

# Collector & Emitter

A CORA Publication

**February 1996**  
Volume 22, Number 02  
Issue 252  
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Postmaster See Page 2  
For Postal Information

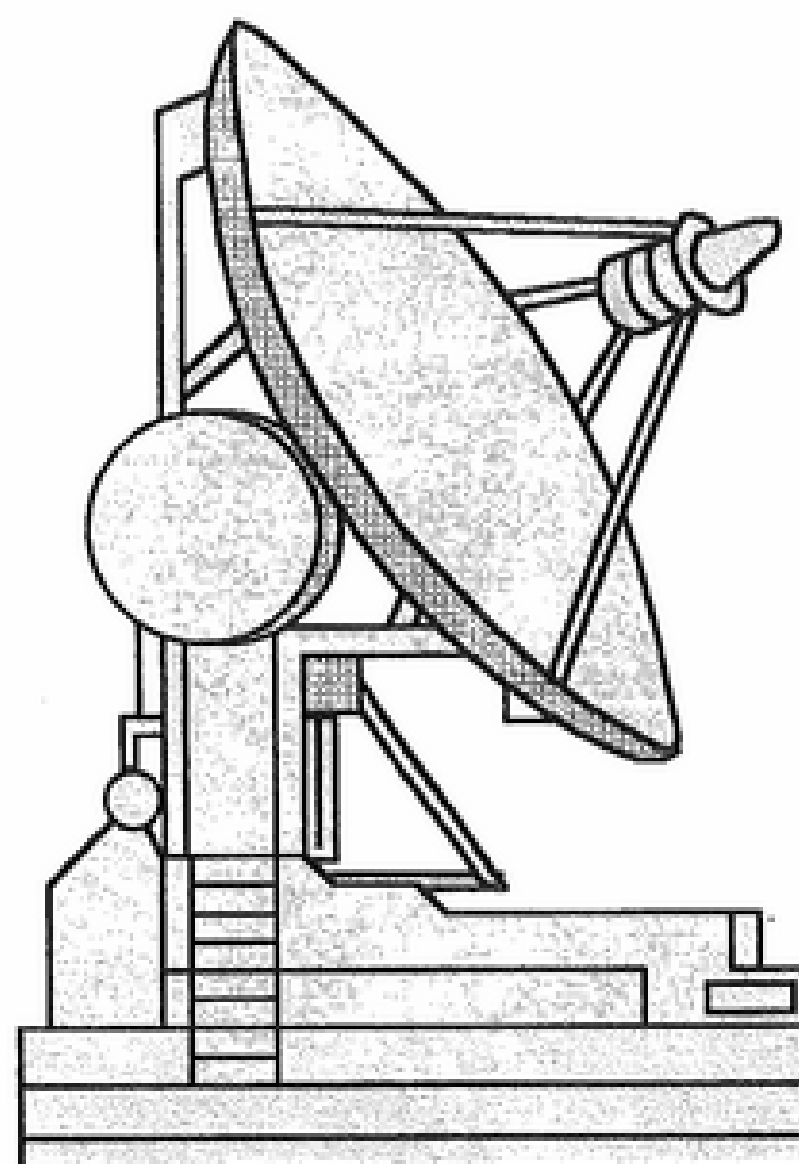
Second Class Mail

**Proud As Punch**

**The Bertha Watson  
Memorial Scholarship**

**P3D Frequencies Selected**

**Space Shuttle / SAREX Schedule**



**Severe Weather and Amateur Radio**

**Necessity mothers  
spools of invention**

**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**

Dear Subscriber:

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		

The "2" means VHF Club, "96/12" means the year/month C&E subscription expires. The "2" is for postal zones.

Dear Secretary / Treasurer:

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

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<b>1. Aeronautical Center ARC</b> Meets: 1930L, 1st Thursday, FAA, S. MacArthur, OKC Pres.: Bob Kremer, WA9FCT 381-3182 VP: Chuck Bryant, KB5ZVZ 737-0423 Sec/Tr.: Brad Nelson, KJ0W 793-9470 Editor:	<b>11. Edmond Amateur Radio Society</b> Meets: Odd Months, 1400L, 3rd Sunday, Edmond EOC, Even Months, Dinner, 3rd Friday Pres.: Richard Winnard, KJ5QU 840-4237 VP: Edith Vaughn, KA5YPX 348-2961 Sec: Jim Rynearson, KC5MJS 348-2643 Treas.: Clara Granger, KG5UG 341-2968 Editor: John Thomason, WB5SYT 340-1796
<b>2. Oklahoma Central VHF ARC</b> Meets: 1100, 3d Saturday, Ashley's Country Kitchen 1-40 & SE 15th St., Del City Pres.: Jackolyn Olsen, KA5ENU 842-2305 VP: Ken Eason, KF5JS 789-2200 Sec: Joe Buswell, K5JB 732-0676 Treas.: Ellard Foster, W5KE 789-6702 Editor: Joe Buswell, K5JB 732-0676	<b>14. Cimmaron Amateur Radio Assn.</b> Meets: 1930L, 1st Thursday, WX5Y Playhouse 827 S. 13th, Fairview Pres.: John Medley, N5WVU VP: Kenneth Monahan, KB5SOM Sec: Dennis Painton, WK5V 764-3599 Treas.: Nadine Painton, N5FMH 764-3599 Editor: Kenneth Monahan, KB5SOM
<b>4. Oklahoma City Autopatch Assn.</b> Meets: 1930L, 3rd Tuesday, Salvation Army Bldg NW 50th and Penn, OKC (Back Door) Pres.: John Brassfield, N5SAM 685-8070 VP: Loyd Hargrove, AB5I 391-5723 Sec: Jim Richardson, N5OHL 524-0456 Treas.: Bob Kremer, WA9FCT 381-3182	<b>15. South Canadian ARS</b> Meets: 0930L, 2nd Saturday, Red Cross Bldg North OU Campus, Norman Pres.: Michael McEwen, KC5GJL 329-2615 VP: Mike Divilio Jr., KC5GRZ 360-3236 Sec: Randy Ridenour, WB5RWN 329-0967 Treas.: Sara Byer, KC5ABA 321-1673
<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	<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, KC5EZC 332-1963 Treas.: O. J. Collins, KC5DYX 332-7878
<b>10. Oklahoma DX Association</b> Meets: Hamfests and as announced in C&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	<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

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# Central Oklahoma Radio Amateurs, Inc.

## Minutes of the January 23, 1996 CORA meeting.

The meeting was called to order at 7:32 p. m. by the president of CORA, Hal Miller, KB1ZQ. Five clubs were represented with twenty two people in attendance.

The November minutes were read and approved. The treasurer's consolidated report for both November and December was distributed, read, and approved.

**C & E Report** - Hal, as editor of the C&E, went over it with the board, as the November, December, and January issues have been printed since the board last met on November 18. More articles are desperately needed, since Hal wants the C&E to reflect the interests of its associate members. Also, please remember to send Hal any information on upcoming events such as VE tests, swap meets, or hamfests. Also, a business card ad in the C&E is \$5.00; if you have a favorite restaurant or store tell them about the C&E. They can call Hal or Linda at 405-672-7735.

**New Constitution** - After discussion, the new constitution as printed in the January C&E was voted on and approved. There were two dissenting votes. Also, a letter will be sent to all member clubs asking them to appoint in writing their board directors and board alternates. This will clear up any confusion about who is representing them. It will also allow direct mailings to CORA directors, which was not possible before.

**Ham Holiday 1996** - The first letters to dealers were sent out, and we already have positive responses. Radio Shack, Stewart and Associates (computers) are coming. MFJ responded with some catalogs and minor door prizes (2 MFJ Coffee Cups).

**VE Testing** - This year Jim Copeland, NW0K, has agreed to head up the ARRL VE testing at Ham Holiday 96. Those who are W5YI accredited can get ARRL Accreditation fairly quickly and are encouraged to do so.

**Programs** - At this date the technical programs will include AMSAT; Antennas; and Packet Radio. Non - Technical Programs as of this date are Bingo and Craft Demos.

**Security** - Thomas Webb, WA9AFM, suggested using the Explorer Post that the MWC police department sponsors for security. He will have more for us at the next meeting and report on whether we can use their services.

**Tickets** - Inflation hits everywhere, and the new ticket prices for Ham Holiday 1996 will be \$7.00 pre-registration, \$9.00 at the door. Tables will be \$10.00 Pre-registered; tables with access to electrical outlets will be \$15.00. Tables at the door, provided we have any left, will be \$15.00.

**Facilities** - Chuck, K5NK, is in charge of facilities. We are not able to get the Made in Oklahoma building this year. Chuck also checked the Myriad, but the fees the Myriad charges put it out of our budget. We will be returning to the Hobby, Arts and Crafts building for 1996.

**Talk in** - The talk in Frequency will be 146.820 negative offset, which is the OCAPA repeater.

**Scholarships** - Due to a foul up in communications, the CORA scholarship was not awarded last year, and the people who handled the scholarship selection in past years cannot do it this year. Don, KC5BRO, and Carole, KC5EXR have agreed to do the selection for CORA this year.

**Prizes** - CORA will have the Grand Prize, the Pre-Registration Prize, and the Scholarship to give away this year. We would like to have between 75 to 90 percent of the prizes already purchased or arrangements made for prior to Ham Holiday 96.

There being no further business, Brad, KJ0W, moved to adjourn the meeting. John, N5SAM seconded the motion, and the motion carried.

Remember, the next CORA meeting will be on February 27<sup>th</sup>, 1996, at 7:30 PM at the Salvation Army's divisional headquarters at NW 50<sup>th</sup> and Pennsylvania Ave. Until next meeting,

73!

Respectfully submitted,  
Forrest Rush, N5VWF  
CORA secretary.

## From The President,

Well our first meeting of 1996 has come and gone, I feel it was a successful meeting. There were lots of things discussed and many ideas for Ham Holiday came out.

We need the support of all member clubs to make this years hamfest come off smoothly. The work has started but there is still much to do. New ideas and people are always welcome.

The plan is to have a definite list of prizes and programs to draw the people into the convention. Also, dealers are welcome, so if you know of a dealer that may like to attend let us know or have them contact us to be added to the mailing list.

CORA is also progressing toward the future with the approval of the new constitution. This now allows us to apply for the Federal Tax Number allowing us to earn interest and other incomes to support our activities.

We are still looking for other amateur radio clubs to join us in our endeavors. We offer the newsletter you are now reading and several other minor benefits to the clubs.

Well that is all for this month and hope to see you at the next CORA meeting. In March we will try another luncheon meeting so those of you from outlying areas can attend easier.

73, Hal, KB1ZQ

## CHIT - CHAT

### Ham Holiday 96

Yes, Ham Holiday is just around the corner and will be here before you know it. Please mark your calendars now reserving the last weekend in July for HH96. We still need persons willing to help with the many jobs concerning this yearly event. If you would like to help, please call me at 672-7735 or attend the next CORA meeting.

### A call from Where?...

Every year at Christmas time I mail out cards to all of those that sent cards to us the year before. I am always updating my mailing list each year. There are some that I have dropped from that list because they claim the custom of exchanging cards has become too expensive. They request I stop sending cards because it makes them feel guilty. Many of those on my list are friends of Hal's that he made through the Air Force, and I do not know on a personal level. This year I was lucky and none of my cards were returned with addressee unknown stamped on it.

On a Saturday afternoon, a few weeks after the holidays, the phone rang and it was for Hal. As he talked I kept getting strange looks from him and he said, 'She did? I wasn't aware she mailed one to you?' ... I knew the SHE was me and I had done something that maybe I shouldn't have but I had no idea what. I left the room and found something else to do.

He continued talking and the call was not long. Hal found me and smiling said, "You wouldn't believe who that was on the phone and where he was calling from? It was from Bob and they are now in Turkey. Where did you send their card?" I told him to their home in Moore, and asked, "Why?" He shook his head and said, 'Your card was forwarded to Turkey and they we're just calling to thank us and give us their new address.'

I wasn't in hot water after all. My habit of mailing cards had helped Hal renew an old friendship. Just this week I received a

letter from Bob's wife and plan to write her as soon as we get the C&E to the printer. Some may feel sending cards is too expensive and a waste of time but we don't.

### Something to think about...

Recently I read something I felt that you might enjoy reading as well. It was in my home church newsletter and it brought a smile to my face. I hope it will bring one to yours as well. There is a lesson to learn from this story and I will share it with you next month.

