

SECOND CLASS MAIL  
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Number 195

## THE CANDY STORE by Joe Lynch, N6CL

Once upon a time there was a candy story. This candy store was owned by a very respectable gentleman. He opened up the candy store because he very much liked the people who liked the candy that he had to sell.

His story goes back a long time ago. You see, he had lived around these parts for a very long time and even grew up here. While he was growing up, he developed a taste for some of the finest candy.

So, after he was all grown up, he started a company that repaired cookie processors. He made lots and lots of money fixing these cookie processors. Because he traveled often for his company, he could buy any kind of candy he wanted wherever he wanted.

However, as time went by, some of his friends and fellow candy aficionados would tell him how disappointed they were that they had to go way out of state to find the kind of candy that they wanted.

Because he liked his friends very much and wanted them to be able to get the candy they liked, he got an idea. He would open up a candy store so all of his friends and their friends could buy their candy right in town. He kept his prices very low because he really liked his friends and he wanted his friends to have their favorite candy at the lowest possible price.

When he opened his candy store, he had to have help running the store. So, he hired some employees. He made one of the employees the manager. That employee was so happy with his new job and its new, higher pay (compared to his old job of putting washers and nuts on bolts) that he found a big house to move into. He moved from his tiny mobile home into the big house. In his big house he had lots of room for all of his family, including his children and parents.

Another employee, a young person, was very happy to have his first real job. He was engaged and his fiancée was very pleased that he had a steady job. Other employees had stories of their success to tell also. They were all very grateful to the owner of the candy store for giving them jobs that they really liked. They really liked these jobs because they could help make other people happy and they were doing something fun for a living.

Well, one day, a big bully came to town. He visited the candy store and saw that he could have lots and lots of candy after the store closed. So, this big bully waited until late at night, well after the store closed. Then, he took his big car and smashed in the store's front window. Over that night this big bully took lots and lots of candy.

When the candy store owner came to the

store the next day he saw the damage done by the big bully. He also saw evidence of the missing candy. He was very sad. However, he consoled himself knowing that other store owners in town had suffered the same fate. He was sad for them too. He reasoned that this must be part of the price of doing business.

Well, as time passed, the candy store owner sold more and more candy. He even gave away some of his candy to help some needy people in a foreign country. He also gave some candy to a local candy collection club so the members could sell it and use the money to help pay for a deserving college student's education.

He also put together a portable candy store and went around the state to where his friends would get together and have their meetings. This way he could get the candy to the people in other parts of the state who had some distance to travel to visit his store.

Then, a very sad thing happened. Some of the people who went to the candy store would start taking some of the candy without paying for it. This, too, made the candy store owner very sad. He thought to himself about how hard he had worked to open the candy store, how hard he had worked to become a dealer of some of the finest candy and how he was making so little money. The more he thought about it, the sadder he became. He just couldn't bring himself to be happy about his candy store very much anymore.

He thought to himself about how most people knew that stealing was bad. He could kind of understand people stealing from people they didn't know, like owners of big department stores, even though he thought that was bad also. However, he thought that these people were his friends, at least he thought they were.

Well, it finally happened. After putting the Collector and Emitter together for 195 issues, that's better than 16 years, I pulled a real "boner" last month.

I received Wheatstraws copy in plenty of time, set it to type, pasted it up along with Cimarrons copy and laid it aside. Then in the scuffle to get it all together that page must have been set aside somewhere - AND I FAILED TO GET IT TO THE PRINTER, so I am using last months copy along with this months copy. I hope I never do that again and I APOLOGIZE to the two clubs for not printing them, and ask your forgiveness.

Joe Harding, WA5ZNF

Finally, his thoughts turned to the possibility of closing the candy store. After all, since he kept his prices so low, he wasn't making very much money. Whenever someone stole some of the candy, that loss took away from the profit, since the candy store owner still had to pay the manufacturer for the candy.

Also, the candy store owner couldn't raise his prices too much higher, even if he wanted to, because of the big chain discount candy stores that were out of state. They were all to eager to get his business and they didn't care nearly as much for his friends around town and around the state as he did. They were also able to sell their candy back into his state cheaper because they didn't have to pay sales tax on their sales to out of state customers.

So, he started to hint around that unless the people who stole the candy would stop stealing it, he might just have to close the store. He knew that some of the people would be ashamed of what they had done. So, he suggested that if they wanted to pay for it, they could go to a money order store, buy a money order, and send it to him anonymously. He tried everything he could to make people feel comfortable with being honest once again.

At this point, since this is a made up story, it has two possible endings. Here follows are the two endings.

### Ending number one:

Well, after the word got out that people had been stealing candy, other people thought that it was a fun idea. So, they started stealing too. So many more people were stealing that the candy store actually started losing money. To keep from losing money, the owner had to let one of the employees go. That made it even easier for people to steal because there were less employees to watch the customers. Matters only got worse.

Finally, he could stand it no more. He gathered his remaining employees together and told them the bad news. He was going to close the store. Everyone was very sad, but they knew there wasn't anything else that could be done.

Within a month the store closed. All the remaining candy was sold at a huge loss to one of the chain discount stores and all the employees were let go.

Well, times were tough and the manager had to go back to his old low paying job of putting washers and nuts on bolts. He could no longer afford his big house. So, he had to move his family back into a small mobile home.

The young single employee had to postpone his marriage plans because he had to go very far away to find any sort of work. This whole set of events made him very sad.

Continued on Page 2

## THE CANDY STORE CONTINUED

for two reasons. One, he was quite new into the hobby of collecting fine candy. He too, had made lots of friends in the hobby. When he saw how these friends had treated his boss he was very hurt. Two, even though he did find a job far away, he was sad because he missed his family and fiancée very much.

The candy store owner retired to the country to live on a big hill all by himself. He put up a big iron fence so no one could come in and steal from him anymore. And no one ever heard or said anything much about him ever again.

### Ending number two:

Well, after the word got out that people had been stealing candy, some wonderful events started happening. When the state wide leader of a national organization of candy collectors heard about the candy store owner's dilemma he wrote an article and submitted it to the prominent news letter, the "Collector and Sender." Being very moved by the article, the editor of the "Collector and Sender" put it on the front page of the very next edition.

The state wide leader also sent letters to all the presidents of all the candy collecting clubs around the state, enclosing a copy of the article he sent to the "Collector and Sender."

Slowly, events started to change. Some money orders started to show up in the mail. One morning when the owner came to work he found a pile of candy at the door with a note. The note stated that the candy was from one who had stolen and would steal no more. Some of the people who knew people who had stolen some of the candy put pressure on their friends to either return the candy or pay for it.

As regular customers became aware of the problem, they became sensitive to what they could do. When they were in the store, they would be careful not to distract the employees with endless renditions of their favorite candy stories. They also went out of their way to greet strangers in the store. They had heard that strangers that were up to no good did not like to be noticed.

Gradually, the stealing diminished until it almost went away. The candy store owner's faith in his friends, the customers was restored. Eventually, the candy store owner opened additional candy stores that made even more candy aficionados very happy as well. The owner even made so much money that he was able to set up a continuing scholarship fund for promising students from low income families.

The manager raised his children in his big home and eventually put them through college. The young employee who was engaged soon married. The couple had some lovely children these children turned out to be great candy aficionados themselves.

After many years of prosperity, the candy store owner sold his store to a partnership formed by the manager and the young employee. They, in turn, continued to run the candy store in a way that pleased the former owner and the customers.

The former owner eventually retired to his home on a hill in the country. Because he appreciated his friends for their kindness over the years, he made it know that his door to his

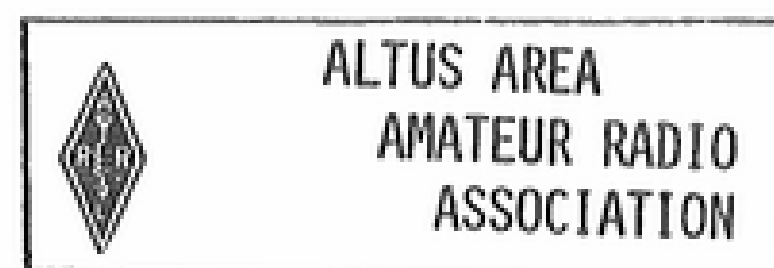


## LATEST O.C.A.P.A. HAPPENINGS

A lot of things have happened in a month or so, and to let everyone out there know, I thought I would take a minute or two and pass these things on to you. Robert went to Lawton and passed his general code test, so now he's gonna try a little harder and do his best to pass the theory part on the next go round so on 40 and 75 meter sideband he can be found. But Lee didn't make it to the last Monday's code test and old Chuck had painfully done his best to prepare a test specifically for him so he could pass it without nary a whim. Leonard has been busy with the weather net to keep us all from getting soaking wet, and speaking of Leonard, he can only wish he could be like Chuck and catch a big fish. Ron didn't make the last meeting as all could see, because he stayed home and planted a tree. Old Dave has a daughter who's a senior this year so he goes out and buys a car for the sweet little dear. It seems Tom's antenna is only a dummy load according to B.R. while out on the road. George has been making all sorts of racket with his dx cluster he has on packet and he and Vicki sure picked a winner when they chose Catfish Cabin as a place for dinner. I have a new Blue Jay antenna from Dr. Goodhead and thank goodness he didn't paint it green or red, for I don't think I have ever seen, a Jay that was colored red or green. I don't have it up in the air yet, but one thing I would certainly bet that I can work stations far and near and probably some that others can't hear. Did you hear about Henry Israel's good luck, he knew the combination and won \$1500 bucks, and I guess Hank finally met his fate cause he went out and found a new mate and he bought her a new house and all those things to go with those new gold wedding rings. He couldn't let Mac have all the luck so he goes out and buys a new pickup truck and one of the first things he does by gee is plant that bugcatcher in the back for all to see. And then there's Mikey, DDB, who just

home was always opened to them. Many wonderful comments were made about him for many years after his retirement.

I have a friend who is has a similar story. He is facing an ending to it similar to one of the two endings to this story. My friend is also very sad. I hope that we can cheer him up by choosing the right ending to his story.



### New AAARA officers are:

PR Loren Simms, WA5CBF, No VP, S/T Jim Molledahl, EDITOR Jim Molledahl.

