

Collector & Emitter

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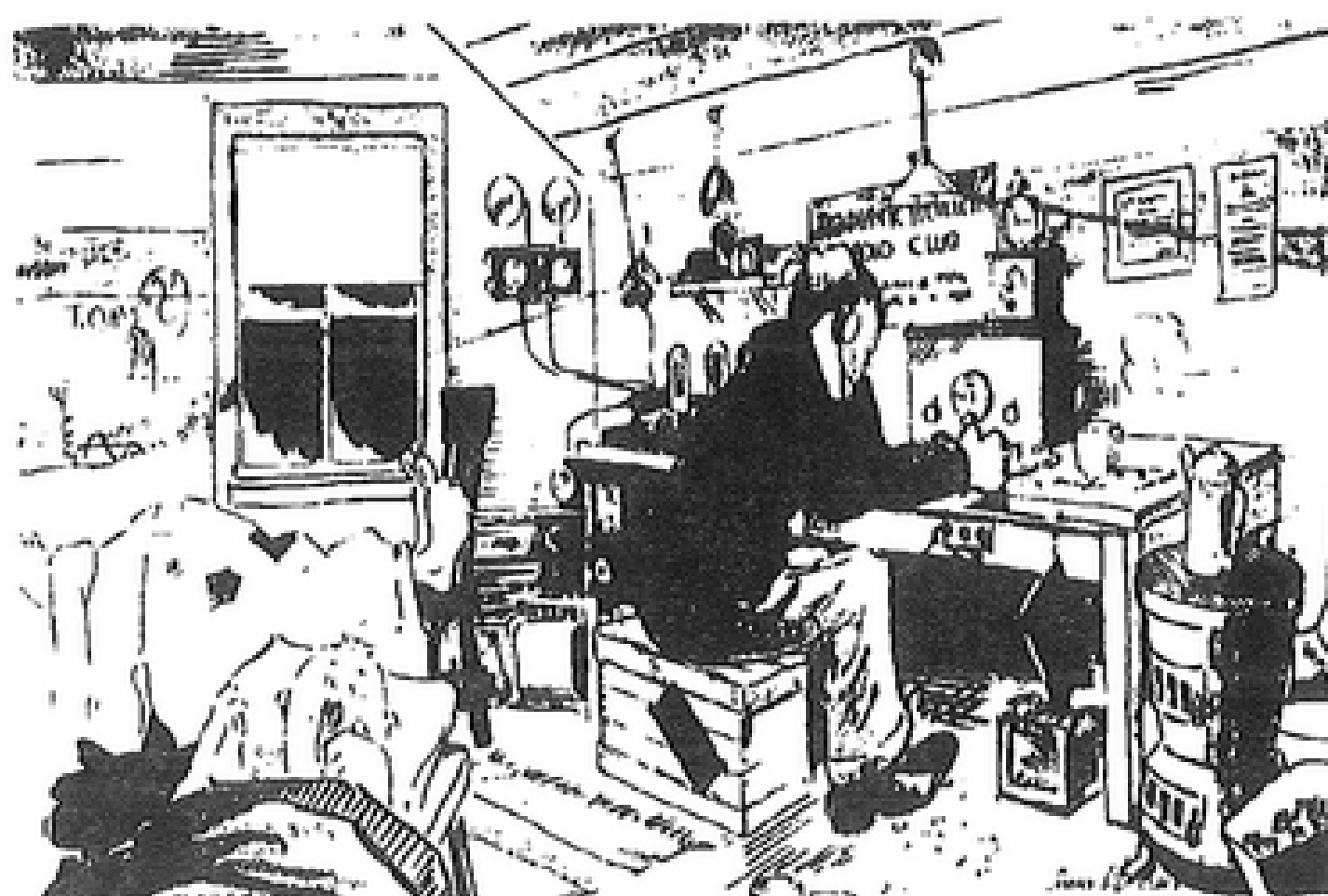
Postmaster See Page 2
For Postal Information

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More viruses

Reflections
April 1996

Memorial Station
N5FM



Joe Harding Memorial Scholarship

Technical terms

On the Air

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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1. Aeronautical Center ARC 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:	11. Edmond Amateur Radio Society 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
2. Oklahoma Central VHF ARC Meets: 1100, 3d Saturday, Ashley's Country Kitchen 1-40 & SE 15th St., Del City Pres.: Jackelyn 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	14. Cimmaron Amateur Radio Assn. 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
4. Oklahoma City Autopatch Assn. 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	15. South Canadian ARS 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
9. Wheatstraw Amateur Radio Club 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	17. Ada Amateur Radio Club 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, KC5EJC 332-1063 Treas.: O. J. Collins, KC5DYX 332-7878
10. Oklahoma DX Association 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	Central Oklahoma Radio Amateurs 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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VHF Club NEWS

W5LOW
Elmer Gaekler Memorial
Station

Minutes of March Meeting

Meeting was called to order at 12:02 p.m. by President Jackolyn, KA5ENU, with 23 members and guests present. Treasurer El-lard, W5KE, gave his report and reported that there were now 57 members plus some family members.

With all required business taken care of, meeting was adjourned at 12:05 p.m. Bob, W5HXL, then gave account of his observations of the hurricane damage around Panama City FL. Since I have had opportunities to visit those white sand beaches numerous times I thought it was interesting.

Joe, K5JB, Sec'y

Spread Spectrum Comments to FCC

One of the uses I have made of the Internet for years (before the "Web" fad started) was to keep informed of what amateur radio operators were doing in other areas of the country, or even the world. Among other things, I subscribe to some mailing lists. These are computer programs that accept messages from people and then send copies of those messages to all those who are subscribed. The following was a message from the spread spectrum special interest group mailing list maintained by TAPR (Tucson Amateur Packet Radio).

(To subscribe to this list send a message to listserver@tapr.org, leave the subject of the message blank, and in the body, put the one line: subscribe ss <your name>, where you use your first and last name in place of the <your name>.)

Since I have some space to fill to complete my pages, I will include the message in its entirety. Subsequently, ARRL filed comments, which you can read in QST. A copy of the ARRL comments was mailed to the mailing list also, and covered some concerns of the ATV and weak signal folks.

TAPR is an excellent source of information

Collector and Emitter, April 1996

about other up-to-date amateur radio, activities but the emphasis is on digital modes and techniques.

Here is the message:

Members of TAPR SS List:

Below are the comments that TAPR filed on the League's Spread Spectrum Petition for Rulemaking. It will soon be available on the TAPR website, but I thought that I would post it here for those of you who don't have access to the WWW.

It is still not too late to file any comments that you have on this matter with the FCC. An explanation of the procedure of doing this appears in the League's "FCC Rule Book" publication.

TAPR will be following this matter thru the entire rulemaking process at the Commission. The next step will be to file reply comments which are due at the Commission on March 12th.

-- Dewayne

Before the
FEDERAL COMMUNICATIONS COM-
MISSION
Washington, D.C. 20554

In the Matter of)
)
Amendment of Part 97 of the) RM-8737
Commissions Rules Governing)
the Amateur Radio Service to)
Facilitate Spread Spectrum)
Communications)

To: The Commission

COMMENTS OF
TUCSON AMATEUR PACKET RADIO
CORPORATION

The Tucson Amateur Packet Radio Corporation ("TAPR") submits these comments in response to the above-referenced petition for rule making (the "Petition") filed by the American Radio Relay League, Incorporated ("ARRL").

3

BACKGROUND AND STATEMENT OF INTEREST

TAPR is a non-profit (501(c)(3)) scientific and educational organization with more than 2,500 members worldwide. It is chartered to engage in three principal activities: scientific testing and research into the development and improvement of technological systems for use in the amateur radio service including, but not limited to, digital packet radio communications; research and testing of systems, hardware, and software for packet radio local area networks and computer network systems; and disseminating to the public the information obtained as a result of such research and testing. TAPR was founded in 1982 as a national organization with interests in the areas of packet and digital communications. It grew out of a 1981 effort to design a packet radio Terminal Node Controller, or "TNC," that would be available to amateurs at a modest cost. From these initial designs emerged what is now the de facto standard in amateur and many commercial packet radio operations.

Today, TAPR continues as an international, membership-supported research and development organization for the amateur radio community. TAPR continues to develop new communications technology, provide kits for the amateur community, and promote the advancement of the amateur art through publications, meetings, and communications standards. TAPR also maintains a web site (<http://www.tapr.org>), which includes a page specifically addressing current amateur spread spectrum issues (<http://www.tapr.org/ss>).

DISCUSSION

TAPR generally supports the recommendations made by the ARRL in its Petition. Spread Spectrum ("SS") technology has not made great advances in the amateur radio service since it was first permitted in 1985, in part due to the fact that, by today's standards, the Part 97 regulations on amateur spread spectrum are extremely restrictive. In particular, the small number of fixed spreading codes permitted under Section 97.311(d)(1) inhibits the use and develop-

ment of SS by amateur radio stations. TAPR believes that it is in the public interest, and in the interest of the amateur radio service, to change the rules for SS in order to accelerate the adoption of SS by the general amateur community.

TAPR also supports many of the specific recommendations made by the ARRL.

First, TAPR supports the ARRL's request to modify Part 97.311(b) as it pertains to the unintentional triggering of repeater inputs. This section is redundant with other parts of the Commission's rules and, therefore, is unnecessary.

Second, TAPR supports the ARRL's request to delete sections 97.311(c) and (d), in order to permit SS emissions and spreading codes that are not currently authorized. Elimination of the rule that dictates specific spreading codes is necessary to facilitate further experimentation and to match the provisions allowed under an existing amateur service SS STA, discussed below. In addition, it would facilitate the use and adoption by amateur radio operators of Part 15 SS equipment and hardware.

Third, TAPR supports the ARRL's proposed change to 97.311(g), which would provide for automatic transmitter power control to limit the output power of an SS station to that which is required for communication, when more than one watt of output power is used. TAPR, however, differs with the ARRL as to just how simple this requirement would be to implement technically. While TAPR agrees that technically it is simple to control the output power of a transmitter, it is quite another matter to make this control automatic and foolproof. If the Commission decides to proceed with this particular change to the rules, it should phase the change in over some reasonable period of time, in order to give the amateur community the opportunity to develop and deploy SS equipment that properly can meet this requirement.

While, as noted above, TAPR agrees with many of the ARRL's recommendations, it disagrees with a few of the proposals contained in the Petition.

In particular, TAPR differs with the ARRL with respect to the question of which frequencies should be authorized for SS emissions. In the Petition, the ARRL proposes that brief test transmissions of SS emissions be permitted only on those frequency bands in which SS emissions currently are authorized. TAPR believes that SS emissions should be allowed on all frequency bands covered by the SS STA currently held by Mr. Robert Buaas K6KGS (6m and 2m, in addition to the frequency bands currently authorized by Part 97). In addition, the Commission should allow SS emissions in the 219-210 MHz band, which was authorized for use by the amateur radio service after the Buaas SS STA was originally granted in 1992. Finally, the Commission should not impose any restriction on the length of time SS emissions are transmitted. Ample time already has been provided for the experimental phase of SS usage in the amateur service (five years of experimentation under the 1980 AMRAD STA and ten years under the current Part 97 rules), and it is now time to allow SS use without restriction.

TAPR also differs with the ARRL as to how station identification and documentation should be handled under a revised set of rules. The ARRL in its petition did not ask the Commission to delete sections 97.311(e) and 97.119(b)(5) of the rules, even though it questioned the practicality of the requirements set forth in these sections. TAPR, in contrast, recommends that the Commission delete these subsections of the rules. The interference and harm to the band in which an SS station is operating that would be caused by a requirement to use a CW identification outweighs the benefits that would accrue for monitoring purposes from the use of the ID.

As a result, the amateur radio community should be permitted to develop an approach for handling the necessary functions of monitoring and identification. TAPR already is working on possible resolutions to this problem and in the near future will be in a position to make a proposal to the Commission on this matter.

CONCLUSION

SS technology can provide many useful benefits to the amateur radio community if its use becomes more widespread and mainstream. In order to accomplish this, however, certain changes must be made to the Commission's rules governing the use of SS in the amateur radio service. By making these changes, the Commission will create a regulatory environment that will give members of the amateur radio service enough flexibility to develop innovative equipment and hardware employing SS technology.

For these reasons, TAPR urges the Commission promptly to issue a notice of proposed rule making to facilitate spread spectrum communications in the amateur radio service, as proposed in the Petition and as modified herein.