Before I tell you the story, I would first like to set the scene for you. Our church services are open to children and they are included in the worship service. Before the sermon begins, they can attend children's church in the fellowship hall if they so desire. I remember as a child loving to be able to sit on the steps before the communion table and having Brother Veale sit with us and tell us a Bible story before we left for children's church. He had a talent of making the stories come alive and we could understand the lessons he was teaching. He made each of us feel special and loved.

This special time has continued throughout the years and now another has taken the task. He is young and as my dad says holds great promise and has a good heart. And so begins the story...

...During Sunday Morning Worship, the children were gathered for the Children's Sermon. The Pastor spoke about the ingredients required to make up a church, using a chocolate chip cookie as an example.

He explained to the children that, as with a cookie requiring ingredients such as sugar and eggs, the church needed various ingredients to make up the congregation.

Holding up the cookie he asked, "If I took the chocolate chips out of this cookie, what would I have?"

A shy six year old raised his hand. "Six less grams of fat!" he replied proudly.

Now think about the story again and see if you can find the lesson in it? I welcome your comments and will share the answer with you next month. Hint: could we apply this to amateur radio operators? Until next month, enjoy.

Linda, N1LPN

## Are you sure it's free?

Submitted by N1LPN

A VA administrator who's job is to help answer veterans questions shared with me a call he received earlier today.

He answered his phone, identified himself and asked how could he help the caller.

"Is information free?", asked the caller.

The VA administrator answers, "Yes, it's free. How may I help you?"

"No, you don't understand. Are you sure information is free?", asked the caller.

Again the reply was, "Yes it's free. Now, how may I help you?"

"No, no! you're not answering my question. Do you have to pay for information?", asked the caller.

Beginning to become a little frustrated, the VA administrator states, "No, information is free. Now, how can I help you?"

"Okay! If information is free, how come I got charged 50 cents for asking for it? It's right here on my phone bill!", stated the caller.



WORLD RADIO  
BOY, IT REALLY BUGS ME WHEN SOMEONE CALLS ME  
"JUST AN APPLIANCE OPERATOR!"





**VHF Club**  
**NEWS**  
**W5LOW**  
*Elmer Goekler Memorial*  
*Station*

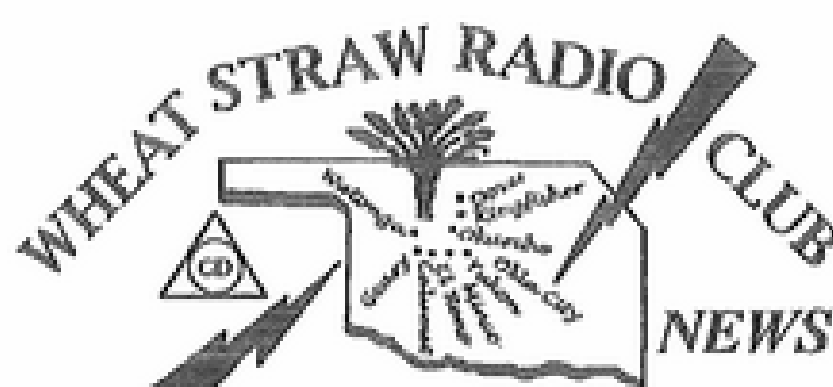
### Minutes of January Meeting

Meeting was called to order by President Jackolyn, KA5ENU, at 12:17 p.m. with 23 members and guests present. Treasurer Ellard, W5KE, gave his report and explained that he had moved the club's checking account to a different bank, and why. He reported that there are 51 paid members. His report, and the minutes, as published in the C&E, were accepted by motions. Jackolyn distributed copies of the VHF club roster.

Jim, N5BEQ, detailed the proposed changes to the CORA constitution/bylaws (published in the January C&E). Much discussion followed. Though the majority of the members were neutral regarding the changes, some believed that there could be improvements. The point was made that under CORA's present constitution a 30 day interval after publication is required before voting on constitutional changes. Motion passed that the CORA representatives be instructed to decline the constitutional adoption at the January CORA meeting, request voting deferral until the February meeting, and be prepared to offer constructive suggestions. Jackolyn appointed a committee consisting of Jerry, KD5IS; Jim, N5BEQ; and Jim, KK5BX, to prepare the suggested changes that they believed would improve the draft revision.

Elections were held, perfunctory as they were, in accordance with our Constitution and By-Laws, which are 1.75 pages long. Jim, KK5BX, representing the nominating committee, advised that all the current officers had agreed to serve if reelected. Motion passed that all the current officers be reelected by acclamation. They are: President, Jackolyn Olsen, KA5ENU; Vice president, Ken Eason, KF5JS; Treasurer, Ellard Foster, W5KE; and Secretary, Joe Buswell, K5JB. (Clap! Clap! Clap!)

With that taken care of, meeting adjourned at 1:10 p.m. Joe, K5JB, Sec'y



### Wheatstraw Meeting

The January 1996 meeting was called to order by our new president, Johnny, K5GBN. We had 25 present. After the minutes of the previous meeting were read, with no additions or corrections, self introductions were made.

Neal, N5KCO, was asked if he was ready to name the activities chairman for 1996. Neal has the appointment narrowed down but asked that the appointment be tabled until next meeting.

Tom, N5IKN, made a motion that the club send a set contribution to the OMRP in memory of Earnest, N5KQK, who became silent key. Tom's motion passed unanimously. Wilma Martin thanked the Wheatstraw club for making her a life associate member.

Ralph, WA5PFK, told the club he felt it was wrong to close the meeting before the entertainment was over. Too many went to the coffee pot and refreshments. The talking kept those who were interested from hearing. He said it shows disrespect to the person or persons who were putting on the program. Ralph then made that into a motion, that the meeting be kept in order until after the program. The motion, after some discussion, was amended to a limited time of the program, around thirty minutes. The motion was passed on a trial basis.

The next meeting will be at the community center in Canton OK. The Canton members will be net control each Wednesday night at 9:00 p.m. The community center location: From the traffic light in the center of town, go west to Garfield street, turn north about three blocks. Garfield street is just on the east side of the Minnie Stop.

Joe, WA5FLT, showed a film between 20 and 30 minutes long by Icom. The film showed the new model radios out. The new

HF transceiver I believe contains four filters, giving the receiver the sharpest signal yet. I believe it was an IC-2000H. The next was the IC-706. It is a very small mobile unit. It is a mighty radio with 100 Watts on sideband on HF, 100 Watts on six meters, 50 Watts on A.M. My ball point pen went dry and my notes stopped. Anyway, it was interesting and the club has a chance to win the HF rig.

Goldie and I spent New Year's day home alone. Goldie said, "I think I will make a big pot of soup for dinner. Will that be all right?" I said, "Yes". The next question was, "Do you want black-eyed peas with it?" I said, "If you want to have black-eyed peas just open a can and pour half into the soup." Here it goes, ingredients were a small rump roast cooked and chopped, potatoes, onions, carrots, english peas, and garlic. Now several different spices, green peppers, hot peppers, and some of Goldie's mild hot sauce. Oh! Yes, the liquid was beef broth. You may serve this with hot garlic bread with a little butter spread on bread. Eat all you feel comfortable with and watch the football game.

Ralph, WA5PFK

### Think About It

A nickel goes a long way now. You can carry it around for days without finding a thing it will buy.

Forgiveness does not change the past, but it does enlarge the future.

The frugal gourmet says that if you eat lots of garlic and do want to offend anyone, put a roasted coffee bean in your mouth and chew it up. He will guarantee no garlic breath.

Louie: (Whispering soft and low) You look sweet enough to eat. "I am." she said hungrily, "where is the nearest restaurant"

Ralph, WA5PFK

### 1995 -- Looking Back

Looking back over the past year of 1995, it has been mixed feelings for me. One thing, we are all getting older and don't have the fizz we used to have. I do not recall any caravan trips at least large enough to have a meeting on the road.

Interest has been lost for field days. Maybe things will get better. 1995 checkins to the Wheatstraw net was approximately 904, averaging 17.38 checkins per net. I think that is above average. Troubles with the repeater since installation have been very low.

About fifty percent of the meetings had a program, which is good. After all meetings in 1995 the ladies had the best refreshments. We probably all ate more than we should.

When it comes to looking at the whole year past, we have a lot to proud of. We have the most agreeable group I know of. We get along well, with no ill feelings.

Goldie and I had a wonderful Christmas; we went down to John and Linda's house in Southlake Texas. Carol and her family were there for Christmas day, Linda had prepared a large part of dinner in advance, the meats were ready for heat and serve. Anyway, after dinner we visited and watched some home videos of our families.

Carol and Frank's sixteen year old son had for his community project to earn his Eagle Scout rank. He got a Scout crew together and painted the ends of the runways for the Duncan airport. The city of Duncan furnished the materials. Carol and Frank were both at work when the Duncan City Council invited their son Kevin to council meeting to receive a plaque they were presenting him.

They did not know that a portion of the meeting was being shown on the TV station's news. A friend of Carol's saw the notice of the presentation, knowing Carol was at work the lady quickly turned on the VCR and taped it and gave the tape to the Sissons. They showed the tape Christmas day. It was very nice of the City Council reading the complete citation. The Mayor congratulated Kevin and said, "Kevin, you saved the city \$7,000 by spending the two weekends painting."

Carol prepared the food for the boys and fed them. She said, "Those boys really put away the food and drinks." They all enjoyed it.

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The pilots were pleased about it. They said, "Most of the white markings and signs could not be read from the air until they were painted."

I know this article about Kevin may sound as if I was just bragging on my grandson, but I feel proud of any of our teenagers who will volunteer and do a community project. If any of you have a story like that, I will be glad to write it up. Just mail it to me.

Goldie had an undesirable 1995 with the pulling of her teeth. It has been a long tough time getting the soreness and hurt out of her store-bought teeth so she can eat. I had a fair year except I have felt sorrow for her. The one disgusting thing we shared was thieves stealing so many of our black-eyed peas and okra. At least I made a decision with Goldie. After we get the spring 1996 crop out of the garden we are quitting gardening. We have not failed to give vegetables out of the garden to anyone, but I am not growing it to be stolen.

John and Linda got me a large faced quartz twenty four hour clock with a smaller separate hourly quartz clock with a temperature gauge and a humidity gauge on it. I needed it. The clock I had went out of order except for the GMT portion.

In 1995 we had two more silent keys. Raymond Shelby, K5LLX, and Ernest (Ernie) Martin Canton. It was a great loss and we will miss them.

### Where Does Amateur Radio Go From Here?

When the international worldwide members had their meeting, New Zealand tried to have the Morse code dropped from amateur licensing requirements. They were the big pushers to drop code, but there were others opposed to it. The Army MARS program does not use code any more. It seems that most of the licensed operators are not using code.

In the W5YI newsletter, I read where a lot of licensed operators are not renewing their licenses when they expire. Between 1984 and 1989 the dropout rate was about 15,000 annually. When the ten year license term

was implemented it was hard to know what the dropout rate would be. The license was active for the ten year period; some just quit operating, waiting for their tickets to expire.

The no code technicians came along. They talk locally or on a repeater. I am not concerned about that but if it comes down to pushing the FCC to drop code for the general class, and above, there could be a lot of influence on the FCC to drop code. December 1, 1994 the No-Code technicians jumped to 119,550 and 149,745 a year later. The total ham ranks expanded by 41,344 last year, but 30,195 (or 75%) were No-Code Tech.

Ten years ago, 20% of all amateurs (83,387) held a Technician ticket that required 5 wpm code proficiency. Today that figure (which includes No-Code Technicians) is 289,483 (or 41% of all amateurs). If they get interested and learn the code to upgrade -- of course some will not -- I think maybe it will work itself out. If not the frequencies are going to be very crowded.

Someone like the FCC needs to do some monitoring now. I had been talking to an amateur eleven minutes and two people came on frequency telling me that we were on a net frequency and we had to move. I told him I was sorry but I did not know that a net was coming on and that I would move. I laid my mike down and listened to see what net it was. Several guys came on having a bull session using a very full calls, no net. That kind of stuff makes me unhappy.

### FCC has Vanity Call Forms

The 610-v forms are at the FCC office. You can order the forms now, but they are not ready to start issuing the call signs. It seems there are some more decisions to make. One was, at first each vanity applicant would have a maximum of ten call signs in order of preference. The Commission said they would implement the new system by using a series of four "starting" gates and a fee of \$70.00 for a ten year term would be charged for the call sign. New thinking is that this has changed to 25 call signs to be from the call sign being listed, five starting gates, and a \$30.00 fee. They have some

minor changes being looked at.

