

Collector & Emitter

Central Oklahoma Radio
Amateurs, Inc. Publication

February 2001
Volume 27, Number 2
Issue 312
75¢

Postmaster See Page 2
For Postal Information

Periodical Mail

Repeatin' Machines

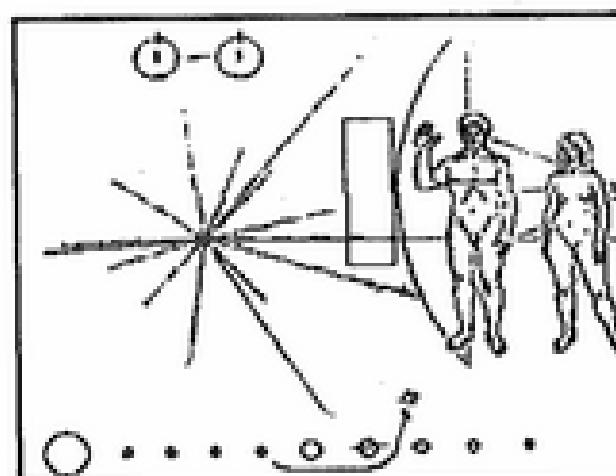
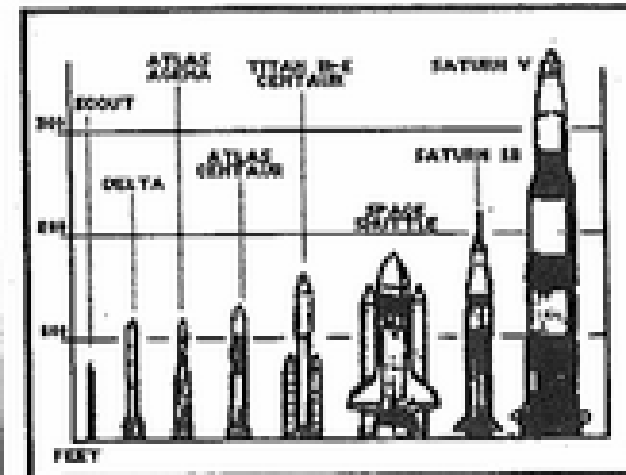
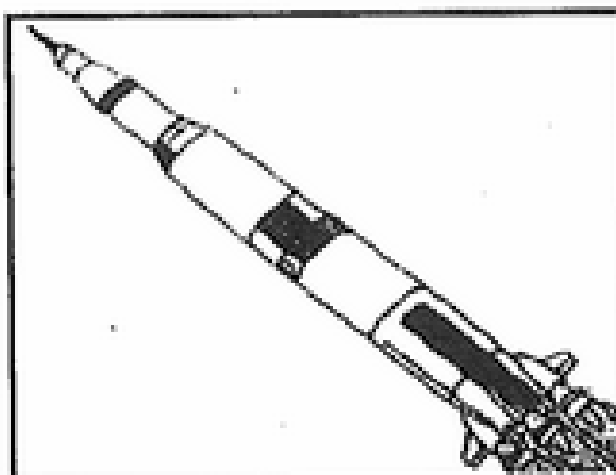
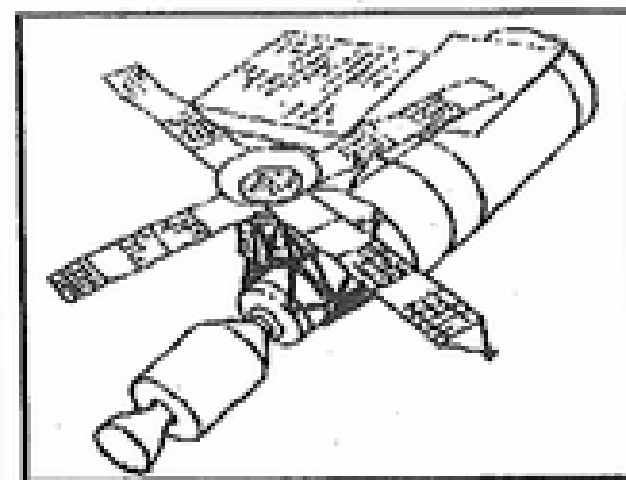
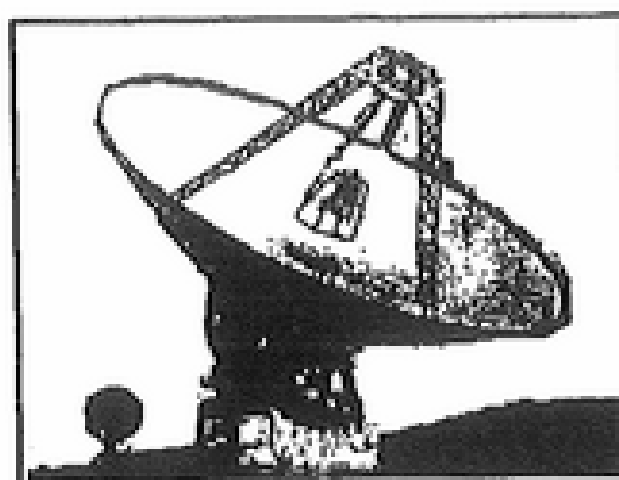
Page 6