Two VE sessions were conducted at the North Main Fire Station this year. One on 12 January and another one on 13 April. 2 upgraded. The next VE test session will be conducted Saturday 13 July at 12:30 pm at the North Main Fire station in Altus Ok. For further information contact Loren Simms, WA5CBF.

Increasing rates for CORA C&E were discussed, and tabled until December. At that time we will decide whether or not to increase our dues, and how much. We have also observed a significant increase in the P.O. Box rental fee.

Charlie Woodworth (405) 482-4298 is selling a tower w/base, rotator, and a 3 element beam (20-15-10). He's asking \$400. Contact him for details.

**FREE ADMISSION!!** The Ozark Hamfest, Saturday May 11, 8:00, Springdale AR. Talk-in on 146.76 (-600)

loves to kill his neighbor's tree and he wants everyone to know that he is purposely being very slow in paying his latest OCAPA dues and he wants me to spread the news he now belongs to the Freeloader's club and can give the other members a snub. Jim is trying to find someone to say they will be in charge of this year's Field Day. Poor old John has been looking far and wide to find a home for him and his bride so he can move out of the apartment complex and put up an antenna to work dx. It's been kinda nice and sort of relieving, to go for a week without any heavy breathing and more than likely, believe it or not, no one has been told their mike is too hot. As one can see this isn't the I Heard Column cuz I just didn't think I had the volume but maybe this nonsense will fill the need and give some folks something to read.

K5NK

**FOR SALE:** Kenwood TS520, built-in a.c. & d.c. power supplies, c.w filter, microphone, spare set of new 6146 finals in the box. Excellent condition. Chuck, K5NK. 947-1818 Office, 721-4926 Home.

Boss: I thought you told me you missed work yesterday because you were sick.

Mike: That's right.

Boss: You didn't look very sick when I saw you at the racetrack!

Mike: Well, you should have seen me after the fourth race!

1. AERONAUTICAL CENTER ARC Meets: First Thursday, Flight Standards Building, FAA, South MacArthur 7:30 pm. PR Doug Teachman, W0DXA 392-5458 S/T Ted Anderson, NY5W 685-4016 AsVP Harold Todd, WA5VAQ 685-3685 Asvp Charlie Greene, WA5JGU 943-5631 Editor: Jack WB5SUN	11. EDMOND AR SOCIETY Meets: Odd Months, 3rd Sunday, 2:00 pm, Edmond EOC; Dinner, Even Months, 3rd Friday PR Tommie Gulin, KA5WAV 341-3886 VP Mike Delaney, KB5HXT 341-7847 SE Jim Richardson, N5OHL 524-0456 TR Aldon Sage, KB5LIC 341-8978 Editor: Mike Delaney, KB5HXT 341-7847
2. CENTRAL OKLAHOMA VHF Meets: 11:00 am, 3rd Sat., Favorite's Cafe, 3701 S. Western, OKC PR Jack Muse, WB5ZKZ 691-1152 VP Fred Boardman, W5NL 427-2505 SE Joe Buswell, K5JB 732-0676 TR Ellard Foster, W5KE 789-6702 Editor: Joe Buswell, K5JB 732-0676	13. KAY COUNTY ARC Meets: 7:00 pm, Thrd Thursday, Sep-May, Pioneer Vo-Tech, Ponca City, OK PR John Spoon, WB5YSX VP Marsh Pronneke, WA5UB S/T Gary Robison, WB5WMD 765-9727 Editor: Dave Land, KD5FX 762-8616
3. MID-OKLAHOMA REPEATER, INC. Meets: First Tuesday, 6:30 pm social, 7:30 meeting, Skyline Cafe, 1631 S.E. 15th PR Steve Comman, KB5CDF VP Jim Buswell, N5BEQ SE Robert Moose, N5GKI 843-6438 TR Toy Graham, N5QOK 632-0225 Editor: Stewart Holly, KD5DL 737-3700	14. CIMMARON ARS Meets: 7:30 pm, second Thurs., WX5Y Playhouse 827 S. 13, Fairview PR Curt Briggs, N5RHO (405) 227-4641 VP Terry McCall, N5MLT (405) 227-3672 SE Dennis Painton, WK5V (405) 764-3599 TR Nadine Painton, N5FMH (405) 764-3599 Editor: Jack Day, NN5Z (405) 227-3462
4. OK CITY AUTOPATCH Meets: 7:30 pm, third Tuesday, Salvation Army, N.W. 50th & Penn. PR Jim Bartlett, KA5PSF 359-1299 VP Baron Bieber, N5PQK 557-1664 SE Ken Goddard, WA5DTL 946-4973 TR Mac Macdonald, K2GKK 672-4947 Editor: Baron Bieber, N5PQK 557-1664	15. SOUTH CANADIAN ARS Meets: 9:30 am, Second Saturday, Red Cross Bldg., North OU Campus, Norman PR Dorinda Skaggs, N5IUA 799-5363 VP Steve Wolfe, N18W 329-0203 TR Charles McCown, WB5UUX SE Ken Brown, N5KUK Editor: Ken Brown, N5KUK
5. OKLA UNIVERSITY ARC Meets: 7:30 pm, Second Tuesday (Sep-May) 119 Wilson Center, 1334 S. Jenkins PR Frank Donaldson, N5IQJ 329-4172 VP John Wustenberg, KE5N 325-2382 S/T Jim Greenshields, WD5HPU 321-9981 Editor:	16. EDMOND AR CLUB Meets: 7:00 pm, Second Monday, Various locations. PR Mark Northcutt, WD5DYI 755-4672 VP Wendell Cochran, WB5ISO 943-4308 S/T Kay Northcutt, WD5DYJ 755-4672 Trustee: Dennis Orcut, WB5ISN 340-0034
6. ALTUS ASSOCIATION Meets: 7:30 pm, Second Thursday, North Main Fire Station, (CD) Altus PR Loren Simms, WA5CBF 477-0921 VP None S/T Jim Molledahl, KB5LS 482-5308 Editor: Jim Molledahl, KB5LS 482-5308	18. GREAT PLAINS ARC Meets: 2:15 pm, First Sunday, Home of N5LRR, 2914 Osage Drive, Woodward PR Bob Bayles, WB0GAX, Woodward 254-3561 VP Andy Taylor, N5LRR, Woodward 256-4017 SE Rod Ford, WB5OVT, Gage 923-7683 TR Freida Patterson, N5EOX, Woodward 256-2111 Editor: Phillip Perry, N5QCN 938-2453
7. BICENTENNIAL (76er) ARC Meets: 7:30 pm Second Tues., 1801 N. Lincoln Blvd., Parking in Rear PR Hank Stokes, KB5XM 376-1067 VP Chad Drewery, N5QIQ TR Bill Skipper, KB5BS 392-4612 SE Jack Conley, AA5VU Editor: Not Filled	20. CENTRAL OK COMPUTER ORG. Meets: Second Saturday, 12 Noon, Oscar Rose College, Midwest City PR Don Fox 733-8480 VP Patrick Roberts, KA5ZYM 681-5220 S/T Martin Schiel Editor:
9. WHEATSTRAW ARC Meets: 2:30 pm Second Sunday, Location Varies, see Club Section for Details PR Edgar Engbrecht, WO5B, Okarche 263-4411 VP Neal Kappus, N5KCO, El Reno 262-1551 S/T Joe Garland, WA5FLT, Calumet 893-2660 Editor: Ralph Wilder, WZ5PFK, Watonga 623-5421	CENTRAL OKLA RADIO AMATEURS Meets: 7:30 pm, Fourth Tuesday, Salvation Army, Penn & NW Highway, OKC, (Back Door) PR Frank Tassone, AA5GI 341-1124 VP Dorinda Skaggs, N5IUA 799-5363 SE Jim Buswell, N5BEQ TR Tom Mangham, K5LDI 677-5291 Editor:
10. Oklahoma DX Association Meets: Quarterly - Hamfests, DX Net Saturdays - 1600 UTC-7.195 MHZ, Box 88, Wellston, 74881 PR George W. Adkins, AD1S VP Darrell Reed, KF5DA SE Paul Harrop, WB5NDN TR Paul Wardell, N5PYD Editor: George W. Adkins, AD1S 356-4101	Vol 17 May 1991 No. 195

**PLEASE help us** keep your information up to date. What time, where, when, who are your officers, editors, and their phone #. Check YOUR entry, it can be changed.

If there appears to be a mistake - check with your club official. We can't do anything about it. Below is a sample label.

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The "4" means Autopatch Club, 90/01 means he is overdue. The "2" is for postal rates.

Dear Subscriber:

If your address label has a SAD FACE it means that you are due to renew your subscription or your club dues and you will continue to get the C&E for three months then, sorry but post office rules say that we must cancel you until you pay up.

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this will be your last C&E until you renew.

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When you want a change of any sort to your membership just remember...fill out a slip (COMPLETELY). Watch for the DATE you received their money and the date subscription expires. Have your slips, or list of deletions, to me by the 22 of each month. If there is anything about C&E subscriptions that you need to know get in contact with:

Joe Harding, 9211 N Council #216. OKC OK 73132, Telephone 720-1019

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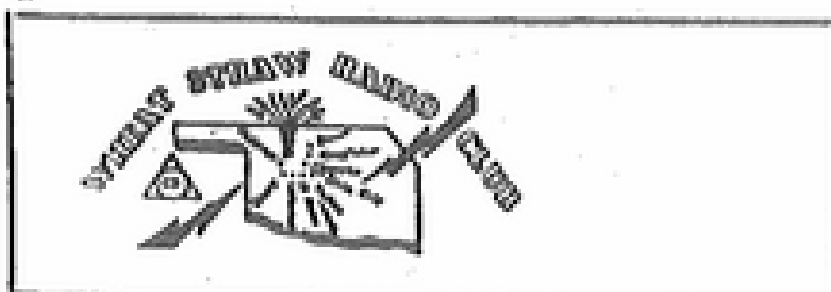
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March meeting was held in El Reno at the Community Center. 36 attended with no visitors.

Ralph WA5PFFK talked to the club about the repeater. It has only been down one time he recalled for the Wednesday Night Net. That was several years back and the net had to go to a different frequency. Ralph also felt the club should compensate Johnnie K5GBN and George K5GGL for the fine work of keeping the repeater on the air. Ted WD5JNT made a motion that the club pay their club and ARRL yearly dues. Motion was seconded by Leo WZ5H. Motion carried.