An applicant can't to get a vanity call of a higher class than his or her license class.

The form 610-v was issued November 30, 1995 and it appears that the FCC might open gate number one in January.

### **FCC Streamlines Amateur License Handling**

On January 13, 1995 the FCC gave the go ahead to the VECs to electronically submit "computer to computer" all form 610 Amateur Service applications for new and upgraded licenses to their Gettysburg office. Now they are being put on the Internet.

In the late fall, a new FCC form 610-R, "Application for Renewal of Amateur Radio Station License" was mailed to amateurs whose station or operator license would be expiring.

### **New "Family Radio Service" Proposed**

The FCC proposed a new (non-amateur) unlicensed Family Radio Service on June 22 that would allow the public to use 14 UHF (460 MHz) channels sandwiched in between existing GMRS (General Mobile Radio Service) channels.

GMRS questioned whether the public would voluntarily comply with the radio rules. What do you think? Ha! Sounds like CB returning.

### **International Amateur Radio Permit**

The ARRL filed a 30-page petition on July 19 seeking to implement the International Amateur Radio Permit. The one year term IARP would allow amateurs to operate in certain visited countries without the necessity of further licensing. There are only two classes of IARP: (1) No-Code VHF/UHF and (2) "All Band" for those with proven Morse code proficiency.

### **Licensing of Club Stations Resumed**

The FCC resumed licensing of new club stations on March 24, 1995, bringing the number of licensed clubs to over 4,000. They may later be traded in for "Vanity" call signs.

### **FCC Abolishes Commercial Radio Fees**

While the regulatory fee for amateur station "Vanity" call signs was reduced from \$70 to \$30, the regulatory fees for all Commercial Radio Operator licenses were abolished entirely. In earlier thoughts, the FCC planned to charge \$105 for a lifetime of 15 years.

### **Antenna Structures Must be Registered**

On January 12, 1995, the FCC proposed a procedure whereby certain antenna structures which are subject to FCC notification must be registered. These are towers that are taller than 200 feet or near aircraft runways. The FCC adopted their proposal on December 23. Effective July 1, 1996, all new antenna structures that require FAA clearance must be registered with the FCC. Existing towers will be registered over a two year period ending June 1998. Registration is achieved by completing new FCC Form 854, "Application for Antenna Structure Registration".

### **First Broadband Auction Nets \$7.7 Billion**

The first auction of commercial PCS (Personal Communications Service) spectrum ended in March with some \$7.7 billion being raised for the U.S. Treasury. While still the largest public assets in history, proceeds were about half the amount expected.

### **On the International Front**

Although downplayed at worldwide meetings covering the Amateur and Maritime services, the International Amateur Radio Union believes that ham radio still needs manual Morse code. Made up of representatives of various national amateur radio societies, the IARU has official observer status at spectrum conferences of the ITU. The IARU concluded that Morse code was useful as an international language, and for its simplicity and ease of equipment construction at reduced cost.

ORACLE, a New Zealand organization dedicated to eliminating Morse proficiency as a licensing condition, convinced its government to propose abolishing the controversial code requirement at the World Radio Conference held in Geneva between October 23 and November 17, 1995. Sev-

eral nations, including the United Kingdom, were in favor of the move. As a result, WRC-95 agreed to include the matter in the agenda of the 1999 World Radio Conference.

### **Amateurs Flock to Wireline Communications**

Hundreds of ham operators, clubs, and organizations set up home pages on the Internet's World Wide Web. Using new audio technology amateurs can now "work DX" without the necessity of having a ham radio license, or even an HF transceiver. All that is needed is an off the shelf multimedia PC with special audio "telephone" software. The resulting communications is very similar to radio, but more predictable! The big question for the future: What impact will the Internet have on the Amateur Radio Service. (I may comment on that in my column sometime -- K5JB)

### **Automatic Control of HF Packet Approved**

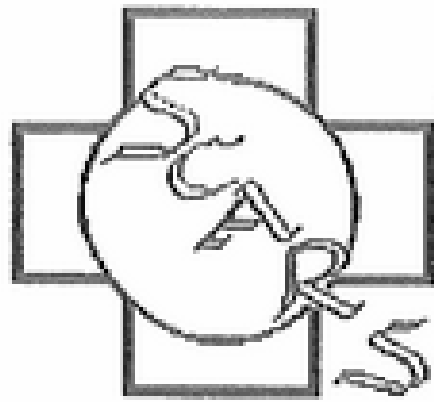
This matter was basically a "turf struggle" between old (manual) and new (data) technology -- the DXers vs. the packeteers. Amateur HF packet operators had been allowed to operate unattended stations for several years under a Special Temporary Authority granted by the FCC. the big concern was that if left unchecked, HF packet "robot" stations would interfere with ongoing ham band operation.

The dilemma was solved when an IARU Region 2 meeting produced an HF band plan which provided for the herding of automatically controlled data stations into eight specific subbands in the 80, 40, 30, 20, 17, 15 and 10 meter ham bands.

The headlines have been brief 1995 changes or rule makings and changes by the FCC, brought by the W5YI newsletter. There were many more on computers, Internet, PC, and other data. It was over my head, and of little interest to me. Maybe one of the PC or Internet buffs can bring you up to speed on these subjects.

Furthermore, I felt I had taken more space in the C&E than I should have.

Ralph, WA5PFK



## South Canadian Amateur Radio Society

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

The January meeting of the South Canadian Amateur Radio Society was held on the 13<sup>th</sup> of January, 1996. Our new president, Mike McEwen, KC5JGL, ran into the room and immediately called the meeting to order at 9:30. Mike opened the meeting by introducing the new officers, and then all those who were present introduced themselves.

We were sorry to hear that Cecil Boren, W5QRL, is now a silent key. I'm sure that all who knew him are saddened by his passing. Our condolences go out to all of his family and friends.

Our new treasurer, Sarah Byrer, KC5ABA, gave the treasurer's report. We seem to be doing fine. Sara warned everyone that they have two more months remaining on the grace period for dues. In March, she sends the debt collector. If you don't want Don banging on your door at 2:00 in the morning, you might consider paying up.

Louis Kennedy, KC5ABI, then gave the CORA report, focusing on CORA's efforts to become a non-profit organization. Louis then moved that we adopt the proposed changes in the CORA constitution that would allow this. Bill Baker, N5UMH, seconded. The motion passed unanimously.

Louis then reminded us that this is a good time to think about making reservations for our next Christmas party. He recommended that we reserve the meeting room at Denny's, since no financial commitment would be required. Jud Ahern, KC5RI, seconded the motion. Everyone must have been in a fairly agreeable mood that morning, the motion also passed unanimously.

Jud informed us of the progress that has been made on the upcoming amateur licensing class. The class begins March 22 at the OU Energy Center. Everyone will need to park in the east parking lot. The class is on the plaza level. Classes will be from 7-9 PM, and there is no charge beyond the \$15 cost of materials. Ed Berkowitz, N3US, will be having a concurrent code class for all of you who are interested in upgrading, or for those like me who haven't touched a key in 20 years. Help is always needed for these classes. At least one person will be needed each night, please see Jud for details.

We then discussed having a person as a point of contact for particular areas of activity in which the club is involved. The following people agreed to assume these duties: Louis Kennedy, CORA; Bill Baker, the club WWW page; Ed Berkowitz, educational projects; Don Byrer, social activities and EOC coordinator. We still need volunteers for ham class and Field Day coordinators.

We ended the meeting by discussing the prospects for adding QST to the Norman Public Library. Our esteemed treasurer, Sara, is preparing a much-needed list of members for us. Finally, without objection, we asked Jud to take care of anything that needed to be done to secure the new club call. The meeting adjourned at 10:15.

I'm sorry that I haven't gotten everyone's call or name correctly. Until now, I've spent the meeting time primarily concerned about the doughnuts and coffee. If you'll grant me one month of grace, I'll make sure to get everything in February.

Randy, WB5RWN

## On the Air

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

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

Packet check-in on 145.07

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

HF 3900kHz; Packet 145.07

**AMTOR** @ 8:30 a.m. 14.064mHz

**Night Owl** - Daily @ 10:30 p.m. on 146.07/67 with alternate 146.325/925.

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

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

**Edmond Info** - Mondays @ 7:00 p.m. on 147.135/735.

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

**QCWA Chp 63 HF** - Sundays @ 8:00 on 3856.5kHz.

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

**Purcell** - Mondays @ 8:00 on 145.19 minus input.

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

**YL Net** - Tuesdays @ 8:00 p.m. on 147.09 plus input

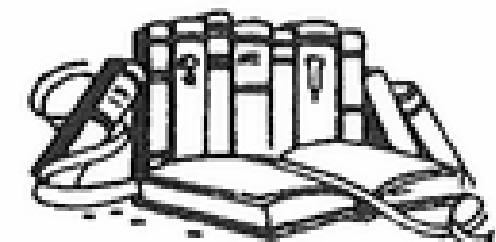
### Wanted

**People to assist with Ham Holiday 96**  
Persons interested in working hard and getting little or no recognition.

**To Apply come to the CORA meeting - February 27<sup>th</sup>, 1996 at**

**7:30 p. m.**

**Hope to See you there!!!!**



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## PROUD AS PUNCH

He always envied dad for being able to talk on his radio and wished that someday he himself could get his amateur license so he could do the same. He always felt this would be something he could never do, since the theory part of electronics was too much for him to learn and remember. Therefore, finding the easy way out, he purchased a Citizen's Band radio and started communicating on eleven meters, much to the disapproval of his dad. He wanted to put up an antenna at dad's home, but dad would have nothing to do with that. He even crawled in the attic and strung a dipole and knocked a hole in the ceiling of his bedroom to run the coax to the dipole. It seems every time he came home, he had a different type of antenna mounted on the roof of his pickup, one that would really reach out and talk, each time a little bigger than the last one.

He did make several friends in the Oklahoma City area on eleven meters. As time went by, more and more of these friends had gotten an interest in something better, Ham Radio. Most had gotten their "no code Tech", leaving him out in the cold with fewer and fewer friends to talk to on his means of communicating.

Dad told him he would purchase him a new radio if he would get his amateur license. With this as an incentive, he purchased a "Now You're Talking" study guide and started studying for his "No Code Tech". There were many days of frustration, trying to master theory that seemingly was much too deep for him to learn. However, with the help of dad and much time spent studying practice examinations which were printed out and also at the computer, he decided to take the big plunge and see what he could do. Sure enough, on the first try, he passed his "No Code Tech". Dad had never been a big fan of the No Code license, however, this was much better than the 11 meter band, and a two meter antenna looked much better on that pickup than the large CB monster. Hopefully, with a little

encouragement he will want to learn code and continue to upgrade.

All of this happened about the time the snow storm hit Gettysburg and the FCC offices were closed, therefore no licenses were being issued. This also caused chaos, not being able to understand why such weather conditions had to come while he was waiting on his new call. But, it came and was he happy.

Yes, I am proud as punch of my son. He overcame great obstacles to get his license, but now he has it and once again able to talk to his old 11 meter friends on two meters. I am happy to introduce my son Dirk, KC5SFE.

And to add sugar to the punch, my wife Sue has just passed her Novice code and theory examination and has been assigned the call of KC5SMJ. She is ready for her Technician test and has started studying for the General test. So, this makes three down and one more to go. My oldest son David, N5AKU, holds his general class license and lives in Bartlesville. So, one more son to go and we will have a complete family of hams. No wonder I'm as Proud as Punch.

Chuck Wilhite, K5NK

## 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 Red Cross in Norman.

VE exams on 4th Saturday of each month are held times are 1830 for code and 1900

for theory, at the Wilson Center in Altus, OK.

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

### Attention Amateur Radio Operators and Storm Spotters of Edmond and Oklahoma City Area

The Edmond Amateur Radio Society and City of Edmond Emergency Management will be having a Storm Spotters class taught by the National Weather Service at 7:00 p.m. on March 4, 1996. Location of the class will be at the downtown Community Center located at 28 East Main ( Intersection of Main and Littler Street ) which is on the north side of the Edmond Police Dept.

Anyone wishing to attend should contact Dee Mize - 341-6163 or Jo Greenhaw - ( Edmond Civil Defense Emer. Management Interim Director) 359-4370 or Kevin Means - 341-4359. Admission to the class is free and no fees are charged for attending the class.