Fine for Cable Leakage

Page 7

Blue Angel #8

Page 12



FR/F6KDF/T Dx'pedition

Page 18

New Use for Old Ham Radio Magazines

Page 28

FCC vs Uncoordinated Repeaters

Page 31

Collector & Emitter

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**Central Oklahoma Radio
Amateurs, Inc.**

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Secretary: Forrest Rush, N5VWF

Treasurer: Harold Miller, KB1ZQ

Web Page -

www.geocities.com/heartland/7332

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:

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The "2001/12" means the year/month C&E subscription expires.

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.

February 2001

VOL. 27, No 2 Issue 312

**Collector and Emitter
(USPS 116-150)**

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

Subscription rates:

CORA Associate \$6.00 per year

Paid subscription \$9.00 per year

Postmaster:

Send address changes to;

Collector and Emitter

P. O. Box 55600

Del City, OK 73115-5600

1. Aeronautical Center ARC Meets: 7:30 p.m., 1st Thursday, FAA, S. MacArthur, OKC Pres.: Bob Kremer, WA9FCT 381-3182 VP: Chuck Bryant, KB5ZVZ 737-0423 Sec./Tr.: Paul Solheim, WB7QIN 381-3574 Editor:	10. Oklahoma DX Association Meets: Hamfests and as announced in C&E. Pres.: Larry Shiga, W0PAN 405-721-8138 VP: Cliff Sikes, N5UW 405-997-3280 VP: Dick Stricker, NJ5S 580-233-9869 Sec./Tr.: Jerry Chouninard, K5YAA 918-341-2659 Editor: Nelson Derks, AC5UP 918-451-1594
2. Oklahoma Central VHF ARC Meets: 11:30a.m., 2nd Wednesday, Home Town Buffet, 3900 NW 63 rd , Oklahoma City Pres.: Bill Noland, WA5FWD 354-5018 VP: Sec: John Dome, KB5WVE 842-3493 Treas.: Jim Speck, W5AI 842-3055 Editor:	11. Edmond Amateur Radio Society Meets: 2:00 p.m., 3rd Sunday, Edmond Community Building 28 E Main, Edmond OK Pres.: David Wolf, KC5KJE 340-7486 VP: Dick Stinson, KK5XO 348-6542 Sec: Robert Coxsey, KM5GZ 478-5715 Treas.: Robyn Price, KD5ISC 324-2674 Editor: Curtis Foote, KC5GEP 359-6514 http://edmondsun.com/ears e-mail: k5eok@arrl.net
4. Oklahoma City Autopatch Assn. Meets: 7:30 p.m., 3rd Tuesday, Salvation Army Bldg NW 50 th and Penn, OKC (Back Door) Pres.: Mark Hamblin, WL7FT 732-2087 VP: Ron McCubbin, KC5QCV 341-0591 Sec: Clay Mayrose, WA6LBU Treas.: Mark Watkins, NM5W 340-8596 E-mail: ocapa@juno.com	
6. Altus Area Amateur Radio Assn. Meets: 7:00 p.m. 2nd Thursday, Southwest Area Vo- Tech Center, 711 W Tamarack Altus, OK Pres.: Dale Town, N5VX 580-477-4027 VP: Mike Schenkel, W5VXU 580-846-5578 Sec: Debbie Grime, KD5LMW 580-480-1252 Treas.: Fred Molledahl, AB5FS Editor: Lil Town, KC5CNA 580-477-4027	15. South Canadian ARS Meets: 9:30 a.m., 2nd Saturday, Red Cross Bldg North OU Campus, Norman Pres.: Tom Miller, KD5ENL 321-7889 VP: Ed Berkowitz, N3US 364-8884 Sec: Bill Baker, N5UMH 366-8641 Tr: Jeff Wyke, KT5OK 329-6762 http://www.telepath.com/n5dkr
7. Enid Amateur Radio Club Meets: 7:00 p.m. 4th Thursday, American Red Cross 400 N Grand, Enid, OK Pres.: Dean Feken, KL7MA 580-336-3326 VP: Sam Cotter, KD5EUS 580-233-0048 Sec: Tim McAnally, KD5KTB 580-234-0948 Treas.: Dwayne Posey, KC5QVS 580-237-3218 Editor: Dick Stricker, NJ5S 580-233-9869	17. Ada Amateur Radio Club Meets: 9:00 a.m., 1st Saturday, Salvation Army Bldg 115 N. Oak St., Ada, OK Pres.: Charles Eiter, KC5TGA 580-436-4425 VP: Danny Coffey, KM5LB 580-436-1271 Sec: Darla Coffey, KC5RGU 580-436-1271 Tr: Tom Jones, KD5GTY 580-436-5480
8. Choctaw Amateur Radio Club Meets: 7:00 p.m., 3rd Monday, Eastern Oklahoma Co. Vo Tech, 4601 N. Choctaw Rd, Choctaw, OK Pres.: Chuck Kanach, KC5EVS 390-2231 VP: Don Clark, KB5KWV 630-3006 Sec: Kay Hlozman, KB5VJR 391-3398 Treas.: Ron Ernest, WB9DAF 769-3207 Editor:	19. Tri-State Amateur Radio Group Meets: 7:30 p.m., 2nd Thursday, Woodward, OK Pres.: Larry Goodwin Sr. K5LHG 580-886-3283 VP: Gerald Bowman, W5AOK 580-994-5600 Sec/Tr: Robert Keith, W5ROB 580-994-5461 E-mail: w5okt@arrl.net
9. Wheatstraw Amateur Radio Club Meets: 2:30 p.m., 2 nd Sunday, Location Varies Pres.: Leo Piel, WZ5H 580-886-2998 VP: Ray Barnes, AB5Z 580-274-3334 Sec/Tr.: Joe Garland, WA5FLT 405-893-2660 Editor: Ralph Wilder, Wa5PFK 405-623-5421	Central Oklahoma Radio Amateurs Meets: 7:30p.m., 4th Tuesday, Salvation Army Bldg NW 50 th and Penn, OKC (BackDoor) Pres.: Tom Miller, KD5ENL 321-7889 VP: Jerry Sproul, WA5JS 354-2061 Sec: Forrest Rush, N5VWF 842-8486 Treas.: Harold Miller, KB1ZQ 672-7735 Editor: Harold Miller, KB1ZQ 672-7735 E-mail: corahams@swbell.net

