacket, she immediately put it on to wear and covered her assets, proceeding to fly all around the restaurant modeling the same. Upon arriving back at our booth, she inquired what type of cow hand he was, thinking he could possibly be a roper.

His eyes never left the jacket and young owlet. Finally she removed it before we departed and he was very happy to get it back. Following the C.O.R.A. meeting, much discussion was heard on the 82 repeater as to the whereabouts of this individual at certain time of the night.

Now this sweet young thing has been observed working out at one of the local fitness centers. It is reported that one certain rodeoing truck driver is considering joining this center to improve his physical appearance.

K5NK

K5NK

you spotted her at "your" fitness center. Besides, no self respecting rodeoing truck driver is going to work out on a bunch of "girlie" fitness equipment

Rodeoing Truck Driver

## AMSAT Segment on TV

Members of the Phase 3-D International Project Team are part of an upcoming Discovery Channel TV program, EYES IN THE SKY. Keith Baker, KB1SF,

AMSAT-NA executive vice president, says the cable channel will present the two-hour-long special during multiple airings throughout March. The segment of the program containing the AMSAT footage runs for about 6 minutes. Actor Barry Corbin, who plays an ex-NASA astronaut on the TV show NORTHERN EXPOSURE, is the narrator.

US broadcast times (eastern time) on the Discovery Channel are 9 PM, Sunday, March 10, and 3 PM, Sunday, March 17. Repeat showings are at 1 AM and 9 PM, Wednesday, March 20.

The segment is expected to include members of the AMSAT Phase 3-D team working on the satellite at AMSAT's Orlando, Florida, Integration Laboratory. Viewers will see Baker as well as Dick Jansson, WD4FAB, AMSAT-NA vice president of engineering, and Stan Wood, WA4NFY, AMSAT-NA assistant vice president of engineering, all shopping for satellite parts at an Orlando surplus house. Jansson also is shown searching for antenna parts in the housewares section of a local department store, followed by various views and on-camera comments from all three individuals along with shots of other people actually working on the new satellite in the Phase 3-D lab. On-location filming for AMSAT's portion of the segment was completed last October, just after AMSAT-NA's 1995 Space Symposium in Orlando.

According to Paul Gasek, the program's producer/director at Stonybrook Films in Brewster, Massachusetts, the AMSAT segment demonstrates that high tech doesn't need to be high cost. Baker said the AMSAT portion of the program provides another opportunity for amateur radio and AMSAT to get national television exposure showing what we hams know how to do best: being creative, pushing the state of the radio art forward, and having some great fun in the process.

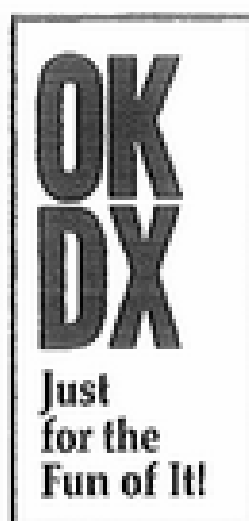
For more information, contact Keith Baker, 1324 Fairgrounds Road, Xenia, OH 45385, 513-429-5325 (voice/FAX), or e-mail to KB1SF at [amsat.org](mailto:amsat.org).

and their erection and placement. John is very good at this and I know he will have all the help he needs, but John is to have final say so. Loyd, AB5I has once again agreed to be responsible for setting up the CW. station, acquiring the table, small awning and radio, keyers, etc. This was one of the favorite locations at the 1995 site and I know Loyd will do a good job this year. Tom, WA9AFM has volunteered to be in charge of publicity, while he and John, KC5DRI, have agreed to be responsible for the packet and satellite station. Jim, K5PER will have his travel trailer and antennas available for satellite use. N5WNL has agreed to be responsible for six meter operations. Don, KC5BRO, one of the club's most reliable members, has agreed to see that the Salvation Army kitchen trailer is delivered to the site and Rick, AB5ON has once again volunteered to be responsible for breakfast on Sunday morning. And, of course Ed, WA5YDF, can always be depended on to see that the club trailer is ready for operation. So, as we can see, we are well on our way with some good volunteers. I have probably left some out, and I apologize for that, but you will be recognized at a later date.

So, even though we are early in the planning stage and have many volunteers, there is much to be done. We need folks to be responsible for the phone station as well as the novice and technician station. We need someone to take on the duty of seeing that the club has ample generators and be responsible for them. We need a food committee to purchase drinks and sandwich materials. I feel comfortable that we will fill all these in the next few weeks. Several have said they would help, so we will find a spot for you.

The Aeronautical Center club has expressed their desire to once again join us in our operations this year as has the Oklahoma DX Society. We have invited the EARS club to join us this year. So, things are looking up for a very good Field Day 96. We still need help, so if you would like to offer your services, give me a call.

Chuck, K5NK  
Field Day Chairman



## OKlahoma DX Association

### From the Prez ...

Hello everyone. I hope you are doing great. As I write this, all equipment has been obtained to connect the Oklahoma City Packet Cluster to the outside world. We are expecting to be on the air in early March. Watch 144.91.

I hope to see everyone at the Green Country Hamfest on March 23. OKDXA will have a business meeting at 11:00 a.m. Also look for us in the flea market.

The drawing for the IC-706 at Green Country has been cancelled. This decision was not made until March 1. I regret the lateness of this change. I apologize for any inconvenience to Club members and the amateur community. Please return all money collected. Money that was sent to me has been returned to each individual. If you wish, you may send the money to me and I will return it by mail.

The disposition of the IC-706 has not been determined. It may be available for purchase in some manner at Green Country. Profits will be used to cover the expenses associated with the drawing. I appreciate everyone's support with this idea, but we were unable to bring it to fruition. Please continue to contribute ideas to make our Club a better one.

At the Green Country business meeting, I will be making three proposals. As you know we raised dues from \$10 to \$20 at the last meeting. The current bylaws state that the dues year runs from October 1 until October 1 and does provide for proration during the year. I propose that the dues be prorated quarterly for new members. Also, I propose that the dues for a second family member at the same address be \$10 per year. Only one C&E will be mailed to that address. And

finally I propose that dues for senior citizens over age 65 and for the physically impaired be \$10 per year. We will discuss these at the meeting. I am certainly open to suggestions. A majority vote by the membership is required for these changes.

I have a goal of putting together an OKDXA DXpedition during the coming year. Let me know your interest and ideas. It will need to be a team effort. This first one should probably be kept simple and economical. Probably in the Caribbean.

Well, you all come to Green Country and have a great time.

73 de WV5S

### Treasurer's Report ...

#### Membership

The current membership stands at 79 as of this writing (27-Feb-96). 53% of the membership have paid their extra \$10 dues. Thanks! I'll have Treasurer's Reports and membership rosters available for members on our flea market tables at Green Country Hamfest.

### The Contest Continuum ...

by Coy Day, N5OK

#### What Would it Take to Build the Ultimate Contest Station?

I've been considering the above as well as the following questions. Is it something that has been priced out of the average ham's range? Is the 'big bucks' solution the only way to make a winning contest station? Can a retired ham with modest income build a competitive station? Why would anyone want to build a contest station in the first place?

I've talked with stations using multiple stacked arrays including stacked 80 meter beams. I can't even think about putting up one 80 meter beam, much less one at 120 ft with another at 200. My Rohn 25 wouldn't support such massive antennas anyway. I can't even afford the rotor to turn one of them. Commercial towers, monster antenna systems, huge rotors, not

to mention very expensive radios and computers. It boggles the mind.

Back to the question, 'Why would anyone want to build a contest station in the first place?'. Because it hasn't been done before. (Not hardly) It's something to do on weekends. (Not that I don't have enough to do already) It's fun? (Sounds more like work) Just to see if it can be done by a retired guy with limited income? (Now we are getting close).

The first thing that I needed was a plan, which I developed over a few years of observing what the big guns were doing. Knowing that I couldn't spend \$50,000 to build a contest station, I started collecting things that I could afford in hopes that through good engineering practices and modest expenditures I could build a competitive station. I won't cover the whole plan at this point but will let it unfold as I go. It consists of two towers with the KT-34XA at 90 ft on one tower and the 40 meter M Squared and the 5 element 20 meter long boom on a 100 ft tower. Quad loop and sloper combinations for 80 and 160 meters will be hung between and on the towers. I also plan a couple of rather lengthy beverage antennas if and when I work out the right of way.