## Oklahoma City Autopatch Association

### OCAPA Minutes January 16th, 1996

The meeting was called to order by John, N5SAM at 7:30 followed by introductions. There were 7 visitors and 31 members present.

Congratulations to Sue Wilhite for passing the Novice test.

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

Bob, WA9FCT gave the treasurer's report and it was approved as presented.

**CORA Report:** Hal, KB1ZQ said that the Ada amateur radio club has joined CORA making a total of nine clubs. The constitution as printed in the C&E was officially approved by OCAPA on a motion by Tom, WA9AFM with a second by Hank, WA5JRH.

Section Manager Joe, N6CL presented OCAPA with the Bob Tierney Memorial Award for best Emergency Communications. He also presented the HAM of the YEAR award to Mac Macdonald, K2GKK. Congratulations to Mac who was surprised and "speechless".

John, N5SAM showed the award from the FOP lodge #123 given to OCAPA in recognition for the many hours of work in response to the Oklahoma City disaster.

**Technical Committee:** Loyd, AB5I reported that during a trip to the top of the tower in December it was discovered that the transmit antennas were in need of repair. During a second trip to the tower in January a temporary Comet dual-band vertical was installed for both 146.82 machine and the 444.30 UHF. The UHF repeater is back on-the-air but without the

pre-amp. Several members reported that the 146.82 machine was doing great, as good as it has been in years. Next project will be to take down the antennas and see what repairs are needed.

**New Business:** Carole, KC5EXR will be teaching a CPR course on the second Saturday in April, she needs to know how many persons are interested by February 8<sup>th</sup>. This course is open to all. Tom, WA9AFM said that the annual weather meeting will probably be in March. Brad, KJ0W will be teaching a no-code class each Thursday at the FAA center starting January 18.

The meeting was adjourned at 9:00.

Jim Richardson, N5OHL  
Secretary

### From The V. P.

During December and January, OCAPA technical folks have been busy working on all three repeaters. The UHF machine is now on-line again, however, a good deal of antenna work is needed before the entire system is truly back on-line.

In January, while KJ5GX and KJ0W were on the tower several other members did a clean-up of the repeater shack. WA9AFM and K5NK successfully loaded N5SAM's trailer with some priceless equipment/junk that can be sold at the next swap meet. As always N5TCG operated the tower elevator with WB0GTU providing supervision. KB1ZQ, N5OHL, and K2GKK also provided support during December and January. It certainly helps the work go faster when we have members willing to interrupt their busy schedule and help with club projects.

In the next few months we hope to rebuild or replace some of the antennas on the tower. Storm season is rapidly approaching so those of you who can help with club projects please volunteer your services.

In February and March good opportunities for working DX will occur during the ARRL International DX contests. The CW event will be Feb 17 and 18, while

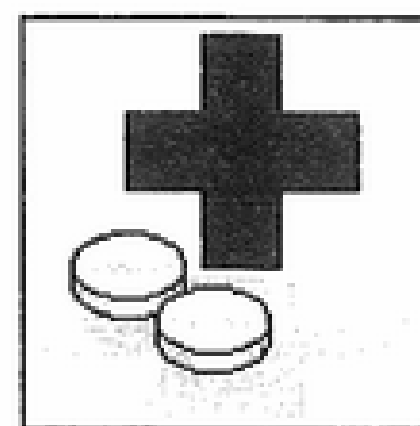
the phone version will be March 2nd and 3rd. These contests often have some rare DX stations not normally heard on a daily basis. So, throw up an antenna and see if you can catch a few without disturbing your neighbors too much. As for me, I'm going to give the 160M CW contest on January 26, 27, and 28 a try, hopefully, I'll some day learn how operate CW without pain. CUL.

73...AB5I

## Announcements (Con't)

SCARS and OU Amateur Radio Club is sponsoring No Code Tech classes from 7:00 p. m. to 9:00 p. m. on Mondays from January 22nd through March 11th. Classes are held at the Sarkey Energy Center on the campus of Oklahoma University. Contact Mark Klein, N5HZR at 405-329-1659 ext. 8994 for information.

The Aeronautical Center Amateur Radio Club is holding No Code Tech classes on Thursdays at 6:00 p.m.. Classes began on 11 January, and are conducted at the W5PAA radio club station on the FAA campus. Contact Brad Nelson, KJ0W at 405-793-9470 for further information.



The Oklahoma City Autopatch Assn. will sponsor CPR classes on April 13<sup>th</sup>, tentative location will be the Salvation Army HQ at NW 50<sup>th</sup> and Penn, pending approval from the Salvation Army. Carole, KC5EXR will teach the classes and needs to know who is interested in attending by February 8<sup>th</sup>, in order to acquire the books and materials needed to teach the class. Cost of the class will be limited to costs of books and cleaning supplies. For more information contact Carole at 340-0458. This class is open to all.



## A. R. R. L. Bulletins

From ARRL Headquarters  
Newington CT

**ARRL Bulletin 5**  
January 22, 1996

### ARRL Board Meeting

The ARRL Board of Directors met in annual session, January 19 and 20, 1996, at Savannah, Georgia. The following are highlights of the board actions:

A committee will be appointed by the president to draft ARRL policy positions, based on membership input, on questions to be addressed at WRC-99. Issues to be studied include possible simplification of the licensing structure, harmonization of licensing standards internationally, and consideration of Article S-25 of the International Radio Regulations, the technical and operational rules governing the amateur and amateur-satellite services, including but not limited to the HF code requirement.

The Ad Hoc Repeater Coordination Committee 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 change and suggestions for improvement of the coordination process. The Drafting Committee was created at last October's ARRL-sponsored open meeting of repeater coordinators in St. Charles, Missouri, to draft documents addressing such matters as the "single point of contact" between FCC and coordinators, recognition of coordinators, and dispute settlement.

The board elected Rodney J. Stafford, KB6ZV, as President; Stephen Mendelsohn, WA2DHF as First Vice President; and Joel Harrison, WB5IGF,

and Hugh A. Turnbull, W3ABC, as additional Vice Presidents. International Affairs Vice President Larry E. Price, W4RA, was re-elected. First Vice President Jay A. Holladay, W6EJJ, retiring from the board after 21 years of service, was elected Honorary Vice President.

With the ascension of directors Mendelsohn, Harrison, and Turnbull to Vice President posts, Hudson Division Vice Director Paul Vydareny, WB2VUK, Delta Division Vice Director Rick Roderick, K5UR, and Atlantic Division Vice Director Kay Craigie, WT3P, all automatically assumed the directorship in their respective divisions, effective at the conclusion of the board meeting.

Treasurer James E. McCobb, K1LLU, Executive Vice President and Secretary David Sumner, K1ZZ, and Chief Financial Officer Barry J. Shelley, N1VXY, were re-elected.

Northwestern Division Director Mary Lou Brown, NM7N, Roanoke Division Director John Kanode, N4MM, Southeastern Division Director Frank Butler, W4RH, and Southwestern Division Director Fried Heyn, WA6WZO, were elected as members of the Executive Committee.

Gene Hastings, W1VRK, Rocky Mountain Division Director Marshall Quiat, AG0X, and Roanoke Division Director John Kanode, N4MM, were re-elected members of the ARRL Foundation Board of Directors for three-year terms.

David Mann, VP2EHF and Dorothea Mann, VP2EE, won the International Humanitarian Award for 1995 for hurricane relief efforts.

ARES members of Oklahoma were awarded the ARRL Certificate of Merit for their courageous efforts in providing critical emergency communication services to agencies responding to the Oklahoma City bombing.

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.

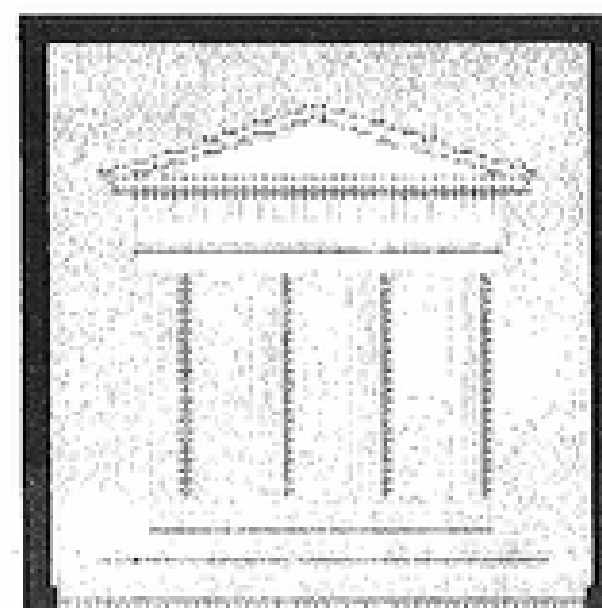
Scarborough Reef was approved as a DXCC country. A separate DX bulletin will provide details.

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.

The Secretary was instructed to poll the ARRL members in Herkimer, Otsego, and Schoharie counties in the Northern New York Section, to determine their desires, on a county-by-county basis, regarding their inclusion in either the Northern New York Section or their former section of Western New York. Results are to be communicated to the Executive Committee no later than March 15, 1996, so that the question can be resolved before the next election of Section Managers in the affected sections.

To improve its operations, 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 meetings of the full board. The consolidated meetings will save time and money.

Details will appear in March QST.





#### ARRL Bulletin 4 January 17, 1996

##### FCC Shrinks Backlog

The Federal Communications Commission reports it is making good progress on processing a backlog of more than 2800 ham radio license applications filed electronically, including almost 2000 from ARRL. The Commission was back on the job again January 16, in the wake of a month-long shutdown begun by the budget impasse and extended by bad weather and a federal holiday after the Commission first reopened for a day January 11.

A spokesman said the FCC expects to be up to date with electronically filed applications for new and updated licenses by Thursday, January 18. The furlough and the snow days have delayed implementation of the vanity call sign program, however.

New and upgraded license information is available from ARRL by calling 860-594-0300. Applicants also can check the University of Arkansas at Little Rock FCC database at <http://www.ualr.edu/doc/hamualr/callsign/html>

#### ARRL Bulletin 3 January 16, 1996

##### FCC Proposes to Suspend Amateur Use of 76-77 GHz

In a Second Notice of Proposed Rule making in ET Docket 94-124, issued just before the federal shutdown in mid-December, the FCC has proposed amending Part 97 of its rules to "temporarily disallow amateur use of the 76-77 GHz band," which the FCC hopes to open for commercial development along with other "millimeter wave" frequency bands above 40 GHz. The band in question is part of the 75.5 to 81 GHz allocation, which the Amateur and Amateur Satellite Services share with other users on a primary basis from 75.5 to 76 GHz and on a secondary basis from 76 to 81 GHz; the primary allocation of 76-81 GHz is assigned to radio location, including radar.

The Commission says the change will permit development of vehicle radar systems in the 76-77 GHz band that could be used in conjunction with intelligent transportation systems. The FCC says restricting ham use of 76-77 GHz will prevent potential interference to these developing systems. At the same time, the FCC proposes to upgrade amateur status in the 77.5-78 GHz band from secondary to co-primary with government and nongovernment radio location services.

In earlier comments, the ARRL objected to limiting the 76-77 GHz band to vehicle radar systems. The League said it wanted to maintain existing ham allocations from 75.5 to 81 GHz to spur development of short-range, high-speed data links. Because of the federal government shutdown, the deadline for comments on the FCC proposal has not been set but will be 60 days after publication in the Federal Register.

#### ARRL Bulletin 2 January 12, 1996

##### License Issuance Delays

The budget impasse is over for now, but FCC issuance of new ham radio licenses remains stalled, this time by bad weather. The FCC reopened Thursday, January 11, but closed Friday, January 12, as more snow hit Washington, DC. Monday, January 15, is a Federal holiday, Martin Luther King Day.

While it was open January 11, the FCC accepted electronic amateur license application files for processing from VECs, including more than 1800 records from ARRL/VEC. The FCC will expedite the application backlog, but some temporary software adjustments were needed before licenses are granted. It could take several days after Monday's holiday for the FCC to get back up to speed.

The earliest word on call sign assignments and upgrades is not expected until Wednesday, January 17. ARRL suggests applicants wait until then to call ARRL at 860-594-0300, 8 AM to 5 PM EST.

The same information will be available on Internet sites, including the University of Arkansas, Little Rock, WEB site at <http://www.ualr.edu/doc/hamualr/callsign.html>.