Deadline for March 2001 Issue of Collector and Emitter is Friday, March 2, 2001. Send all Articles to Collector and Emitter, 4216 Spiva Drive Del City, OK 73115-4424 on 3 1/2 inch floppy or e-mail to corahams@swbell.net. Articles received after the deadline may not be printed that month. Questions please do not hesitate to call - 405-672-7735 / 405-650-9963.

Central Oklahoma Radio Amateurs, Inc.

Minutes of the CORA meeting for January 23rd, 2001.

The meeting was called to order by the President of CORA, Tom Miller, KD5ENL. All the officers were present as well as nine directors (three from EARS, three from Choctaw ARC, two from OCAPA, and one from SCARS).

Secretary's Report: The minutes of the November meeting were approved as printed in the C&E.

For the benefit of our readers, I'll try and recap where we are with HH 2001.

- This will be the STATE CONVENTION for all Radio Amateurs in the State of Oklahoma.
-
- Official date of the Convention is the 27 - 28th of July, 2001.
-
- We are trying to get the Made in Oklahoma Bldg., but at present it looks like we will be in the remodeled Hobbies, Arts, and Crafts and Modern Living Bldg. More on this later.

President's Report:

Old business:

Ron, KC5QCV, and Dave, NE5S, presented what information they had on our options with regard to a Sound System for CORA. They will report back with more information at the February meeting.

Our P.O. Box for Pre-Registrations is now opened and was rented for the full twelve months.

Hal, KB1ZQ is our Vendor contact and our contact with the State Fairgrounds. Nothing on that front yet.

Tom Miller is handling Table and Chair rental.

Jerry Sproul is handling Pre-Registration and Tickets.

Forrest Rush is handling Advertising. Advertising should be sent out to all the relevant magazines this weekend.

New Business:

Hal Miller was to contact Tri-State Amateur Radio Group to see if they're willing to put on a Wouff Hong. I've been to one and they do an exceptional job.

The March meeting will be a Luncheon meeting. I'll have more details in the February minutes.

Special Guests: The Choctaw ARC President, Chuck, KC5EZZ, Bill, N9SQV, and Bill, KC5ICR, were the first directors from the Choctaw ARC I'd seen in awhile. I know Chuck, as we are both VE's who work with Clarence, KB5IBY at Southern Temple Baptist Church. I was glad to see him at the CORA meeting.