Respectfully submitted,

THE TUCSON AMATEUR PACKET
RADIO CORPORATION

By:

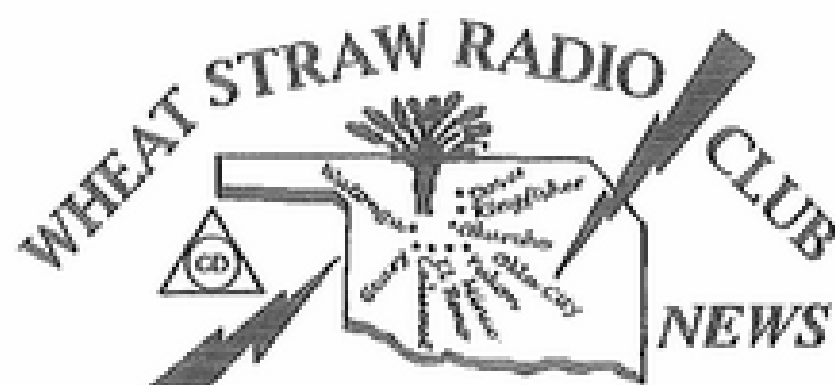
Dwayne Hendricks
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Tucson, Arizona 85749-9399
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Milk Storage Discovery

I am not good enough of a cook to come up with any interesting recipes, but I did make an interesting discovery about keeping milk fresh. I try to keep milk around for cooking, but don't drink much of it so I usually throw half of a half gallon container away when it is still 2/3 full and starts to smell sour.

I discovered that if I crush the container and force the air out of the thing before tightly capping it, it seems to stay fresh for a long time. I have a container now (3/28) that has a 3/15 expiration date, that still smells as good as the day I first bought it. Thought this might be interesting to somebody.

Joe, K5JB



Wheatstraw Meeting

Dover OK March 10, 1996 meeting was called to order by Johnny, K5GBN, our president, at 2:30 p.m. Johnny announced that the secretary would like for everyone to indicate whether they are a current member of ARRL so he could accurately report our status as an affiliate club. Then self introductions were called for.

The minutes of the February meeting were read and approved as read. The treasurer's report was given and approved.

There were thirty one present, members and guest. The president called for any announcements. Ann Peil's birthday was March 6. Jim, N5VDY, and Dennis, KB5TGT, Payne's 35th anniversary was the 11th of March. Verlina Selby is selling the late Ray, K5LLX's, ham gear and some TV things, I think possibly testing equipment. I understand he had a lot of interesting gear. The sale will be March 23 and 24. This sale notice will probably be too late for readers. We are not having any problems with the Wheatstraw repeater now.

We are having some amateurs checking in from the OKC area. We hope it will continue on and grow. We enjoy having them.

Joe, WA5FLT, thanked everyone for their thoughts and support of the loss of his father.

Johnny, K5GBN, talked to Bill Wyatt, KD5JR, who informed him that on April 3 at 7:30 p.m. there will be a weather seminar presented at the Geary community building. Bill is also looking for a tower site or two to link Woodward with the National Weather Service in Oklahoma City. The Woodward Radio Club is sponsoring this project. Bill is involved in the project of setting up automated weather stations throughout the state that report to the NWC and provide the information that we see on

the local weather reports.

There was some discussion about the Mooreland Eyeball QSO that will be held on April 13 and 14. Ray, AB5Z, made a motion that the Wheatstraw Radio Club caravan to Mooreland on the 14th and hold our meeting during the drive up to Mooreland since it is our regular meeting day. Margaret, WA5RLP, seconded the motion and the Club voted in favor of it.

The club caravan will leave McBee's Steak House at 8:30 a.m. Sunday morning. It is located on hiway 33 just east of Wheelers Grain. Some of the group plan being there earlier so they can eat breakfast before 8:30.

The meeting was turned over to Wanda, KC5GTW, for the entertainment. Wanda had a word game to play. Father Joe, W5JEB, had a paper matching game.

Meeting adjourned for refreshments, including a cake from the Wilder's 50th anniversary.

Guests were, Bill Wehling, KC5OKG, and his wife, Martha, from Enid. Kim Farrar, N5FRS and two children from Dover. Kim is the daughter of Sue, KB5TNE and Ray, AB5Z, of Longdale. Vera Hladek and aunt Bertha Brown from Wichita.

There were reports on Ralph, WA5PFK, and his wife Goldie's 50th anniversary on Saturday, March 6, 1996, large crowd and extra nice reception.

I heard, but not from the official Secretary, that we have a new member, Bill, KC5OKG. We hope so. We will be glad to have you and hope you will be well pleased with the club. We invite others to join us.

Ralph, WA5PFK

Noticeable Swing from "if" to "when"

The New Zealand based Organisation Requesting Alternatives By Codeless Examinations (ORACLE) confirm they are prepared for ongoing lobbying for removal of the international regulation on Morse code testing. ORACLE is now looking for wider afield to assist lobby groups in other countries.

Monitoring of information in amateur radio circles since WRC-95 was held in Geneva last October and November has revealed a significant opening up of discussion on Morse testing requirements. The proposal from New Zealand to remove the regulation at WRC-95 was opposed largely on procedural grounds. Normally a two year notification is needed for an agenda item. However, the substance of the proposal was recognized by several administrations and consequently review of all amateur regulations was agreed to go on the provisional agenda for WRC-99.

I read where Canada is thinking to begin to agree with the removal of international code testing as is New Zealand.

Man Found Making False Distress Calls

The FCC and U.S. Coast Guard combined forces on February 12, to locate a man making distress calls to the Coast Guard over his marine band VHF-FM radio. FCC tracked the radio signal to the man's home in Arnold MD from where he had been broadcasting for more than five hours.

The 25 year old man (whom the FCC did not identify) was found making calls and operating the radio without a license. The violations could result in both civil and criminal penalties up to \$10,000 and one year in jail per violation. In cases of false distress calls in which water or air resources are deployed, the caller can be held responsible for all cost associated with the search and rescue efforts.

The Coast Guard receives thousands of calls a year from vessels operating in the upper Chesapeake Bay. Many of these come from boaters in trouble and result in extensive search and rescue efforts. Besides legitimate calls, however, there are those that are not. These can range from a quick, "Mayday, Mayday, Mayday" with nothing further, to lengthy and detailed reports of invented shipboard fires and terrorist attacks. The Coast Guard investigates every distress call as if it were a true emergency.

The man was calm but his distress calls var-

ied and he could not give the Coast Guard his location. Getting repeated inconsistent reports from the man, the Coast Guard contacted the FCC in Columbia, MD, requesting an investigation with tracking equipment. FCC agents were able to trace a signal to Arnold and the man's front door. The man admitted to making the false calls.

These articles are from the W5YI newsletter.

It Started Trouble

Mr. A., a man of business, hired an office boy. Mr. A. was bothered a great deal with callers. So one day, he told the new office boy, "If anyone calls today and wants to see me, tell them that I am busy and can't see them. If they insist on seeing me, tell them that's what they all say." Soon afterwards a lady called and asked to see Mr. A. but the boy said he was busy. Then the lady said, "I must see him. I am his wife."

The boy replied, "That's what they all say."

Unknown Origin

A young man was trying to impress some people he'd just met at a party.

"My family's ancestry is quite old, dating back to the days of King Henry VIII of England," he boasted. Turning to an elderly woman seated next to him he asked, "How old is your family, dear?"

"Well," she replied with a reserved smile, "I can't really say because all our family records were lost in the flood."

Ralph, WA5PFK

Gift of Love

(The following is the homily that Ralph read to his wife, Goldie, at the 50 year marriage celebration. He sent it to me to be shared with you readers -- ed.)

Goldie, I want you to know in these past fifty years not one time have I doubted your true love for me. Full trust and respect is a big part of loving.

As the time passed and through the creation by God, you gave us two lovely babies, Carol and John. You kept them very clean,

and trained them at a very young age. We brought them up in a way so those who knew the children would love them too. Do you remember when we took the children to church before school age, they sat there looking straight ahead, never looking back or saying a word. People would ask the children, "Who spanked you before you came to church, your mother, or your father?" They couldn't believe it.

Goldie, you are always concerned about me just feeling low or bad, giving me the best of care.

When it comes to cooking, you have always been an excellent cook. I never told you why I ask so many times just before mealtime what you are having for breakfast or dinner. You amaze me how you do it. Sometimes you tell me, "I do not know yet." Sometimes, "I hadn't thought about it." Other times you say, "Oh, I will get in the kitchen and whip up something." You do just that. It never matters what you cook; it always smells and tastes good. The last cold spell we had in February, I came to the back door opening it to come in. Oh! What an aroma! I thought to myself, "Oh boy, we are having something good today." Well we did, a large pot of beef and vegetable soup with a hot pan of cornbread made from scratch and spread with butter.

You have learned to bake and decorate cakes. You sew and make anything you wish. You can crochet, knit, and make candies; the best peanut candy I have ever eaten. Whatever you set out to do, you can.

Carol grew up going through high school here in Watonga and on to some college, then went to nursing school, getting her LPN license. She later married Franklin J. Sissons. We call him Frank. Frank does not smoke, drink, or have any bad habits that I have ever heard of. They have three lovely youngsters; Jeff, a freshman in college, twins Kevin and Wendi, age seventeen in high school. All the family are active church members.

John went to OSU getting an electrical engineering degree. John married Linda McCray. Linda is an accountant, a school

teacher, and a pianist. John and Linda's family have no bad habits. They have two children; John Ralph III, a senior this year and Janet who is sixteen, and a high school student. Both children play music and sing. John and Linda both teach Sunday school. The family is active in constructive programs.

After fifty years, the reason for mentioning it to you: Our teachings and guidance have us proud of our families. I want you to know that I feel you have gone past the half way point of loving and teaching our children. I love you for being the way you are. We have hurt each other's feelings a very few times. Neither of us has talked back to the other. An apology filled our needs for loving each other. May God continue to bless us. I love you.

Ralph, WA5PFK

Packet Deviation

Many new packet radio operators have difficulty because they don't set the transmit deviation on their rigs. It is pretty simple if one just listens on another receiver and sets the thing.

However, if there is a more subtle problem, such as when the deviation seems correct, but there are a lot of retries (given RF setup is decent) the problem could be twist, or excessive difference between high and low tone deviation levels. A simple and useful indicator can be made by connecting a fairly sensitive VOM to the other receiver speaker's leads, turn up the volume to get a meter indication, and watch the needle movement on the AC scale. Use the TNC's calibrate command to measure high and low tones.

If you can read the signal from someone who has calibrated his transmitter's output you can put some deviation quantities to your readings, but they will be volume control setting dependent.

Measuring deviation this way will include the effect of de-emphasis in the receiver, but you can compensate for that. Correct some of the twist by adding shunt or series capacitance to your mike audio leads and you will be amazed at the improvement.

Joe, K5JB

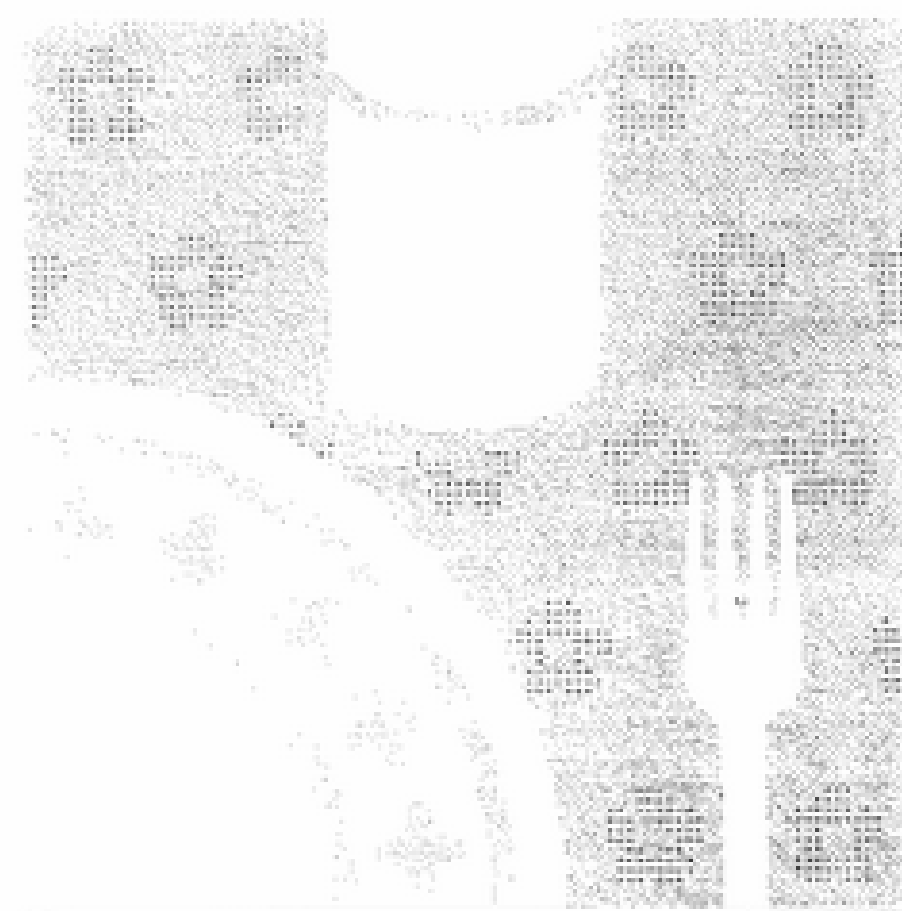
CHIT-CHAT

Last month we cut my article down to fit in the C&E. So this month although a little late for St. Patrick Day, I have decided to go ahead and share these recipes with you. They are great anytime that you want to cook something different and special for family or friends. They are both basically easy to master. Please read both carefully before attempting to make either recipe. The bread does take some time to create and may look hard to make, but it is not.