The first thing in the plan was to find the perfect location, one that is free of RF noise, has enough space to spread out the antennas, is free of high winds (in Oklahoma?), has neighbors that are not hostile or no neighbors at all, has no ordinances limiting tower height, is not in a hole or at the bottom of a canyon, and is something the wife can live with! This was very difficult in today's environment. Oklahoma City adopted a tower height ordinance that basically eliminates any consideration of a competition class station. Mustang and Yukon followed their lead. The grand kids dictated that we live near Yukon. (see above, 'something the wife can live with') I ended up on the North side of Union City. I found a hill that looks like it is the highest point in Canadian County and amazingly enough, when I drove around with the mobile HF rig, it was clear of

noise. My nearest neighbor is a quarter mile away and the next nearest is over a mile. Union City says they only require that I meet the FCC rules for antenna height. I'm good to go!

Now to site the towers, pour lots of concrete, build the towers, build a lightning protection system, run lots of coax, build and mount the antennas that I have, set up the radios and computers, scrounge/build more antennas, buy/build more radios/computers, etc. As I venture through this project I will keep you posted on my successes and failures. What worked and what didn't. Any input or suggestions are certainly welcome. I'm going to need all the help I can get. Until next time, good contesting!

#### DX News ...

##### *Scarborough Reef (Huang Yan Dao) ... A new one!*

The official word of Scarborough Reef's placement onto the DXCC Countries list came just as the February "to press" deadline fell upon your editor. Although it may be old hat now, here are all the details ....

#### DX Bulletin 5 ARLD005

From ARRL Headquarters  
Newington CT January 23, 1996  
To all radio amateurs

#### ARRL Board of Directors Votes to Add Scarborough Reef to ARRL DXCC Countries List

The ARRL Board of Directors at its meeting in Savannah, Georgia, approved a Membership Services Committee recommendation to add Scarborough Reef to the ARRL DXCC Countries List. The vote was 11-yes, 3-no, and 1-abstention. Scarborough is added to the list based on DXCC Rules Section II, Point 2(a) (separation by water).

QSL cards will be received by the DXCC Desk starting April 1, 1996. Cards received before that date will be returned without action.

DX Bulletin 6 ARLD006  
From ARRL Headquarters

Newington CT January 25, 1996  
To all radio amateurs

Today the DXCC Desk announced that the start date for Scarborough Reef is January 1, 1995. Only QSOs made on, or after, that date will be eligible for DXCC credit.

The first accredited operation took place in April of 1995. The 1994 DXpedition did not qualify as a "land based operation."

As previously announced, QSL cards will be received by the DXCC Desk starting April 1, 1996. Cards received before that date will be returned without action.

#### *Mt. Athos Vote Postponed ...*

Garth Hamilton, VE3HO, DXAC chairman, has postponed the DXAC vote for Mount Athos INDEFINITELY. When it is resubmitted to the committee for a vote, the option to DELETE will be omitted. The only options will be to either WITHDRAW or LEAVE it as is. Stay tuned.

#### *Pratus cards soon, if not now in hand!*

BV9P QSL manager, Steve, KU9C, reports, that his plans were to have the BV9C cards all in the mail by 29 Feb. These would be confirming all 3 accredited operations. If you're not yet looking at yours, you should be soon!

#### *Zones for BV9 and BS7 ...*

Tim Totten, KJ4VH, reports that Pratus Island (AS-110) is CQ Zone 24 and ITU Zone 44. Scarborough Reef lies in CQ Zone 27 and ITU Zone 50.

#### *Romeo disqualified!*

DX Bulletin 11  
From ARRL Headquarters  
Newington CT February 21, 1996  
To all radio amateurs

The ARRL Awards Committee met recently to review submitted documentation for the 1992-93 P5RS7 operation submitted by Romeo Stepanenko. After a review of all material available, the Awards Committee voted unanimously to disqualify Romeo

Stepanenko from participation in the DXCC program.

This disqualification is based upon Rule 12, Operations Ethics, and Rule 13. The disqualification means that Stepanenko is not eligible to participate in the DXCC program in any manner. This includes, as provided for under Rule 12, Paragraph (B) disallowance of contacts made with any station or DXpedition operated by him from the time of this action.

#### *North Korea news ...*

Wayne Mills forwards the following from Marty, OH2BH/VR2BH... "The Democratic People's Republic of Korea (North Korea) project group has been busy maintaining multiple contacts and discussing additional steps required to establish amateur radio in the DPRK and make P51DX QSOs available for the Deserving. This week's tentative trip to the DPRK has been rescheduled to the second half of April because of a variety of reasons. Among them are that currently there are only sporadic flight connections from Beijing. And and exceptionally severe winter is affecting the normal life in the DPRK.

Following the visit by the DPRK Amateur radio delegation to Beijing during the recent Beijing DX Convention, a major donation of Amateur radio related equipment was shipped to the DPRK Amateur Radio Association. The April delegation to the DPRK will be headed by Mr. Chen Ping, BAIHAM, Deputy Secretary General of the CRSA (China Radio Sports Assn.), and organizer of the successful Scarborough Reef operations.

The DPRK project is involving the CRSA, utilizing the good relations between these two countries. The underlying aim of the DPRK project is to establish permanent activity with the large base of radio communications enthusiasts that are currently involved in Amateur Radio Direction Finding as well as in classroom Morse competitions.

Instead of DPRK travel, OH2BH and family members ... will be traveling to Myanmar on February 17 to conduct

further amateur radio training and some operating. They will be joined by OHIRY, training coordinator of ZAIA fame and OHIMA to make XZ available on some of the low bands such as 80 and 160m. This group is also making final preparations for a large American Expedition (XZIN) now scheduled for the first week of April, 1996."

*Heard Island, VK0, plans ...*

Last month I included a long letter from Anthony Deprato, Director of Operations, South Sandwich Island Antarctic DX Group, which explained why his group should be the group going to Heard Island in 1996. The "other" group that was mentioned is the Cordell Expeditions group. Here is a news release from Anthony announcing their decision.

From: tdeprato@polarbase.win.net  
(ANTHONY W. DEPRATO)  
Date: 03 Feb 96

ref: copy of letter to SOUTH SANDWICH ISLAND DX GROUP MEMBERSHIP

As you know the SOUTH SANDWICH ISLAND DX GROUP had once again made plans to land on HEARD ISLAND this year. Our landing date was set for DEC 2, 1996 with a three week stay. Arrangements have been made to ship all equipment and gear to the shipping company. And as most of the DX world knows, KK6EK and ON6TT have reactivated their plans for a landing on HEARD ISLAND in JAN. of 1997. At this time they are trying to raise money for their trip. About three weeks ago Bob, KK6EK, called me on the phone and we spoke about the fact that two DXpeditions would end up being on the island at the same time, or shortly there after. I felt this was not a good ideal and informed Bob of this fact. I also stated that I felt that the SOUTH SANDWICH GROUP should be given the chance to try their hand since we had stepped aside when the news was released by K0IR that he was going a year ahead of our prereleased date. KK6EK informed me that he and Peter had reactivated the plans and that they were going also. At this time I suggested that we combine forces and that this would give the additional 10

operators that KK6EK wanted. I am sorry to report that KK6EK flat turned me down with no reason as to why we could not do a joint venture. I informed him that we had stepped aside once and would not do so again. I would like to thank the SSIDXG membership and the DX WORLD for all the help and encouragement that you have given us on this matter and even though 99% of the fax, phone calls, and email that I have received has been to go ahead with the DXPEDITION we must take into consideration what this would do in the DX WORLD. SSIDXG could go ahead and land on HEARD ISLAND the first week of December and operate for three weeks before the other DXPEDITION arrived. How well we would do would of course depend on propagation. What this could mean to the other groups QSO numbers needs not be put into words. This I feel is not in the keeping of the amateurs code.

The SOUTH SANDWICH GROUP is not out to win any race or to prove we can do anything or too beat any other group. I think our records of past DXpeditions speak for themselves. Three other thoughts come to mind when we were making our final decision on the HEARD ISLAND DXPEDITION.

1. That a MAJOR SPLIT would come about in the DX world as DXER'S would have to make a decision as to which group to support. It has and always will be one of the goals of the SOUTH SANDWICH GROUP not to do or be apart of anything that would be harmful to the Amateur radio world.
2. That the other group left their gear in VK-LAND and would either have to have it returned at an additional expense to their group or go ahead and arrive on HEARD ISLAND three weeks after the SSIDX group had been there. This would not be fair to anyone or group.
3. Since a joint effort had been refused the DX WORLD could not afford to support money wise two HIGHLY EXPENSIVE DXPEDITIONS TO THE SAME ISLAND.

Even though the SSIDXG has transportation worked out for our operation I have been able to work out a deal for TWO other ANTARCTIC ISLANDS later in the year. The SOUTH SANDWICH GROUP will not nor have we ever put on an operation with thoughts of MONETARY or PERSONAL GAIN as our goal!