Congratulations go to Carl WA7AZO of Hennessey for his upgrade to EXTRA class. Stu K5DSR near Mullhall for his upgrade to Advance class. Stu has also passed his 20 WPM code test.

Field day equipment and location was talked about. The first thing on equipment. A generator had a dead magneto. We need a little short guy in El Reno to feel better and have some spare time. Ed WO5B will help him. On location Tom N5IKN made a motion that the president appoint a committee to study and decide on a location. Those appointed were: Tom N5IKN, George K5GGL and Ralph WA5PFFK.

ALL AMATEURS, don't forget to write your CONGRESSMAN asking him to support the house bill, HB-73.

Some of our members were not feeling good Sunday. We wish them all a speedy recovery. Betty KG5JB, Ann Peil, Ted WD5JNT and George K5GGL had a bad cold--hanging on. This seems to be a bad time of year for colds and a sore throat.

Leo WZ5H has started another Novice class. He has 11 students. That is a good size class. I hope they all stay in there, pass and continue to up grade. To me it is a great privilege to be a radio amateur, it brings lots of joy, especially in later years when you have more spare time.

The April meeting has been moved up to the seventh so we can have our monthly meeting on the way up. Earlier the club voted to attend the Mooreland Eyeball QSO again this year. The time of leaving, where we start from - there was nothing said and I forgot to ask. You may always drop in on 146.61 each Wednesday night for any information. Visitors are always welcome.

Meeting adjourned for refreshments. All were deliciously home made. It seem the ladies out-do themselves all the time. Thanks to all Wheatstraw ladies.

## CIMARRON

"Spring has sprung...the grass has riz...I wonder where the boidies is!! With a 60° temp and a half inch of rain, a youths thoughts may turn to thoughts of love...but at my time of life, my thoughts naturally turn to my garden, and to the thoughts of natural disasters and the parts that good Hams may play in times of tornado, fire and flood.

WX nets, the Disaster Relief Communications need to be ready...Civil Defense and Emergency groups such as RACES and ARES need to tighten up those lines of communication.

Churches need to organize Disaster Committees so that if there is a need for mass feeding or temporary housing they could play their part.

It is never "IF" a disaster will happen...only "WHEN" it will happen, and the Scouts Motto..."BE PREPARED" is not a bad policy.

CARA's March 14th meeting, chaired by

### PINEAPPLE ANGEL DELIGHT

A favorite recipe published in the Pritchett Cook Book in 1968. By Goldie Wilder.

1 envelope Knox plain gelatin. ½ cup of cold water. ½ cup of boiling water. ¾ cup of sugar. 4 cups Angel Food cake pieces. 1 large box of DreamWhip (2 envelopes). 1 cop of crushed pineapple.

Dissolve gelatin in cold water, let stand 5 minutes, then stir in boiling water, add sugar and crushed pineapple. Let stand until congealed. Whip DreamWhip until stiff, fold into pineapple mixture. Slice and break Angel Food cake into small, bitesize pieces into an 8x12 inch baking dish. Using 2 cups per layer, cover with ½ of pineapple mixture. Add second layer of cake pieces (2 cups) top with remaining pineapple mixture. Refrigerate. Sprinkle with chopped nuts when served (optional). This recipe is for men or women. When you get this far call us men and we will take over from there.

Ma's Cooking Notes of Pa and the kid's favorite vittles. Published by Dorthy Seaton. In the Ozark mountains.

### Lazzy Wife Chicken & Noodle Soup

Boil 1 chicken and take off bone. Put meat back in broth, bring to a boil and add salt and pepper to taste. Put in 2 or 3 cups of noodles. If company come add more water and noodles. Serve with toast.

If you boil an egg and take the yolk out and fill the hole with salt. Eat it and go to bed. Your future husband will give you a drink of water in your dream.

If you can keep love and a song in your heart, a smile on your face, you are a winner.

73 WA5PFFK Ralph

Vice President Terry McColl N5MLT, emphasized the need for the Amateur Radio community to protect their assigned frequencies by doing what they do best...Public Service! Supporting Congressman Jim Coopers H.R. 73 bill..."The Amateur Radio Spectrum Act of 1991", is another way of protecting those treasured frequencies. You are urged to write Mike Synar, at the US House of Representatives, Washington DC, 20515, and urge him to support or even co-sponsor the bill. A lot of strong commercial interests covet our space, so DO IT!!!!

A reasonable quorum was present at the meeting. Leo Peil WZ5H was there and Jack Day NN5Z, John Medley KB5NBQ, Steve Schoonmaker KF5SW, Ruth Simpson WX5Y, Denny Painton WK5V, Betty Day KA5RTW, and Nadine Painton N5FMH as well as our VP!

We made plans for our Eyeball QSO...more about that later! We discussed plans for a float in the WALLEYE RODEO parade and we had a treasurers report that said we were \$359.18 to the good. The good news though was Leo's report of his Novice class.

So far, he has 11 potential Hams and a few working on Tech. Leo is our most successful class instructor and VE test organizer and he has a good assistant, this time, in Curt N5RHO. Those aspiring Hams are: Melody Briggs, Morgan Briggs, Edith Medley, Paula Haigler, Randy Haigler, Misty Hubble, Lonnie Hubble, Larry Zeka, Greg Burlison and Doug Wiens.

The following Saturday evening found CARA gathering at the Longdale Community building for a cut-throat domino and card party. Like a fool I brought along a box of Double Nine dominos, and it was soon obvious that I needed a lot of practice. John Medley KB5NBQ proved to be King of the Double Nines. I did a little better with 500 Rummy and the UNO and double five domino champions was still being hotly contested when I left.

Those present were; Alvin N5KQU, Olive N5IXN, Dennis WK5V, Mr. and Mrs. Ernest Mongold, Leo WZ5H, Ann Peil, Sue Barnes, Ray AB5Z, Terry N5MLT, George Washburn KB5IHD of Cherokee, Nadine N5FMH, Edith Medley, John KB5NBQ, Betty KA5RTW and Jack NN5Z.

Sue: "Dear, I dreamed you gave me a hundred dollars for new clothes last night. You wouldn't want to spoil that nice dream would you?"

Ray: "Of course not, dear. You can keep the money!"

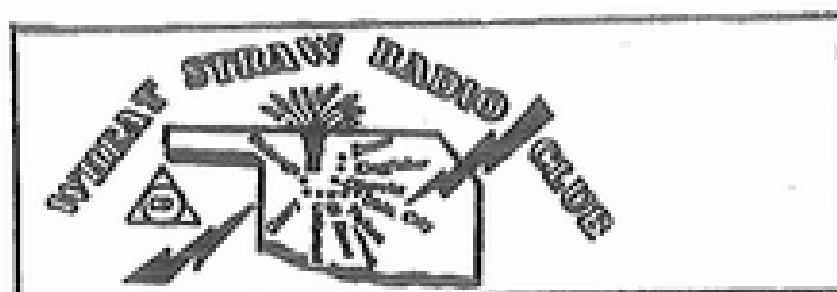
Don't forget...CARA meets every second Thursday in each month! I'll meet you at the WX5Y playhouse. Be there or be square!

73's NN5Z

Jane: I've added up this sum ten times.

Teacher: Well, it's smart to check your work.

Jane: Good. Here are the ten answers.



Last month the Wheat Straw had five sessions with 114 check ins. Of interest to our friends and visitors, we have a net each Wednesday night at 9:00 pm local time. The April meeting was moved by vote of members to April 7th and the club would caravan to Mooreland for their Eyeball QSO. We did not hold our meeting on the way, the president and vice-president were absent due to sickness.

Those who went had a good time and a covered dish dinner. KB5FOR Mary won at Bingo, two pictures, a pig what-not shelf, and a pair of ear rings. K5LLX Ray won a years subscription to an Amateur magazine courtesy of Oklahoma Ham Comm. WA5PFK drew the ARRL Antenna Compendium courtesy of Oklahoma Ham Comm. We saw and visited with several old friends that we have been hearing on the airways.

Due to Mother's Day falling on the 12th of May, we have voted to hold the meeting on May 5th. It will be a covered dish dinner, at 1:30 pm. It will be our annual dinner meeting at Red Rock Canyon, just south of Hinton. Visitors are welcome. The meeting will start at 2:30 pm.

Wheatstraw members having birthdays in the month of May are: N5JUT Janette Kuehn 5-4, Helen Lewis XYL of K5CTJ Don 5-10, Sue Barnes XYL of AB5Z Ray 5-11, N6CL Joe Lynch 5-14, and N5NZU Jane Cole 5-25.

#### NELSON SIMS

Nelson was born to Mr. and Mrs. Kenneth Sims in the year of 1947. They were a middle class family. Kenneth loved to fish. Most everyone called him Catfish Sims. The Sims were co-owners of Sims Service Station. Young Nelson participated in a lot of extra activities in his elementary school years. He was a Cub Scout. On reaching 11 he joined the Boy Scouts. About that time Catfish was elected mayor of Watonga, a small town with less than 4000 population.

Nelson was always a good boy, but at that age and time he felt that he was a little better than some. Only once in a while Nelson would refuse his Scout Master, saying "I don't have to. I guess you don't know that my dad is the mayor."

In September the Scout Master and his wife were going to take a bus load of boys to the State fair on Boy Scout Day. They were to get in free. The Tuesday night before going to the fair on Saturday, the Scout Master pulled out a small book and said, "The following boys do not show up, because you can not go to the fair". Nelsons name was among them. The 'whys' started. The Scout Master said "I have never laid a hand on one

of you boys but I think the time will come when you will wish I had". He told each of them what their problems were.

Next came the tears, the Scout Hut was about half way between Nelson's house and downtown. He walked downtown, crying, and called home. Catfish had one car at a council meeting. The daughter had the other one. Mother could not get him.

Catfish tried to change the Scout Master's mind, to no avail. About three days later Catfish ran into the Scout Master down town and asked, "Can I bring Nelson up to your house to talk to you". He said "Fine, I will be glad to talk to him, but you must bring all of the boys involved". All five of the boys went to his house with Mr. Sims. Everyone was seated and very quiet. Then Nelson stood up asking permission to say something. After he was recognized he said, "For the past three days I have tried to figure out why I acted the way I have. I can't. I guess it was just stupid, and I promise I will never have to be called down again".

Nelson is not an amateur. The reason for the true story is Nelson lived a good clean life from that time on. He worked hard, finished high school here. Attended college at Weatherford, receiving his degree in pharmacy. He started out as a drug salesman calling on hospitals and doctors.