New England Boiled Dinner is one that you can change as your tastes buds dictate. This recipe I got from Hals' father, he loves to cook. I use the largest pot I own for this meal. Actually it's my lobster pot and the one I use for canning stuff. Ham can be used instead of corned beef, veggies can be traded for others your family likes (Peas, Green Beans, Squash, etc., do not work well in this recipe, they fall apart.). Corn on the cob is a great replacement for turnips. If you choice to use a ham please adjust cooking time according to instructions on the package. The meat can be cooked ahead of time, refrigerated so that the fat can harden on the surface of the meat stock and be removed before adding the veggies. This simple step would cut the amount of fat greatly. Keep in mind that New England cooking is on the bland side, they season it at the table to individual personal taste. Relishes, sauces, pickles, seasonings, and butter are usually placed on the table along with the meal.

The finishing touch to this dinner would be to serve it with Irish Soda Bread. In Ireland, this bread is traditionally cooked over a smoldering peat fire. It gives it a very distinctive flavor which we can not copy in our modern kitchens. The closest we can come to achieving the original taste is the adding of caraway seeds and raisins to the recipe. I use $\frac{1}{2}$ wheat flour and $\frac{1}{2}$ all-purpose when I make mine, but that is personal taste. These simple loafs are round and served at every Irish meal today in homes across Ireland.

Enjoy! Next month, I will give you a little preview of some of the programs planned for Ham Holiday with the female ham in mind. Linda, NILPN



NEW ENGLAND BOILED DINNER

Recipe of Louis Miller, KBIZQ's dad

5lb. To 7lb. Corned Beef
2 cloves garlic
8 peppercorns
2 bay leafs
1lb. Rare whole carrots, washed and cut in $\frac{1}{2}$
8 small onions, peeled
4 medium turnips, washed and quartered
6 parsnips, peeled and cut in $\frac{1}{2}$
6-8 medium red potatoes, washed
1 large head cabbage, cut into wedges

In a very large pot, cover meat with water. Add garlic, peppercorns and bay leafs. Bring to boil; reduce heat and simmer for 3 $\frac{1}{2}$ hours. Remove meat, cover and set aside. Add potatoes, carrots, onions, turnips, parsnips, and boil for 45 minutes or until veggies are tender in beef stock. Add water as needed to keep everything covered. Add Cabbage and meat back into pot. Cook until cabbage is tender, about 15 minutes. Now is the fun part! Remove meat and slice, separate veggies as they are removed from pot into warmed serving bowls. It's ready to eat.

IRISH SODA BREAD

4 cups all-purpose
3 Tablespoons sugar
1 Tablespoon double-acting baking powder
6 Tablespoons butter
1 $\frac{1}{2}$ cups dark seedless raisins
1 Tablespoon caraway seeds
1 teaspoon salt
2 eggs
1 $\frac{1}{2}$ cups buttermilk

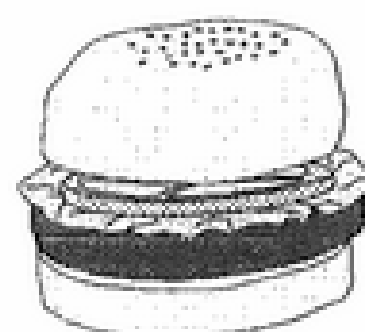
Early in the day:

Preheat oven to 350 degrees. Grease well a 2 quart round casserole. In a large bowl, with fork, mix flour and next 4 ingredients. With pastry blender or 2 knives used scissor-fashion, cut in butter until mixture resembles coarse crumbs; stir in raisins and caraway seed.

In a small bowl, with fork beat eggs slightly; remove 1 Tablespoon and reserve. Stir buttermilk into remaining egg; stir into flout mixture just until flour is moistened. (Dough will be sticky.) Turn dough onto well-floured surface; with floured hands, knead about 10 strokes to mix thoroughly. Shape dough into a ball; place into casserole. In center of ball, with sharp knife, cut a 4 inch cross about $\frac{1}{4}$ inch deep. Brush dough with reserved egg.

Bake about 1 hour and 20 minutes or until toothpick inserted in center comes out clean. Cool in casserole on wire rack 10 minutes; remove from casserole and cool completely on rack. Makes one round loaf.

Recipe gotten from *THE GOOD HOUSEKEEPING COOKBOOK*; Hearst Corporation, MCMLXXIII.



Dairy Kurl Drive Inn

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Sat: 8:30-2:00pm
Sun: Closed

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Edmond Amateur Radio Society

APRIL 1996

The board meeting in March was well attended. A few members were missing and missed, by the way anyone can come to the board meetings. They aren't a secret or anything. Come and see your board at work.

There was a weather meeting March 4th in the Edmond community center. There were about 45 people there. If you did not make it you missed a good one. Thanks Jim Purpura, KB5YHT and the National Weather Service for an informative program.

March 16th was THE day for the wearin' of the green. The 14th annual St. Patrick's Day Parade went off without a hitch. Lee and I would like to take this opportunity to thank every one that helped with the parade. The parade committee also sends their thanks. I don't know about you but I sure do enjoy a good parade. I think I even saw a big green leprechaun.

Sunday March 17th was the business meeting. I did not get the final count, but there were 30 to 35 persons there. Chris Lee, KB5YTD from Channel 5 talked about needing a liaison. If you are interested call him at 475-5259. John Brassfield, N5SAM, President of OCAPA, attended the meeting to talk about Field Day. We are going to share field day with OCAPA & FAA the site will be Deer Creek School at 206th and MacArthur. Needed at this time are canopies and generators. More info to come.

"DX THURSDAY"

The club station is now open every Thurs. from 6 p.m. till 10 p.m. Jim, N5OHL has volunteered to be at the club station every Thursday evening. This is a good chance for anyone wants to go to the club station to operate one of the radios, do some code practice or just to get together or whatever. The club station rules are just about ready, just waiting final approval. By the way thanks Lee for the packet station at 145.070 Mhz.

By the time you read this the MS Walk-a-thon should be over. It is set for Sat March 30th from 1 - 4 p. m. We were asked to provide communications from the rest stops.

Saturday, April 13th from 9 - 1 p. m. there is a CPR class in the Salvation Army basement. Call Carole, KC5EXR to sign up.

Sunday, April 14th we have been asked to help with a motorcycle race. To sign up contact John, WB5SYT. The race will be at Draper Lake.

There are plans to visit the OG&E power plant in Ponca City in the month of April. The date is not firm yet but will be announced on the net. Bill Green, N5YDU will conduct the tour. Thanks Bill!

There is a weather link in the works. It will stretch from Norman to Woodward and points NW. Repeater sites and equipment are being worked on. More info as it becomes available.

Talking about weather Kevin, N5USQ needs some help with net control. When there is severe weather there is a need for a relief person at the EOC. There needs to be more than one person

trained to run the weather nets.

I would like to welcome some new members to the club: Carol Ayers, KC5EXR; Don Ayers, KC5BRO; J.B. Bogner, K0JF; Steven Cornman Jr., KB5CDF; Terry Deas, KC5GDC; Curtis Foote, KC5GEP; Harold Hall, KA5AGM; Judy Johnson, KC5SMI; Patricia Keeper, John Nelson, KC5SRH; Pete Holcombe, KC5SXX; David Storey, K0TYC; Eric Coxsey, KC5TCZ. If you hear them on the radio stop and say hi and welcome to the club.

The next board meeting will be Wednesday, April 10th at 7 p. m. at the club station.

The next dinner meeting will be April 20th at 6:30 p. m. . The place has not been decided upon yet so listen to the Monday night net.

Don't forget the Saturday morning breakfasts at Gambles Country Kitchen at 8:30.

APRIL BIRTHDAYS

N5OLX STEVEN
KB5OFR WALLY
W5TYR RAY
N5CSJ CLIFFORD
KB5DZU ED
N5JKY MIKE
KC5ICV PHYLLIS
N5VWI SUE
K5SKA BILL
N5USQ KEVIN
HAPPY BIRTHDAY!

73

Edith, KA5YPX

Jim Nolen
Enrolled Agent

Jimmie Nolen
Steve Moore

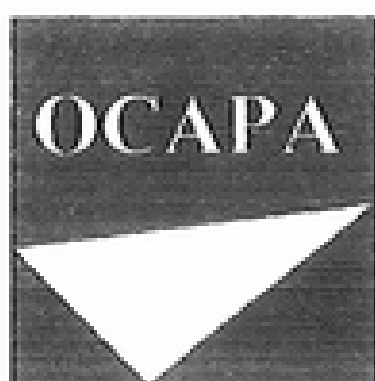
NOLEN'S ACCOUNTING & TAX SERVICE, INC.

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405-677-6026

2717 S.W. 44
Oklahoma City, OK 73119
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"Professional Service With a Personal Touch"



Oklahoma City Autopatch Assn.

O. C. A. P. A. NEWS

Rumor has it, and if true, April 1, 1996 could be a date to be remembered by the Oklahoma City Autopatch club members. An anonymous donor, known only to the author of this article, has supposedly bequeathed a beautiful 160 acre farm to the club for amateur radio purposes. This tract of land is located just west of Edmond and has been known throughout the years as one of the show places of the area.

The present improvements on the facility include a 2,000 foot tower, with elevator to the top, erected for the private use of the former owner for short wave listening. The ten bedroom dwelling, constructed of native stone, has bathrooms for each bedroom, a formal dining room which will seat 50 people, living room, den, recreational area which includes a 20 by 60 foot indoor swimming pool and kitchen facilities with all modern cooking equipment.

In his will, the donor has stipulated certain requirements to be met by the club. The presiding president is to reside in the dwelling during his office tenure. The present maids, butlers, gardeners and chefs are to be retained by the club, with their salaries to be paid from the trust fund which has been set up. Also included in this trust are ample moneys for maintenance of the property, taxes, insurance and all needed improvements needed for the next 50 years.

Prior to his death, the donor had installed on the tower the best of antennas for all repeaters, four sets on each leg, all omnidirectional with excellent coverage and no dead areas. These antennas are manufactured by the same company who has recently introduced the new HF vertical antennas described on page 191 of

the April issue of QST, APRFOOL002's for two meters, APRFOOL006's for six meters, APRFOOL220's for 220 and APRFOOL440's for one and one-quarter meters. The antennas are all fed with two inch heliax and are guaranteed to be water proof. At the very apex of the tower, the new AF2000-IAH antennas are mounted, one for each band, 1.8 to 30 Mhz, including all W.A.R.C. bands, also being fed with two inch heliax. These antennas are once again described in detail on page 191 of the April issue of QST magazine.

All antennas lead to the "shack" located at the foot of the tower, where all repeaters are housed along with the ultra modern ham station. The equipment for the high frequency bands includes an ICOM IC-775DSP, IC-736 and Johnson Ranger, a Kenwood TS950SDX, TX870S, and National NCX3, a Yaesu FT 1000MP, FT 1000D, and a Swan 350. A Henry 3K-Ultra graces each transceiver. No microphones are attached to any transceiver, only CW keyers and computers. There are several major brands of VHF and UHF all mode transceivers in the shack for voice, data and CW, as well as slow and fast scan amateur television. Anything connected to amateur radio is available, including test equipment for any purpose. A full time repairman is on duty for any necessary maintenance to equipment, one who has been certified by all major manufacturers. Two sets of backup generators are on line in case of power failure.

The "shack" is modern in every detail. In addition to housing all the equipment, it has three bedrooms for operators needing to sleep during contests, and full kitchen facilities. A room is available for club meetings with large leather reclining chairs for 100 members. Sofas are available for those who need to nap should meetings become boring.

Located on the farm is a 40 acre lake, spring fed, and heavily stocked with black bass, crappie, perch and carp. Covered slips are constructed for the bass and ski boats as well as the two pontoons for family use. A ski jump is in the middle of the lake. The club member owning the

largest boat is to be designated as the Captain of the Fleet. Surrounding the lake is an 18 hole professional golf course. Mike, N5VIT, the club member most resembling a professional golfer, is to become the full time pro. A greens keeper maintains this to top PGA standards. There are six tennis courts, horseshoe pitching pits, croquet courts and a lighted softball field. Permanent facilities are constructed around the farm, making it unnecessary to rent Porta-Potties.