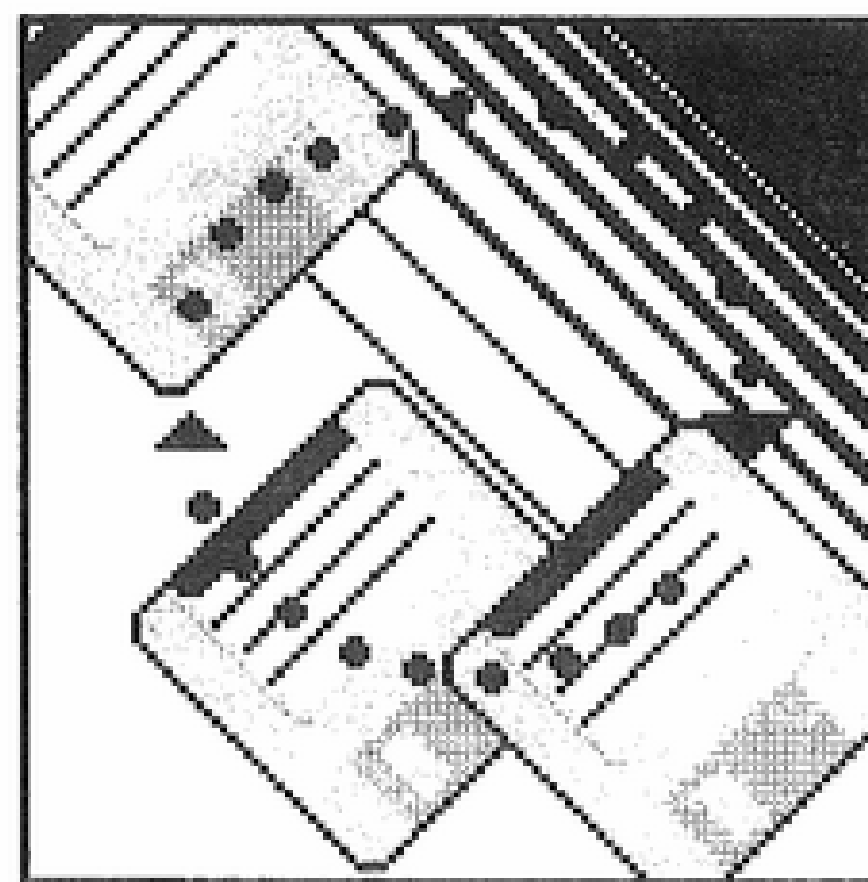
#### ARRL Bulletin 1 January 2, 1996

##### License Applications Stalled as Budget Impasse Continues

While budget talks continue between congressional leaders and the White House, the FCC remains shut down for lack of funding, and no applications for new licenses will be processed or granted until the FCC reopens.

Once the budget issues are resolved and the FCC reopens, it could be another two or three days before processing is completely restarted.

The ARRL encourages applicants to be patient and to wait at least until the third business day after the FCC reopens before calling about pending applications.



Send Articles for Publication to:

Collector and Emitter  
4216 Spiva Drive  
Del City, OK 73115-4424

Format should be ASCII, MS Word or other compatible format. Both 5¼ or 3½ disks are OK. Please include a hard copy of all text in the event of disk failure.



# The Bertha Watson Memorial Scholarship

Sponsored by the  
Edmond Amateur Radio Society

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 March 29, 1996.

Return applications to:

Joyce Wolf, KC5NBI  
1400 Del Norte Drive  
Edmond, Oklahoma 73003  
(405)-340-7486

This scholarship is open to all High School seniors and college students of all ages. Applicants need not be an Amateur to apply.

## SCHOLARSHIP APPLICATION EDMOND AMATEUR RADIO SOCIETY / BERTHA WATSON

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?

\_\_\_\_\_

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.

\_\_\_\_\_

\_\_\_\_\_

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\_\_\_\_\_

\_\_\_\_\_

## 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



## Edmond Amateur Radio Society

### JANUARY C & E REPORT

Hi Gang ! We find EARS off with a bang! With the new board meeting on the 10<sup>th</sup> at the Ears club station, with several visitors present. You wouldn't know that it was Richard's first time as prez.

Many topics were covered, from Jan to Dec. The board meeting is open to any one interested.

The January business meeting was held on Sun. the 21<sup>st</sup>. There were 34 members and visitors present. David VanNostrand formerly the City of Edmond's Emergency Coordinator presented a plaque to the club for many years of help. The plaque will have a place of honor at the club station. Look for it when you are there. We sure will miss David, he has gone on to bigger things.

### I heard it on the Net!

Don, N5KLI's wife has received a big honor in Edmond. She is the "Teacher of the Year" congratulations! I was wondering why Don had such a big smile lately.

Do you know of someone that could use a little help with school tuition? Now is the time to think about the Bertha Watson Scholarship. Joyce, KC5NBI has offered to head the committee. If any one needs an application you can call her at 340-7486. You can also contact any of the board members. The award will be given at Ham Holiday Hamfest.

Ham classes are still going strong. There are a number of persons that have passed their test and awaiting their call.

Good job!

The February dinner meeting will be at Gamble's Country Kitchen located on 2<sup>nd</sup> Street at Coltrane. The date will be the 17<sup>th</sup>. If the dinner menu is as good as the breakfast one it will be enjoyable, I know the company will be.

Have some free time in the afternoon? Pat, N5SGV has a project going. Business after hours. Mostly it involves helping cars to park in the right places at the Santa Fe High School on 15<sup>th</sup>. It will be February 15<sup>th</sup> from 3:30 to 6:30 p. m.. If you are interested call Pat at 359-0648.

Jim, N5OHL was showing off the certificates for the special event station from December. There were many contacts and a lot of fun to be had. Just how many contacts were there Jim?

If you hear a new voice on the radio as net control don't worry. Ernie, K5YKD and Dee, WD5FHR are going to be an occasional net control.

There will soon be a schedule as to when there will be access to the club station. The details are being worked out. Right now if you want to go to the club station call Dee, WD5FHR, Lee, KA5WIS, or Richard, KJ5QU. There are plans to have a training session for the radios at the club station, but as of now no date has been set.

Richard and Toni, KK5LH have volunteered to be the C.O.R.A reps this year. By the rules we are allowed 3 reps, so if you would like to help just give Richard a call.

This is just a friendly reminder, if you have not yet paid your dues they are due now. They can be mailed to PO BOX 48 Edmond 73083. Or you can give them to one of your friendly board members.

Speaking of board members, the next board meeting will be Wednesday at 7:00 p. m. at the club station. Come and see the board at work. (?)

Stay tuned dept. Listen to the Monday night net for the date and time of this class. There will be a weather spotting

class at the Edmond EOC. It will be presented by Jim Purpura, KB5YHT of the National Weather Services in Norman. Spring is coming and with it will be severe weather. This will be a chance to brush up your skills or to learn what to look for. Whatever your reason come on down for a good and informative meeting.

Coming up in March is the St. Patrick's Day Parade. The date will be March 16<sup>th</sup> on a Saturday morning. This is a fine parade. It is a good practice for the July 4<sup>th</sup> parade in Edmond. About 20 or so people are needed to help.

If you are handy, want to learn, like to climb or just like to watch, there will be more repair / improvements to the antennas at the club station. Dee, WD5FHR will accept any and all help. Weather permitting of course.

### January Birthdays

GARY	KB5UKS
HAL	KB1ZQ
GEORGE	N5GFG
TERRY	KB5RQT
HAROLD	WA5ZKX
DALE	AB5MP
STEVEN	KC5RYT
JOHN	WB5SYT
ALBERT	K15CW
TOMMIE	KA5WAV
TIM	KB5GXH
RICK	N5KLM
TERESITA	

HAPPY BIRTHDAY!

73

EDITH, KA5YPX



**Don't be a lone cowboy, come out and join EARS learn about severe weather. It could save the lives of someone you love....**

# Final Frequencies Selected for P3D

## UPLINKS:

BAND (Mhz)	DIGITAL (Mhz)	ANALOG (Mhz)	CENTER (Mhz)
15m	N/A	21.210 - 21.250	21.230
2m	145.800 - 145.840	145.840 - 145.990	145.915
70cm	435.300 - 435.550	435.550 - 435.800	435.675
23cm(1)	1269.000 - 1269.250	1269.250 - 1269.500	1269.375
23cm(2)	1268.075 - 1268.325	1268.325 - 1268.575	1268.450
13cm(1)	2400.100 - 2400.350	2400.350 - 2400.600	2400.475
13cm(2)	2446.200 - 2446.450	2446.450 - 2446.700	2446.575
6cm	5668.300 - 5668.550	5668.550 - 5668.800	5668.675

## DOWNLINKS:

BAND (Mhz)	DIGITAL (Mhz)	ANALOG (Mhz)	CENTER (Mhz)
10m	29.330 (+ / - 5 kHz )	( used for digitized voice bulletins )	
2m	145.955 - 145.990	145.805 - 145.955	145.880
70cm	435.900 - 436.200	435.475 - 435.725	435.600
13cm	2400.650 - 2400.950	2400.225 - 2400.475	2400.350
3 cm	10451.450 - 10451.750	10451.025 - 10451.275	10451.150
1.5cm	24048.450 - 24048.750	24048.025 - 24048.275	24048.150

*Note: All downlink passbands are inverted from the uplink passbands.*

## BEACONS:

BAND	BEACON-1 (Mhz)	BEACON-2 (Mhz)
2m	N/A	N/A
70cm	435.450	435.850
13cm	2400.200	2400.600
3cm	10451.000	10451.400
1.5cm	24048.000	24048.400

We get plenty of phone calls about P3D and the frequencies that are going to be implemented. Presented here is a clear list for your reference. It was compiled by AMSAT-NA and has been constant for about a year. How the transponder schedule will be set up is still unknown. An International Schedule Board comprised of many active satellite operators will have the primary responsibility of determining what modes will be used and when. Of course, control operators will have input to this schedule Board to recommend things which are in the best interests of the health of the satellite.

# Word Search - Jan96

Word List: JAN96

by Edith, KA5YPX

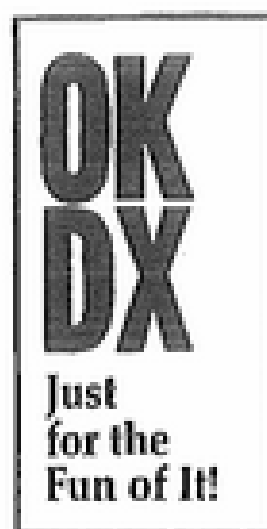
A GOOD TIME TO STUDY CODE	J E P R E S I D E N T S D A Y K A Z O V J H
AMATEUR RADIO	U E M Q N L W D G A I Q K G V G Z F V F M E
COLD COLD WEATHER	T N A M A T E U R R A D I O G S U V O X J A
DAYS GETTING LONGER	G N I R P S O T D R A W R O F G N I K O O L
DUMMY ANTENNA	S B X V C U L A Y U C N G D P T M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

## Current Space Shuttle And SAREX Schedule for 1996

Shuttle Mission	SAREX	Launch Date	Time	Window	Duration	Incl.
STS-72	No	January 11, 1996	4:18 PM EST	60 min	8d, 22h, 36m	28.45
STS-75	No	February 22, 1996	3:08 PM EST	2h, 30m	13d, 16h	28.45
STS-76	Yes	March 21, 1996	*	6min	Approx. 10d	51.6
	MIR Dock					
	FM Voice					
STS-77	No	Mid May, 1996	*	*	Approx. 10d	28.4
STS-78	Yes	Late June, 1996	*	*	Approx. 14d	39.0
	FM Voice					
	& Packet					
STS-79	Yes	August, 1996	*	6 min	Approx. 9d	51.6
	MIR Dock					
	FM Voice					
STS-80	Yes	November 7, 1996	*	*	Approx. 16d	28.5
	FM Voice					
	& Packet					
STS-81	Yes	December 5, 1996	*	*	Approx. 9d	51.6
	MIR Dock					
	FM Voice					

\* Exact times have not been determined as of December 15, 1995.

Table Reprinted from Satellite Operator, November 1995 with Permission.



## OKlahoma DX Association

### From the Prez ...

#### *President's address ...*

Hello again everyone! I hope everyone is having a lot of fun in this fascinating hobby. I still am after some 38 years. Although technology has changed tremendously, radio waves still propagate around our Earth just as they always have ... its magic!