It is with these thoughts in mind that THE SOUTH SANDWICH ISLAND DX GROUP has decided to once again put on "HOLD" our plans to activate HEARD ISLAND!

THE SOUTH SANDWICH DX GROUP would like to wish KK6EK and CREW the BEST OF LUCK with their DXpedition! It is our hope and wish that they have a very SUCCESSFUL and SAFE DXPEDITION! "GOD SPEED AND A SAFE RETURN! "

With best regards

Anthony W. Deprato WA4JQS/VP8BZL  
Founder: South Sandwich Island  
Antarctic DX Group

-----  
And so with the SSIDXG again gracefully bowing out of the Heard Island plans ... here are the continuing plans of the Cordell Expedition group.

Date: 96-02-01 11:34:09 EST

"We are pleased to announce the complete radio team for the 1997 Heard Island Expedition:

EA8AFJ Michel Sabatino  
GXXMX Vincent Denecker  
HB9AHL Willy Rusch  
KA6W Ted Algren  
K0IR Ralph Fedor  
K4UEE Bob Allphin  
K9AJ Mike McGirr  
KK6EK Robert Schmieder  
N6EK Bob Fabry  
NP4IW Carlos Nascimento  
ON6TT Peter Casier  
PA3DUU Arie Nugteren  
RA3AUU Igor Harry Buklan  
W6OTC Glenn Vinson  
W8FMG Wes Lamboley  
WAXPUJ Glenn Johnson

WA3YVN Al Hernandez  
9VIYC James Brooks

We have reserved one place each for an operator from JA and VK, which brings the team to the targeted total of 20 persons. We will maintain a waiting list, and should a vacancy occur on the team, we will fill it from that list.

We have successfully negotiated an agreement with the French Institute of Polar Research and Technology (IFRTP) for passage aboard their brand-new 120-meter supply vessel, the "Marion Dufresne." The team will fly to Reunion Island, off the east coast of Africa, and depart on Jan. 3, 1997. Operations will commence on Heard Island on Jan. 12, and end on Jan. 28, with the team returning to Reunion Feb. 5. The total time away for the team members will be exactly 5 weeks.

During the voyage, the vessel will make brief stops at Crozet and Kerguelen, and the team may be able to operate from those islands. We are continuing to seek alliance with a non radio group to carry out the scientific observations on Heard Island.

You can read many details about the plans for this expedition in scoping document posted on the Web pages:

<http://www.ccnet.com/~cordell/HI/scoping>.

With the team and transportation complete, we now turn to fund raising and the technical issues of providing life support and operations. As always, your comments are welcome.

Bob KK6EK with: Peter ON6TT, Ralph K0IR, Carlos NP4IW, and Bob N6EK

#### *DXCC Program to get review ...*

The ARRL Board of Directors met in annual session, January 19 and 20, 1996, at Savannah, Georgia. One action taken at the meeting was the appointment of a committee to review the DXCC Program. Here is the text referencing that action from ARRL Bulletin 5, January 22, 1996.

A committee will be assigned to review the DXCC program and make necessary recommendations in order to encourage broader participation, make the program more equitable, create better understood criteria for DXCC 'countries,' improve the process of reviewing requests for additions and deletions to the ARRL DXCC list and increase efficiency in the administration of the program.

#### *QSL bureaus of the CIS (ex-USSR) from DK3VN*

EK - Box 22, Yerevan 375000, Armenia  
ER - Box 6637, Kishinev-50 277050 Moldavia  
EU - (c/o EU1AO) Box 469, Minsk-50, 220050 Byelorussia  
EX - A.R.U.K., Box 1100, Bishkek, 720020 Kirghizia  
EY - T.A.R.L., Box 303, Glavpochtamt, Dushanbe 734025 Tadjikistan  
EZ - T.R.A.L., Box 555, Ashgabat 744020, Turkmenia  
UK - Box 0, Tashkent, 700000, Uzbekistan  
UN - (c/o UN9PC), Box 112, Karaganda 470055 Kazakhstan  
UR - U.A.R.L., Box 56, Kiev-1 252001 Ukraine  
4K - (c/o 4K7DWA), Box 165, Baku 370000 Azerbaijan  
4L - Box 1, Tbilisi 380002 Georgia  
UA - (c/o RZ3AZO), Box 59, Moscow 105122 Russia - also - C.R.C.R.F., Box 88, Moscow, Russia

#### *Web sites for proposed CY0 operation ...*

These Web sites tell a little about the June 1996, CY0AA, expedition ...

<http://www.cam.org/~dino/sable.html>  
<http://www.accessone.com:80/~vbook/1996/feb/cy0aa.htm>

#### *Future significant DX operations ...*

News of the following operations were taken from The ARRL DX Bulletin, The Ohio/Penn DX Bulletin, The DX Bulletin, QRZ-DX and The 425 DX News, and the Internet DX Reflector. Abbreviations at the end of the spot indicate the source, e.g., (QRZ) = *QRZ DX Bulletin*.

- AGALEGA, 3B6. Barry Fletcher, ZS1FJ/G3MFW and several ZS DXers anticipate activating 3B6 in May 1996. (Internet DX Reflector)
- AMSTERDAM IS., FT8Z. Mehdi, F5PFP, is planning an expedition of about one month's duration to one of the rarest Amateur radio countries. The trip is planned between Nov 96 and Feb 97. (425DXN)
- BANGLADESH, S21. Andy, S21YE, will be active for one more year on all bands, SSB only. S21B is also active for CW QSOs. Check 14226 kHz around 0030z. QSL via G0EHX. (TDXB)
- BOUVET, 3Y. Barry Fletcher, ZS1FJ/G3MFW reports that he hopes to make a 2-week DXpedition to Bouvet in 1997 courtesy of the South African government which will be making an Antarctic trip. (Internet DX Reflector)
- BHUTAN, A5. John, KD0JL, reports that Jim Smith, VK9NS, is planning an early 1996 operation. (QRZ)
- CHAGOS IS, VQ9. Ron, AA5DX, is in VQ9-land. Ron's call is VQ9DX and he will be concentrating on 160, 80 and 40. He will be there for about 4 months. QSL to Ron's address in KP4, Ron Marra, Marginal 301C, La Rambla Suite 205, Ponce, PR 00731 (Internet DX Reflector)
- CHRISTMAS IS., VK9X. Ken Miyamori, AD4WF/JA1CMD, will operate briefly as VK9XII on March 23-25. Same info as Cocos-Keeling Is. below. (TDXB, QRZ)
- COCOS-KEELING IS., VK9C. Ken Miyamori, AD4WF/JA1CMD will operate as VK9CA March 19-23, all bands, CW and SSB, concentrating on the new bands. QSL via the JARL bureau to JA1CMD or send an SASE to QSL manager AE4EZ, Kiyoshi Endo, 8 Amlajack Blvd, Suite 362, Newman, GA 30265. (TDXB, QRZ)
- EAST MALAYSIA, 9M8. DL3ABL, Andrea and DL6MHW, Micha will activate 9M8 (Sarawak) March 14-25. Callsigns not known yet, CW and SSB, 40m, 20m, 17m, 30m, 80m (in order of our preferences). QSL via DL3ABL, Andrea Diekmann, Bruno-Taut-Ring 56, D-39130 Magdeburg, Germany (Internet DX Reflector)
- FRENCH POLYNESIA, FO. Ron, N6VO, will be on Tahiti the entire month

of March as FO5VO, mainly CW on the low bands. QSL home call. (425DXN)