Only club members and invited guests will be allowed to the premises. A special entrance gate is installed which requires a "Pike Pass" to activate. Security cameras and guards are located at the entrance.

This is certainly something special for our club and a place to be enjoyed by all. Further details could be mailed to each member in the future as how to take advantage of these facilities. Just remember, April 1, 1996, a day that might go down in history.

K5NK

OCAPA Hats and Shirts are ready to order.

Contact Teresa Bottoms, KC5NBZ
373-1638

Hats and Shirts have OCAPA Logo and your Call. Shirts are "Hanes Activewear" 50/50 cotton/polyester with collar and pocket.

Colors: Navy Blue with Red & White Logo, Call letters in White.
White with Red & White Logo, Call letters in Navy Blue

Hats are \$9.00 and shirts are \$17.00 up to size XL, Larger sizes are available \$1.00 per size larger.

All orders must be prepaid.



Oklahoma DX Association

FROM THE PREZ

It was great to see so many friends at the Green Country Hamfest. I noted a great deal of socializing, much heated haggling, and a few bargains. The crowd seemed large to me. Thanks to all the volunteers who put forth a large effort to make it a success.

The details of the OKDXA business meeting appear elsewhere in our column. I believe that at each meeting our members are taking steps to improve our association and the actions taken at this meeting are no exception.

Tentative plans are being made for the second OKDXA Banquet. Mark (pencil in) your calendars for Saturday, November 9. The proposed plans are to keep most things the same with new programs. Since the plans are not firm, I will save the details for later.

The next planned OKDXA activity is at the Lawton Hamfest. Tentative plans are to have a table and a business meeting. I regret that I will not be able to attend as I will be in California on a business trip that includes a visit with my new grandson and his parents.

OKDXA will have election of officers at Ham Holiday in Oklahoma City. Mark, N5OGP, has volunteered to chair the nomination committee. He will be selecting the members of his committee. They will be looking for a few members who are interested in leading the association. If you are interested or if you have a nominee, please contact Mark.

OCAPA has invited OKDXA members to join them in their Field Day activities. They have one of the larger gatherings in the State. They also know how to have fun, so join in. Watch for details in their column.

The installation of the Oklahoma City packet cluster link to Arkansas has been delayed due to personal time conflicts and inclement weather. All equipment is

ready for installation. We will get it in as soon as possible. Hope to see everyone soon. Jim, WV5S

TREASURER'S REPORT

Membership

The current membership stands at 83 as of this writing (27-Mar-96). We gained three new members at the Green Country Hamfest, two of which are first-time members. These are Merle Eichenfeld, W5IER, Charlie Calhoun, Jr, KB5ZUD, and Dave Romere, KA5OWI. You will find their addresses later in this newsletter. Welcome!

Green Country proceeds

Proceeds garnered at the Green Country Hamfest totaled \$160. Eighty dollars came in for memberships and \$80 for OKDXA caps.

Thanks All!

Thanks to OKDXA member Al Summerfield, KC5FLB, of Ponca City who "babysat" the OKDXA fleamarket tables during the OKDXA business meeting at Green Country.

OKDXA business conducted at Green Country

Several significant changes were implemented by a vote of the membership attending the OKDXA business meeting at the Green Country hamfest. Read on for a summary ...

- Officers and Directors present were introduced. Representing the OKDXA Executive Committee were President Jim Hood, WV5S, Vice President Ross Hunt, K5RH, and Treasurer Mark Byard, N5OGP. Jeff Martin, K5WE, our Secretary had other commitments and could not attend. Nate Bargmann, KA0RNY, was our only Director present.

- President Hood announced that N5OGP had been appointed to chair the nomination committee for the annual election of officers which will be held at the July Ham Holiday in OKC. Mark will select his committee and secure nominations which will be presented to the membership in the June and July issues of this NL.

- Four changes in the membership structure were voted upon and implemented:

1) Dues will now be prorated by quarter for first-time members joining mid-year.

2) A family membership was instituted. After one family members joins at the full membership price (currently \$20/year), additional family members may join for \$5/year each. A family member is defined as a spouse, or a child still claimed as a deduction on income taxes.

3) A Senior Citizen membership was instituted. Those applicants 65 years of age or older may join for one-half the current dues.

4) A Special Membership was instituted for those who suffer significant and total handicaps such as blindness, deafness and paraplegias. These individuals may join for one-half the current dues.

- The Executive committee and Directors proposed the following structure change be made to the Executive committee. The current positions of President, Vice President, Secretary and Treasurer be changed to ...

President
Vice President
Vice President
Secretary/Treasurer.

The rationale behind this proposal is that, due to the nature and functioning of our Association, the Secretary is essentially without a role except for recording minutes at perhaps two business meetings per year. The President and two Vice Presidents would form a leadership team with the President appointing their duties. For example, one VP might be responsible for Meetings and Banquets and the other for Administration.

This proposal will be presented to the membership for a vote at our Ham Holiday business meeting.

- President WV5S asked for suggestions for a fall banquet. All comments were in favor of another fall banquet in similar style as last year's. The tentative date will be November 9.

THE CONTEST CONTINUUM

by Coy Day, N5OK

In my continuing effort to build a competitive contest station without spending a lot of dollars, I realized the hardest part was getting started.

Dreaming is the easy part. Putting it down on paper is a little more difficult. However, the real tough part is actually getting out the tools. Siting the first tower was easy since I have a rather large structure to anchor to, a fireplace chimney. Please note that I wouldn't recommend this if you use the fireplace. Part of my reasoning for siting it here is that the back of this chimney is only about 10 feet from the corner of the room that I have set up as the ham shack. This keeps coax lengths and the rotor cable to a minimum. (Note: Check out "www.4w.com/ham/KA9FOX/" for some neat hints on putting up towers.)

How do you get the coax from the shack to the tower? I've used several methods in the past, including replacing glass panes with Plexiglas and bulkhead connectors, going up through a wall across the attic out through the soffit, and last but not least, straight through the wall. This time, I chose straight through the wall because it was the shortest path and it minimizes the number of connections in the coax.

I selected a point between two studs about 10 inches above the floor. I then measured from the corner of a nearby window on the inside and then on the outside to see where the hole would come through. I checked for water pipes, vents, gas and electric services being inside the wall. For a through pipe, I used a piece of 3 inch PVC about 18 inches long. I caulked around the PVC on both sides and connected a 45 degree down angle on the outside. I then carved foam rubber plugs to wedge in each end of the PVC to keep the weather, etc. out. Now to get out the shovel!

That's it for this month. Remember to list the OKDXA as your club affiliation when you are contesting and then SEND IN THE LOGS!

DX NEWS

ARRL President Stafford appoints committee to study DXCC

ARRL President Rod Stafford, KB6ZV, has appointed John Kanode, N4MM, to chair a committee to review the entire DXCC Program. The ARRL Board of Directors, at its meeting in Savannah, Georgia, asked President Stafford to name the committee. The panel will recommend

changes necessary to "encourage broader participation by more amateurs, 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."

In any case, there are no plans to scrap the DXCC program, said DXCC Manager Bill Kennamer, K5FUV, one of those named to the committee. "It's too important in the greater scheme of things, internationally," he said.

The committee is unofficially known as the DXCC 2000 Committee, reflecting its goal to have any changes to the DXCC program in place by the year 2000. Kennamer said he does not anticipate restarting the entire DXCC program, as has been suggested. "But we might make certain changes to make it more of a level playing field," he said. Applicable "country" credits from the current DXCC program will continue to count regardless of what other changes may occur.

Also appointed were Larry Price, W4RA; Rick Roderick, K5UR; Jim Maxwell, W6CF; Walt Stinson, WOCP; Garth Hamilton, VE3HO; Bob Winn, W5KNE; Wayne Mills, N7NG; and Chuck Hutchinson, K8CH. (Taken from the ARRL Letter)

No Amateur radio from Myanmar, yet ...

The recently announced XZ1N DXpedition has been postponed. For the immediate future, the door to amateur radio in the Union of Myanmar will be closed. There have arisen a number of unsettled regulatory matters between the military and several ministries which must first be sorted out before any further amateur radio activity can proceed. It would seem that the same regulatory issues that resulted in the sudden and unexpected postponement of the XZ1R operation have lead to the same action for XZ1N.

Those of us who have worked closely with members the Myanmar government are confident that the overwhelming success of the XZ1A operation from Yangon will be the foundation upon which future demonstration projects can be built. With the right input, one day we may even see the establishment of a new

and permanent amateur radio service with licensure of Myanmar nationals. However, that day remains some distance off in the future.

So, those of you with XZ1A cards should treasure them. It may be a while before contacts flow freely once again from the Union of Myanmar. The members of the XZ1N team remain in good spirits and optimistic that in the near future we may be fortunate enough to offer this location to many of the Deserving. Best 73 de Warren/KF7AY

Postage update ... Brazil

Well known DXer Fred Souto Maior, PY7ZZ/PY0FZ, supplied the following on the Internet DX Reflector regarding current postage rates in Brazil.

"... (this is) a good opportunity to spread out the postal rates from Brazil since I recently made a trip to PY0F land and got a lot of mail with insufficient return postage.

US\$1 (green stamp) - Not enough to cover return postage. Now it is around US\$1.15. Also its not permitted to send currency inside the envelopes here in Brazil, so maybe mail with money inside will never arrive to its destination. And as people on the Post Office already know that Amateur Radio mail can provide them US\$. PLEASE NEVER PUT CALL SIGN ON THE ENVELOPES and don't send green stamps. First US\$1 isn't enough to cover return postage. Second your mail may never reach its destination. But if you really intend to send green stamps after all those comments, send 2 green stamps and be sure that nobody can see the money through your envelope, and NEVER PUT CALL SIGNS, only name and address. (And pray that your mail will arrive safe).

IRC'S - One IRC will cover a single envelope with 1 QSL card to any part of the world from Brazil. For more than 1 QSL, 2 IRCs will be needed."

One postal "black hole" eliminated

Stories of green stamp black holes are all too common. It is refreshing to read about an occasional victory over the pilferers. Fred Calim de Carvalho, PY2XB, writes the following about Joao Batista G. Mendonca, PY1UP, who is

operating as PY0TI until approximately June 12th.

"He (Joao) says that the problems regarding mail violation seems to be solved. He said that during the "dark days" last year, when his mail was continuously violated, he wrote a letter to the post office top Director in Brasilia. The post office Director fired and transferred personnel based in PY1UP's post office. Since then, he has not realized any mail violation.

He says that he has been sending the logs to the continent and cards are being answered even before he gets back. Good Luck."

And by the way, if you work Joao on Trindade (PY0TI) his QSL address is ...

Joao Batista G. Mendonca
Rua Alfredo Backer 536
Apto 1101, Bloco 05 - Alcantara
24452-000 Sao Goncalo - RJ
Brazil

And remember send only IRCs into Brazil. One will get you your QSL. Two will help Joao with those who don't send enough!

Future significant DX operations

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

- AGALEGA, 3B6. Barry Fletcher, ZS1FJ/G3MFW and several ZS DXers anticipate activating 3B6 in May 1996. (Internet DX Reflector)

- AMSTERDAM IS., FT8Z. Mehdi, F5PFP, is planning an expedition of about one month's duration to one of the rarest Amateur radio countries. The trip is planned between Nov 96 and Feb 97. (425DXN)

- ASCENSION, ZD8. Jim Neiger, N6TJ, returns as ZD8Z Apr 16-24. QSL to VE3HO. US return postage is acceptable. (TDXB)

- 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)

- CEUTA & MELILLA, EA9. The call of the Alboran island expedition planned from 19 to 21 April will be EG9AI. QSL via EA4URE. (425DXN)

- CHAGOS IS, VQ9. Ron, AA5DX, is in VQ9-land. Ron's call is VQ9DX and he will be concentrating on 160, 80 and 40. He will be there for about 4 months. QSL to Ron's address in KP4, Ron Marra, Marginal 301C, La Rambla Suite 205, Ponce, PR 00731 (Internet DX Reflector)

- COMOROS, D6. Michel, FR5HG, is active from Comoros as D68SE. If you need him on the 40 mtrs band he is QRV on 7.010 Mhz from 0230 to 0300 UTC. QSL via F6FNU.

- FALKLAND IS., VP8. DA4RG, will sign VP8BPZ from mid-May to mid September. He plans to operate SSB only, not nets or lists. QSL via GW8VHI or DA4RG. (ARLDXB)

- GRENADA, J3. Joe, WB8GEX, will be active Apr 5 -12 as J3K on all bands. QSL home address. (TDXB)

- GUAM, KH2. JH6RTO will sign AH0AV/KH2 April 11 to 14, concentrating on 10 and 17 meters. He will be in the JIDX Contest. QSL via JH6RTO. (ARLDXB)

- HEARD IS., VK0 - Early 1997.