Nelson and Jane got married when they were very young, like other young married couples they started a family. They continued to work hard, rising up the ladder. He has just been promoted to President and General Manager of a large pharmaceutical company with several subsidiaries. His office is in Toronto Canada. On a business trip to California, he is flying to Oklahoma City, coming to Watonga, Tuesday. The Lions Club is sponsoring a banquet for Honor Students on Tuesday night. Nelson is to speak to them on 'Regardless of who you are, how small a town you come from, the opportunity is there'.

I feel honored to have known him, and had a small part in his life.

May 12th is Mother's Day. Those of you who still have mothers and mothers-in laws, HONOR them. Let them know how much you love them and care, before they are gone. You have only one, when they are gone there is no other. Those of us whose mothers are gone, turn to our wives, the mother of our children, they are precious also.

## GREAT PLAINS A.R.C.

WSHG Repeater 146.13/73

Despite the slight drop in attendance from last year, the Great Plains Amateur Radio Club's annual Ham-Fest and Eyeball QSO went great.

We had VE testing on Saturday afternoon. There was a 50% passing rate, and we even had some No Coders taking their exams.

From the GPARC we had three members up-grade. Larry N5FVJ and Andy N5LLR both passed their Advance test, (Congratulations) and I Phil N5QCN passed the Extra Class.

Also on Saturday, there was a Sloppy-Joe supper courtesy of GPARC.

On Sunday, there was Ladies Activities, which helped get a few more XYLS acquainted, and by the end of the day, we changed the Ham-Fest into a Ham-Feast with a covered dish dinner.

At the end of the Eyeball we had a drawing for prizes. The prizes were furnished by Oklahoma Comm Center and World Radio Magazine. The GPARC would like to thank both of you for your donations and support. They were very much appreciated.

Lewis W5KFK was awarded a plaque for fifty years of radio service.

(Congratulations Lewis, from all of us.)

Plenty of visiting went on and several new friendships were brought about. There was some surprises, too. A 75 meter friend of mine, Burl N5DUQ, showed up at the Ham-Fest Saturday. I think that was my highlight of the whole thing. Since we had never met before.

There was a lot of work and time that went into the preparation of the Eyeball. To all of those who helped make it possible, Thank You!!

To sum it all up, I am sure that everyone who attended the Ham-Fest had a great time. I know that I did.

\*\*\*\*\*

#### EXTRA

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There is a new repeater in N.W. Oklahoma. The Beaver repeater is on 147.390/99 (N5AKN) Phil N5QCN

## EUROPEAN SOCCER TRIP - YOU CAN HELP

I received a letter from Robert Samples from Midwest City that caught my attention. He has been acclaimed a tremendous soccer player. Now they are going to Europe to try their skills against the best in Europe. BUT he needs your help in taking this trip.

The trip will last a month and cost about \$3,000. That is too much for his grandparents to raise so please help him by contacting Robert at (405) 737-6979 and tell him how much you can spare.

## The South Canadian Amateur Radio Society

SCARS met on the 6th of April at the Norman Red Cross. The monthly meeting was held a week early this month due to problems scheduling the meeting room. The next meeting will be on the 11th, second Saturday of May. It was a lightly attended meeting with only 16 members present. Dorinda, N5IUA called the meeting to order at 9:45. The treasurers report indicated about \$1580 in the account.

Storm Watch 3 was a great success with people from all over the state attending. The recent tornado in Ada got the attention of everyone during the week prior to the session and the training presentation by Bill Bunting from the National Weather Service office in Norman was outstanding.

A discussion of the display and demonstration scheduled in Sooner Fashion Mall was held and the sign up sheet for volunteers was passed around again. The "Mall Day" is scheduled for April 27th. No doughnuts will be served at the Red Cross on that Saturday, they will be at the mall instead.

Items are still being collected for the field day kit. KB5ABS and N5RIG are building antennas for it.

The 89er Day Stage Race will be on April 20-21. This is the only race this year that we are asked to assist. See Steve to help.

At the May 11 meeting a sign up sheet will be passed around to get volunteers to help teach a novice class. If enough people will participate then each person will have to do only one or two nights.

Steve is still looking for operators who can operate the net control station at the NWS office during severe weather. As we have seen during the last couple of weeks, trained spotters working in a well run net can save a lot of unnecessary problems by correctly identifying when actual severe weather is occurring and when only ugly but relatively harmless clouds are passing overhead. Please get with Steve Wolfe if you wish to assist in the weather net.

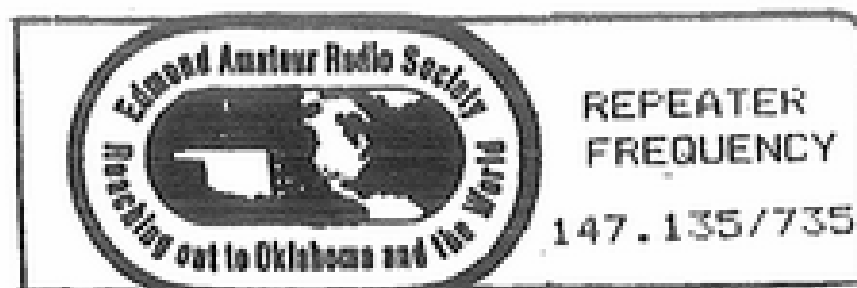
A motion was made that SCARS purchase the necessary coax to get the Red Cross antenna put back up on the tower so their radio could be made operational again. KB5ABS donated the cable and a work party was scheduled to put that antenna and the HF beam back up and into operation.

N5BEW reported that the equipment for the in town receiver was in need of much repair and it is doubtful that it would work very well even then. A motion was made and passed to get new equipment for the in town system. N5BEW agreed to look around to see what was available for a reasonable price.

There being no more business the meeting adjourned back to the coffee pot and doughnuts.

de Ken, N5KUK

Why is a lion in the desert like Christmas?  
Because of its Sandy Claws.



Here is what has been going on with the EDMOND AMATEUR RADIO SOCIETY lately:

Oklahoma weather has kept everyone busy with several severe weather nets during the last month. Keep your radio tuned to the 147.135 repeater to be ready. Almost every line of storms has produced a tornado so far.

**CLASSES:** The novice/tech class is going very well with around 15 prospective hams. We are about half way through the "TUNE IN THE WORLD" book, but it is still not too late to join. The class meets each Sunday at 2 PM at St. John's Catholic Church in Edmond. For those that would like to upgrade, we are planning a General Class. Contact Jim N5OHL for more details. **INFORMATION NET:** Find out what is happening with the club and amateur radio on the net each Monday at 8PM on the 147.135 repeater.

**CALLBOOKS:** Larry N5IXV has been using the new Callbooks to look up QSL addresses. They are in the Edmond Library in the reference section. **SCHOLARSHIP:** The committee has made the selection for the EARS and CORA scholarships which will be presented at HAM HOLIDAY 1991.

**LAWTON HAMFEST:** We had ten members make the trip to Lawton. Lee KA5WIS took a Van-Load of fine "boat anchors" and Glenn KF5XB had lots of "shack" stuff for sale also. I sold a pair of homebrew two meter beams. The best part was lunch at Calico Corner! Glenn, we still have not seen anything of Debbie!

**PATCHES:** Iron-on patches of the EARS logo are now here. Cost is \$3 for small and \$5 for the LARGE. Contact Alton KB5LIC for your patches.

**ANTENNA:** Larry N5IXV is burning up the bands with his new GAP Vertical. Jim N5OHL and Larry put up the 32-foot tall vertical in his back yard. The antenna is not like any vertical you have ever seen. It works 10-80 meters without any traps or tuning. The feed point is 16 feet off the ground so actually works as a vertical dipole. You

## CORA MINUTES

The March 26 1991 meeting was called to order at 7:30 pm with President Frank AA5GI in the chair and the following Directors present, representing 6 of the 16 member clubs present: ACARC - Charlie Greene, Tom Mangham, Ted Anderson. 76ers Jerry Sproul. Wheatstraw - Joe Lynch. MORI - Ellard Foster, Toy Graham, Robert Moose. EARS - Steve Hamlin, Jim Richardson. OCAPA - Baron Bieber. C&E - Joe Harding. Visiting were, Robin Graham, Linda Graham and Bob Ashby. The minutes of the February 1991 meeting and the report of the Treasurer were accepted as distributed.

**REPORTS:** Joe Harding read a letter he received from the Post Office stating that they had undercharged CORA for an issue in 1989. We paid the charge.

**VE:** Joe Lynch reported that there was about 30 people taking tests with a good pass rate.

Ham Holiday #18 (1991)

**PUBLICITY & PRE-REGISTRATION:** chairmen to meet for ticket design. Baron will be getting publicity out to magazines this month.

**REGISTRATION & TALK IN:** Waiting on event.

**PROGRAMS:** No response on call for chairman. AA5GI to take on this chair.

**NON-TECHNICAL:** No new programs.

**BINGO:** Tom reports everything under control.

**FLEA MARKET BANQUET SECURITY BREAKFAST:** No report.

**SCHOLARSHIP:** CORA still needs a CHAIRMAN to head this committee for the continuing funding of future scholarships.

**NEW BUSINESS:** Joe discussed the QSL Bureau needing someone to take over for the present head here in OKC or the surrounding area.

The next meeting is scheduled for 23 April 1991, same place and time.

should see the matching stubs. It even worked on two meters! Larry was able to reach the Enid repeater and also ones in Shawnee and Chickasha. **REPEATER:** Your technical committee is very busy making improvements to the 135 machine.

**EXPLORER POST:** Many people and lots of scouts were attracted to the post's emergency services vehicle with all of the antennas at Scout-O-Rama. Three advisors and four explorer scouts help to set up a station which included HF, packet and two meters. If you are 14-21 and would like to join the post please contact AA5GI or N5KUE.