Respectfully Submitted,

Forrest Rush, N5VWF
CORA Secretary

From The Editor;

I am taking keyboard in hand to ask for assistance of the people that submit articles to this newsletter. I have to spend a lot of time to edit and format this publication and need some assistance.

Please look over your columns and notice the formatting used. First off notice that ALL CAPITALS have been changed to Title Case or sentence case in most all articles. Also the use of **Bold** and *Italics* has been used to offset the text. Next the font used here is 10pt Times New Roman, this is the smallest used in normal print here.

I also ask that tabs be used instead of spaces. I know it looks the same but is not. If you are using MS Word or a similar program turn on the hidden character feature of the software. This will allow you to see all of the characters on the page, carriage returns, spaces, tabs and much more. Until I did this I couldn't figure why columns would not line up right.

Next is your margins be set as follows especially for files forwarded to me:
Top - .75 inch (3/4 inch)
Sides and bottom - .5 inch (1/2 inch)

This will allow me to directly import and start printing the pages. These margins are the maximum for my printer.

Treasurers and persons reporting club renewals, please fill out your cards completely. There are many blank lines on cards coming in, some leave off the Club name others the Dues information. These lines are needed to verify that a person is a due's paying member of that club. Also correct addresses and call signs would be nice.

Also if your club has a standard renewal date example December 31 then only extend that persons membership to that date. If you extend a person to a date other than that I will enter it an will keep the card to verify what was sent.

I set the deadline on the calendar at the rear of this publication and at the bottom of page 2. I need all articles and cards for that month by this date, I need to be able to tell the printer a n accurate count of how many issues are required.

Finally to the officers of the CORA clubs, when I send letters to you asking for a reply please do so, I do not know your intentions unless you reply. As of today I have not received replies to letters sent out in December on renewals and so some clubs may not receive newsletters this month.

I have been doing this newsletter for almost 7 years and need some help getting it prepped and ready to go. I do not enjoy having to edit for format or content (I only seem to remove dollar amounts from treasurer reports). You only have your club or article to edit and prepare, I do 28 to 32 or more pages every month and it takes a full day on the best of months. But my time is valuable to me and with your help I can have more of it.

Keep those articles coming and should you have questions please don't hesitate to call me. I am more than willing to assist in any way I can.

Hal, KB1ZQ
The Editor

Chit-Chat

By Linda NILPN

Exercising the Mind...

I was taught, "Never Stop Learning!" In recent medical and research reports it has come to light that to keep a sharp mind, we must continue exercising our minds. They believe that our minds start to deteriorate when we stop adding new information to stimulate the brain cells. Many colleges for years have offered 'Continuing Adult Education Classes' but many of these have been tailored for job/work educational programs. A few colleges, under a pilot program, about 5 years ago, began to offer classes to Senior Citizens who just want to learn. These classes are slowly spreading to other colleges because they have been such a great success at the pilot colleges. They have found that those that attend these classes are more alert, have more energy, and experience a very high memory retention compared to those that do not try to learn anything new. No pills or magic involved, just old fashion learning!

There is other ways to expand your mind without attending a college class. My favorite way is through reading. Reading was the favorite past time before Television became 'the must have one' in every home. Families, at one time, would read together and share ideas, thoughts and debate over issues. They spent hours listening as each one of them took a turn reading the adventures of Huck Finn or about Treasure Island or some other treasured book. Sometimes the only book a family owned was the Holy Bible and each evening they would sit and listen as it was read. Poems were also read and explored. Since TV, families have stopped reading as a past time. They all seem to think reading is out of date, they are too busy, and most times spend their free time in their own rooms watching TV, playing Video games, playing on the computer or watching a Video of a movie. They have lost the closeness families once shared and minds are being wasted.

Reading needs to have a revival in our lives. The written word and the ability to use words are a timeless gift we all can share with each other. Books paint pictures using words that can take you to far off places, meet people and to different times throughout History that you otherwise

would never experience. They give us a better understanding of the world we live in and the people that we share this planet with. Books can take us to wonders beyond the stars and heavens, to see a world that someone else dreamed of and brought to life using words. Books can help us understand our past, our present and the nature of things to come. Books can make you laugh, cry, and to think about situations, places and events we had not thought about before just by using the power of words.

The more you read, you're reading speed will increase. If you consider yourself a poor speller, the more you read, your spelling skills will improve. Vocabulary skills expand without you even realizing it. Reading also helps improve personal communicational skills, including correspondence skills. All of these things happen with just reading on regular basics. I know from first hand experience because I have benefited from all of these rewards through reading over the years.