- GAMBIA, C5. March 4-18 by German ops, CW and SSB emphasizing the low bands. QSL DL7DF (ex-DL7UO)
- HEARD IS., VK0 - 96? See article in this newsletter.
- ICELAND, TF. ON hams will operate the CQWW WPX SSB contest Mar 30 & 31 using a special callsign and from Mar 26 - Apr 2 signing TF/. QSL home calls.
- KAMPUCHEA (Cambodia), XU. Mike Vestal, XU6WV, will QRV Feb 23 through Mar 15. (Internet DX Reflector)
- KERMADEC IS., ZL8. Ron Wills, ZL2TT, writes in a DX Reflector release .... "Just to advise everyone that things are going well for this DXpedition. Ken Holdom, ZL2HU has sent to ARRL and the ARRL DXCC Desk, copies of photographs of the ship and copies of all permits and licenses. He has also sent them to QRZ DX amongst others. Other than finance, all is now sorted out for the DXpedition to be active on all bands, all modes for a period of 11 days, May 4 -14, 1996." Donations to The Kermadec DX Association may be made c/o Ken Holdom ZL2HU, POB 56099, Tawa, New Zealand." (Internet DX Reflector)
- LAOS, XW - Adri, PA3BWS, hopes to obtain permission to operate for a subsequent trip planned in 1997. (ARLDX)
- MACQUARIE IS., VK0 - VK0WH Warren Hull, VK4ATS, has reprogrammed his transmitter for 7010 and 14040 Khz on CW and 14260 Khz on SSB. Contacts on CW are slow due to Warren's inexperience with the mode. He is purportedly active 4-5 evenings per week except for Friday and Saturday. The new QSL route is VK9NS, Jim Smith on Norfolk Is. One card per envelope please. Warren is capable of simplex contacts only. Many DX PacketCluster spots, however, report him listening up 1 or 2 Khz. Also a Pacific pirate using the VK0WH call has been operating at 30 wpm plus! Beware of these operations! Warren has stated that his CW is slow and he cannot listen up. (TDXB and QRZ)
- MADAGASCAR, 5R. Gerard, F2JD, should now be in 5R-land for at least 6 months and should be on the air now. He

will try to be active on all bands. (TDXB, ARLDX and 425DXN)

- MALTA, 9H. NODXA members and friends will be from Malta from May 17-31 emphasizing the low bands. QSL via DL7VRO. (OPDXB)
- MARIANA IS., KH0. Allen, KN6AH, will operate at KH0/ Mar. 25-30, CW and SSB, on 40, 10 and 15m. QSL to home address. (TDXB)
- MARION IS., ZS8. QRZ-DX reports several sources saying that an HF licensed Amateur is supposed to activate ZS8MI in March 1996. (QRZ)
- MONACO, 3A. Luc, I1YRL, will be finishing an operation from here as 3A/I1YRL during March. He will also be active from Geneva as 4U1ITU during this time period. QSL via I1YRL. Also Laura-Marcelle, 3A2MD is reportedly on 14175 to 14180 Khz daily between 1400 and 1600Z (ARLDX).
- MYANMAR (Burma), XZ. Large DXpedition made up of mainly US hams in April 1996. Callsign will be XZ1N. (Internet DX Reflector)
- SABLE IS., CY0. Ken, WA8JOC, reports that everything is still "go" for the upcoming June CY0AA DXpedition. The team will concentrate on 30 through 6 meters but will have wire antennae for 40, 80 and 160m. (OPDXB)
- SAN FELIX, CE0. Possible activity during 1996 by CE3HJB and CE3CDV. (425DXN and ARLDX)
- SIERRA LEONE, 9L. Jim, 9L1JC, will be active until at least August. QSL to POB 1031, Freetown. (OPDXB)
- ST. HELENA, ZD7. Andy, G4ZVJ will sign ZD7VJ from the island of St. Helena, 29 March - 12 April, CW only on 1827, 3503, 7003, 10107, 14027, 18077, 21027, 24897, 28027 (+/- QRM) listening up. From 16-23 April there may also be activity as ZD8VJ. QSL via new G4ZVJ address: Andy Chadwick, 5 Thorpe Chase, Ripon, North Yourshire, HG4 1UA, England.
- ST. MAARTEN, PJ7. Bob and Dot Truhlar will operate as PJ7/W9LNQ and PJ7/N9ALC, respectively on March 16-23, all bands, CW and SSB. QSL to 1701 W. 101st. St., Chicago, IL 60643. (TDXB)
- ST. PIERRE and MIQUELON, FP. FP5EK hopes to be active daily at 2200Z

on 3515Khz. (That doesn't do us any good does it?! Maybe he'll stay later some evenings.) QSL via K1RH. (ARLDX)

- SVALBARD, JW. Claude, F6EOZ, will be on Svalbard from March 3 until mid-May and will sign either JW/F6EOZ or JW/TM6E. Claude will concentrate on 20m and satellite contacts. Tom Ramberg, LA6VDA, will operate as JW6VDA, Mar 1-10. QSL new home address, Bergstien 3, N-9350, Sjovegan, Norway. (TDXB)
- TONGA, A3. Paul Kidd, KK6H, will be on the air from Tonga February 20 through March 20, primarily CW and RTTY. His call will be A35RK. Paul says he'll be on SSB only if 1) he gets really bored or 2) you send him your credit card number! ha Paul says this is a business trip in preparation for a permanent relocation to Tonga in July.. He be on most likely from 1700-1900 and 0500-0900Z. He will not be on 160m. QSL only to W7TSQ or the W7 bureau c/o W7TSQ. (Internet DX Reflector)
- TRINDADE, PY0TI. PY1UP is on Trindade Island for another 4 month stay as a crew member of the Brazilian Navy Base. He intends to operate all bands as PY0TI. QSL via his home call. (Internet DX Reflector, ARLDX)
- TUNISIA, 3V. Frank, DL8HYR, should be active from the club station 3V8BB from March 1-10. Operations are planned mainly on satellite and EME but there will be some low band activity. Also Hrane, YT1AD, will join the CQWW WPX SSB contest at 3V8BB. QSL his home call. (425DXN)
- UGANDA, 5X. Peter Casier, ON6TT, has signed a contract with the UN to manage their telecommunications team for the World food Program in Eastern Africa. Based in 5X, he will travel frequently to 9X, 9U, 9Q, 5H, ST, ST0, T5, 5Z, E3 and ET, operating as possible. His contract is for 6 mo. to 2 years with time off for the Heard Island DXpedition. He should be on from 5X within a month or so. QSL to ON5NT. (TDXB)

#### *Sources for DX info ...*

There are many sources out there for DX information ... magazines, lists, bulletins, books and etc. Some are available only

by subscription and some are free, if you know how to get them. We'll continue this column for the next few months to introduce many of the most well known and most useful DX info sources. We would even appreciate tips on sources you find particularly valuable.

Since some of these are actually businesses we want to be sure to plainly state this disclaimer: our reviews are presented only for the benefit of our membership and are not an endorsement by CORA or the OKDXA. Neither CORA or the OKDXA have pecuniary interests in any of the businesses which we will preview. In January we reviewed *The GOLIST, QSL Manager List*. Last month we reviewed *QRZ DZ*. This month it's ...

#### *The DX Bulletin*

For over 825 issues, Chod Harris, VP2ML, has published *The DX Bulletin*. Like *QRZ DZ*, Chod uses an 11x17 inch stock, single folded to make a 4-page, 8.5x 11 inch bulletin. The *DX Bulletin* is printed 50 times per year. It is dated with a Friday date and usually arrives in my Ponca City mailbox on Saturday.

Chod divides the bulletin into about six sections. The front page lists the DXpedition News, condensed versions of the full-blown DXpedition plans released on the Internet DX Reflectors and faxed directly to Chod and other DX publications, and the Shortly Noted ... tidbits on contest operations, strange calls, special events, QSL route changes and etc.

The inside left page is devoted to a Propagation Forecast for the next two weeks and DX News ... consisting of what is currently hot in the DX world like DX meetings, DXCC actions, QSL info and QSLs received.

The inside right page is BANDPASS, a user generated list of stations heard/worked by band/mode. This gives times, frequencies and the location the hearer.

The back page is devoted to a particularly useful feature called Current and Future

DXpeditions. It is an alphabetical summary of what DXCC countries are currently on the air and will soon be on the air. The callsigns and operation dates are given and the Issue number of *The DX Bulletin* is given as a reference so ops can pull back issues to get all the details (QSL routes, operations freqs and times and etc.)

An annual (50 issue) subscription costs \$44 for first class mail or \$34 for second class mail. The address is POB 50, Fulton, CA 95439-0050. Chod's telephone and fax is 707.523.1001.

#### *Rumored contest scores on the 'net' ...*

Trey, WN4KNN/6 reports, "I am pleased to announce a new mailing list dedicated to the reporting of contest scores: 3830@akorn.net. Many thanks to Bill fisher, KM9P, for setting this up. The purpose of this list is to provide a forum for people who wish to report their scores after contests, much like the post-contest "Liar's Net" on 3830 Khz. Scores posted to the 3830 List will be summarized daily to the CQ-Contest List during the week following a contest weekend.

I hope that the creation of this group will help off load some of the traffic from CQ-Contest and help keep its focus on discussion rather than score reporting. This change will be transparent to those wishing to continue to see all traffic by subscribing to the new list as well (send a message to 3830-request@akorn.net that says SUBSCRIBE)."

#### **Monthly Features ...**

##### *Meet the Sysops ...*

No submission for March ...

##### *Doing your ALL to get that card ... the introduction - by N5OGP*

Getting a QSL returned is getting more and more complicated. In many (read that, "too many") countries you are lucky if your card and remuneration even MAKES it to the addressee. And then there is the constant struggle of what type of remuneration to send and how much.