## FOR SALE

G.E. Master II Repeaters and Bases-VHF, 110 watt, Excellent cond. \$950

G.E. Master II E series mobiles-VHF 110 watt, all acces., excellent cond.  
\$125 each      3 + \$100 each

G.E. icom channel elements    3 for \$15

Motorola Repeater B93 MPY-1100BT- 275 watt, VHF, Best offer

Sinclair Duplexors F-201G-C & R    Best offer

Modax 500 Paging systems

Singer FM10CS & FM 2736 Frequency Meter/Signal Generator

FM Deviation Meter type 1163-50-3

Great protection for your remote sites, computers or any sensitive  
electronic equipment - Juice Goose Md 25 line conditioners

New cost \$2,600 - will take \$600

Frank Fowler, 411 Rebecca Ave. Hattisburg MS 39401  
(601) 264-9760

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CENTRAL OKLAHOMA RADIO AMATEURS  
PRESENT  
HAM HOLIDAY 1991  
ARRL CONVENTION  
HOBBIES, ARTS & CRAFTS BUILDING  
OKLAHOMA STATE FAIR PARK  
JULY 27TH & 28TH, 1991

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### PRE-REGISTRATION FORM

LAST NAME _____	FIRST NAME _____
ADDRESS _____	CALL SIGN _____
CITY _____	STATE _____ ZIP _____
ADDITIONAL REGISTRATIONS _____ (Name & Call Sign)	
Reserve _____	REGISTRATIONS @ \$6.00 ea. \$ _____
Reserve _____	FLEA MARKET TABLES @ \$5.00 ea. \$ _____
Reserve _____	SCHOLARSHIP AWARD TICKETS
	@ \$2.00 ea. OR 3 for \$5.00 \$ _____
	TOTAL \$ _____

[Registration(s) will be mailed to you if received before July 13, 1991]. Send Pre-Registration Form with check or money order to:

CORA HAM HOLIDAY 1991 • P.O. BOX 95942 • OKLAHOMA CITY, OK 73143-5942

Must be postmarked by July 23, 1991



## VHF Club NEWS

W5LOW  
*The Elmer Gockler Memorial  
Station*

### Minutes of April Meeting

Meeting was called to order by President Jack, WB5ZKZ, at 12:05 p.m. with 22 members and guests present. Minutes were approved as published in the C&E. Treasurer Ellard, W5KE, gave his report, and read a letter from the C&E that indicated that costs to clubs would have to be increased. To meet these costs, motion was passed that our annual dues be raised from the current \$5.00 to \$5.99, effective January 1, 1992. (Even with this increase, we are still the cheapest club in town!) Meeting adjourned 12:17 p.m.

Charlie, WA5JGU, showed a video tape that started with a session recorded at the state capitol showing W5LOW at the Oklahoma State Civil Defense station. This portion featured Jack, WB5ZKZ, and Ken, K5VFN, and was prepared for last year's Ham Holiday. The tape continued with some pictures from Colorado, near Crested Butte, Gunnison, etc. Joe, K5JB, Sec'y

### Hambones

Many amateurs know Tom Stinson, W5OZE. He can often be found on various frequencies even through the night. Tom is blind. He lived for many years in Fredrick, Oklahoma and served as the Police Department dispatcher. Coming to Oklahoma City, he for several years operated the concession stand in the old Post Office, 200 Blk N.W., 3rd.

For years Tom has been a member of the Oklahoma Central VHF Amateur Radio Club and the QCWA. His wife Juanita is also blind, and also deaf. However, she has done the house-keeping, cooking and many other chores. Like Tom, she uses Braille and does a lot of reading. Tom's favorite consists of western stories.

Tom recently suffered a stroke and he and Juanita may in the near future enter a nursing home. Jack, WB5ZKZ

### Guest Contribution

I guess my comment last month about welcoming material for the column fell on responsive eyes. In addition to "Hambones", which Jack, WB5ZKZ, is going to try and make a regular fea-

ture, D.L. Hinkle, Jr, AJ5Q, Oklahoma DX member number 21, from Altus, and all around cracker jack DX CW operator, sent me the following with the note that I could use it "...if you have nothing better." He had to be kidding. I loved his story and hope he will send us more. Joe, K5JB

### Cure for What Ails Ya

Man, I was sick! It was the flu. I was convinced it was my last day on earth and I had not gotten the rare one I had stalked for three months..

I went by the doctor's office and got a double shot for the bug I had contacted that chilly October in 1982. I came home quickly, as I didn't want to expire on the streets. On my way to bed I switched on the Ten- Tec, force of habit I suppose.

The fellow I was after was named Georges and an elusive operator. He would always appear at the same frequency on 20 meters, but he had no pattern when he would operate. He must have been "rock bound". He was a super operator and had been sent to the island of Crozet in the Indian Ocean. Every so often, France would send an amateur operator for a short stay. He loved amateur radio but detested pile-ups. Rag chewing was his game. He would fire up with a CQ CQ CQ de FB8WG and work one to three operators. By that time, the pile-up was so large, he would QRT without notice. Of course, the big guns were the first to work him. I really do not think he ever heard me. I used every trick that had worked before, for instance going off his frequency 300 to 500 cycles (Hertz). Nothing worked.

I finally came to the conclusion if I were to work Georges, I would have to be there when he first fired up. Georges was on his last month of stay there in the cold with only penguins to talk with. He was anxious to get home, as I had heard him say many times while monitoring him.

Back to my story. Like I said, I was too sick for anything -- anything but DX that is. My temperature was 103 degrees and every muscle and bone ached. The radio was on his frequency, as I checked it first each time I turned on the set. About 11:00 a.m. in Oklahoma, or 1600Z, I heard him tune up. I told myself, "No use, you have always missed him. He only works the strongest stations." He started calling CQ. I could not help myself. I was driven by DX. I would have had to be

in I.C.U. to not respond to him. Man, I was at the rig in record time. I switched on my HW-200. I had it peaked for maximum output -- about 450 Watts. I quickly switched on the 250 cycle filter to make sure I was on him. I switched the filter off and brought the remote VFO to within one KHz, just in case he asked for split. The keyer was checked and the Bencher ready. I do not recall being weak with chills or nervous at this time and by the time he signed "K", I was first. Georges and I had a good chat. I told him how long I had been trying. He laughed and congratulated me. We exchanged things like the WX in Oklahoma compared to his minus 40 degrees C. We finally signed and I logged him.

After we signed, Georges worked two other stations, a VK3 and a JH1, then vanished. (In fact, he was never heard again from this island.)

During this experience I had forgotten about being ill. I had lucked out -- or was it luck? Not all luck, I can assure you. Yep, I did go to bed and rested completely. It was the best sleep I had experienced in three months. You may ask, "Is DX a life or death matter?" I can tell you sincerely, "No, it is far more important than that!" Del, AJ5Q

### Antennas and the NEC

The National Fire Protection Association's National Electric Code (NEC) contains some specific references that deal with Amateur Radio installations. The following synopsis was prepared by Willis, N6VZT, and circulated April 3 1991 through the packet bulletin board network. Jerry, KD5IS, collected the four bulletins from the WA5BQX BBS, combined them, and uploaded them to my Apple BBS to serve as future reference. It is currently message number 37 in the technical files area. The NEC does not have the force of law unless a local governing authority adopts it. As far as I know, most places have adopted it, and in any case, it is good, practical advice. Here it is.

### NATIONAL ELECTRICAL CODE REQUIREMENTS for AMATEUR RADIO

The following information is printed directly from the national electrical code. The NEC sets specific standards with respect to antennas. Aside from safety, if your equipment isn't installed in accordance with these specifications you may be violating the law in your community and you may find yourself with an uninsured fire or lightning loss since

many insurance companies won't pay off if the loss was caused by, even in part, by a non-code installation. It is the purpose of this information sheet to inform our team members and other interested amateurs of these code requirements so that they can maintain safe and legal radio installations.

National Electrical Code, Article 810

### Quick Reference Index:

Antenna Wire Size	810-52
Clearance on Bldg.	810-54
Discharge Units	810-57
Entrance to Bldg.	810-55
Grounding	810-21
Lead-in Size	810-53
Separation/other conductors	810-13
Splices	810-14
Supports	810-12

### SECTION C. AMATEUR TRANSMITTING AND RECEIVING STATIONS - ANTENNA SYSTEMS

810-51. OTHER SECTIONS. In addition to complying with Part C, antenna systems for amateur transmitting and receiving stations shall also comply with Sections 810-11 through 810-15.

810-52. SIZE OF ANTENNA. Antenna conductors for transmitting and receiving stations shall be of a size not less than given in Table 810-52.

TABLE 810-52  
Size of Amateur Station  
Outdoor Antenna Conductors  
-----  
Minimum Size of Conductors  
-----

Material	Where Maximum Open Span Length is: Less than 150' Over 150'
Hard-drawn copper:	14 10
Copper clad steel, bronze or other high strength material:	14 12
-----	
SI units: 1' = 0.3048 meter	

810-53. SIZE OF LEAD-IN CONDUCTORS. Lead-in conductors for trans-

mitting stations shall, for various maximum span lengths, be of a size at least as great as that of conductors for antennas as specified in Section 810-52.

810-54. CLEARANCE ON BUILDING. Antenna conductors for transmitting stations, attached to buildings, shall be firmly mounted at least 3 inches (76 mm) clear of the surface of the building on nonabsorbent insulating supports, such as treated pins or brackets equipped with insulators having not less than 3-inch (76 mm) creepage and airgap distances. Lead-in conductors attached to buildings shall also comply with these requirements.

Exception: Where the lead-in conductors are enclosed in a continuous metallic shield that is permanently and effectively grounded, they shall not be required to comply with these requirements. Where grounded, the metallic shield shall also be permitted as a conductor.

(Personal note: Coaxial cable constitutes a "continuous metallic shield", and when properly grounded, meets this and other similar criteria.)

810-55. ENTRANCE TO BUILDING. Except where protected with a continuous metallic shield that is permanently and effectively grounded, lead-in conductors for transmitting stations shall enter buildings by one of the following methods: (1) through a rigid, non combustible, nonabsorbent insulating tube or bushing; (2) through an opening provided for the purpose for which the entrance conductors are firmly secured so as to provide a clearance of at least 2 inches (50.8 mm); or (3) through a drilled window pane.

810-56. PROTECTION AGAINST ACCIDENTAL CONTACT. Lead-in conductors to radio transmitters shall be so located or installed as to make accidental contact with them difficult.

810-57. ANTENNA DISCHARGE UNITS - TRANSMITTING STATIONS. Each conductor of a lead-in for outdoor antennas shall be provided with an antenna discharge unit or other suitable means that will drain static charges from the antenna system.

Exception #1: Where protected by a continuous metallic shield which is permanently and effectively grounded.