As we lounge in the sunspot minimum, propagation is quite poor and working DX more of a challenge. But the high bands do still open at times and the low bands are quite good. This is a good time to get that DXCC on 40 or 80 meters ... or maybe even 160! The DX Packet Cluster can be a very useful tool to alert you when the high bands are open or when DX stations are active on the low bands. Most DXpeditions this year are emphasizing the low bands so stay alert. If you enjoy 10m, it still opens at times. Check it in the evening. Give out a CQ and watch the DX Packet Cluster.

I'm looking forward to seeing everyone at the Green Country Hamfest. OKDXA will be present with tables in the flea market. We will have a business meeting sometime Saturday morning. More details in next month's newsletter. The hamfest dates this year are March 23 and 24.

Although slower than we would like, we are making progress on the Packet Cluster link out of OKC. The Choctaw ARC has graciously offered to let us use their tower and access TEXNET at their gateway. We certainly appreciate their accommodations. We now have 2 UHF radios to link TEXNET to the N5OK Cluster. Bob Buford, KD5QD, is crystallizing and tuning the radios at this time. Thanks Bob! The new target for operation is late February.

I am beginning plans for another OKDXA

Banquet for next fall. We were unable to get some special guests last year because we did not have enough lead time so I'm starting early. I'd like your input on this.

Well, I've rambled enough. Good DX and remember to have fun. It's only a hobby.

73 de WV5S

### Attention all readers

#### Win a new ICOM IC-706!

The OKDXA will give away the radio that is the talk of the town, a new ICOM IC-706 160m through 2m, All Mode transceiver! We appreciate the Oklahoma Comm Center making this \$1500 radio available to the OKDXA at a large discount.

The IC-706 outputs 100 watts on SSB, CW, FM and RTTY modes, 160m through 6m, and 10 watts on all modes on the 2m band. All this in a radio the size of a 2m mobile transceiver and it has a detachable faceplate for mobile mounting. It's the perfect radio for HF/VHF mobiling, for the Technician Class up to use now and after upgrading, for Field Day, and for a back-up radio.

The OKDXA will be selling tickets for a drawing to be held at the Green Country Hamfest on March 23 in Tulsa. The winner does not have to be present. Tickets cost \$1 each or 6 for \$5. A supply of tickets will be mailed to each OKDXA member. If you are not an OKDXA member, be sure to see a member and purchase your tickets and get entered. All money and ticket stubs go to President WV5S.

Anyone joining the OKDXA from February 1 through the Green Country Hamfest for the regular \$20 dues will have 12 tickets place in the "barrel" and your dues will be paid up until the normal renewal date of October 1, 1996.

Tickets may also be obtained at the Oklahoma Comm Center and from WV5S by mail (SASE please).

### Treasurer's Report ...

#### *Membership*

The current membership stands at 73 as of this writing (23-Jan-96). 45% of our membership has paid their extra \$10 dues. Thanks!

### DX News ...

#### *Pratus Is. ... A new one!*

Here is the text of ARRL Bulletin ARLD065 ....

QST de WIAW  
DX Bulletin 65 ARLD065  
From ARRL Headquarters  
Newington CT  
December 22, 1995

To all radio amateurs

ARRL DXAC and Awards Committee  
Agree Pratas Island goes on ARRL DXCC  
Countries List

The ARRL DX Advisory Committee (DXAC) has voted 12 to 4, and the Awards Committee, has voted unanimously to add Pratas Island, BV9P, for contacts made January 1, 1994 and after. This is based on DXCC Rules Section II, Point 2(a) (Separation by Water). Pratas Island, located in the South China Sea, is administered by Taiwan.

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

Because of QSLing irregularities, it will be necessary for anyone who has a picture card from the January or March 1994 operation to obtain a replacement card from QSL manager KU9C. The picture cards are not acceptable for DXCC credit.

#### *Info from KU9C, the BV9P manager ...*

Here is the text of an email sent out by Pratus QSL manager Steve Wheatley, KU9C, in late December.

Subj: BV9P QSL Status de KU9C  
Date: 95-12-24 17:02:41 EST  
From: KU9C@aol.com

Well, the ARRL announcement has created a flurry of inquiries about the status of BV9P QSL cards. I hope this helps to answer the many inquiries and give you an up-to-date status report!

1. QSL cards mailed to either the Callbook address (POB 5953, Parsippany NJ 07054 or to the address listed with the Dxpediton announcement (12 Netherton Terrace, Morristown NJ 07960) are likely in my hands. I'm not aware of any delivery issues. Chances are that, if you mailed it, I've got it!

2. The QSL card artwork is about to go to the printer. It has provision in the artwork to "work" with any of the 3 BV9P operations. Approximately 20,000 cards are due to be printed.

3. Once the cards are in my hand, I'm planning to post all direct responses received to date within 2 weeks. There are a few QSL requests that included other QSL cards for DX stations that I manage, but I've not received logs to date. Unless the logs come in, I'll hold the cards until the logs are received.

4. I'll update the reflector when the cards begin to find their way to the mailbox.

5. I currently have logs for the 2nd and 3rd BV9P operation (March 1994 and May/June 1995). I should have the 1st operation momentarily. Therefore, I will be in a position to confirm each of the operations per the ARRL announcement.

73 es happy holidays! Feel free to directly address any questions to me via internet at ku9c@aol.com.

Steve Wheatley KU9C

*Scarborough Reef to go before the ARRL Board ...*

DX Bulletin 63

From ARRL Headquarters

Newington CT December 19, 1995

To all radio amateurs

The ARRL Membership Services Committee (MSC, a standing committee of the Board of Directors), having reviewed documentation from the DX Advisory Committee (DXAC) and the Awards Committee, has voted 5 to 2 to recommend the addition of Scarborough Reef to the ARRL DXCC Countries List.

The DXAC and the Awards Committee had come to opposite conclusions regarding the eligibility of Scarborough Reef for separate DXCC status. Under new procedures adopted by the ARRL Board in July, 1995, when these committees do not agree the question is referred to the MSC for review and recommendation to the full Board.

The recommendation that Scarborough Reef be added to the DXCC List will be considered by the ARRL Board of

Directors at its January meeting.

### *Heard Island in 96?*

The following letter, from Anthony Deprato, was taken from the Internet DX Reflector. Tony is the Director of Operations for the South Sandwich Island Antarctic DX Group.

"I am receiving many calls and emails as to what is going on and who is going to Heard Island. I hope that the following information will help to clear the air.

In 1988 the South Sandwich Island Antarctic DX Group was formed. The sole purpose was to put all the rare antarctic islands on the air. In 1992 the SSIDXG put VP8SSI (S. Sandwich Is.), VP8BZL (Falklands) and VP8CBA (S. Georgia Is.) on the air. Before we left South Georgia we announced that our next island would be Peter I. In 1994 we brought 3Y0PI, Peter I, on the air.

During this trip we again activated VP8BZL and VP8CBE (S. Shetlands). There were brief operations from the Antarctic continent as /KC4 and as /4K1 from King George Island in the South Shetlands. Before we left Peter I, the SSIDXG made the announcement that our next operation would be from Heard Island in the 1996/97 season. After our return home, work was started on obtaining landing permission for Heard Is. During this time one member of the SSIDXG resigned from the group to form his own group. Two of the operators that were on Peter I, but who were not SSIDXG members, joined with him. All members of the SSIDXG wished them well! Unknown to the SSIDXG was the fact that this group also had visions to go to Heard Is. and they requested landing permission but for one year earlier than the SSIDXG landing date. Upon learning that they had been granted permission the SSIDXG put a hold on their plans until they could see what the outcome of the other group's operation would be. The entire membership of the SSIDXG sent an email wishing them God's speed and the best of luck. But as most of you know, luck was not with them and they lost over \$100,000. We were all very sad to hear this and sent an email informing the group leader of this fact. I received an email from him stating that he was going

to have to drop out of any future operations due to work.

At this point the SSIDXG, having landing permission in hand and transportation offers waiting for closing, decided to reactivate their plans for a Heard Island operation. News releases were sent out and updates have been given out about every two weeks. It has now come to the attention of the SSIDXG that two members of the group that canceled their Heard Island trip this year are now stating on the internet that they are planning another operation ... and at the same time as the SSIDXG's date which was given out over 1.5 years ago!

It is the policy of the SSIDXG to drop out should this type of problem arise but the entire group feels that this is not the case as we have stepped aside once and now once again we are being put in the same spot! It is our feeling that it is the other group's turn to step aside! The SSIDXG stepped aside when they announced their trip. The SSIDXG has and is always willing to work with any group or team and is willing to do that still, but we feel that it is not our place to step aside this time!

On behalf of the entire SSIDXG,"

Anthony W. (Tony) Deprato

WA4JQS/VP8BZL

Director of Operations

South Sandwich Island Antarctic DX Group

*Belau, KC6, gets new prefix ...*

The US protectorate of Belau (formerly the Western Carolines) gained it independence this last year. *QRZ-DX* reports that it now has been officially been assigned the T8 prefix by the ITU. T8 has been used "improperly" by those operating from Seborgia.

*Angola cards in the mail ...*

Peter Casier, ON6TT, reports that the D2TT and D3T cards have arrived from the printer and QSL manager ON5NT is mailing them NOW.

*4U1UN QSL route change ...*

Effective immediately, any request for 4U1UN cards or any of their special call signs (e.g. 4U50UN) should go to WB8LFO. The use of W8CZN was a



maildrop only.

### *Greenstamps ahoy!*

Here is the latest on QSLing costs as I have them. Please let me know if there are other countries that now take more than \$1 US for an airmail return ....

Germany - \$3 US for airmail; \$2 US for surface mail

Japan - \$2 US for airmail

India - Foreign currency forbidden. Use IRCs.

### *Mt. Athos, SV/A ... in or out?*

The DX Advisory Committee vote on the status of Mt. Athos as a DXCC country has been postponed until February. According to The DX Bulletin there are three choices: do nothing; delete; or remove. A removal would delete all credits, past and present. It would be as if it had never been a DXCC country. Deletion would simply eliminate any future credits.

"The reason for the vote", according to Chod Harris in The DX Bulletin, "is that this Holy Community has never lived up to its original agreement to provide access to all radio amateurs."

### *Austria can use OEM in '96 ...*

Special Bulletin 66

From ARRL Headquarters

Newington CT November 3, 1995

To all radio amateurs

The Republic of Austria will celebrate its millennium -- its 1000-year anniversary -- in 1996, by authorizing special call sign prefixes for radio amateurs.

At the request of the Austrian Amateur Radio society, OVSV, the Austrian communication authorities will permit Austrian amateurs to use the prefix OEM for the entire year 1996, OVSV President Dr. Eisenwagner Ronald, OE3REB, said. Use of the prefixes will be voluntary. As an example, OE1XA may be changed to OEM1XA.

OVSV will sponsor two on-the-air (and shortwave listener) operating awards in conjunction with the special prefixes. Details on these awards will be announced elsewhere.

### *Get'em in in '96 ...*

QSL manager Karl Leite, PS7KM, reports that logs for the following operations will be closed in 1997. Get your requests in to Karl this year or work it again!

Fernando de Noronha Is., PY0F: ZY0FK, FKL, FMC, FCM, FA, FCA, FMN, FRT, FZB, PY0FK and FA

Trindade Is., PY0T: ZY0TK, TC, TR, TF, TO and PY0TK.

St. Peter & Paul Rocks, PY0S: ZY0SS, SK, SP, SY SW, PY0SK and PY0SR.

Karl's address is Rua Estacio de Sa 1838, 59054-580 Natal, RN, Brazil

### **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. 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)

- CHRISTMAS IS., VK9. Joerg, DL8WPX, Dietmar, DL3DXX, Falk, DK7YY, and Juergen, DL7UFN will operate as VK9XY Feb 4-13 on all bands, 160-6m, CW and SSB. QSL to DK7NP. (TDXB)

- COCOS KEELING IS., VK9. This

same German crew will activate Cocos Keeling with the call VK9CR. The dates are Feb 14-23. They will again operate 160 through 6 meters, CW and SSB and also satellite. Particular attention will be given to the low bands. QSL to DK7NP. (TDXB and 425DXN)

- HEARD IS., VK0 - 96? See the letter from Anthony Deprato, Director of Operations, South Sandwich Island Antarctic DX Group, in this newsletter.