- ISLE OF MAN, GD. From 26 March to 25 April Rick, AI5P, will be /GD. QSL via AI5P. (425DXN)

- KERMADEC IS., ZL8. Ron Wills, ZL2TT, writes in a DX Reflector release "Just to advise everyone that things are going well for this DXpedition. Ken Holdom, ZL2HU has sent to ARRL and the ARRL DXCC Desk, copies of photographs of the ship and copies of all permits and licenses. He has also sent them to QRZ DX amongst others. Other than finance, all is now sorted out for the DXpedition to be active on all bands, all modes for a period of 11 days, May 4 -14, 1996." Donations to The Kermadec DX

Association may be made c/o Ken Holdom ZL2HU, POB 56099, Tawa, New Zealand." (Internet DX Reflector)

- LAOS, XW - Adri, PA3BWS, hopes to obtain permission to operate for a subsequent trip planned in 1997. (ARLDX)

- MACQUARIE IS., VK0 - VK0WH by Warren Hull, VK4ATS, on 7010 and 14040 Khz on CW and 14260 Khz on SSB. The QSL route is VK9NS. One card per envelope please.

- MADAGASCAR, 5R. Gerard F2JD got his licence. Call is 5R8EN. He will stay in Malagasy until September. He works with a long wire and he will improve his antenna system very soon. QSL via F6AJA (direct or bureau are 100%) (Internet DX Reflector; 425DXN)

- MALTA, 9H. NODXA members and friends will be on Malta from May 17-31 emphasizing the low bands. Callsigns will be 9H3TZ and TY. QSL via DL7VRO. (OPDXB)

- MARION IS., ZS8. From early May until June-July 1997 Chris, ZS5IR/ZS6RI will be active from Marion Island as ZS8IR. Chris will join the 53th scientific expedition to Marion, as the official doctor and will work from base camp on all the bands, also on 6 and 160 meters, in SSB, CW and RTTY hoping to join major contests. The station will be equipped with an IC-735, a FL-2100Z, PK-232 and antennas will mainly be wire due to high winds. QSL via ZS6EZ (ex-ZS6BCR).

- MAURITANIA, 5T. DK3LQ, currently portable 6W1, hopes to be QRV from Mauritania in late March or early April, using the 5T5MB call. (425DXN)

- MYANMAR (Burma), XZ. April 1996 DXpedition postponed. See the article in this newsletter.

- SABLE IS., CY0. Ken, WA8JOC, reports that everything is still "go" for the upcoming June CY0AA DXpedition. The team will concentrate on 30 through 6 meters but will have wire antennae for 40, 80 and 160m. (OPDXB)

- SAN FELIX, CE0. Possible activity during 1996 by CE3HJB and CE3CDV. (425DXN and ARLDX)

- SIERRA LEONE, 9L. Jim, 9L1JC, will be active until at least August. QSL to POB 1031, Freetown. (OPDXB)

The Joe Harding Memorial Scholarship

Sponsored by
Central Oklahoma Radio Amateurs, Inc.

The information requested herein will be used by the selection committee in awarding of the scholarship. All information will be confidential and the application will be seen only by the members of the selection committee. All areas requested will be considered by the committee; however, no single area will preclude an applicant from receiving the scholarship. All applications will receive the same impartial consideration.

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

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

Applications are to be returned by June 15, 1996.

Return applications to:

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

Applicants must be a graduating High School Senior who is a member, child of a member or grandchild of a member of an amateur radio operator. Any questions please feel free to call Don, KC5BRO. Award to be given at the CORA annual Ham Holiday, July 27th.

SCHOLARSHIP APPLICATION OKLAHOMA CITY AUTOPATCH ASSOCIATION

NAME: _____ DATE: _____
LAST FIRST MIDDLE

ADDRESS: _____
STREET

CITY

STATE

ZIP

PHONE: _____

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

ACT SCORES: _____

SAT SCORES _____

RANK IN HIGH SCHOOL GRADUATING CLASS: _____

VERIFICATION BY SCHOOL COUNSELOR OR TRANSCRIPT REQUIRED

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

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

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

INCLUDE A COPY OF YOUR CURRENT TRANSCRIPT.

INCLUDE A COPY OF YOUR CURRENT CLASSES.

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

B. WHAT IS YOUR MAJOR: _____

WHY HAVE YOU CHOSEN THIS FIELD? _____

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

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

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

D. OUTLINE YOUR WORK EXPERIENCE.

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

• ST. HELENA, ZD7. Andy, G4ZVJ will sign ZD7VJ from the island of St. Helena, 29 March - 12 April, CW only on 1827, 3503, 7003, 10107, 14027, 18077, 21027, 24897, 28027 (+/- QRM) listening up. From 16-23 April there may also be activity as ZD8VJ. QSL via new G4ZVJ address: Andy Chadwick, 5 Thorpe Chase, Ripon, North Yourshire, HG4 1UA, England.

• SOUTH COOK ISLANDS, ZK1. Bruce, AA8U, Stanley, K8MJZ, and Marilyn, AG8W, plan to enter the IARU Radiosport Contest in July as ZK1AAU from Rarotonga. Their stay will be from July 11 to 20 and they will concentrate on 160 and 80 meters outside of contest hours as ZK1MJZ and ZK1AGW. QSL via AA8U with SASE. (ARLDXB)

• SVALBARD, JW. Claude, F6EOZ, will be on Svalbard from March 3 until mid-May and will sign either JW/F6EOZ or JW/TM6E. Claude will concentrate on 20m and satellite contacts. Tom Ramberg, LA6VDA, will operate as JW6VDA, Mar 1-10. QSL new home address, Bergstien 3, N-9350, Sjøvegan, Norway. (TDXB)

• TRINDADE, PY0TI. PY1UP is on Trindade Island for another 4 month stay as a crew member of the Brazilian Navy Base. He intends to operate all bands as PY0TI. QSL via his home call. (Internet DX Reflector, ARLDX)

• TUNISIA, 3V. Javier, XE2CQ, will be in Tunisia Apr 14-24 on business and will operate as time allows at the club station 3V8BB. He will operate all bands, CW and SSB. Power is limited to 100 watts. QSLs go to AA6BB.

• UGANDA, 5X. Peter Casier, ON6TT, has signed a contract with the UN to manage their telecommunications team for the World food Program in Eastern Africa. Based in 5X, he will travel frequently to 9X, 9U, 9Q, 5H, ST, ST0, T5, 5Z, E3 and ET, operating as possible. His contract is for 6 mo. to 2 years with time off for the Heard Island DXpedition. He should be on from 5X within a month or so. QSL to ON5NT. (TDXB)

• VIETNAM, 3W. Nikolay, UA0FM/3W5FM is still active every days in CW from 1400Z on 7.005 MHz and in SSB, helped by Sergey (UA0WY), from 1530Z on 7.045 MHz. The

operations should end in May. QSL via direct to: P.O. Box 66, Vladimir, 600011, Russia. (425DXN)

MONTHLY FEATURES

Meet the Sysops

No submission for April.

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 have or will preview.

Jan 96 - *The GOLIST*

Feb 96 - *QRZ DX*

Mar 96 - *The DX Bulletin*

This month - *The 59(9) DX Report*

The 59(9) DX Report is the third, and newest, of the commercial trio of DX bulletins available by subscription. Like its competitors, *The DX Bulletin* and *QRZ DX*, it is printed on an 11x17 format, folded to produce a 4-page, front/back bulletin. And like its competitors it is divided into familiar segments detailing DX news and significant DXpeditions, IOTA news, DX Bits and Pieces, The Listening Post (a list of stations heard by band/date/hearer) and finally the QSL Pipeline which gives addresses and routes. *The 59(9) DX Report* is published by Bob Nadolny, WB2YQH, in Spring Brook, NY. The price is \$38 for 50 issues (a one-year subscription) or \$20 for a six-month subscription. Bob's address is POB 73, Spring Brook, NY 14140. His telephone and FAX is 716.677.2599. You may contact him on email at the599rpt@aol.com. Bob will supply a free sample of his newsletter upon

request. Please provide an SASE. Check out Bob's Web site at ...

<http://members.aol.com/the599rpt/dx.htm>

Doing your ALL to get that QSL card by N5OGP

Getting Your Request and Payment Delivered

• The Stealth Envelope •

QSLing can be divided into 1) finding the QSL route, 2) deciding upon the proper payment for the return of the DX QSL, and 3) getting YOUR request and payment delivered unpilfered. Our monthly series on DX Information Sources will hopefully help you locate resources for QSL routes. Over the next few months we will discuss the remaining two topics ... types of payment and getting your request delivered. We will start with the last item.

Perhaps the biggest challenge in today's QSLing game (besides coming up with enough money and Prozac) is getting your request and payment DELIVERED - safely, intact, unmolested, and unpilfered. You have put in the time and effort to work the station (over the East and Gulf Coast stations, no less) and you have managed to secure the DX station's QSLing address, both of which can be mentally exhausting and frustrating exercises (we call this fun, right? ha). Now you are faced with the real possibility that your request and payment may never arrive at its destination. Hmmm ... make that Prozac and Mylanta!

Mail in certain parts of today's globe is no longer sacrosanct and the problem is likely to get worse. It is not my intent in these articles to discuss socio-ethics, poverty, hunger, greed, and how they might lead to thievery. The bottom line is that mail, especially mail from those countries perceived to be the "richer" of the lot, can be targets for pilferers in some foreign postal systems. In general mail to Canada, most of Europe, parts of the Caribbean and Japan is a guaranteed delivery while mail sent into some Latin American, African and Asian countries is very insecure!

Our only defense against thievery is doing our utmost to create the "stealth"

envelope, a piece of mail that is nondescript and less likely to draw the attention of the crooked postal clerk. Here are some pointers.

- Use plain stamps verses those that might catch the eye. Mail can be stolen just because the stamps are pretty or exotic. We are currently pretty much limited to just one or two \$0.60 airmail stamps. The current one, featuring pilot Eddie Richenbacher, is not exotic enough in my estimation to worry about. In the same vein don't make your envelope noticeable with "cute" stickers or ink stamps. The current USPS airmail rate is \$0.60 for the first 1/2 ounce and \$0.40 per each additional 1/2 ounce.

- Don't write callsigns on the outside of the envelope. If the request is going to an Amateur radio club, abbreviate the club name. For example, a card going to the Upper Slobovia Radio Club could be abbreviated, USRC.

- Use the flocking theory to escape predation. Ethnologists say that flocking behavior reduces the chances of predation on any one member of that flock. The sheer number of animals reduces the odds that any one will be taken; the confusion of the scattering flock confuses the predator and often NO lunch is secured! Some hams play the odds by sending multiple-contact QSL requests in separate envelopes on different days. This will cost more because you will use more stamps and you must include payment in each envelope but you probably do increase your odds of getting at least one of your requests past a crooked postal employee.

- The USPS recommends that you address your envelope using a typewriter or neat block printing, all caps. The last line should be the country name. Do not put any postal codes below the country name. Automatic Zip Code readers can mistake these codes for US Zip Codes and your letter for Slovakia can end up in Fort Lauderdale! Remember to put U.S.A. in your return address and they also recommend you identify the letter as airmail by stamping or neatly printing "AIRMAIL" or "PAR AVION" on the outside of the envelope.

- Perhaps the most important step of all is to make the envelope totally opaque and free of lumps or bulges. If a crooked

foreign postal employee can see a card and SAE in the envelope your letter is more likely to end up in his pocket than in a sorting bin. The same goes with lumps and bumps. Make your letter as flat and opaque as possible. If you can see the shape or outline of your QSL card and SAE inside your envelope while holding it up to the sun, it is NOT opaque enough! One secret to making a letter totally opaque is to wrap the contents in carbon paper (carbon side out against the inside of the envelope so as not to smudge up your QSL and SAE). Here is how I prepare a request going to what I consider a less than secure country.

I first use the most opaque envelope I can find. I like the manilla colored #10 Stuart Hall brand envelopes sold at WalMart. They are cheap, rugged and on their own, pretty opaque. In the same aisle pick up the Stuart Hall brand 4x6 inch AIRMAIL envelopes to use as SAEs. And before you leave the store be sure to pick up a pack or two of carbon paper. You may have to get carbon paper at an office supply and don't be surprised even if they have to order it! Word processing has pretty much eliminated the need for carbon paper. You can use pencil carbon or typewriter carbon; the pencil carbon is richer in carbon and hence a bit messier. Either style is completely opaque, even against the sun!