My mom use to read poems to my brother and me during the summer months while we were both in grade school. She would only read if we had gotten all of our chores completed and had not fought with each other that morning. During the school year, my grade school teachers would read the classics to us each day. The quiet time was a 30 minutes period during the hottest time of the day, in a un-airconditioned classroom; we would sit with our heads resting on folded arms, as the words became alive in our minds. This was back in the 1960s!

I started reading for enjoyment when I started College. I started carrying a paperback book with me when the energy crisis came and with it hour long waits in lines for \$5 of gasoline. I loved the sci-fi collections of short stories books during that time. Normal waiting time in line, I would read 4 stories. Summers, I read novels into the wee hours of the morning. My grandmother introduced me to Used Bookstores and 10 books for a dollar! That was in the 1970s.

Today, I have no idea the number of books I have read so far. On average I read about 3 books a week. I read the Bible, novels, true stories, historical romances, Reader's Digest, Science Fiction, Cookbooks, National Geographic Magazine,

instruction manuals (someone has to figure out how the cordless phone works), and anything else that may seem interesting. Hal has the same love for reading that I do but draws the line on instructional manuals for some reason. Mike is just now starting to discover the joys of reading just for the fun of it. He found a topic that interests him and that is where it all begins.

Not interested in reading? Feel there is nothing out there in print that would interest you? Do I have news for you! They have books covering every topic you can think of and some you haven't. Think books cost too much? Look in this newsletter and you will find a simple ad for THE BOOK RACK. Terry is the owner and he sales and trades used/new books. After you finish reading the book, just take it back, trade it in and pick out another book for a small cost. If there is a certain book you have been searching for, Terry and his staff are the people to ask. No money, not a problem. There are the public libraries, they have all kinds of books and they are free as long as you return the books on time.

So, the next time you sit down and stare at that box sitting in your house and wonder why you are wasting your time watching it, turn the box off and pick up a book to read instead. A mind is not something we should waste, exercise it with the written word!

Did you know this?

Take out a one dollar bill and look at it. The one dollar bill you're looking at first came off the presses in 1957 in its present design. This so-called paper money is in fact a cotton and linen blend, with red and blue minute silk fibers running through it. It is actually material. We've all washed it without it falling apart. A special blend of ink is used, the contents we will never know. It is overprinted with symbols, and then it is starched to make it water resistant, and pressed to give it that nice crisp look.

If you look on the front of the bill, you will see the United States Treasury Seal. On the top you will see the scales for the balance a balanced budget. In the center you have a carpenter's T-square, a tool used for an even cut. Underneath is the Key to the United States Treasury. That's all pretty easy to figure out, but what is on

the back of that dollar bill is something we should all know.

If you turn the bill over, you will see two circles. Both circles, together, comprise the Great Seal of the United States. The First Continental Congress requested that Benjamin Franklin, and a group of men come up with a Seal. It took them four years to accomplish this task and another two years to get it approved.

If you look at the left-hand circle, you will see a Pyramid. Notice the face is lighted, and the western side is dark. This country was just beginning. We had not begun to explore the West, or decided what we could do for Western Civilization. The Pyramid is uncapped, again signifying that we were not even close to being finished. Inside the capstone you have the all seeing eye, and ancient symbol for divinity. It was Franklin's belief that one man couldn't do it alone, but a group of men, with the help of God, could do anything.

"IN GOD WE TRUST" is on this currency. The Latin above the pyramid, ANNUIT COEPTIS, means, "God has favored our undertaking." The Latin below the pyramid, NOVUS ORDO SECLORUM, means, "a new order has begun." At the base of the pyramid is the Roman Numeral for 1776.

If you look at the right-hand circle, and check it carefully, you will learn that it is on every National Cemetery in the United States. It is also on the Parade of Flags Walkway at the Bushnell, Florida National Cemetery, and is the centerpiece of most heroes' monuments. Slightly modified, it is the seal of the President of the United States, and it is always visible whenever he speaks. Yet, the meaning and the history of the symbol has been lost over time.

The Bald Eagle was selected as a symbol for victory for two reasons: He is smart enough to soar above it. Secondly, he wears no material crown. We had just broken from the King of England.

Also, notice the shield is unsupported. This country can now stand on its own. At the top of that shield you have a white bar signifying congress, a unifying factor. We were coming together as one nation. In the Eagle's beak you will read, "E PLURIBUS

UNUM," meaning "One Nation from Many People."