- KERMADEC IS., ZL8. Ron Wright, ZL1AMO, reports that he will not join the ZL group that will activate Kermadec in May 1996. The ZLs will be joined by WA3YVN and will operate as ZL8RI for 11 days in early May. The plans are for a multi-band, multi-mode operation designed to drive ZL8 way down from its 14th position on the 1995 Most-Wanted-List. (TDXB and 425DXN)

- LAOS, XW - Adri, PA3BWS, will leave January 16 for Laos to visit family. He 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, is reportedly now heading to 5R-land. He plans to stay in 5R-land for at least 6 months. His work will prevent him from getting on the air until sometime in February. He will try to be active on all bands. (TDXB, ARLDX and 425DXN)

- MARION IS., ZS8. QRZ-DX reports several sources report that an HF licensed Amateur is supposed to activate ZS8MI in March 1996. (QRZ)

- MONACO, 3A. Luc, I1YRL, will be operating from here as 3A/I1YRL during January, February and March. He will also be active from Geneva as 4U1ITU

during this time period. QSL via ILYRL.

- NORTH KOREA, P5 - Early 96?
- SAN FELIX, CE0. Possible activity during 1996 by CE3HJB and CE3CDV. (425DXN and ARLDX)
- SOUTH COOK IS., ZK1DI via DK1RV.
- 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 Reflector)

#### *What about the 5A operation?*

Dan Whitsett sent the following out on the Internet DX Reflector on 18 January.

"A message just out on the DX Reflector about someone receiving their 5A1A QSL card is most likely going to cause some concern. (My telephone is going to ring off the hook. I hope this explanation will keep that from happening).

I'd like to remind everyone that "getting the QSL" is not the problem. The "problem" is getting the DXCC Desk to accept the operation! I could get W4MPY to print 35,000 cards and send everyone theirs but until it's approved, they'd be worthless. And as you know, I've promised to return all donations if the operation was not approved. Your getting an unapproved QSL would not free me of my personal promise.

UT3UY, leader of the operation, is under a big emotional and financial strain, having to work on this almost every day. No one doubts that the Ukrainians were there, nor that they had permission since it was arranged by the Ukrainian International Youth League and Ministries of Libya.

I have in my possession, as does the League, an official letter from Libya stating that the Ukrainians had permission and that THEY were the operators during the period July 13-22, 1995 at the club station 5A1A. The Libyans don't need anything from themselves to approve

themselves and since the USA decided just two weeks ago to extend total sanctions against Libya, it is not likely that President Khaddafi is going to come over here to verify their permission.

The League is trying to be 100% safe and they can approve it or disapprove it at their discretion. The International Youth League has started communications with K1ZZ, Executive Vice President of the ARRL, as they feel this is possibly damaging to the image of the Ukraine, and just this morning they have received some new information from Libya. Hopefully, this will be what is needed.

The League officers are out of the office this week for a League Board Meeting but hopefully next week the situation will be much brighter. Watch the DX Bulletins next week for additional information."

#### **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*. This month we'll review ...

#### *QRZ-DX.*

For years *QRZ-DX* and Bob Winn, W5KNE were synonymous. Bob published this DX weekly for years and years. *QRZ-DZ* is now under new ownership. Carl Smith, N4AA and wife Miriam, KB4C, bought the publication about one year ago. Soon after the purchase Miriam Smith died unexpectedly and Carl's son Rodney, KB4CMG, stepped in as Production and Circulation

Assistant.

*QRZ-DZ* is a 4-page weekly publication (11x17 inch folded). Its front page is devoted to significant DXpeditions and operations. Page 2 contains IOTA NEWS, PROPAGATION and DX-TRA's (small DX info "bites"). Page 3 is the heard/worked info database, 160m through 10m. Page 4 contains the CALENDAR (a calendar list of significant operations and events), QSL ROUTES & INFO and ADDRESSES.

Carl and Rodney publish 50 issues per year for \$37.00. You may subscribe for 6 months (25 issues) for \$20.00. The *QRZ-DZ* address is POB 16522, Asheville, NC 28816-6522. Their phone/fax is 704.683.0709. Carl's email address is N4AA@aol.com. Their info deadline is Monday at 2200Z.

#### **We now have an Assistant NCS!**

I am happy to announce that Robert Gillespie, WB5KJE, in Atoka, OK has volunteered to serve as our Assistant NCS for our Saturday morning net! Thanks Robert!

#### **A low band antenna ...**

by Jim Hood, WV5S

Being at a sunspot minimum means that some of the HF bands, e.g., 15 and 10m, are unusable for international communications. On the other hand the low HF bands are enhanced due to less geomagnetic disturbance, e.g., 40, 80 and 160m. One of the challenges associated with these lower frequencies is the length of a resonant antenna! One possible solution for the average lot is the Inverted L.

The Inverted L is simply a 1/4 wavelength of wire connected to the inner conductor of your coax then run vertically up your tower and out to some other support such as a tree. The shield of your coax is connected to a set of radials at least 1/8 wavelength each placed on the ground. The more radials the better but 4 will do in a pinch. Use PVC pipe or some other insulator to hold the vertical part of the antenna out away from your tower or support.

I used this antenna recently in Mexico and

made over 400 contacts in 47 states in 8 hours running 500 watts on 160m. The highest point was only 30 feet high and the radials had to be bent around because of lack of space.

Cut the driven element a little long and trim back for minimum SWR. Cut the radials at 1/2 as long as the driven element; no trimming is necessary and any kind of wire will do. For 40m start with about 35 feet. Use about 67 feet for 75m phone. On 80m CW use about 71 feet and on 160m use 138 feet.

One must be careful to avoid the coupling which can occur between nearby 80 or 160m antennas. This will degrade the performance. One way to prevent coupling is to cut the 160 Inverted L to about 165 feet and then use a capacitor of about 450 pfd in series with the driven element.

In a pinch, you can even bend the driven element. The higher the better of course and the more radials the better. You may find that elevating the feed point and the radials to about 10 feet off the ground will also enhance the performance. Details may be found in the ARRL Handbook and the ARRL Antenna Book. Good luck!

Next month, balloon verticals ... or how to confirm your neighbor's suspicions that you are totally insane!

#### **EARS to join OKDXA!**

The Edmond Amateur Radio Society has voted to join the OKDXA! EARS President Richard Winnard, KJ5QU, reported that the EARS membership unanimously voted to join the OKDXA at their January 10 meeting. EARS presently has 125 members. They will join using their club callsign KC5ORP and will print the OKDXA callsign on their club QSL cards. Welcome EARS!

#### **Welcome new member(s) ...**

Sam Leslie, W5AG  
4139 Dietz Farm Circle NW  
Albuquerque, NM 87107

#### **Remember Reinhard?**

Remember the article in the December OKDXA newsletter from Dave Land, KD5FX, telling about how Reinhard Maute, DF4TD, hand delivered a QSL to

Dave in Ponca City? At the end of the story Reinhard was heading west to the Denver area to hand-deliver more cards and to see the sites.

Well, Dave got a card from Reinhard just before Christmas announcing that while in Denver he had earned his U. S. Extra Class license! Reinhard is now AC5FL. On his way west he visited and enjoyed the Alabaster Caverns in Woodward County and he had a good visit with Mike Morgan, N5LPZ, in Aurora, CO, a good friend of both KD5FX and N5OGP. Reinhard's "home base" while in the U. S. is Angleton, TX.

#### **What's in a name?**

Hey there all you "deep thinkers"! Relay your ideas for a newsletter name to Editor N5OGP and win an OKDXA cap or Tee-shirt. I haven't run the prize idea past the Board but if I advertise it enough they'll think someone else approved it!

#### **Weirdest Antenna story ...**

I was fascinated by the January 1996 QST article (p. 61) entitled *Radical Radiators and Weird Wires*. It detailed one man's experience at getting on the air with whatever was available ... be it a metal bunk bed frame or using zip cord as coax!

So we're also putting out a call for the weirdest antenna you have ever used to contact a DX station. Now, I understand that *weird* is relative. Some folks think putting sugar in your chili is weird but I've eaten sweet chili for 45 years and you know I'm not weird. (No comments from you, NJ1V!)

Here are the *Weirdest Antenna Contest* rules: 1) You had to make the contact but it need not have been your antenna or station and; 2) the station contacted had to be DX (outside of whatever DXCC Country you were in at the time).

Come'on now ... I know there are some good stories out there. Take the time to send them in. Thanks! And what is the prize for this contest? You'll get the immense pleasure of seeing your story in print ... and in the newsletter of such an illustrious organization too!

#### **Attention Web Weenies!**

Rod Dinkins, AC6V, supplies has found

the following Ham Radio oriented "web sites". He disclaims that this certainly is not a comprehensive list but some of the most useful.

- Jersey HF/VHF/UHF Page  
<http://user.itl.net/~equinox/>
- VE7TCP's Page  
<http://ve7tcp.ampr.org/>
- 425 DX News from Italy  
<http://www-dx.deis.unibo.it/htdx/index.html>
- QSL Search  
<http://promet12.cineca.it/htlzh/search.html>
- ARRL DX Newsletter  
<http://www.accessone.com/~vbook/arld.txt>
- Ohio/Penn DX Newsletter  
<http://www.accessone.com/~vbook/ohio.txt>
- DX Newsletter from Germany  
<http://cpcug.org/user/wfeidt/Dxnl/dxnl974.html>
- Very nice DXCC Country list in Netscape format  
<http://cpcug.org/user/wfeidt/Dxcc/>
- Prefix/Country lists, ITU countries, Zones, Russian Oblasts, County Hunters, and etc.  
[http://www.systemtechnik.tu-ilmenau.de/ham/ham\\_list.html#lists](http://www.systemtechnik.tu-ilmenau.de/ham/ham_list.html#lists)
- Buckmaster Worldwide QSL Database (also finds lat/long and grid squares)  
[http://www.buck.com/cgi-bin/do\\_hamcall](http://www.buck.com/cgi-bin/do_hamcall)
- NG3K WWW Page - for Contesters and DXers  
<http://cpcug.org/user/wfeidt/Dxcc/>
- CQ Magazine Contest Page  
<http://www.access.digex.net/~cqmag/cqtest.html>
- National Contest Journal  
<http://www.waterw.com/~ncj/>
- OH2BUA DX Spots and WWW Info from DX Packet Clusters  
<http://www.clinet.fi/~jukka/webcluster.html>
- The IOTA List  
[http://www.systemtechnik.tu-ilmenau.de/ham/ham\\_iota.html](http://www.systemtechnik.tu-ilmenau.de/ham/ham_iota.html)
- Licensing abroad  
<http://www.clinet.fi/~jukka/license.html>
- MUF/LUF Propagation form ... you enter data and get MUF  
<http://itre.unccs.edu/radiio/mufluf.html>
- Ham Radio Mailing List subscribe form ... for contests, DX reflectors, etc. Subscribe right-on-line forms.  
<http://www.cam.org/~dino/hamlists.html>

- FCC forms ... download that needed form right off the web  
<http://www.fcc.gov/Forms/index.html>
- FCC Home Page  
<http://www.fcc.gov/>
- ARRL Home Page  
<http://www.arrl.org/>
- ARRL Section/Canada Section abbreviations  
<http://bookworm.sdsu.edu/sections.html>
- Radio manufacturer list  
<http://pages.ripco.com.8080/~aclr/email.htm>
- Emergency page ... quakes, volcanos, bad wx, great maps and satellite views  
<http://www.accessone.com/~vbook/emerg.ht>
- Maps and facts of that island you worked  
<http://odci.gov/cia/publications/95fact/index.html>
- Ham Radio mods  
<http://oak.oakland.edu/pub/hamradio/mods/>
- TAPR Packet Radio page  
<http://www.tapr.org/tapr/html/pkthome.html>
- FCC Radio Interference Handbook  
<http://www.fcc.gov/Bureaus/Compliance/WWW/tvibook.html>

#### Meet the Sysops ...

No submission available this month.

#### 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".

#### Green Country Hamfest ...

The Green Country (Tulsa) hamfest will move to March this year. The dates are March 23 and 24. The OKDXA will have tables in the fleamarket and we'll have a business meeting. Hopefully we'll have all the details of the hamfest in next month's newsletter.

#### Current Email Directory ...

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 at ...

[mark.e.byard@conoco.dupont.com](mailto:mark.e.byard@conoco.dupont.com)

I'll compile them and periodically run the list. Thanks!