Pull out a piece of the 8.5x11 carbon paper and place it on top of the box, carbon down. Fold the flap on your 4x6" SAE backwards (to keep it from self-sealing in a wet tropical climate) and nest your QSL card underneath the flap. Put your payment - dollar bill(s) or IRC(s) - inside the envelope, flat out, non-folded. Remember, avoid lumps and bumps! Place the SAE/QSL card combo down on the carbon paper across the 8.5" dimension and then slide the card and envelope apart a bit to reach the full 8.5" width of the carbon paper. Tape the SAE/QSL in place on the carbon paper using removable tape. You can purchase REMOVABLE Scotch-brand tape in office or art supply stores. Then carefully fold the carbon paper around the QSL/SAE combo and slide it into your mailing envelope. Voile! A totally opaque, almost bumpless letter.

OK, you have concluded that I am completely paranoid and that I see postal pilferers behind every mailbox. Maybe so, but like lots of DXing Hams I've had more than my share of QSL requests disappear into QSL limbo. Who knows their fate? Did my greenstamps buy groceries for a crooked postal clerk and his family? Did it go toward a new radio for a "green stamp collector"? Wherever it ended up it didn't produce the desired result of a DX QSL in my shoe box and another X on my DXCC award ledger.

We still read of many DX Hams complaining of postal pilfering in their respective countries and many of the most active DX Hams are turning to QSL Managers to help them garner their cards. But while you still have to run the gauntlet of less-than-secure postal systems it doesn't hurt to use stealth technology on your mail.

OKDXA STUFF

Welcome new members!

Merle Eichenfeld, W5IER
1110 Cleveland
Sand Springs, OK 74063
918.245.4090

Charlie Calhoun, Jr., KB5ZUD
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918.749.6584
kb5zud@tulsa.com

David Romere, KA5OWI
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Guida, John NJ1V
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Hood, Jim WV5S
wv5s@icon.net

Ingram, Jay W5QVS
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Land, Dave KD5FX
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wb5syt@ionet.net

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

Kudos column

• Congratulations to Ken Case, K5KC, of Stillwater, who received his 100th QSL for 80m! As Ken says, "What's next?"! ha This qualifies Ken for his 5BDXCC submission.

• Rick Roderick, K5UR, has been appointed to serve on the DXCC 2000 committee. This committee, appointed by ARRL President Rod Stafford, will recommend improvements to the program which are to be implemented by the year 2000.

• And finally a hearty "congrats" to Cliff Sikes, AB5UA, who received his 100th card in the mail just recently. Cliff is now bundling everything up for his DXCC submission.

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.

MISCELLANY

Sunspots turn up missing!

Keep those low-band antennas up! Solar seer Tad Cook, KT7H, reports solar activity continues to be extremely low, with extended periods of no sunspots at all. "It looks like 1996 will certainly be the year of the quiet sun for cycle 22,"

said Cook. Current projections show the sunspot minima (i.e., numbers of sunspots observed) will occur this year, with the minimum solar flux still a year off. After the minimum, activity should begin to move upward rapidly, and even 10 meters could be exciting again in a few years, he said.

Current 80 and 160-meter conditions are good, especially with the quiet geomagnetic conditions we are experiencing. Conditions on the higher bands should improve soon because of seasonal variations as we head into spring, and not because of solar activity. (From the ARRL Letter)

More Ham radio web sites

• KA9FOX Web Page for DXers and Contesters

<http://www.4w.com/ham/ka9fox/>

• Myanmar, XZ1N, web site

<http://www.getnet.com/~kf7ay/myanmar.html>

CU NEXT MONTH
73 de N5OGP sk



HMS RADIO CLUB ON THE AIR

Hefner Middle School, **KC5PBR**, Oklahoma City, OK, operated during the ARRL, 10th Annual, School Club Roundup, 12 - 16 February 1996. Students participating were Cindy Coppinger, Bo Daniels, Clay Hodges, and Josh Johnson, 8th Grade, and Ilana Davis, and Eric Larson, 6th grade. Their Club Station Trustee, Dick Russell, **KJ5VV**, assisted in providing guidance and instruction during their 96 QSO's during 10 hours of this, their first, contest participation.

Ilana Davis, is the daughter of **KF5JN**, Larry Davis, of Oklahoma City and has recently completed the Technician+ license classes held at the School and she hopes to take the VE test and be licensed in the near future.

Hefner Middle School Radio Club has been in existence since the Fall of 1994 and has the dedicated support from the Principal, Mr. Buster Meeks, Mrs. Shelia Russell, club sponsor and 6th grade math teacher, and the School PTA. HMS PTA allowed for the purchase of a Yaesu FT890AT and Fritzel antenna for HF work, an ICOM TM742 dual bander for local repeater and packet use, and the school has provided an IBM computer for the packet portion of **KC5PBR** ARS.

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790-6497

A microwave adventure

by E.J. Wagner, N5SNW

The bitterness of our last fishing trip together forgotten, at least temporarily. Mac and I had spent a carefree afternoon swapping lies. But our wives had not forgotten the whoppers we'd sprinkled about carelessly. So we painted walls, dug gardens, and even spent a few terrifying afternoons with small people alleged to be our children.

We finally escaped by each telling our respective household goddesses we were going to the other's house to help with something. At Larry's Café, where we met for a couple of cool ones, Mac and I recounted long, hilariously complicated stories about our adventures. We left out only the gorier details---like the attempts on each others lives. As the afternoon wore on, the stories got better.

Then we did something that seemed a disaster only in hindsight. We formed the Broken Elbow Amateur Radio Club, and decided it would be fun to try communicating with microwaves. Being on the extreme end of cheap, we planned to use ordinary microwave ovens for transmitters and radar detectors for receivers.

She-Who-Must-Be-Obeyed instantly knew something was up when she overheard whispered telephone conversations. That and the disappearance of the microwave led to wild accusations, none of which are true. Not all my ancestors were village idiots, and I did not crawl from under a rock.

With certain modifications, it is possible to make an ordinary microwave oven send CW at a reasonable rate. (Kids, please do not attempt this. It can be dangerous.) Drawing on our years of experience as professional electronic technicians, Mac and I safely performed the exacting modifications.

We removed the oven doors and fitted pieces of sheet metal and stove pipes in their places. CW keys replaced the safety interlock switches, and portable generators supplied power. In the course of prior research and development

projects, we had found certain preparations helpful - fire extinguishers, shovels, lawyers, and bail bondsmen's telephone numbers.

Also, electrical arcs occasionally popped out from seams in the sheet metal. So we felt we needed protection. I remembered Faraday shields. In theory, both high voltage arcs and RF should travel along a conductive surface, rather than penetrate inside. So we threw in rolls of aluminum foil for use as personal Faraday shields.

Our radar detectors were already in the cars, so we were ready. We set out on a dark night to try the equipment, choosing hills on opposite sides of the freeway. Known locally as the "Double Nought," the Jethro Bodine Turnpike is a scenic highway. It leaves Broken Elbow to the west, circles north, then re-enters Broken Elbow from the east. What town in Oklahoma is complete without a turnpike?

I mounted the oven on an old camera tripod, and I carefully wrapped myself in aluminum foil before switching the equipment on. All went well until its weight forced one of the tripod legs to sink into the ground. The oven swung around just as the garage - sale CW key jammed, and the foil suit began arcing. I could smell burnt hair! Just then....

We interrupt this column to remind you it's pledge week here in our Amateur Radio newsletter. Without your generous contributions, this newsletter would be unable to bring you outstanding humor, commentary, and news. As a special offer for a pledge of \$50, we'll send EJ to your home to install cables, telephones, or any other electronic equipment. (If you pledge \$500, we'll agree not to send EJ.) As always, we prefer small, unmarked bills or easily pawned merchandise. Now, let's return to our regular column.

.... Leaped mightily and saved the girl!

The crowd went wild. We were heroes, even to our wives. It was a great day, and the Broken Elbow Amateur Radio Club had made history.

From the American Airlines ARC "Haam Haappenings" - Don Feigel, WD5EHU, Editor

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 Chap 63 VHF - Thursdays @ 7:00 p.m. on 145.41 minus input.

QCWA Chap 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.

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

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

DX STAMPS

Also, the government of the Solomon Islands has released a set of four postage stamps commemorating inventor Guillermo Marconi and 100 Years of Radio Communication. The 1.05 stamp shows Marconi demonstrating his invention, c. 1896. A \$1.20 stamp depicts a typical maritime installation of the Marconi International Marine Communication Company, c. 1900. A \$1.35 stamp depicts the first aeronautical radio systems supplied by Marconi to commercial aircraft. A \$1.45 stamp shows Marconi in Japan during his 1933-34 world tour. The four stamps are available on a color first-day cover from Peter Taylor, G8BCG.



A. R. R. L. Bulletins

From ARRL Headquarters
Newington CT

QST de W1AW

ARRL Bulletin 16
March 14, 1996

NY Section changes

The ARRL Executive Committee has voted unanimously to transfer Herkimer and Otsego Counties of New York from the Northern New York Section to the Western New York Section, effective April 1, 1996. The decision was based on the results of a canvass of affected members which clearly favored the return of those counties to the Western New York Section.

ARRL Bulletin 15
March 1, 1996

VEC conflict-of-interest rules

The FCC has formally eliminated conflict-of-interest provisions that had applied to the administration of Amateur Radio exams. The action conforms Part 97 of the rules to the provisions of the Telecommunications Act of 1996, recently signed into law by President Clinton.

The Commission also eliminated a requirement that volunteer examiners and volunteer examiner coordinators maintain records of out-of-pocket expenses and annually certify those expenses to the FCC.

The FCC notes that VEs and VECs still may recover actual out-of-pocket costs from examinees. The maximum reimbursement fee is 6 dollar(s).07 for 1996.

The former provisions essentially precluded equipment manufacturers and

their employees and anyone who prepares or distributes ham radio license study materials from administering Amateur Radio license examinations. The underlying purpose was to prevent an employee from favoring examinees who had purchases manuals or equipment produced or distributed by the VE or the VE's employer. The FCC has concluded that other rules provisions, combined with current Amateur Radio license examination procedures, will protect against potential abuses.

The FCC notice announcing the rules changes pointed out that Section 97.523 requires VECs to cooperate in maintaining a single question pool for each examination element. As a result, all exam materials and manuals must draw from the standard question pool, which is widely available to the public. Also, the FCC noted, each exam is administered by three VEs and coordinated by a VEC. The Commission said it would be highly unlikely for any examinee to be favored by a VE or VEC.

The FCC said the 12 years of experience with the VEC system has shown that breaches of trust by VECs and VEs can be dealt with swiftly and immediately by discrediting the offending VEs or rescinding the VEC agreement.

The rules changes became effective February 28, 1996.

ARRL Bulletin 14
February 28, 1996

Ex-ARRL Director killed

Former ARRL Director and well-known DXer and contesteer Floyd Teetson, W5MUG, and his wife, Winnie, WN5YTR, were found dead February 23, victims of a brutal murder.

As the Amateur Radio community mourns the loss of W5MUG and WN5YTR, a DXpedition to Little Cayman Island Floyd Teetson was to participate in during the ARRL International DX Contest (SSB) March 2-3 will go forward as planned. The Shreveport-area group, including W5AU, N5OCD and N5XIQ, will use Floyd's Caymans' call, ZF2FT. The

Teetsons were found slain at their home near Heflin, Louisiana, February 23. They had been killed a day or two earlier. The Webster Parish (Louisiana) Sheriff's Department and Louisiana State Police are investigating, but no arrests have been made. Authorities have not speculated publicly on a motive.

Floyd Teetson served as ARRL Delta Division Director in 1962-63. He was an Honor Roll DXer and active contesteer and had been a member of several multi-op contest teams operating from various Caribbean DX sites. The Teetsons were ARRL members. A native of Wisconsin, Floyd was a retired electrical engineer who had been employed by the telephone company in the Jackson, Mississippi, area. The house where the Teetsons lived had been in Winnie's family for years. The couple moved to Louisiana from Mississippi five or six years ago and had refurbished the house.

The Teetsons each had three children from previous marriages. In addition, Winnie's mother survives. Services for the couple were held February 26 at the Bistineau Baptist Church. Flowers or memorials may be sent in care of Rose-Neath Funeral Home, 217 Murrell St., Minden, LA 71055.

ARRL Bulletin 13
February 23, 1996

Question pool committee

ARRL Executive Vice President David Sumner, K1ZZ, advised FCC Private Wireless Division Chief Robert H. McNamara on February 23, 1996 that the mechanism to maintain question pools for FCC Amateur Radio examination elements has broken down and no longer operates as FCC rules require. ARRL wants the FCC to issue a public notice to that effect, clearing the way for the creation of a substitute mechanism.

The League's request stems from last year's decision by a majority of the Volunteer Examiner Coordinators to incorporate a previously informal organization as National Conference of Volunteer Examiner Coordinators Inc. ARRL/VEC and some other VECs chose

to not participate in the corporation. At that time, Sumner emphasized that ARRL Volunteer Examiner Department Manager Bart Jahnke, KB9NM, would continue to participate with other VECs on issues of common interest, and that the League did not want to change the cooperative relationship that existed between the ARRL and other VECs. NCVEC Inc. later removed Jahnke from the question pool committee (QPC), which had been the mechanism for VECs to cooperate in maintaining question pools for written ham radio examination elements.