It used to be that a "green stamp" (a one dollar bill) was plenty to finance an

airmail return from any point in the world. Unfortunately that is not so today and it is becoming less so! And it used to be (or it seemed to be) that there was less pilfering of the mail occurring a decade or two ago. Mail, used to be a true "sacred cow", untouchable and revered in most "free" countries.

I'll start a short series next month on how to do YOUR ALL to acquire that QSL. First some disclaimers. I am not an International Postal authority. Nor am I a life-long expert at QSLing (more like a 6-year "expert"! ha) and I'll say right up front that you'll probably, or have probably, read some things that differ with what I'm going to write. That's fine ... many of the little tricks are personal preference and are not items to war over. But I will say this as well. With nearly 2000 DX QSLs in my shoe boxes and DXCC on 4 bands (4 contacts and 36 cards away from 5BDXCC) I've had some experience in the game. So in the next few months we'll talk about ...

- \* Deciding upon remuneration, e.g., green stamps, International Reply Coupons, or native stamps.
- \* Getting the card delivered, and
- \* Getting the card returned.

Next month's topic will deal with how to do YOUR ALL to get your request delivered. The title will be, "How to Design the *Stealth Envelope*", an envelope which is essentially invisible to the pilferer's "radar".

#### **Miscellany ...**

##### *New WWW Radio Propagation and Ionospheric services are now available*

...  
Chad Kurszewski, WE9V, reports that the <http://solar.uleth.ca/solar> web site has been supplemented with several new ionospheric services that should be of wide interest to radio communicators, both amateur and professional. Every hour, at approximately 15-20 minutes past the hour, the system regenerates five real-time globally contoured maps of various important and use quantities:



1) Global Maximum Usable Frequency (MUF) Maps -

<http://solar.uleth.ca/solar/www/realtime.html>

2) Global Maps of the F2-Layer Critical Frequency -

<http://solar.uleth.ca/solar/www/fof2.html>

3) Global Maps of the E-Layer Critical Frequency -

<http://solar.uleth.ca/solar/www/foe.html>

4) Global Maps showing the Height Maximum of the F2 Layer (or the altitude above the surface of the Earth where the ionospheric electron density is highest) ... information regarding the likelihood of non-great circle propagation can also be determined -

<http://solar.uleth.ca/solar/www/hmf2.html>

5) Global maps of Solar Zenith Angles, or the distance of the Sun away from the Zenith (the point in the sky that is exactly overhead) ... shows the elevation angle of the Sun above or below the horizon for any location on Earth.

<http://solar.uleth.ca/solar/www/zenith.html>

Each map includes the plotted solar terminator (sunrise/sunset line), the gray-line corridor where the Sun is up to 12 degrees below the horizon, the location where the Sun is directly overhead, and the locations of the auroral ovals based on the latest 24-hour planetary A-index (updated every 3 hours).

To our knowledge, these services form one of the most extensive set of near-real-time maps pertinent to radio propagation and radio navigation on the Internet.

#### *More ham radio oriented web sites ...*

• Guernsey amateur radio WWW pages are indexed at

[http://www.guernsey.net/~sgibbs/amateur\\_radio/](http://www.guernsey.net/~sgibbs/amateur_radio/)

Links include Guernsey ARS; RSGB in Guernsey; Guernsey callbook, email & packet addresses; fm, repeater & packet operation; and a special page for radio amateurs intending to visit the Bailiwick.

• Here is a brand new search engine provided by the folks at Digital Equipment Corp. -

<http://www.altavista.digital.com/>  
• Downloadable software -

<http://www.idirect.com/stroud/inx.html>

• STARLab VLF Research Group, Stanford University -

<http://www.star.stanford.edu/~vlf/Welcome.html>

• Ham Radio Online Magazine -

<http://www.accessone.com/~vbook/hronline.htm>

• DXCC Country List which includes ITU and CQ zones, hours from UTC, latitude & longitude and other ITU prefixes -

<http://cpcug.org/user/wfeidt/Dxcc/>

• CQ Magazine Contest Page -

<http://www.access.digex.net/~cqmag/cqtest.html>

#### *You gotta see this ...*

Jim Hood, WV5S, sends recommendations to view this extra-special web site. Tim Totten, KJ4VH, has installed a "slide show" of the Scarborough Reef DXpedition on The Huang Yan Dao (Scarborough Reef) Home Page. Tim says, "This is an abbreviated version of the show many of you have probably already seen at Visalia, Dayton, Seattle, WIMU, D.C., W9DXCC, Huntsville, Beijing, and etc. As I get the chance to go through the hours of audio tape, I will probably also add a few more sound clips and other features." Check it out at ...

<http://www.iglou.com/kj4vh/>

#### *View the BS7H QSL Card at ...*

Maury invites you to view the BS7H QSL card on the 425DX Web site:

[http://www-](http://www-dx.deis.unibo.it/htdx/index.html)

[dx.deis.unibo.it/htdx/index.html](http://www-dx.deis.unibo.it/htdx/index.html)

#### *DX Clubs on the "web" ...*

Rod Dinkins, AC6V, supplies the following WWW addresses for DX/Contest Club home pages.

Central Arizona DX Association -

<http://www.getnet.com/~davidh/cadxa.html>

Israel Amateur Radio Club -

<http://ayalon.eng.tau.ac.il/~oded/iarc.htm>

Texas DX Society -

<http://wb5fnd.tech.uh.edu/~tdxs/>

Bay Area DXers (Michigan) -

<http://grfn.org/~ki8w/ki8w.htm>

Black Sheep Contest and DX Group -

<http://www.blacksheep.org/>

Northern Ohio DX Association -

<http://www.en.com/users/k8yse/nodxa.html>

Potomac Valley Radio Club -

<http://www.access.digex.net/~k3sa/pvrc.html>

SouthEastern DX Club -

<http://www.peachmall.com/sedx/dxhome.html>

Western Washington DX Club -

<http://www.eskimo.com/~oolon/wwdxc/>

Yankee Clipper Contest Club -

<http://www.berkshire.net/~robbins/yccconf.html>

Singapore Amateur Radio Transmitting Society -

<http://merlion.singnet.com.sg/~harish/sarts.html>

The Yankee Clipper Contest Club -

<http://yccc.ummed.edu/>

#### **OKDXA Stuff ...**

*Welcome new member(s) ...*

John N. Mathis K0ZPO

14630 SE 25th

Choctaw, OK 73020

405.390.2604

John Thomason, WB5SYT

1517 Oak Drive

Edmond, OK 73034

405.340.1798

Jerry Chouinard, K5YAA

4969 Heather Dr.

Claremore, OK 74017

918.341.6259

Edmond Amateur Radio Society

Club callsign: KC5ORP

POB 48

Edmond, OK 73083

#### *Lee, you look a bit pensive!*

OKDXA member Lee Ward, W5UDA, is pictured in this month's QST (*Up Front*, p. 19) posing with Chinese guards in Beijing's Tianamen Square. Lee attended the Beijing International DX Convention as a part of the ARRL entourage. Lee is

smiling, but down deep he may be worrying about becoming the first American inductee in the PRC Armed Forces! ha Lee showed his slides of the trip at last month's OKDXA Banquet.

#### *Fire damage at AB5I ...*

Jim, WV5S, reports, "Loyd called this morning to tell me that a neighbor had let a fire get away yesterday. It did some damage at his place including catching his garage/shop on fire. He managed to save the shop but one wall was damaged. His tower is attached to his shop. The feedlines going to the tower were melted. So, the OKC Cluster is down for a while. His home was at risk but was not damaged." Also ... along that same line the N5OK Cluster has been down even after the fire repair due to remodeling at the AB5I QTH.

#### *Green Country Hamfest ...*

The OKDXA will hold its first general membership meeting at the upcoming Green Country (Tulsa) Hamfest. The hamfest dates are March 23 and 24 at the Maxwell Convention Center, 7th & Houston in downtown Tulsa. The door open at 0800 both mornings.

The OKDXA will have three tables in the flea market. We'll have our display, membership forms, OKDXA Casual Wear order forms, OKDXA artwork for your QSL cards, OKDXA caps, and a bunch of DXers hanging around! Be sure to make it your "headquarters" for the 'fest. Drop in and chat, renew acquaintances, meet other OKDXA members and generally just have a good visit. Bob See, N5PC, wants to get snapshots of as many OKDXA members as possible. He asks that you not be bashful, introduce yourself and "say cheese"!

The OKDXA will sponsor a business meeting and program at 1100 in a room to be announced at the hamfest. We will not have a formal group lunch.