#### Kudos column ...

• Congratulations go out to Toni Winnard, KK5LH on her 1995 efforts to increase her DXCC Country count. Toni, and husband Richard, KJ5QU, joined the OKDXA in early 1995 and at that time she only had 2 DXCC countries. She now has 23! Toni credits much of her success to the DX Packet Cluster sysoped first by NJ1V and now by AB5I. Congrats Toni.

Toni was quick to acknowledge that a 23 country-count was not significant in comparison to some of the accomplishments of other OKDXA members. But her genuine humility brings up an important point, and that is this: the OKDXA is for DXers of every level and aspiration. Those people in life who act like their accomplishments and talents elevate them above the "commoners and the novices" are the real losers. I'm glad the OKDXA has folks like Toni and Richard!

• Congrats to Ken Case, K5KC on topping his "100 worked" on 80/75m. Now the REAL struggle begins ... getting the QSLs! Right, Ken?

#### 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.

#### Who is that masked man?

OKDXA member Vince Thompson, K5VT, graced the January cover of CQ magazine. Vince has been party to many DXpeditions, many of them in Most-Wanted-Countries.

#### Contest column coming soon ...

OKDXA Contest Director Coy Day, N5OK, will be starting a monthly column on contesting and contest activities as soon as he and Judy get moved to Union City. Thanks Coy.

#### Our sympathies ...

Coy and Judy Day lost her dad in mid-January after a 12 year struggle with emphysema. This comes after Judy's mother passed quite unexpectedly last summer. We take this written opportunity to express our condolences to Coy, Judy and her family.

#### Play it again Sam ...

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

#### 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, has volunteered to serve as Assistant NCS. Join us with your DX info, your DX questions or just a "hello"!

#### CHECK-INS

Dec 30 - 19  
Jan 6 - 16  
Jan 13 - 9 (vry poor prop. condx.)  
Jan 20 - 13

Your NCS will be supplying net statistics to ARRL OK Section Traffic Manager Steve Talley, KB5VXB in Durant, for his monthly report to the ARRL.

#### CU next month ...

73 de N5OGP sk

## SEVERE WEATHER AND AMATEUR RADIO

Amateur radio operators have served a key role in National Weather Service (NWS) severe weather warning operations in much of the nation for many years. Most NWS forecast offices, at least those east of the Rockies, have some type of HAM radio base station that is staffed by volunteer operators during severe storm and flash flood events. Many NWS forecasters can cite numerous occasions when a timely report from a HAM added precious minutes to the lead time of a severe thunderstorm or tornado warning, or even formed the basis for a warning, especially in the days of conventional radar systems.

In recent years, there has been a resurgence of amateur radio activity during severe weather events in Central Oklahoma, thanks to the efforts of many amateurs in the area.

Deployment of the WSR-88D (NEXRAD) radar's and restructuring of the National Weather Service began in Oklahoma in 1991. The state was partitioned into three forecast and warning areas served by forecast offices at Amarillo, Norman, and Tulsa. The Norman Forecast Office also assumed responsibility for eight counties in North Texas in 1993, and amateur radio links were needed to communicate with spotter groups in the Wichita Falls area. The Southwest Independent Repeater Association (SWIRA) was

formed to link spotter nets in North Texas and Southwest Oklahoma with amateur operators at the NWS Forecast Office in Norman.

The southwest link to the NWS uses the KB5LLI repeater at Cyril on 147.045 Mhz and its full-time link to the N5VIN repeater at Grandfield on 147.255 Mhz to communicate with liaison operators from weather nets across Southwest Oklahoma and western sections of North Texas.

In the spring of 1995, amateurs from Central and Southern Oklahoma completed a link between the N5VYC repeater in Oklahoma City on 145.210 Mhz with the N5ZHC repeater on 145.230 Mhz and the KB5CEN repeater on 444.775 Mhz at Sulphur. Later in the spring of 1995, a link to Perry, Oklahoma was established from the 442.925 Mhz repeater (with a 79.7 Hz PL) near Perry to the 145.210 machine in Oklahoma City. Using this link system along the Interstate 35 corridor, spotter net liaisons from the Kansas line to the Red River can communicate with amateurs at the Norman Forecast Office. Operators from the Tonkawa / Blackwell area to Ardmore, Davis, Ada, and Madill are already making use of this new link system. The Central Oklahoma backup for 145.210 is the K5JL repeater on 147.210 Mhz.

The net liaison concept has proven to be a very efficient method of operating. This system provides access to the NWS forecast office for amateur radio and city / county radio nets through the amateur net liaison operator. Net liaisons and net

operators can listen for updates from the NWS on the link frequency, while net liaisons can "filter" traffic on their nets for transmission to the NWS. The liaison system also keeps the radios at the NWS Forecast Office at a manageable number and assures that volunteers at the NWS will remain on the link frequency without switching among the various net frequencies.

As we approach the 1996 severe weather season, listen in on 145.210 in Central Oklahoma, or 147.045 to the southwest, or to the links connected to these two primary frequencies. During the peak severe weather season, from around March 15 to June 15, thunderstorm outlooks are provided each day around 7:30 a.m. and 12:30 p.m. on both link systems. If you are part of a weather net, consider adding a liaison operator to your net for coordination with the NWS in Norman.

For more information on amateur radio operations during severe weather events in Oklahoma, contact Jim Purpura (KB5YHT) or Dennis McCarthy (KC5EVH) at the Norman Forecast Office. Phone 405-360-5928, or try the 147.060, 147.045, or 145.210 repeaters. Jim and Dennis should also be able to find information for the Tulsa and Amarillo areas, and for some of the other surrounding NWS areas of responsibility. You can also reach us on packet radio. Our home BBS is K2GKK-4 on 145.05 Mhz. Our station ID is KB5YHT-2.

## Cryptoquote

by Forrest Rush, N5VWF

1. Saar  
KKRS
4. French India  
OSXNQL UZVUR
7. Tangier  
IRZCUPS

2. Sikkim  
KUNNUH
5. Portuguse Timor  
XBSIACAPKP IUHBS
8. Trieste  
ISUPKIP

3. Zanzibar  
GRGUJRS
6. Palestine  
XRFPKIUZP
9. Gold Coast  
CBFV QBRKI

## Necessity mothers spools of invention

by Huck Huckabee AA5BU

Amateur Radio often spawns inventive genius. An event in the Alps mountains late in WW-II will illustrate. I went to Europe late in the war with the U.S. Army's first microwave communications equipment - top secret stuff for transmitting scrambled telephone messages for General Ike and his forces.

One repeater station comprised four trailers, with four 10 kW power plants, two antenna trucks, four equipment vans, and a jeep-operated by a squad of 10 men. Each equipment van had about 275 electron tubes. To prevent excessive temperature rise, the vans had exhaust

fans. But no source of heat. That was fine for North Africa, But not for high in the Alps in winter. It was like trying to heat a country outhouse with a candle.

Among our equipment was twelve spools of Signal Corps field telephone wire. Each fifteen-inch-diameter spool contained one mile of wire. The resistance of the wire was 110 ohms. We moved all the spools into the operating vans, and connected the wire ends across the 120 volts AC from the generator. But, alas, it didn't work. The coiled wire had so much inductance that only a few milliamps of current flowed, producing little heating.

After much thought we tried sending current through the two wires of each pair in opposite directions. Presto! 400 watts per spool - more heat than what we needed! It was great coming in out of the

bitter cold and snow and sitting on those warm spools of wire. Twelve spools ate up half the out put of one of those generators. But who cared? We weren't cold anymore.

With that lesson, I learned another great truth: even meager resources often can become adequate, if you add a little ingenuity and persistence.

(By adding the question "Why did it work?" at the end you can turn this article into a good quiz question on physical aspects of inductance. -AF6S)

From the September '95 Austin (Texas) ARCs "AARC-Over"-Mickey McInnis, Editor (no callsign listed)

Article taken from the January, 1996 ARNS Bulletin.

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I _____	Call _____
NAME	
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Month and Year ending: _____ / _____	Date Paid: _____ / _____
YEAR/MONTH	YEAR/MONTH
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<input type="checkbox"/> \$7.00 for Individual Subscription to Collector and Emitter (Funds sent directly to C&E)	
Member's Signature _____	
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DROP	CHANGE-OLD ZIP/CALL _____

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## A LOOK INTO OUR PAST : October 1991

*The Collector and Emitter turns 21 years old this month as a CORA Publication. The following article was written by Joe, K5JB concerning the early beginnings of this newsletter. In the story the phrase, "... 199 copies..." is in reference to the number of months the C&E has been published, the number of issues. Today, we publish a monthly issue with an average printing of over 625 copies. The number of issues actually published may not add up today as they should. This sad fact is due to the turn over of records and the lack of them from the past editors since Joe Harding. Still we try and when a mistake is found, correct it. The issue you are reading now is number 252 Enjoy, NILPN*

### C&E, Reminiscing

At the VHF Club meeting, Joe, WA5ZNF, said that we had put out 199 copies of the C&E. I haven't been counting so I have to take his word for it. It set me to remembering "way back, when".

Prior to the CORA C&E, there was the Aeronautical Center ARC Collector and Emitter, published by Carl Drumeller, W5JJ. It was a high quality publication, done in half size (8 1/2 x 11 sheets folded, with a blue cover.) I have no idea how long Carl published the C&E, but it was an award winner and its quality was recognized by the commercial amateur radio publishers.

When Carl no longer felt he was up to the task of preparing the monthly publication, he offered the name, Collector and Emitter, to the newly formed CORA, to use for a proposed joint club newsletter. Joe, WA5ZNF, came along at precisely the right time.

Joe had earlier in his long career published a newspaper and knew the ins and outs of the business.

I had some writing and galley preparation experience, and there were other willing helpers. So we met on 'paste up night' to take the articles submitted by the clubs, prepare camera ready copy and leave it with Joe to shoot and make printing plates. Later, we met Joe at Gardner Payne in Midwest City at the Planet office building to print, collate, staple, label, and otherwise make the C&E ready for mailing. (I know I probably spelled Gardner Payne wrong---can't find reference in the phone directory for it.)

Bob Graham, WB5NSV, maintained our earliest mailing list on Addressograph plates. Bob was pretty clever with computers and had an idea he could manage the subscription list, using his Southwest Technical Products computer, keeping the address list on cassette tape, and using an old line printer at the ACARC to print the labels.

It was in this period I first consented to take the Secretary position of the VHF club. I consented because of the difficulty I had extracting the minutes out of the Secretary in time to compose a page for the club, heh!

My first submissions were typed on an "Old" Underwood electric that was originally a telegrapher's model. It had no lower case characters. It was certainly easy to spot my column in the C&E. I finally acquired an Apple computer and an IBM Selectric typewriter that had been modified by Tom, WA5TSJ, to have all the required solenoids to make it computer driven. I wrote a little program that took the text and formatted it in three columns printing all three of them across the 11 x17 page at once. Printing a typical column took about an hour, but that was the end of my "paste-up" experience.

For a period, we met at the Red Cross Headquarters to do the paste up. These were quite enjoyable social events, with all the chatter between the various club editors while work was progressing.

Joe was always pretty resourceful and made some good business recommendations that kept the C&E affordable in spite of rising costs. He arranged for a Second Class mailing permit, with all the bureaucracy that entails, kept all the necessary records together, and generally kept the C&E alive. When clubs failed to submit enough material to fill the minimum amount of pages, Joe found the filler material.

Later, Joe arranged for his son Owen to print the C&E, and with Frances' help, he attached mailing labels and bundled it for mailing. Only once do I remember in recent times having to help in the assembly process, and that was when Joe had his first heart flare up. Fred, W5NL, Bob, WB5NSV, and some others whom I have forgotten went to Joe's house and under Frances supervision, managed to get an issue out for him.

We've had a lot of fun together Joe! Thanks for the memories! Joe, K5JB



## January 28 to March 2, 1996 Schedule of Events:

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
28	29	30	31	1 7:00 p.m. Aeronautical Center 7:30 p.m. CARA	2	3 10:00 a.m. Ada ARC
4	5	6	7	8	9	10 9:30 a.m. SCARS 10:00 a.m. SCARS VE Exams
11 2:30 p.m. Wheatstraw	12	13	14	15	16	17 9:00 a.m. VE Exams (RSC) 11:00 a.m. VHF Club
18	19 6:00 p.m. CORA VE Exams	20 7:30 p.m. OCAPA 7:00 p.m. Shawnee VE Exams	21	22	23	24
25	26	27 7:30 p.m. CORA	28	29	1 C&E Deadline 	2



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