Above the Eagle you have thirteen stars representing the thirteen original colonies, and any clouds of misunderstanding rolling away. Again, we were coming together as one. Notice what the Eagle holds in his talons. He holds an olive branch and arrows. This country wants peace, but we will never be afraid to fight to preserve peace. The Eagle always wants to face the olive branch, but in time of war, his gaze turns toward the arrows.

They say that the number 13 is an unlucky number. This is almost a worldwide belief. You will usually never see a room numbered 13, or any hotels, or motels with a 13th floor.

But, think about this:
 13 original colonies,
 13 signers of the Declaration of Independence,
 13 stripes on our flag,
 13 steps on the Pyramid,
 13 letters in the Latin above,
 13 letters in "E PLURIBUS UNUM",
 13 stars above the Eagle,
 13 plumes of feathers on each span of the Eagle's wing,
 13 bars on that shield,
 13 leaves on the olive branch,
 13 fruits and if you look closely,
 13 arrows.

And for minorities: the 13th Amendment.

Why don't we know this? The facts are located in old documents and books stored in dusty corners forgotten in rooms no one uses at libraries. Your children are not taught this, and their history books do not contain this information. After all, it is just a simple dollar bill and who really cares what is on it as long as you can use it to buy something you want.

Still, these facts are important. Every day you take out a dollar bill, you are holding in your hands your inheritance and a reminder of the dream and ideals our founding fathers had for America!

(The Article about the USA Dollar Bill is from the Internet & has been edited by me.)

CALLING ALL YLs! Think about HH and what you would like to see added! I have idea but will need your help...
 Until Next month...

Space and Science: A shocking experiment

An experiment measuring the electrical field around the International Space Station has been silent for weeks. And ground controllers have expended considerable effort to determine the cause.

The experiment is designed to indicate whether electrical fields that build up around the station as it moves through space threaten space walkers. A discharge could shock an astronaut that came in contact with the outside of the space station. It could also cause damage to critical systems in their spacesuits.

The device was placed atop the station's tower of solar arrays during Endeavour's December 2000 mission. It worked until Endeavour left for Earth and has been quiet ever since.

Measurements taken before the instrument failed showed very low charges, but those readings were taken when Endeavour was still docked. There are no measurements from the station alone.
(NASA)

Space and Science: AO-40 Update

There's good news and bad news coming from AMSAT Germany concerning the AO-40 satellite. We have this report.

The latest information on Oscar 40 suggests that the satellite might have suffered antenna system damage when it went silent last December 13th.

AMSAT Germany's Peter Guelzow, DB2OS, reports that efforts to restart the 2 meter transmitter continue to be unsuccessful. DB2OS says that while the 2 meter, 70 centimeter and 23 centimeter receivers are all working on the high-gain antennas, none of them will work on the omni-directional antennas. Guelzow speculates that either the omni-directional antennas, the cabling or antenna relays are damaged.

On the bright side, DB2OS does say that Oscar 40's attitude control system is fully functional. He says that's a very critical to keeping the satellite in orbit on a long-term basis.

More on AO-40 as soon as AMSAT makes details available.
(AMSAT)

REPEATIN' MACHINES

By Jerome Doerrie, K5IS
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Tri-State Amateur Radio Group

Have you ever felt like you would like to own a repeater or at least have one available for your special use? On a couple of occasions while providing ham communications for public service events, simplex operation could not provide the needed range, but a low power portable repeater would have solved some headaches and greatly simplified how the task was done. Sometimes when several club members attend a hamfest together, it would be nice to have a common communications channel for the day. Many times a disaster disrupts communications and electrical power in an area. It would be great to have a portable repeater setup in a "jump" box so that it could be taken into the area and be immediately put to use. Many hams would like to assemble (build) a repeater but lack knowledge as to how to do such. The concepts are simple. It is the implementation that may be simple or complex. Pour yourself a glass of lemonade, pull up a chair, take a load off our feet, rest for a bit while we discuss an important thing in life--Ham Radio! This discussion will be about repeatin' machines and related tales!

In the simplest of terms, a repeater is a receiver that passes a signal into a transmitter for re-broadcast. It is that simple and that complicated. How well the receiver hears is largely determined by how far the transmitter output frequency and other transmitter frequencies are from the input frequency of the receiver. This offset frequency on two meters is only 600 KHz and on the 440 MHz band it is 5 MHz. Hence, it is much easier to make a UHF (440) repeater perform well verses the VHF unit. Both the receiver and the transmitter need to be in metal boxes to keep the radio frequency (RF) energy from leaking in or out. Most of the Motorola and GE commercial radio units have complete transmitter and receiver strips that are usable for repeater building. Many of the ham radios use audio stages common to both receiver and transmitter, thus it is difficult to separate out the units. My Hamtronics kits are placed in diecast aluminum boxes and all connections are made with feedthrough capacitors, shielded cables, and by-pass capacitors inside the boxes. There's nothing hard about this, but it is tedious to accomplish.