I'm looking forward to seeing you at Oklahoma's first hamfest ... Green Country in Tulsa!

#### *Order your OKDXA casual wear at the 'fest!*

We'll have lots of order blanks at the Green Country hamfest. You can place your order at the 'fest or take an order blank home and order later. **The order deadline for all orders placed at the 'fest will be April 5.** We offer the Hanes Beefy-T tee shirts (heavyweight cotton), Anvil's Henley-style tee shirts (extra-heavyweight cotton) and the classy Outer Banks golf shirt (cotton). Show off the OKDXA logo on your cap or shirt!

#### *We need a UHF node!*

Dave Land, KD5FX has UHF nodes at Ponca City and Pawnee ... up and running ... but no where to go! We need a node site between Pawnee and OKC and/or between Pawnee and Tulsa to link DX PacketClusters and for other backbone uses. The nodes are currently using 1200 baud but could be upgraded to 9600 if we could ever get a path. If you are a packeteer with a site or know of someone who might be able to help, please contact Dave or WV5S. Thanks!

#### *We're getting some newsletter names!*

In last month's newsletter I asked for name suggestions for the OKDXA newsletter. So far I have received the following:

- 1) The Big Signal
- 2) The Kilowatt
- 3) The Okie DXer
- 4) The 5x9 Report

Remember, the winner gets an OKDXA tee-shirt courtesy of the OKDXA. Keep the ideas coming in! We'll vote on a name at our meeting at the Ham Holiday in OKC.

#### *Future OKDXA Banquets?*

With our first banquet now history, we'd like to know your opinions and feelings about another. Please make your opinions known to President WV5S. Jim's address is included at the end of this newsletter in under Reaching Your Officers and Directors.

#### *Current Email Directory ...*

Buford, Bob KD5QD

buford.bob@alarch.sbc.com  
 Byard, Mark N5OGP  
 n5ogp@pcok.com  
 Case, Ken K5KC  
 kcase@okway.okstate.edu  
 Day, Coy N5OK  
 cday@serverg.eiw38.af.mil  
 Guida, John NJ1V  
 nj1v@phoenix.net  
 Hood, Jim WV5S  
 wv5s@icon.net  
 Hunt, Ross K5RH  
 lhunt@tulsajc.tulsa.cc.ok.us  
 Ingram, Jay W5QVS  
 w5qvs@msn.com  
 Land, Dave KD5FX  
 daveland@pcok.com  
 Martin, Jeff K5WE  
 k5we@aol.com  
 Russell, Dick KJ5VV  
 kj5vv@aol.com  
 Sweetko, Steve AA4BG  
 103362.2033@compuserv.com

If you are a member of the OKDXA and you have an electronic mail address (and you wouldn't mind having it published in this NL) PLEASE email it to your Editor, N5OGP. Thanks!

#### *Kudos column ...*

Congratulations to OKDXA member Erik Martin, AA5WQ (son of OKDXA Secretary Jeff Martin, K5WE) on his 4th place, single op finish in the North American QSO Party SSB Contest. The scores are, of course, not yet official. Erik scored 195,775 points in 8 hours of operating at the N2IC station. Erik is attending college at the Colorado School of Mines in Golden. Congrats Erik!

Erik also finished 15th (unofficial) in the February SSB Sprint!

Congratulations to OKDXA member Rick Roderick, K5UR, on his promotion to ARRL Delta Division Director after Delta Division Director Joel Harrison, WB5IGF was elected as an ARRL Vice President.

#### *Advertise the OKDXA on your QSL card ...*

Be sure to request the OKDXA logo on your next order of QSL cards. If your printer does not have the logo on file,

please contact N5OGP and I'll furnish the camera-ready artwork. I can mail it to you or to your printer.

*Let us list your most needed ...*

One good idea submitted for the newsletter was a column serving as a clearinghouse for your country / mode / band needs. Please pick out your most needed DXCC countries in any combination of bands and modes. Ship them up to N5OGP and I'll publish them in our monthly newsletter.

*Play it again Sam ...*

There are a few things we'll be printing in most every newsletter. Things like addresses, Cluster frequencies, OKDXA Net details and etc. We want to keep these before your eyes and handy for reference.

*Reaching your officers & directors ...*

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Union City, OK 73090-9726  
cday@serverg.eiw38.af.mil

Nate Bargmann, KA0RNY  
Director NW  
1909 W. Elm  
Enid, OK 73703  
405.237.5955

Troy Warren, KE5K  
Director SW  
106 Traverse Circle  
Lawton, OK 73501  
405.529.2386

Lee Ward, W5UDA  
Director SE  
Rt. 1, Box 1230  
Kinta, OK 74552-9785  
918.469.2394

*DX Packet Cluster frequencies ...*

Fayetteville - WA5IED on 145.95  
Ft. Smith - N0MSX on 144.91  
Lawton - KE5K on 145.09  
OKC area - N5OK on 144.91  
Ponca City - KD5FX on 145.01 & .09  
Tulsa area - K5WE on 145.77

*OKDXA Net ...*

The OKDXA net continues to meet weekly on Saturday mornings at 11:00 CST. The frequency is 3860 Khz (+ QRM). N5OGP has been serving as the official NCS for a couple of years. Robert Gillespie, WB5KJE, serves as Assistant NCS. Join us with your DX info, your DX questions or just a hello !

**CHECK-INS**

Jan 27 - 11  
Feb 3 - 13  
Feb 10 - 13  
Feb 17 - 9  
Feb 24 - 12

Your NCS will be supplying net statistics to the ARRL OK Section Traffic Manager.

**CU next month ...**

73 de N5OGP sk

## Astromomy in the Midwest

by Stephen Douglas, N6TLD

It's Monday in Rock Springs Wyoming, on the way to the Dayton Hamvention. The roads are long, straight, and smooth as glass - Perfect for cruising at 150 MPH in a Mercedes 500SL. Too bad I don't have one.

I'm settling into "road mode" for the long day ahead, accompanied by Hootie and the Blowfish on tape, when I spy an observatory dome - no doubt with a high powered telescope inside. "Interesting," I mumble to myself. "Who would put an observatory in the middle of nowhere?" I clicked off a few photos, than rolled east, letting the matter slip from my mind.

But in Nebraska I found another observatory. And in Iowa there were more. They seemed to get thicker as I approached the Mississippi River.

Yet the hams on two meters didn't know anything about them. On a detour to Wisconsin, to see my niece, I found more observatories. And as I left Platteville and crossed into Illinois, I saw two observatories on one farm.

I asked at the truckstops and dinners across five states, but nobody knew what I was talking about. One guy suggested I might be seeing the silos farmers use for their cows. But he had to be way off, what would a cow do with a missile?

I suspect an incredible secret lurks in the Midwest. These farmers must be a superior life form from another planet. They probably use the observatories to contact their home world, as they await that day when they can safely reveal themselves to us earthlings.

But I'm not worried; they seem friendly.

*From june'95 River City ARCS (Sacramento, CA.) "River City ARCS Newsletter"; Lisa Bickford, KE6GZH ed.*

## AMATEUR RADIO NEWSLINE

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### SUPREME COURT UPHOLDS INDECENCY LAW

The United States Supreme court has said that restricting the hours when legally indecent speech can be broadcast is constitutionally valid. This finding could pave the way for the FCC and other government agencies to prosecute hams who use this kind of language on the air.

In rebuffing free-speech advocates, the Supreme Court on January 8th has told federal regulators that it is constitutionally valid for them to confine television and radio programs containing legally indecent language to late-night hours when children are less likely to tune in. The justices also let stand a federal appeals court ruling that upheld government limits on indecent broadcasts to the hours between 10 PM and 6 AM.

The news media and civil liberties groups had challenged the rule as a violation of the right to free-speech. The appeals court had ruled last summer that the rule was justified by the government's overriding and compelling interest in protecting the nations children.

Since 1987, the FCC has deemed as indecent all explicit references to such things having a prurient meaning. Unlike obscenity, indecency is protected by the First Amendment's free-speech guarantee.

The high court's action, taken without comment, quite literally opens the door to prosecuting almost anyone who transmits legally indecent language during hours when young children may be listening in. This could even include transmissions made by ham radio operators if the FCC so decides to invoke the rule.

The FCC has long held that a violation in any one service is no different that a violation in any other. For the FCC, this

Supreme Court decision could be what it has been waiting for so that they can at least remove the most egregious offenders from the air. The only question is, will they act?