Exception #2: Where the antenna is permanently and effectively grounded.

### REFERENCED SECTIONS:

810-11. MATERIAL. Antennas and lead-in conductors shall be of hard drawn copper, bronze aluminum alloy, copper-clad steel or other high-strength corrosion resistant material.

810-12. SUPPORTS. Outdoor antennas and lead-in conductors shall be securely supported. The antennas shall not be attached to the electric service mast. They shall not be attached to poles or similar structures carrying electric light or power wires or trolley wires of over 250 volts between conductors. Insulators supporting the antenna conductors shall have sufficient mechanical strength to safely support the conductors. Lead-in conductors shall be securely attached to the antennas.

810-13. AVOIDANCE OF CONTACTS WITH CONDUCTORS OF OTHER SYSTEMS.

"One of the leading causes of electrical shock and electrocution, according to statistical reports, is the accidental contact of radio and television receiving antennas and equipment, and amateur radio transmitting and receiving antennas and equipment, with light or power conductors. Extreme caution should therefore be exercised during this type of installation, and periodic visual inspections should be conducted thereafter."

Outdoor antennas and lead-in conductors from an antenna to a building shall not cross over electric light or power circuits and shall be kept well away from all such circuits so as to avoid the possibility of accidental contact. Where proximity to light and power conductors of less than 250 volts between conductors cannot be avoided, the installation shall be such as to provide a clearance of at least 2 feet (610 mm).

Where practical, antenna conductors shall be so installed as not to cross under electric light or power conductors.

810-14. SPLICES. Splices and joints in antenna spans shall be made mechanically secure with approved splicing devices or by such other means as will not appreciably weaken the conductors.

810-15. GROUNDING. Masts and metal structures supporting antennas shall be grounded in accordance with Section 810-21.

**810-21. GROUNDING CONDUCTORS - RECEIVING STATIONS.** Grounding conductors shall comply with (a) through (i) below.

(a) **MATERIAL.** The grounding conductor shall be of copper, aluminum, copper-clad steel, bronze or similar corrosion-resistant material.

(b) **INSULATION.** Insulation on grounding conductors shall not be required.

(c) **SUPPORTS.** The grounding conductors shall be securely fastened in place and shall be permitted to be directly attached to the surface wired over without use of insulating supports. Exception: Where proper support cannot be provided, the size of the grounding conductors shall be increased proportionately.

(d) **MECHANICAL PROTECTION.** The grounding conductor shall be protected where exposed to physical damage, or the size of the grounding conductors shall be increased proportionately to compensate for the lack of protection.

(e) **RUN IN STRAIGHT LINE.** The grounding conductor for an antenna mast or antenna discharge unit shall be run in as straight a line as practicable from the mast or discharge unit to the grounding electrode.

(f) **ELECTRODE.** The grounding conductor shall be connected as follows:

(1) To the nearest accessible location on the (1) building or structurgrounding electrode system as covered in Section 250- 81, (2) the grounded interior metal water piping system as covered in Section 250-80(a), (3) the power service accessible means external to enclosures as covered in section 250-71(b), (4) the metallic power service raceway, (5) the service equipment enclosure, or (6) the grounding electrode conductor or the grounding electrode metal enclosures; or

(2) If the building or structure served has no grounding means as described in (f)(1), to any one of the individual electrodes described in Section 250-81; or

(3) If the building has no grounding means as described in (f)(1) or (f)(2), to: (1) an effectively grounded metal structure, or (2) a continuous and extensive underground gas piping system where acceptable to both the gas supplier and to the authority having

jurisdiction and where a gas pipe electrode is used, connection shall be made between the meter and the street main, or (3) to a ground rod or pipe driven into permanently damp earth and separated at least 6 feet (1.83 m) from lightning conductors and electrodes of other systems. Steam or hot water pipes or lightning rod conductors shall not be employed as electrodes for protectors.

(g) **INSIDE OR OUTSIDE BUILDING.** The grounding conductor shall be permitted to be run either inside or outside the building.

(h) **SIZE.** The grounding conductor shall not be smaller than No. 10 copper or No. 8 aluminum or No. 17 copper clad steel or bronze.

(i) **COMMON GROUND.** A single grounding conductor shall be permitted for both protective and operating purposes.

(j) **BONDING OF ELECTRODES.** A bonding jumper of not less than No. 6 copper or equivalent shall be connected between the radio and television equipment ground and the power grounding electrodes where the requirements of (f) above result in the use of separate electrodes. Bonding together of all separate electrodes shall be permitted.

#### OTHER RELEVANT REFERENCES:

250-71 (b) **BONDING TO OTHER SYSTEMS.** At dwellings, an accessible means external to enclosures for connecting intersystem bonding and grounding conductors shall be provided at the service by at least one of the following means:

- (1) Exposed metallic service raceways
- (2) Exposed grounding electrode conductor
- (3) Approved means for the external connection of a bonding, or grounding conductor to the service raceway or equipment.

(Personal note: This means you bond or ground to a connection which is on the OUTSIDE of the equipment described.)

#### 250-81 GROUNDING ELECTRODE SYSTEM (Excerpts)

(These excerpts are provided to briefly summarize and describe approved

grounding electrodes that you can connect to.)

(a) **METAL UNDERGROUND WATER PIPE.** A metal underground water pipe in direct contact with the earth for 10 feet (3.05 m) or more.

(b) **METAL FRAME OF BUILDING.** The metal frame of a building, where effectively grounded...

(c) **CONCRETE-ENCASED ELECTRODE.** An electrode encased by at least 2 inches (50.8 mm) of concrete, located within and near the bottom of a concrete foundation or footing that is in direct contact with the earth... (which meets NEC specifications)

(d) **GROUND RING.** A ground ring encircling the building or structure, in direct contact with the earth at a depth below the surface of at least 2 1/2 feet (762 mm), consisting of at least 20 feet (6.1 m) of bare copper conductor of not less than No. 2 AWG.

**IMPORTANT NOTE:** The foregoing passages were transcribed and appeared to be accurate when proof read, and are provided for informational purposes only. Check your local building department or library for the latest edition of the National Electrical Code and/or other ordinances which apply in your community. Use common sense and don't become an antenna injury or fatality!

73, Willis, N6VZT @  
W6CUS.#NOCAL.CA

#### Dayton, Here We Come!

I had just a few lines to write to fill out the third page of this so there is just enough room to say, "I am ready!" All the batteries are charged, the suitcase is open, accepting stuff I am taking, and the list of things-to-do is getting checked off. I had a schedule (cut short by a welcome thunderstorm) with the Daytonians on 40 M this morning and all things are go.

I already have made a major purchase, an IC-24 talkie, compliments of Hoss, WA5ZAI, my agent at the Timonium MD hamfest, so the pressure is off to find the "best price at Dayton". Fred, W5NL, put in his order for a 12BY7 tube (what is that?) so I don't have to remember too many things to look for in the flea market. All I'll need to do now is wash out some socks and undies and head for the airport. Oh Boy! Joe, K5JB



## OKlahoma DX Association

### QUARTERLY MEETING THIS MONTH!

The OKlahoma DX Association will have our quarterly luncheon meeting in conjunction with the Green Country Hamfest on Saturday, May 18, 1991. Members and guests are cordially invited to join us at the Heritage House restaurant, promptly at 11:45 a.m. on Saturday morning. The restaurant is located at 3637 S. Memorial, about 4 miles from the fairgrounds. You will go through a buffet line for your lunch and join the gang in the meeting room. Ask for the DX group. Cost of the lunch will be \$5.88 including gratuity. We hope you will plan to attend.

OKlahoma DX is also sponsoring two seminar programs at Green Country. At 11:00 a.m., Coy Day, N5OK will present a program on the Five Band DXCC award. Immediately following lunch, at approximately 1:15 p.m., George Adkins, AD1S will present a video seminar on DX PacketCluster and DX spotting. The seminars will be presented in meeting rooms at the fair-ground convention location.

### ASSOCIATION NEWS & INFORMATION

We are pleased to welcome several new members in April. Joining in the past month were Paul Thompson, N5PT of Yukon; James Edwards, WA5LOB of Tulsa; Tony Merritt, K5CFM, Larry Davis, KP5JN and Robert Moose, N5QKI of Oklahoma City; Gordon Pulliam, K5IBQ of Norman; Jay Ingram, W5QVS of Midwest City and also Joe Boyer, W5CCP and Dorothy Boyer, N5QOR of Edmond. We sent a special mailing to all members on March 27, 1991. Included in that mailing was your membership return slip which is required by the U.S. Postal Service for continued delivery of your Collector & Emitter. If you have not returned the form, please send it back NOW. If we don't have your form on file, you may not receive your "C&E".

If you are not yet a member of the OKlahoma DX Association, you are invited to join us. Remember, we are a statewide association of amateur radio

operators with interest in DX, Contesting and related activities. We do not replace your local repeater club, which still needs and deserves your continuing support. For information, send a large SASE to OKDXA, Box 88, Wellston, OK 74881, or send your check for \$10, payable to OKlahoma DX Association, to the same address. We want to hear from you today!

### OK DX NET EVERY SATURDAY

Don't forget the time change in the OKlahoma DX Association DX Net. It now gets underway on Saturdays at 1600 UTC on 7.195 Mhz. OK DX Vice-President KF5DA is your net control. There is no net during (major) contest weekends.

### QSL(s) OF THE MONTH

This month's QSL is very special and very rare. Note that only 864 QSO's were made by OH2BH/ZA in 1970 and OKDXA member K5LIL was one of the lucky ones! ZA - Albania is now the number one most needed

country in the world, followed closely by XZ - Burma. Congratulations to Ed on this contact and thanks for making a copy of this neat QSL available for us to publish this month. Please note the comments on the reverse side of the card. Obviously Martii Lane, OH2BH was trying for some positive public relations with the government in Albania (a vacation spot???) but unfortunately history tells us that a return trip was never possible due to the then-political climate in Albania. Maybe there's a change in the wind? Who knows, maybe OKDXA will sponsor the NEXT DXpedition to ZA?

### MISCELLANEOUS DX NEWS (courtesy of Joe Schilling, WA5YKD)

A letter has been received from Wilfried Spreen on the DARC (Germany) who advises that as of December 31, 1990, the Y2-QSL Bureau has been closed and all German QSLs go through the DARC Buro.