The antenna or antennas cause the biggest concerns in a repeater system. If one antenna is used for both transmitting and receiving, some extra filtering will be needed. Typically a set of quarter-wavelength-long cavity filters are used. For two meters, each cavity is about 24 inches long and 4 to 6 inches in diameter and will be in a set of six or more units. Information for building a 2-meter duplexer can be found on the web address www.repeater-builder.com/rbtip/2mduplexer.html. On two meters it is possible to have separate receive and transmit antennas as close as 50 feet on the same tower. For horizontal placement a separation of 300 or more feet is needed. It only takes more low-loss (expensive) coax feedline to use the two antennas. The height of the antenna over the surrounding terrain determines how far the repeater will reach out. Tall buildings, towers and mountain tops provided desirable repeater locations. The higher, the better!

Every now and then, someone decides that to get real height. Why not use a hand held unit on an airliner? All electronic devices produce internal signals. Also, transmitted signals in close proximity to each other mix together and produce harmonics or many other sub-signals at 2 times, 3 times the frequency, and plus or minus each other and all other possible combinations. At a 1000 feet away, these signals probably would be too weak to be heard. Within the close confines of the airplane, these new signals can be heard. If any of the harmonic energy should be on or near navigation frequencies, or find a way into the glide slope indicator that is used in landing, it might not be a pleasant experience flying at that time. Some say that the greatest thrill known to mankind is flying. I say the greatest thrill is making a safe landing! Social responsibility demands that we leave our ham electronics turned off when taking a commercial air flight.

While it was not life threatening, a very dramatic case of this self-interference occurred during the Perryton school contact with MIR. The contact was being broadcast live on a local radio station, two television networks were filming, newspaper reporters were writing, members of the school board were present, and many students were also present. We were to have a ten minute window for communication with Astronaut Jerry Linenger as MIR flew over us. The ground facility consisted of three separate stations with everything independent of each other, so that if one system failed, there would still be two to use. On the telephone, I was participating in a conference call with flight control, Houston, MIREX mission control in Goddard Space Center, Maryland, and a mission specialists in Mississippi. Right on the second, we heard Linenger calling us. K5PH answered on cue, then we discovered MIR was not hearing us! OH, #####! What in the ##### has gone wrong? Fortunately at 3 minutes into our time slot, MIR finally heard us. RELIEF!! The telephone conversations had become very tense. My analysis of the situation indicated MIR was experiencing a "classic" case of desense. About a month later I received a report from Goddard confirming a telemetry transmitter was transmitting on 143 MHz while we were using 145 MHz.. Regrettably, this month MIR is scheduled to de-orbit. This one qualifies as my must nerve racking QSO.

In addition to the transmitter, receiver, duplexer, and antenna, a device is needed to control the repeater. Controllers came in a variety of prices and function abilities. Information on a Basic Stamp controller can be found on the net at www.iland.net/~n0yox. Additional information can be found on the Amateur Repeater Builders Home Page www.cdi2.com/build_it/. If you desire even more information try using the search engine Google and enter the word "repeater." The Federal Communications Commission rules require that physical control be maintained on a station used as a repeater. This can be done by using telephone lines and touch tone commands, radio frequencies above 148 MHz, or by having the repeater within human reach.

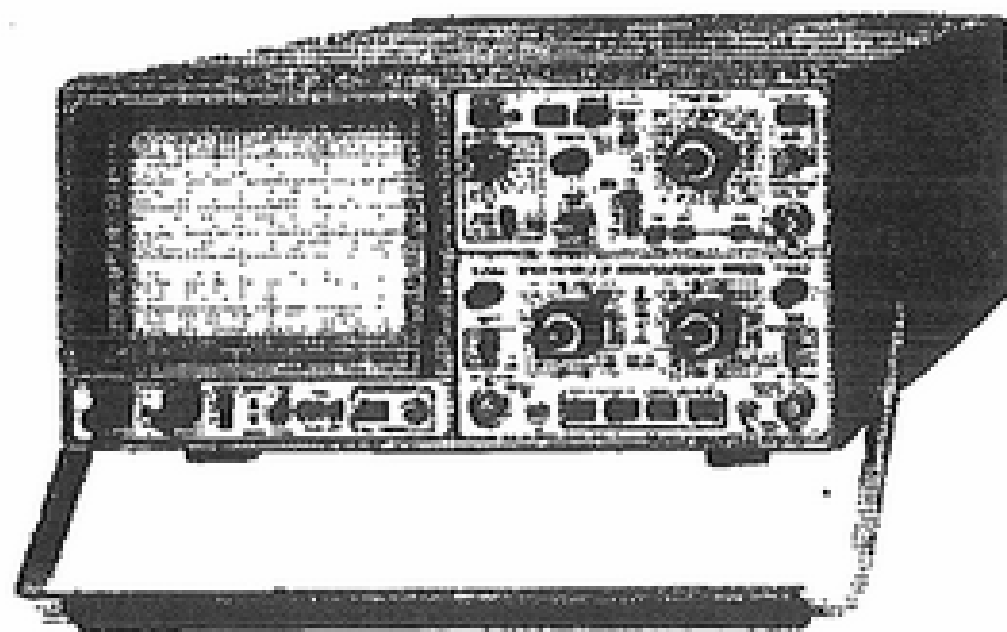
Each new technology presents lessons. Transistors were new and wonderful or maybe it was "wondered about." Six of us technical-type hams in Perryton decided that we could clone a Heathkit circuit. The circuit board was made and stuffed with components from our workbenches. Nothing worked! The