In October, FCC Wireless Telecommunications Bureau Deputy Chief Ralph Haller confirmed that the NCVEC has no recognition in the Communications Act or the FCC Rules, and that the FCC views each VEC individually. He said the FCC expected all VECs to be able to participate in question pool activities. In December, the FCC's McNamara asked NCVEC Inc. president, Dalton H. Tunstall, WB4HOK, to immediately reinstate the ARRL/VEC to a seat on the QPC. The conference so far has refused, but stated that, if certain conditions were met, Jahnke would be eligible for election to the QPC when the conference meets in July. The League now formally requests the FCC to advise Tunstall that the question pool committee operating exclusively under the NCVEC Inc. is no longer the mechanism through which question pools for Amateur Radio Service examinations are maintained and to issue public notice to that effect.

The League asks the FCC to terminate its agreement with any VEC that took part in the decision to exclude the ARRL/VEC or other VEC from cooperating in the maintenance of the question pools, as their action violated Section 97.523 of the FCC's rules. The League has invited all VECs to cooperate in creating a replacement Question Pool Committee, which would be open to all FCC-recognized VECs.

The ARRL said its exclusion from the QPC caused material appropriate for study by prospective Technician Class applicants to be left out of the Novice (element 2) and Technician (element 3A)

syllabi the committee released February 1, 1996. The present syllabi are not acceptable to the ARRL because study guides prepared for these examinations won't include the missing material, and applicants won't be tested on it.

The ARRL said its exclusion also resulted in errors in the revised question pool for the Amateur Extra Class written examination, element 4B, released by the Question Pool Committee December 1 for use starting July 1, 1996. The League said VECs can correct this by simply not using the defective questions in their examinations.

The ARRL/VEC coordinates approximately two-thirds of all FCC Amateur Radio examinations.

More viruses

by Charles Lobb, KN6H

Paul Revere Virus: This revolutionary virus warns you of impending hard disk attack---once if by LAN, twice if by "C."

AT&T Virus: reminds you what great service you're getting---every three minutes.

MCI Virus: tells you every three minutes you're paying too much for the AT&T virus.

Intel Virus: Affects your computer once every 27,000 years, starting today.

Jimmy Hoffa Virus: No one can find it.

PBS Virus: Stops your PC every few minutes to ask for money.

Health Care Virus: Tests your system, finds nothing wrong, then bills you \$4500.

Elvis Virus: Your computer gets fat and lazy, then self-destructs, only to resurface at rural shopping malls.

Kevoorkian Virus: Helps your computer shut down whenever it wants to.

Airline Virus: If you're in Dallas, it sends your data to Singapore.

LAPD Virus: Claims it feels threatened by other files on your PC. Erases them in "self defense."

Star Trek Virus: Invades places in your system where no virus has gone before.

Via the Feb. '95 "N0DX RAG," via the April-May '95 West Parks Radiops (Bay Village, Ohio) "W8VM LOG"---AF8C, Editor.

Technical terms

banana jack: tool used by monkeys to lift tropical fruit

Crosstalk: what you get when you sit between two good friends at the movies

hertz: getting your mustache caught in pop-top

loaded cable: one that runs through a puddle at a distillery

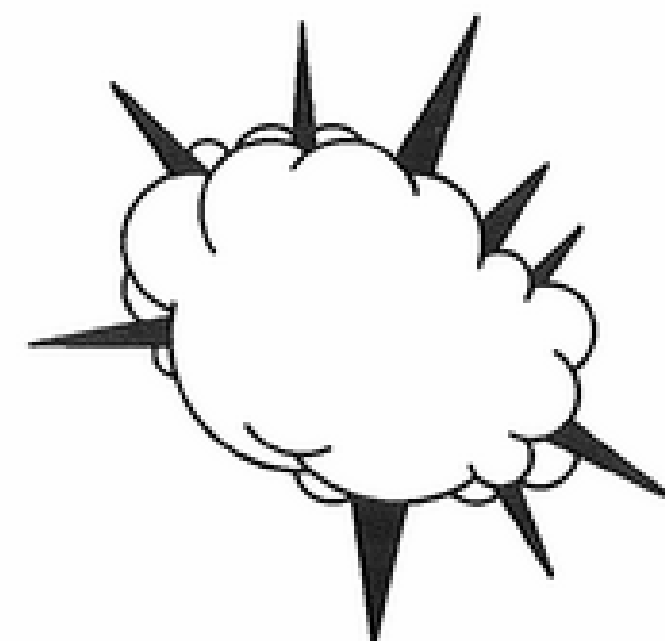
outgoing trunks: swim suit lost in receding tide

Port A/Port B: similar beverages at a low-class diner

T-Carrier: a participant at the Boston Tea Party

transmission test: procedure performed on family auto by teenage son

from the North Florida ARS "Balanced Modulator" via the April '95 Atlanta RC "Atlanta Ham"-Mark Roark, WA5TSU, Editor



AMATEUR RADIO NEWSLINE

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NCVEC QUESTION POOL WORK CONTINUES

The American Radio Relay League may be at odds with the National Conference of Volunteer Examination Coordinators Incorporated, but the work of revising the questions that are used on Amateur Radio exams is going forward. As reported three weeks ago, the ARRL has petitioned the FCC to create what the league calls a "new mechanism" to oversee the overall ham radio examination system.

So far, the FCC has ignored the Leagues request and according to Fred Maia of the W5YI VEC who serves on the NCVEC Question Pool Committee, revisions to several exam elements are underway right now:

"The Element 4B extra class questions were released and they will be used in the examination room on July the 1st as scheduled. And on February 1, 1996, the question pool committee released the syllabus, that's the outline for the next one we are going to work on and that's the no-code technician requirements which is element 2 and element 3A Technician." Maia

Maia adds that the Question Pool Committee has separated itself from the political bru-ha-ha that has developed over League membership and participation in the National Conference of Volunteer Examination Coordinators. He says that committee is letting the ARRL, the FCC and the VEC conference president work out the problem.

RAINCOAT CHARLIE FINE UPHELD

Raincoat Charlie has been ordered to pay up! Raincoat Charlie was the pseudonym used by William Irwin, K3CQR of De

Bary, Florida when he was jamming other hams on 14.315 MHz will have to pay a \$500 fine. This according to the FCC which says that it has denied Irwin's Petition for Reconsideration of the monetary forfeiture.

Back in December of 1992, the FCC's Vero Beach Field Office was made aware of interfering transmissions occurring on the 20 meter frequency. The interference continued on a regular basis until July 23rd 1993. That's when federal agents traced the signals to Irwin's home. During a subsequent station inspection, Irwin admitted to the FCC that he had used his station to interfere with other hams on the frequency under the guise of Raincoat Charlie.

On July 28th, 1993 the Vero Beach Field Office issued K3CQR a \$2,000 Notice of Apparent Liability to Monetary Forfeiture. Irwin responded on August 11th that he could not pay. So on August 17th the assessment was lowered to \$500, but Irwin still balked at paying. Again he petitioned the FCC claiming his inability to pay, but provided no financial information that would persuade the commission to further reduce its fine. Instead, he requested that the FCC permit him to inspect its records pertaining to the events that lead to his apprehension.

But the commission has now ruled that the \$500 fine is more than reasonable because Irwin admitted being the source of willful and repeated interference to other ham radio communications. It has also denied his request to see the records of his case saying that can only happen if he files a Freedom of Information Act request. Even then the FCC can turn him down if it sees fit. In the meantime, Irwin was ordered to pay up. If he wants to appeal further it is going to cost a lot more than \$500. That would not even be a down payment on a good communications lawyer capable of challenging the FCC

in federal court.

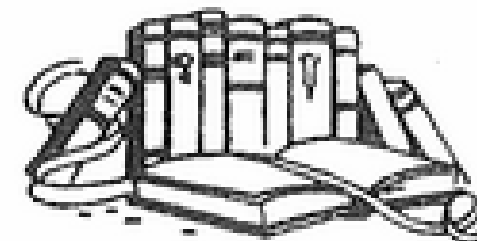
HARRISBURG, PA HAMS HELP IN FLOODS

About thirty volunteers from a Pennsylvania radio club came to the aid of the Red Cross to help after the Susquehanna River overflowed its banks, flooding the capital on January 20th. According to John Obradovich, W3IS, who is the President of the Harrisburg Radio Amateur Club hams provided communication between Dauphin County Red Cross headquarters and two mass-care facilities that lacked telephone service. The following day, the Red Cross requested additional volunteers with vehicles for disaster assessment training and reporting. Several hams were among those who reported.

SKYWARN

And speaking about emergencies and emergency communications, word that a new communications tool came in handy when severe weather pounded central Alabama March 6th. A successful new idea was developed by radio amateurs active in Alabama's Skywarn network.

Hams in Alabama operating a Skywarn net. This has become a common event. Alabama has led the nation for 2 years in tornado related deaths. But Skywarn nets in Alabama and many other states face new challenges. The National Weather Service is doing more with less, by closing some of its offices, including Montgomery, Alabama. Two tornadoes struck in and near that area March 6th, killing 7 people and causing heavy damage. Closing the Montgomery office



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means local Skywarn groups must communicate with the Weather Service office near Birmingham. That's almost 90 miles away and too far for any one repeater to cover. So hams came up with a solution.

Montgomery and Birmingham radio amateurs are now tied together, it's thanks to the 220 MHz band and some technical ingenuity. A 220 repeater south of Birmingham links hams in both cities. The link simulcasts on a 2 meter repeater serving Montgomery. And there's a touchtone activated alarm system. This allows hams in either city to call each other when severe weather or other emergencies arise. The link system was jointly designed by Ken Barnes, KD4PEI and Ron Arant, N4PHP. It didn't take long for the system's value to become obvious.

"The signal was crystal clear and very very clean." Arant

John Simons, KC4UCP, ran a Skywarn Net using the new 220 link system.

"The 220 machine proved to be an asset that night. And I think that if other areas had 220 available, it would be more useful in the weather network." Simons

Hams in Alabama already use remote base systems tied to repeaters to extend their communications range. The 220 link between Birmingham and Montgomery is another step in their efforts to better serve the public during emergencies using amateur radio.

Voice communications networks are just part of what Alabama Skywarn groups are working to improve. Efforts are also underway to set up a wide area coverage packet radio system to assist with relaying storm and damage reports.

NEWSLINE CINCINNATI

Phil Thomas, N8LJA who produces the regional Amateur News Weekly has put a new outgoing Newline service into operation from Cincinnati, Ohio. According to Thomas, the number for the service is (513) 745-1948.

Midwest hams interested in Thomas' regional ham radio news service can call into Amateur News Weekly at (513) 745-2824.

FREE COLLEGE HAM RADIO CLASS

A free Amateur Radio course will begin on Wednesday evening, March 27, at the University of Massachusetts, Dartmouth. The class will meet at 7:00 PM until 9:00 PM for 8 consecutive Wednesdays.

There is no charge for this course, however, the students will be responsible for purchasing their own study materials. The purpose of this course is to provide the students with the information and training necessary to pass an entry level Amateur Radio exam and acquire a FCC Amateur Operators license.

If you live in the area and want to register for the course, contact Ed or Carol Walsh at (508) 679-8527 evenings or weekends. You can also register E-Mail to mrefw@aol.com

NEW CD-ROM VERSION OF QST AVAILABLE

The ARRL's new CD-ROM version of QST was a hit at the marketplace. The CD-ROM features an entire year's worth of QST, plus QEX and the National Contest Journal. It includes full text, photographs, schematics and other graphics, and advertisements. Among other things, users can search for text and zoom in to schematics and diagrams to enhance detail.

NEW EU EMI STANDARDS

From England comes word that the draft of the European Union EMC Standard has been published by the European Telecommunications Standards Institute. It contains procedures and tests to ensure compliance

with the European EMC Directive which came into force on the 1st of January.

The Radio Society of Great Britain, through its EMC and Licensing Advisory Committees, is evaluating the document and will be responding to it. Copies are available from the:

British Standards Institution
389 Chiswick High Rd
London
United Kingdom

NEW RSGB RLO

Also, a new RSGB Radio Liaison Officer has been appointed for the county of Wiltshire, until the next session of RLO elections take place later this year. He is Ivan Rosevear, G3GKC of Bradford-on-Avon in Wiltshire. The RSGB says that its RLO's are available to help and advise members locally.

UNDERGROUND CABLE BY LAW

And good news for hams down under. Word that the Australian Federal Government has announced that it intends to force both Telstra and Optus Vision to lay their cable television lines underground. Local municipal councils will also be given the power to insist on underground cabling in their areas.