### ARRL BOARD MEETS

The ARRL board of directors met in Savannah, Georgia on January 19th and 20th and took some rather interesting actions that will affect most United States hams. Perhaps the most far reaching was the decision to appointment of a committee to draft ARRL policy positions on questions to be addressed at the 1999 World Radiocommunications Conference. Issues to be studied include, possible simplification of the licensing structure, agreement on licensing standards internationally, and consideration of article S-25 of the international radio regulations. These are the technical and operational rules governing the amateur and amateur-satellite services, including but not limited to the high frequency code requirement. Membership input will be sought on all issues.

Not much movement on the creation of a single point of contact for the repeater coordination community. The ad hoc repeater coordination committee says that it will continue dialogue with the repeater coordinators' drafting committee and other interested parties, and report to the board at its next meeting any recommendations for regulatory changes and suggestions for improvement of the coordination process.

A number of awards were announced. First, amateur radio emergency service members from Oklahoma were awarded the ARRL Certificate of Merit. This, for their courageous efforts in providing critical emergency communication services to agencies responding to the Oklahoma City bombing. David, VP2EHF and Dorothea, VP2EE Mann, won the International Humanitarian Award for 1995 for hurricane relief efforts and the board awarded Frank Bauer, KA3HDO, the ARRL National Certificate of Merit for his outstanding volunteer service as a member of the SAREX Working Group.

A new procedure for the reporting of advisory committee recommendations was adopted. A committee will be assigned to review the DXCC program and make necessary recommendations in order to encourage broader participation, make the program more equitable, create better understood criteria for DXCC "countries", improve the process of reviewing requests for additions and deletions to the ARRL DXCC list and increase efficiency in the administration of the program.

And speaking about new countries. DX'ers listen up. Scarborough Reef was approved as a new DXCC country.

Finally, the board will experiment with a new system of standing committee and board meetings during 1996. Committee meetings will be held in July and October, in conjunction with an expanded series of meetings of the full board. The consolidated meetings are expected to save the ARRL and its membership considerable amounts of time and money.

Look for full details of the board meeting in the March issue of QST Magazine.

### SAT SALE

The Federal Communications Commission has finally adopted rules governing the auction of the last remaining satellite slot for beaming television programs nationwide. The rules bar companies from bidding that already hold one of the three lucrative sets of orbital slots.

### ARIG MEETING

The first meeting in a year of the Amateur Radio Industry Group is tentatively slated for Friday evening, February 2nd in conjunction with the 1995 Miami Tropical Hamboree. For further information please contact the groups acting chairman John Dorr, K1AR, at CQ Magazine, 76 North Broadway, Hicksville, New York.

Also scheduled to meet at the Tropical Hamboree will be the first meeting of the newly formed Young Ham of the Year steering committee. It will be held at the convention site on Saturday February 3rd.

## ORD TRAVEL STATION

WB9YBM reports from Chicago that a radio station that recently came on the air locally is on 870 KHz, transmitting travelers' information from O'Hare Airport. Because of nearby stations, it's hard to hear it outside airport grounds, But with night time propagation AM band DXers might like to listen for it.

## RECENT PIRATE CALL SIGNS

KG0EI reports via packet radio on several pirated call signs he has spotted in recent days. KG0EI says that over 22% of the calls that he worked in the recent SSB Sweepstakes either have no address which matches the State given, are not available in callbook or listed in most recent Buckmaster CD Rom. Add the Pirates to this list and it makes life interesting.

## "BEST FIST" NOMINATIONS DUE

AMSAT North America says that it has already received a number of "Best Fist" nominations from the 24th annual Straight Key Night on OSCAR, held 1 January 1996. If you participated and haven't yet nominated someone you worked for "Best Fist" honors, please take a moment to do so now.

Nominations should be addressed via Internet, to: [w2rs@amsat.org](mailto:w2rs@amsat.org) or via U.S. mail to W2RS at his callbook address.

## SAT GATEWAY BACK

The WD4ASW Satellite Gateway Node is back in operation after installation of a new hard drive and transfer of program files from the defective drive. Due to problems in transfer, no attempt was made to save messages prior to the shutdown.

The Satellite Gateway Node was featured in the premier issue of CQ/VHF Magazine. Unfortunately, Mr. Murphy must have read the article, because the system failed the week that the magazine hit the newsstands! The WD4ASW dial-in is area code (904) 396-7114 with standard 8-N-1 defaults.

## WB0ZJP S.K.

Amateur Television Quarterly Magazine editor Henry Ruh, KB9FO reports the passing Dave Williams, WB0ZJP from cancer on December 12th. According to Ruh, Williams was active on VHF-UHF and microwave bands and at one time was the holder of the over land ATV DX record.

## WAKE ISLAND CORRECTION

Bruce Paige, KK5DO says that our recent report on Wake Island satellite activity was incorrect. A few weeks ago we reported that Wake had never been activated on satellite. According to Bruce, back on September 8, 1993 after getting my satellite station up and running he worked NH6UY on the Amsat Oscar 13 satellite. NH6UY was on a DXpedition to Wake island and Bruce says that he has the QSL card in his hands right now.

By the way, KK5DO is a part of the team that produces the program Easy Sats that is heard on This Week in Amateur Radio over the Tech Talk Radio Network.

## NEW UK PREFIX

England's Radiocommunications Agency has announced that as of April 1996, new amateur call signs will be issued using an the "M" prefix instead of the "G" currently used starting with M0 for class A and M1 for class B licensees.

The change will take place even if some of the "G" prefix calls remain unused. The same regional indicators as at present will be used, for example M for England, MM for Scotland, MW for Wales and so on.

Holders of existing "G" prefix call signs and Novice call signs will not be affected by this change.

## SWL ANNIVERSARY

And with 1996 is the 50th anniversary of the International Short Wave League, GB50SWL will be on the air throughout the year as a commemorative operation. Anyone hearing or working the station who wishes to receive a special QSL card should either QSL via the bureau or direct to David Beale, G0DBX, at his callbook address.

## GRID SQUARE PIRATES

In DX, if you are looking for a VHF or UHF DX contact keep an ear open for The Grid Square Pirates. This is a VHF DX group created about 3 years ago with the sole intention of stirring up much needed activity from rare grids during the major VHF contests.

The Original Grid Square Pirate members were W3ZZ, WD8ISK, WA6GVC, ND3F and KP4XS. The group now included KZ3H, WR3E, ND3A, as well as numerous other rovers, single operator mountain-toppers and those just interested in the concept. For more information contact KP4XS at his callbook address.

## LOW POWER NET

Also, VHF weak signal enthusiasts are advised of a Mid-Western U.S. net on 144.250 on the 1st and third Sundays at 2:30 UTC. Net control Chad Phillips, KG0MW in grid square EN-13. Chad will take local check-ins first than look to Minneapolis and then to Omaha.

If you are DX to the Mid-Western United States or are a low power station, E-mail Chad ahead of time and he will listen for you. His electronic mailbox is: [chad.phillips@yebb.com](mailto:chad.phillips@yebb.com)

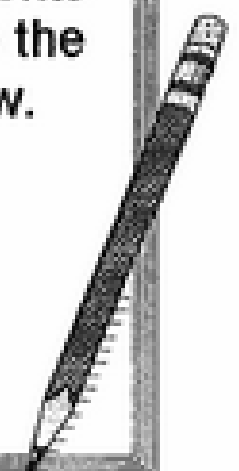
## ANTARCTICA PHONE PATCHES

Finally, if you need a phone patch to Antarctica listen up. That's right, we said Antarctica. The land of the seals and the penguins. And that where KC4AAC at Palmer Station is available for such patches every Thursday night after 00:00 hours UTC. Mark is also more than willing to hand out QSO's between phone patches and after he has completed them all.

Know of any up coming events or news items of interest to the ham community let us know.