UW6HS offers a service known as the U-DX-C QSL Service. He says

Continued on next page



### 1970 DX-PEDITION

### OH2BH/ZA - DURRES - ALBANIA

TO RADIO	JULY	GMT	MODE	RST	MHz
K5LIL	10 □ 11 X	0337	2 x SSB	57	14

HEATH HW-32 A  
(1ks to Int. DX Assn.)  
DIPOLE AT 14.195 KHz.

TRANSPORTATION BY  
STERLING AIRWAYS A/S

OPERATORS: Martin, OH2BH X  
Eric, OH2BW □  
Vilje, OH5SE □

QSO VERIFIED BY

Albania (Shqipëria), the youngest tourist country in Europe, extends a welcome to all the travellers from far as well as near. Albania and its kind people is ready to do all in its power to make you feel at home.

An ideal climate, intact nature, vast sandy shores and a lively night-life guarantee your comfort. Hotels of high quality, along the sea-board, near the port of Durres, await you. Many group journeys to different parts of Albania arranged by Albtourist, the tourist organisation of the country, will most surely arouse your interest. The Albanian guides' knowledge of languages, their hospitality and friendliness are incomparable.

We had an opportunity of telling about Albania to our friends all over the world. During our operation, about 9 hours, we had connection with 860 radio amateurs in 54 various countries, in all continents.

Congratulations to you for getting in connection with Albania which has been silent for 11 years in the world of radio amateurs. You are one of the 860 who succeeded in getting through the enormous chaos. A chaos we hoped to be able to disentangle, which was, however, this time, beyond our possibilities. Yet, our conversation with the Vice-Director of the Communication Department gave us good reason to suppose that we shall be welcome, the summer to come, to operate and to spend our holiday in Albania. See you then next summer.

Foto: L. to R. OH2BW, OH5SE and OH2BH

## MORE OK DX

that he can direct mail QSLs to Soviet hams, even if there is no known callbook address. He is also QSL Manager for the following stations: OD5EH, OD5RA, OD5RK, 9H1ED, UI9B/RB3MO, UA2FGG, UA2FGU, UZ2FXA and UA01/UV3DDC. For information about this Russian QSL Service, send 2 IRC's and a mailing label (no envelope) to Vasil M. Kasyanenko, P.O. Box 20, Georgievsk, 357800, Stavropolskogo Kraya, USSR. Vasil can also provide up-to-date Oblast lists, reply cards and other services to expedite your QSLing to USSR amateurs.

Thanks to Joe for this information.

Remember your Fifth Call Area QSL Bureau this month. There has been an increase in postage rates. Do you have envelopes (\$.29) on hand at the bureau?

## AB5J on TIMELY QSLING...

Frank Phillips, AB5J, reports that he received his OH0 QSL card confirming a 20 meter CW contact made in 1980! (Yes, just now!)

## FOR THE EARLY RISERS... (1100-1300 UTC)

40 Meters is still producing some good propagation for CW contacts with VK, JA, HL, RA0, UM0, UL7, UJ, 4K2 and many others. (Of course you don't hear all of the goodies every morning, nor do you have the propagation each day.) However, the contacts are there, it just takes time and patience. In fact, AB5J reports that you may hear most anything in that time frame. Our own ARRL Section Manager, Joe Lynch, N6CL was heard knocking out some good ones the other morning. AB5J reports that Joe is pretty "salty" on CW.... (Hmmm, I wonder what Frank means by that? ...ED.)

## ON THE BANDS

ET2A (W4IBB) should be returning to Ethiopia around May 1 and has promised that he will be taking a CW key with him. There aren't many CW list takers so maybe ET2A will begin to operate "fer real..."

A51PS is expected to be re-primed by Jim Smith, VK9NS beginning May 1. His bride Kirsti, VK9NL is joining Jim on this trip and Kirsti will probably carry the beam and linear

amplifier. We look for Jim to have a more respectable signal this time around. They are reportedly going to stay for 2 weeks.

Rumour is that VK9NS will try S21U again after his trip to Bhutan in May.

## A TALE OF TWO COUNTRIES

Coy Day, N5OK writes about two fascinating operations in which he participated in the late 1960's. We will tell you of one this month and complete this tale in next month's article. Coy said that the VS9APW QSL in our April article brought back a lot of memories. That operation was by an old friend of Coy's, Pat West, 5B4PW. Coy and Pat were both on Cyprus in 1969. Pat had married a Cypriot girl and decided to stay. Coy was assigned to the Foreign Service there. Coy writes, "Cyprus had gone through a great deal of turmoil at that time because of conflict between the Greek and Turkish communities. It was the worst possible situation for a couple of hams assigned to a country where ham radio had been banned for several years with no hope to operate. Pat came up with a scheme to get us on the air and used the best political connections he had which were through the English School in Nicosia.

After several months of politicking, cajoling and harassment, Pat was able to get permission to operate during the British Field Day at the English School. The problem was that we didn't have any equipment. They finally allowed him into the basement of the government telecommunications facility where all the con-

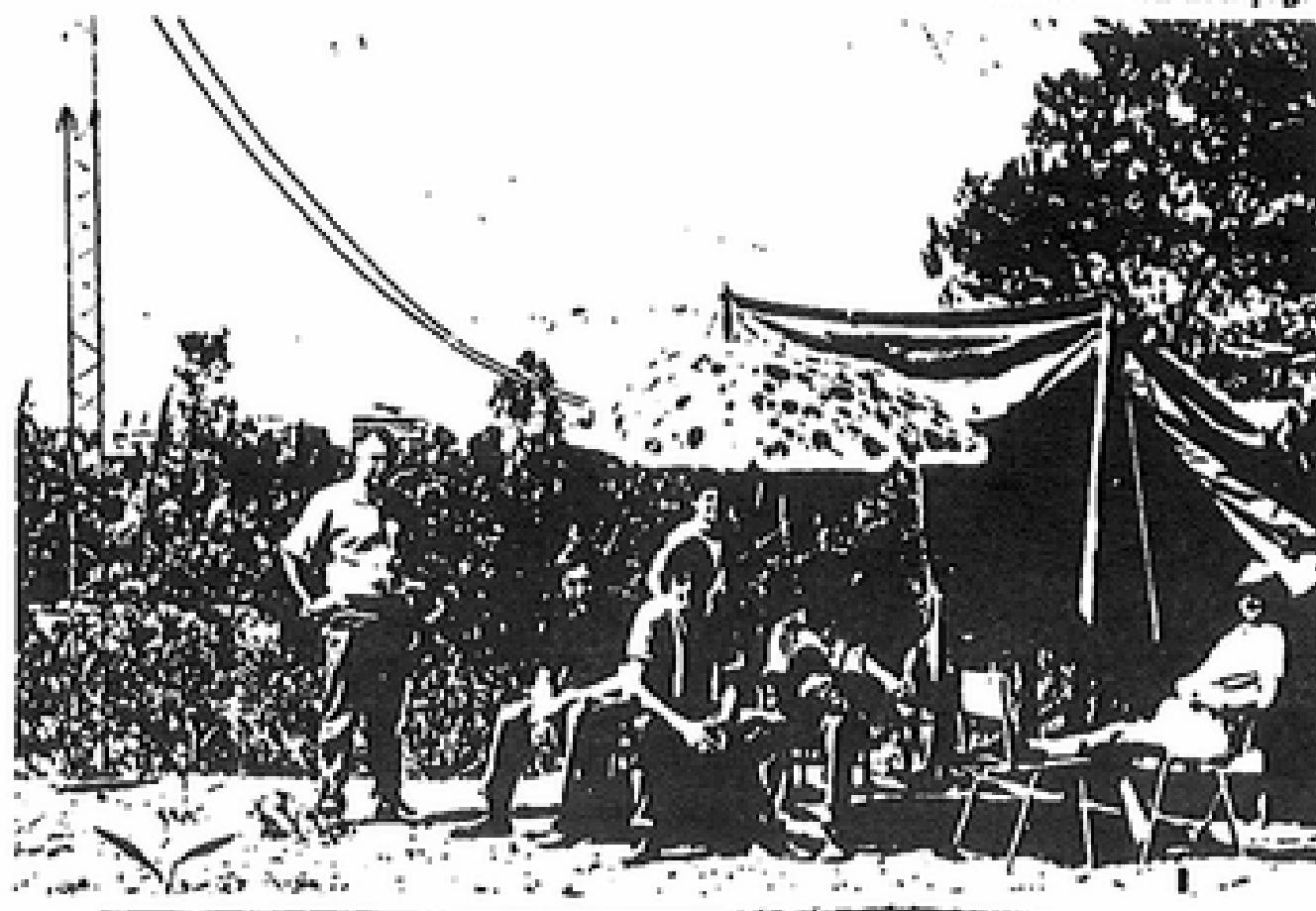
fiscated amateur equipment had been stored for the years that ham radio had been banned, but the only thing that he could come up with that he could get working was an old Heath DX-100. I worked a deal with some of the folks at the embassy and was able to borrow an old Collins R-388 and that was what we ended up with for equipment. Next we organized the radio club students at the school into a work team and away we went to the only site that we could manage to get permission to operate from. Behold, it had a canyon right across the middle of it! I shook my head but Pat said 'This is perfect. All we have to do is put up the portable tower right here on this bluff and string the Vee beam across the canyon.'

## FIELD DAY NICOSIA

I shook my head again and asked Pat if he had ever tried to load a Vee with a DX-100. The answer was no, but that I should not worry, he could handle it. So away we went and pretty soon it was in place. I watched in amazement as Pat rigged sections of ladder line and dozens of clip leads into the most amazing lash-up of loading system that I had ever seen. Not having an SWR meter, I will never know what the real performance of this system was but the important part was that we were able to load the old DX-100 up to full power and that was what counted. The Vee beam was pointed to the United Kingdom. I agreed to that, once I realized that it was also the heading for stateside.

Pat then disappeared to his car and brought back a small case. He had this silly grin on his face as he opened the box and

Continued on next page



said 'Now it's time for this old girl.' Inside the box was a felt bag and out of the bag came Pat's favorite bug. I had never really used a bug before and it was a real dream. So as the sun began to set that evening we started our operation. What a mess. Cyprus had not been on the air for over 5 years except for a few 2C4's and they were very low profile so as to not offend the Cypriots. They mostly used their stations to talk back home to their families in the U.K.. So there were some very eager folks ready to pounce. We filled many a logbook that weekend and it satisfied the itch for awhile. Before I left the island we were able to get the English School fully licensed and I'm sure many of you worked 5B4ES. The rest is, as they say, history."