The new measures are in response to public comment about the installation cable and pay television transmission lines alongside existing above-ground telephone lines. The new rules will apply only to cables that have not yet been laid; existing cables will not be affected. Putting the new cables underground should minimize RFI ingress to pay cable television systems.



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April 1996

by Linda, NILPN

As I sit here on this bench made of wood with the sun shining on my face, the cool breeze touching me, I close my eyes and reflect. It is so peaceful here, little crime and friendly people. When I first moved here back in July 1991, I felt secure and safe, feelings I had never felt before. This place was an answer to all of my prayers. So much has changed now in the past year. Much will never be the same and it is all due to the unthinkable act of destruction that happened one year ago this month here in Oklahoma City.

I remember the night before the bombing. My husband and I attended our regular club meeting and there was much discussion concerning the club repeater system. The night before they had their first 'Storm Net' and all went well. The repeater held up beautifully. The club's tech people said we were lucky because we had a sick repeater and needed to replace it with a new one. A hard sell went into overtime and by the end of the meeting the tech people had their new repeater in the bag. Problem was the club had to raise funds first to purchase the new repeater.

The next morning held the promise of a beautiful day. My husband had called me and said he had a site to check down town and one by Tinker AFB. Since he would be in the area anyway, how about having lunch together later? I said great! He knew I was battling a set of mixed emotions and had made a point to cheer me up. In 1989 on April 18th I buried my mom and the 19th of April was her birth date. After Hal's call, I curled up with Shane, my cat, and fell asleep.

I was woken up by a loud boom that rattled the glasses in my cabinets. At first I thought something happened on the base and knew Hal was out there somewhere. I tried calling him on his cell phone and the systems were down. My neighbor came banging on my door because she had locked herself out of her house when she had taken her trash out to the curb. She

needed to call her husband on base to let her back into the house. She couldn't get through on the phone, the base was on alert!

I remembered Hal telling me over and over again to turn on the 2 meter if something weird was going on, the hams would be on top of things. I turned on the rig, I could not believe what I was hearing coming over the airwaves, "...an explosion downtown, all hams activate, please stand by for instructions, this is net control, this is not a drill. I repeat this is not a drill, all normal traffic is suspended until further notice. The ARES and Salvation Army Nets are now activated, please check in now giving your present location along with call sign,..."and so it began less than 10 minutes after the explosion.

My own phone rang and it was a ham from ARES telling me to call the base, whom to ask for and what to report and request. The number I was given got me through the lock down and to the person I asked for. My neighbor had turned on the TV and there before us was something too horrible to comprehend. Downtown OKC looked like a war zone with blown out buildings, people covered with blood running, and the news reporters having no idea what had happened. All I could think about was that my husband was suppose to be on top of one of those buildings. Was he okay and where was he? How many are hurt and dead? Did I know them and if so who?

I knew many were facing the same fears as I was, the total helplessness and waiting was a nightmare. What seemed like a lifetime was only an hour before I heard from Hal. He had decided to work at the site near Tinker, AFB first then head downtown after he had called me earlier. He was now needed downtown to help and stopped by to pick up some radio gear because all the phones were currently off line. My neighbors' husband had to sneak off base, everyone was on alert status. He wanted his wife to know he was okay, he had no idea when he would come home as long as the base was locked down. He also handed her a list of numbers to call and pass on the word to

other wives. They thanked me and headed home.

The repeater system that was the official ARES and Salvation Army Net frequency was the same one owned by the club that was told by their tech committee they needed a new one. Over 17 days the Net was in effect. That repeater ran true and held up to continuous usage during the whole operation. It did have a few minor problems, but those would have happened on any system being ran as hard as this one was being ran. Hams from all over the state came and worked in every aspect possible. FBI badges were given to our people to allow them access to secured areas. We had hams come in from the rest of the country adding their support. Over 300 hams were officially logged as to have worked the Salvation Army Nets and Distributed food on a 24 hour basis. There were many more that came and helped that were never on the official log sheets. All gave of themselves and worked countless hours until the job was completed. When it was over, they quietly packed up their gear and went home to family and loved ones. It was time to begin the healing process and to attempt to understand this nightmare.

The months that followed, everyone was in shock and disbelief. The question "WHY?" echoed throughout the community. We may never know the answer to that question. The club that voted for a new repeater have finally got it up on line almost a year later and are very happy with it. Those that are believed responsible for the bombing are soon to go to trial. It was moved to another state in fear they could not receive a fair trial here. The news media is still finding ways to keep the story alive to such a degree we no longer watch the news. Personally, I feel its time to accept that there will always be 'crazies' in this world that will commit unthinkable acts toward the innocent. We need to make the punishments for such crimes equal to the acts and enforce those laws.

Down town OKC is still in the process of rebuilding the structures damaged a year ago. Some buildings will never be rebuilt. These empty shells will remain as a

reminder to future generations that nowhere is completely safe from acts of terror. The people here are made of strong spirit and mind and will move forward. For now, the peace has begun to return.

Today, as I listen to the birds singing happily in the trees, silently a tear runs down my cheek. I find myself looking for some good that came out of all of this. Our ham community has changed in the past year. The competitiveness between clubs is for the most part gone and the clubs have begun working together on projects. A club will offer something that is beneficial to the ham community and will make it open to all hams, regardless club affiliation. It is not unusual for a ham in one club to help a ham in another club all in the spirit of ham radio. This year, 4 clubs will join together, working as one during Field Day. Something that most would have laughed at over a year ago. Before the bombing, the clubs were mostly closed to the idea of asking each other for help.

We have learned an important lesson here in OKC. We make one hell of an unbeatable team when we band together and work as one. I only regret that it took an act of pure evil to wake us all up to this simple truth. The ham community in Oklahoma is stronger than ever before. We have seen: what being an amateur radio operator really means and have experienced it first hand.

Special note to the club whose repeater I mention in this article: It was not my intentions to attack the club's decision to purchase a new repeater. I truly believe that powers beyond our understanding played a major role in keeping us on the air. We were never alone in our tasks but again that is my personal opinion. We were able to pull off the impossible with equipment that we were told couldn't hold up to the challenge. I am not a tech person and so must take the word of those more knowledgeable than I. Again, no offense was intended toward the club or anyone else.

Newsline (Con't)

SOUTH AFRICA HAM CLASSES

The South African Radio League has appointed Dikgang Moseneke as its Patron. Moseneke is chairman of the board of Telkom South Africa's telecommunications subsidiary. At his induction ceremony, Moseneke released a plan to introduce Amateur Radio into South African school system. He also wants to create a development fund to establish ham radio stations at educational institutions in South Africa.

DX - 3RD DISTRICT QSL BUREAU

In DX, the Third Call Area Incoming QSL Bureau has a new address. The Pennsylvania DX Association has assumed responsibility for the bureau. The new address is:

Pennsylvania DX Association
P. O. Box 100
York Haven, PA
17370-0100

All envelopes and cards on file at the former incoming W3 bureau have been transferred to the Pennsylvania DX Association.

DX - 6 M BEACON FROM 4X

Also, Neil Carr, G0JHC reports via the VHF reflector that 4X1IF has been granted permission by Israeli telecommunications authorities to run a 50 MHz beacon from his home. Neil says that Ralph has already installed a halo antenna on his tower and the beacon system itself is now complete. The beacon will take to the air in early May on 50.058 MHz running about 3 watts and initially with Ralph's 4X1IF call.

AO-10 BACK

From AMSAT North America, word that OSCAR-10 may once again be coming back to life. Reports say that the satellite's transponder is putting out a beacon tone. Also, the downlink has been intermittently functional.

OSCAR-10 is one of the oldest ham satellites still in orbit. As such it has been

plagued by solar radiation corrupting its on-board computer. Also, low levels of sunlight reaching its panels have kept it off the air.

CONGRATULATIONS SAMMY

A word of congratulations to eighteen year old Sammy Garrett, AA0CR. Sammy was the recipient of Newsline's 1991 Young Ham of the Year award. Now some six years later Sammy is the recipient of yet another honor. AA0CR has been selected to receive a \$1,000 college assistance scholarship from the C-Span television network. As a part of the award, Sammy also gets an expense paid trip to Washington, D. C. for himself and one of his parents. He plans to use the scholarship funds toward his first years tuition at American University.

HAM RADIO THESIS

Last but by no means least, a Georgia ham has decided to use Amateur Radios' participation in emergencies as a subject for her Masters thesis, and she is asking for your help. Bella Romain, N4ILQ of Carrollton Georgia has decided to do an in-depth study into just what motivates hams to risk their own lives to provide help to others. Sometimes doing so while putting their own personal safety at risk. She says it is something that needs to be better understood:

"Ham radio has been a part of my life for many years Out-Q: ...ham radio operators who do this.

Since nobody has done such a study, and since Bella Romain needs a topic for her thesis, she figured she could combine the two into a single project that would benefit not only her, but the Amateur Radio service as well. To that end, she will make the completed work available to anyone interested after it has been completed and graded. If you want to become a part of this rather ambitious project, drop a note to:

Bella Romain, N4ILQ
285 Timber Ridge Trail
Carrollton, Georgia
30117

You can also e-mail her via the Internet to: bella@mindspring.com

Up - Coming Hamfest / Swapmeets

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

April 13 & 14, 1996 - Mooreland Eyeball QSO sponsored by Great Plains Amateur Radio Club. Dealers, Computer Dealer, VE-Testing, National Weather Service Display, Night time balloon launch, Packet Radio Demo. For More information contact:

Bill Wyatt, KD5JR (405) 256-3248
Bart Lawson, NZ5T (405) 994-5940

April 13 & 14, 1996 - Lawton / Ft Sill Hamfest & Computer Show ARRL State Convention - sponsored by the Lawton / Ft Sill ARC. Dealers, Fleamarket Demos, Amateur TV, Slow Scan, VE Testing and more.
For more information contact:
Bob Morford, KA5YED (405) 355-6120
email: w5ks@strings.sirinet.net

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

July 26 & 27, 1996 - Ham Holiday 1996 sponsored by Central Oklahoma Radio Amateurs, Inc. Door prizes, dealers, flea markets and plenty of parking. Planning still underway for this event. For more information contact:
Hal, KB1ZQ or Linda, N1LPN - 672-7735
CORA P. O. Box 95942 Oklahoma City, OK 73143-5942
n1pln@aol.com

ANNOUNCEMENTS

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

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

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

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

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

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

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

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

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

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

ATTENTION WWII VETERANS:

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

For more information contact:

Bill Schumann, KA5TUF
3517 NW 64th Street
Oklahoma City, OK 73116
PH: (405) 842-5469

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

Hope to See you there!!!!

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

MEMORIAL SPECIAL EVENT STATION "N5FM"

Local hams will be operating from the Salvation Army headquarters, on April 19, 1996 starting at 9:02 AM and operating for 24 hours (or more).

The N5FM Salvation Army station maintained supply and support, not only to 5 canteen's, but emergency supply support for Red Cross and rescue teams.

This special event will allow area ham's to recognize those who assisted in that effort, in the local area, across Oklahoma and throughout America.

The station is equipped with a Kenwood TS440 with tribander and dipoles for low bands. It also has 2m fm and packet. All area ham's are invited. The station is upstairs at the Headquarters building at NW 50th and Penn. Talk-in is on the 146.82 repeater.

APRIL96

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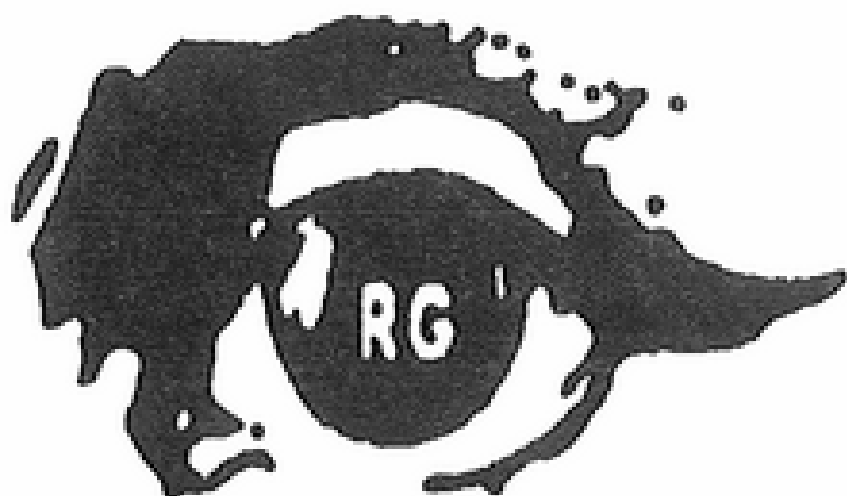
USED TEST
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EXCESS
 ELECTRONICS



April 1 to May 4, 1996 Schedule of Events:

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



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