[N1lpn@aol.com](mailto:N1lpn@aol.com)

[KB1ZQ@K2GKK-4](mailto:KB1ZQ@K2GKK-4)



## Up - Coming Hamfest / Swapmeets

**March 15 & 16, 1996 - Little Rock Hamfest, Dealers, flea markets, Forums; Packet, Amateur Television, Satellite, National Weather Service, Contests; QLF, Homebrew, and other items of interest. For more information contact:**  
Jim Blackmon, KB5IFV  
1008 Pine Street Arkadelphia, AR 71923-4919 Phone: 501-246-7833

**March 23 & 24, 1996 - Green Country Hamfest sponsored by Green Country Hamfest Inc. VE-Testing, manufacturers, flea market, seminars, dealers, YL forums and much more. For more information contact:**  
Green Country Hamfest P. O. Box 47132, Tulsa, OK 74147-0132

**April 6, 1996 - Hamfest '96 sponsored by Wichita Amateur Radio Society. Dealers, fleamarket, forums, programs for Hams and Non-Hams, VE testing. For more information contact WARS Hamfest, P. O. Box 4363 Wichita Falls, TX 76308-0363 or call (817) 586-1374 (6 - 9 p.m.)**

**April 13 & 14, 1996 - Mooreland Eyeball QSO sponsored by Great Plains Amateur Radio Club. Dealers, Computer Dealer, VE-Testing, National Weather Service Display, Night time balloon launch, Packet Radio Demo. For More information contact:**  
Bill Wyatt, KD5JR (405) 256-3248  
Bart Lawson, NZ5T (405) 994-5940

**May 12, 1996 - Flint Hill ARC Hamfest sponsored by Flint Hill ARC. Free coffee, parking, Great door prizes, Balloon launch Talk in on 147.15 or 444.15. Location Augusta, KS 8 miles east of Wichita on HWY 54. For more information contact:**  
Leanna, KF0ZL - (316) 775-0300  
Rhonda, AA0OQ - (316) 733-4458  
k5erj@aol.com

**July 26 & 27, 1996 - Ham Holiday 1996 sponsored by Central Oklahoma Radio Amateurs, Inc. Door prizes, dealers, flea markets and plenty of parking. Planning**

still underway for this event. For more information contact:

Hal, KB1ZQ or Linda, NILPN - 672-7735  
CORA P. O. Box 95942 Oklahoma City, OK 73143-5942  
n1pln@aol.com

## ANNOUNCEMENTS

VE exams on 3rd Monday of each month sponsored by C.O.R.A. 1800 @ Salvation Army HQ at NW 50th and N. Penn, Oklahoma City.

VE exams on 3rd Saturday of each month are held at 0900 in Math Science building at Rose State College in Midwest City.

VE exams on 4th Tuesday of each month are held at 1800 in the Shawnee Public Library, 101 N. Philadelphia.

VE exams on 2nd Saturday of each month sponsored by SCARS are held at 1000 at the American Red Cross in on Westheimer Airport in Norman.

VE exams on 4th Saturday of each month are held at 1830 at the Altus Vo-Tech in Altus, OK. Contact Rick Alderete, AA5UU for details.

VE exams on the 2<sup>nd</sup> Sunday of odd numbered months sponsored by the Stillwater ARC at 1500 in the OSU Engineering North Building, Room 316. Contact Ken, K5KC (405) 377-7586 for details.

VE exams on the 1<sup>st</sup> Saturday of each month at 1430 in the Vinita City Hall sponsored by Northeast Oklahoma Radio Assn.

Hams on the Southeast side of Oklahoma City meet at various locations for lunch on Tuesdays from 11:00 - 12:00 a.m., to find out where they meet listen to 146.22/82.

Hams from all over Oklahoma City meet at various locations for lunch on Thursdays at 11:00 a.m., to find the lunch location of the day listen to 146.22/82.

Hams from around the central Oklahoma area meet Fridays at 7:00 for supper, coffee, friendship and overall story telling at the Skyline Restaurant on 15th and Eastern in Oklahoma City.

### ATTENTION WWII VETERANS:

Members of the 304<sup>th</sup> Signal Operations Battalion Pacific Theater will be holding a reunion 20-22 September 1996.

For more information contact:

Bill Schumann, KA5TUF  
3517 NW 64<sup>th</sup> Street

Oklahoma City, OK 73116  
PH: (405) 842-5469

**Wanted - People to assist with Ham Holiday '96** People interested in working hard and getting little or no recognition. To apply come to the CORA meeting

Hope to See you there!!!!

Oklahoma City Autopatch Assn. Will sponsor CPR classes on April 13<sup>th</sup>. Location will be the Salvation Army Headquarters at NW 50<sup>th</sup> and Penn. Carole, KC5EXR will teach the classes and needs to know who is interested so that she can gather the needed materials. **Deadline for contacting Carole is March 19<sup>th</sup>.** Cost of this class will be limited to costs of books and cleaning materials. For more information contact Carole at 340-0458.

## March CORA Meeting

Saturday, March 30<sup>th</sup>@1:00 p.m.

Skyline Restaurant

15<sup>th</sup> and I-35

Come on out for lunch and CORA meeting. Ham Holiday will be discussed along with other topics.

# Word Search - Jan96

by Edith, KASYPX

Word List: JAN96

A GOOD TIME TO STUDY CODE	+ + P R E S I D E N T S D A Y + + + + + H
AMATEUR RADIO	U + + + + + + + + + + G + + + + + + + E
COLD COLD WEATHER	+ N A M A T E U R R A D I O + + + + + + + A
DAYS GETTING LONGER	G N I R P S O T D R A W R O F G N I K O O L
DUMMY ANTENNA	+ + + V + + + + + + + + D + + + + O + S T
ELECTRICAL WIRING	+ R E T E M T T A W + + + T + + + N + + I H
FEBRUARY	+ D + N + R + Y A D S E N I T N E L A V N A
FREQUENCY DEVIATION	+ + U + O + S L + + + + + M + E + + + N G N
HAPPY NEW YEAR	+ + + M + I A + + + + + E X + D + O + L D
HEALTH AND WELFARE	+ + + + M S T + L + + + + T + A + I R + E W
TRAFFIC	+ S + R M Y + A + T + + R O Y + T + A L S E
ICE ON THE ROADS	+ + T H E + A + I + I A + S + A + + E E I L
JANUARY	+ + O S + H + N + V D M G T L + + C Y A D F
LEAP YEARS DAY	N + + + A + T + T A E E E U + + T + W P E A
LOOKING FORWARD TO SPRING	O + + + + C + A Y E T D D D + R + + E Y B R
OHMS LAW	I + + + + + R T E T N O Y Y I + F + N E A E
ONE EXTRA DAY THIS YEAR	T + + + + + H O I W M N R C + + E + Y A N T
PHASE MODULATION	A + + + + I + N F E D A A O N + B + P R D R
PRESIDENTS DAY	G + + + S + G + S Y U L + D + E R + P S + A
PROPAGATION	A + + Y + L + A + N W + O E + + U + A D + F
SINGLE SIDE BAND	P + E + O + H + A I + O + C + + A Q H A + F
SNOWY FORCASTS	O A + N + P + J R + + + N + D + R + E Y + I
UNIVERSAL TIME	R + G + + + + I + + + + + S + L Y + + R + C
VALENTINES DAY	P E I C E O N T H E R O A D S + O + + + F +
WATTMETER	R + + + + G + + + + + + + + + + C + + + +

PLEASE PRINT

I \_\_\_\_\_ Call \_\_\_\_\_  
NAME

Address \_\_\_\_\_ Apt \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Telephone \_\_\_\_\_ Do hereby transmit my dues of \_\_\_\_\_

\$ \_\_\_\_\_ X \_\_\_\_\_ Total Paid  
YEARLY AMOUNT NUMBER OF YEARS

In the (Club Name) \_\_\_\_\_

Month and Year ending: \_\_\_\_\_ / \_\_\_\_\_ Date Paid: \_\_\_\_\_ / \_\_\_\_\_  
YEAR/MONTH YEAR/MONTH

\$4.80 OF YEARLY AMOUNT IS FOR A SUBSCRIPTION TO CORA'S COLLECTOR AND EMITTER

\$7.00 for Individual Subscription to Collector and Emitter (Funds sent directly to C&E)

Member's Signature \_\_\_\_\_

NEW RENEW DROP CHANGE-OLD ZIP/CALL \_\_\_\_\_

Please fill out all the information on the slip. The Dates and Amount paid is required for Postal Regulations.

Telephone numbers are only used in the event of a question on your membership or subscription to Collector and Emitter.

Signatures are not required but requested to verify that you are aware of you subscribing to the C&E.

Thank you for your assistance



## February 25 to March 30, 1996 Schedule of Events:

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
25	26	27 7:30 p. m. CORA	28	29	1	2 10:00 a. m. Ada ARC
3	4	5	6	7 7:00p.m. Aeronautical Center 7:30 p.m. CARA	8	9 9:30 a.m. SCARS 10:00 a.m. SCARS VE Exams
10 2:30 p.m. Wheatstraw	11	12	13	14	15	16 9:00 a.m. VE Exams (RSC) 11:00 a.m. VHF Club
17 2:00 p. m. EARS	18 6:00 p.m. CORA VE Exams	19 7:30 p.m. OCAPA 7:00 p.m. Shawnee VE Exams	20	21	22	23 OKDXA 11:00 a.m. Green Country
24	25	26	27	28	29 <b>C&amp;E Deadline</b> 	30 1:00 p. m. CORA Luncheon Skyline Restaurant



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