Many thanks to Coy for that neat story. Next month we will relate the saga of Coy and 2C4DA.

Thanks to Carl Olson, W5XQ for the following QSL from N4NW's 1988 Congo operation. This one is getting tougher and tougher as the "cost" of a license keeps getting out of sight. A member of OKlahoma DX Association (who will remain anonymous) was in the Congo for over six months in 1989. He estimated that, with all the various "contributions, payments and fees," it would cost close to \$5,000 for him to get a license in the Congo at that time... Hmnmnm...


#### NEXT MONTH IN OKlahoma DX...

We will bring some stories back from the Visalia International DX Convention, a review of

# 5B4FD/P



SPECIAL QSL FOR THE  
NATIONAL FIELD DAY



THE ENGLISH SCHOOL  
RADIO CLUB  
NICOSIA CYPRUS

#### N4NW AFRICIAN DX OPERATIONS

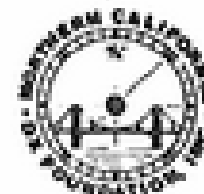
## TN4NW

### Republique Populaire du Congo

CONFIRMING QSO WITH: W5XQ  
13 August 1988 01:39 UTC

REPORT	BAND	MODE
59	15 METERS	SSB

THOMAS L.  
GREGORY  
N4NW



THESE QSL'S PROVIDED BY "INSIDE DX"

OH2BH's new book "Where Do We Go Next", more DX news, more PacketCluster Info, including a review of Version 5.0 of PacketCluster software (coming

soon) more outstanding QSL cards from our members and the conclusion of N5OK's Cyprus Saga. Until then, Good DX! De AD1S.

#### ROCK ME TO SLEEP

By Elizabeth Akers

Backward, turn backward, Oh time, in your flight, make me a child again just for tonight! Mother, come back from the echoless shore, take me again to your heart as of yore.

Kiss from my forehead the furrows of care, smooth the few silver threads out of my hair. Over my slumbers your loving watch keep-- Rock me to sleep, Mother--rock me to sleep!

Backward, flow backward, oh tide of the years: I am so weary of toil and of tears--Toil without recompense, tears all in vain--Take them and give me my childhood again!

I have grown weary of dust and decay--weary of flinging my soul-wealth away, weary of sewing for others to reap, rock me to sleep, Mother--rock me to sleep!

Tired of the hollow, the base, the untrue, Mother, oh other, my heart calls for you!

Many a summer the grass has grown green, blossomed and faded, our faces between. Yet, with strong yearning and passionate pain, Long I tonight for your presence again.

Come from the silence so long and so deep-- rock me to sleep, Mother, rock me to sleep!

Over my heart in the days that are flown, no love like Mother-love has ever shone!

No other worship abides or endures--faithful, unselfish and patient like yours!

None like a mother can charm away pain from the sick soul and world weary brain!

Slumber's soft calm o'er my heavy lids creep--rock me to sleep, Mother, rock me to sleep!

Come, let your brown hair just lighted with gold, fall on your shoulders again as of old, let it drop over my forehead tonight, shading my faint eyes away from the light!

For with its shiny edged shadows once more happily will throng the sweet visions of yore!

Lovingly, softly, its bright billows sweep, rock me to sleep Mother, rock me to sleep!

Mother, dear Mother, the years have been long since I listened to your lullaby song.

Sing, then, and unto my soul it shall seem womanhood's years have been only a dream!

Clasped to your heart in a loving embrace, with your light lashes just sweeping my face, never hereafter to wake or to weep--rock me to sleep, Mother, rock me to sleep!

May God bless. WA5PFK Ralph

# All-Ham Shuttle Breaks New Ground in Space

By Rosalie White, WA1STO  
Manager, ARRL Educational Activities Department

Space Shuttle Flight STS-37 sported a number of firsts, including national wire service coverage and both fast and slow scan television transmitted on the amateur bands, the latter featuring pictures from a spacewalk by astronauts Jay Apt, N5QWL, and Jerry Ross, N5SCW.

"Ham Radio Network Links Students with Shuttle Astronauts," proclaimed Page One of the *Chicago Daily Herald*, a headline echoed in several dozen papers around the country.

Mission STS-37 — "the educational SAREX (Shuttle Amateur Radio EXperiment)," was launched April 5 and spent an extra, fifth day aloft when weather prevented a safe landing. The crew took advantage of the unscheduled day in space to unstow their SAREX equipment and make random QSOs for a few hours.

During this time the orbiter flew over South America and South Africa and a number of hams were thrilled with their "space" QSOs, including ZR6AUJ, who was mobile. Pilot Ken Cameron, KB5AWP, rogered the QSO by saying, "We're mobile to mobile!"

Perhaps the most significant "first" for STS-37 was its all-ham crew, a fact noted by *The Wall Street Journal*. "The first ham convention in space" is what AMSAT president and SAREX net control operator Doug Loughmiller, KO5I, called it. Loughmiller shared control duties with Roy Neal, K6DUE, and AMSAT vice president for manned space operations Bill Tynan, W3XO.

In addition to Cameron, Apt, and Ross, Commander Steven Nagel, N5RAW and Mission Specialist Linda Godwin, N5RAX rounded out the five-astronaut crew.

Thousands of students eavesdropped on Amateur Radio from outer space during ten group contacts — each with several schools taking part. On one of these planned activities, a linkup with 3,000 students in 21 schools was coordinated by Terry Redding, WB5LMJ.

FSTV from the Shuttle was led by Jim Steffen, KC6A; Andy Bachler, N9AB (of the Motorola Amateur Radio Club in Schaumburg, Illinois); operators at the Marshall Space Flight Center Amateur Radio Club, WA4NZD; and the Goddard Amateur Radio Club, WA3NAN.

Here is a short audio segment from the FSTV QSOs, taped by WB4APR:

KB5AWP: "Fantastic! We've got a window mount antenna up here, as you know, and we're still making great contacts. We're over Florida moving at about 25,000 feet per

second. I see N9AB right now on video—good picture of an operator and some students. Ok, picture's breaking up ... a big dish antenna!"

N9AB: "The big dish antenna is Goddard, WA3NAN, via the Naval Academy dish."

KB5AWP: "Okay, I've got some horizontal lines in the picture ... now it's better. Yeah! I've got color!! That's a great picture!"

Yet another first occurred when Cameron downlinked automatically "frame-grabbed" live pictures of the mission's space walks by slow-scan television on 2 Meters, using Atlantis's closed-circuit television system. He also transmitted slow-scan pictures of Linda, N5RAX, to young people during the QSOs with schools.

Unfortunately, attempts to trouble-shoot packet and SSTV receiver problems were not so successful. And calls to MIR, the Soviet space station, resulted only in partial contacts.

A student in Rockford, Illinois asked Cameron how it felt to be launched: "Wow! During liftoff your body feels like it is being squashed a little bit as the solid rocket boosters and the three main engines lift you off of the pad and right off of the planet."

As the mission wound down Cameron described preparations to return to Earth. "It's a beehive of activity here what with planning for re-entry, taking pictures of the earth and plotting orbit maneuvering for returning."

Steven, N5RAW, admonished students to "Take school seriously. Worry about your grades right now no matter how young you are."

Larry Calvert, WA9OAO, teacher at Monroe Central School in Parker City, Indiana, said excited students asked him to start a school radio club. An unlicensed teacher in Missouri called ARRL during the mission for help in writing a grant proposal to get equipment for her third graders, after a local ham brought his equipment so they could listen to SAREX.

A SAREX shortwave listener from Maine wrote to ARRL to find out how to get a ham license.

ARRL instructor Len Casacalenda, KV1P, set up a ham demonstration at a school science fair, and let kids listen to Goddard Amateur Radio Club's shuttle audio retransmissions.

Recently, ARRL and AMSAT-NA asked NASA to consider allowing SAREX to fly aboard missions in 1992, on high inclination orbits which would offer better opportunities for QSOs to all U.S. hams.



SATURDAY, MAY 4, 1991  
10:00 A.M TO 3:00 P.M.

1ST ANNUAL SPRING CLEANING  
PARKING LOT

SALE SALE SALE SALE

DAMAGED & BROKEN MERCHANDISE

SALVAGED COMPUTER PARTS

RADIO SPECIALS

OTHER GOOD JUNK

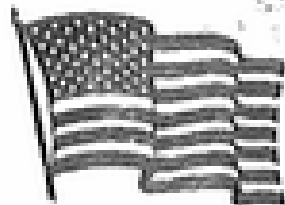




NEW IC-2AT  
TO BE GIVEN AWAY AT 12:30 P.M.

MUST BE PRESENT TO WIN

9500 CEDAR LAKE AVE  
OKLAHOMA CITY, OKLAHOMA

TELEPHONE NUMBERS

405-478-2866  
1-800-7OK-HAMS  
(1-800-765-4267)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			1	2 AERONAUTICAL CENTER ARC	3	4
5 GREAT PLAINS  WHEAT STRAW	6	7 M O R I	8	9 CIMMARON ARS  ALTUS ASSOCIATION	10	11 CENTRAL OKLA COMPUTER  SCARS
12 	13 EDMOND CLUB	14 OKLAHOMA UNIV. AARC  BICENTENNIAL (76ers)ARC	15	16 KAY COUNTY	17	18 VHF
19 E A R S	20 VE TESTS 6:00 PM SALVATION ARMY 50 & PENN	21 AUTO PATCH	22 	23	24	25
26	27 	28 C O R A 7:00 PM SALVATION ARMY 50 & PENN	29	30	31	

Minn. Slow Speed Net  
0100 Daily 3.710  
Texas Traffic Net  
0030 Daily 3.873  
Okla. Traffic & Wx  
2345 Daily 3.900  
3905 Century Club (WAS)  
0200 Daily 3.903  
SW Traffic Net  
0300 Daily 3.935  
Okla. DX Net  
1730 Saturday 7.190  
3905 Century Club (WAS)  
0000 Daily 7.2335  
OMISS (WAS)  
1700 Sat. & Sun. 21.360  
"2300" Net  
2300 Daily 28.390  
OMISS (WAS)  
1800 Sat. & Sun. 28.665

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## OKLAHOMA TWO-WAY

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