circuit refused to respond. After gallons of coffee and futile sessions of magic wand waving, someone suggested ordering the transistors from Heath. When the Heath-supplied transistors were placed into the circuit, viola, everything worked! We had tried to use improved replacement transistors and had not adjusted the bias resistors to compensate for this change in design.

By using dual band repeat hand held or mobile units, a repeater can be quickly assembled. Radio Shack® has a digital recorder that will record and hold 30 seconds of information. This can be added to a radio to make a simplex repeater. There are so many things to try. In 1972 I purchased the portable rig of the day, a chiropractor's delight, a four pound, 6x8x3 inch rig that had 6 crystal controlled channels and two watts of power. This shoulder strap portable was supposed to provide all we would ever need in a unit for use anywhere in the United States. It came equipped for 146.52 simplex, and 146.94. 88, 82, 76, 73 repeaters. For a mobile antenna, a piece of tin was fastened to a yard stick and folded into an "u" shape so that a car window could be rolled up and hold this in place. The shield on a length of coax was stripped back 19 inches and the center conductor was stapled to the yard stick. Many enjoyable contacts shortened the trips for me, but the family members asked that standard inevitable question, "When are you going to turn that noisy thing off?"

It would be fun to have a little 440 repeater here at the house with ten meters connected into it. Then I could use a small handheld while on the tractor and talk all over the world!

One of these days I may write the Chronicles of 146.82 MHz. Until then, go forth, build repeaters, have fun and experience your own stories.



Enforcement: Massive fine for cable leakage

Leaks can be costly - especially when they radiate from a cable TV system's trunk lines. In what is the largest fine the FCC has assessed against a cabler, a Louisiana firm was cited for signal leakage in the VHF aeronautical band. ARNewsline's David Black, KB4KCH reports:

The FCC has issued a Notice of Apparent Liability in the amount of \$133,000 against Callais Cablevision, Inc.. This for what the agency terms as repeated violation of the government's signal leakage standards, repeated violation of the frequency offset requirements in the aviation bands, repeated failure to make the annual leakage tests, and willful and repeated violation

of the requirement to have prescribed equipment capable of receiving and sending EAS alerts to its subscribers.

According to the FCC, back on January 21st, 2000, the Federal Aviation Administration experienced interference to the operation of its Grande Isle, Louisiana, Remote Communication Air Ground facility.

In the course of his investigation, an FAA Airway Transportation Systems Specialist contacted the Commission's New Orleans Office for technical assistance. The Commission engineer advised the FAA that the characteristics of the interfering signal indicated that the source was leakage from a cable system.

The FAA personnel contacted Callais technicians to investigate the problem.

Upon returning to the site on January 24, 2000, FAA personnel reported that the interference was no longer present. The FAA representative states that Callais told him that they found and repaired some cable leaks. Leakage monitoring logs supplied by Callais show that several leaks were found and repaired in the general vicinity of the FAA facility on January 21st and 22nd.

On February 8 and 10, 2000, the Commission's New Orleans Office conducted a follow up examination of the system cable plant to identify leaks and determine compliance with the basic signal leakage criteria. On February 8th, seven leaks were measured and on February 10th seven more leaks were found. In addition the Commission field engineer found that the system had not offset carrier frequencies from aeronautical frequencies as required by Commission rules.

After evaluating the matter for almost a year the FCC has concluded that a fine of \$133,000 is warranted. The FCC says that this is the largest fine ever proposed against a cable system for problems involving signal leakage.

The previous holder of this dubious honor was Media One of Metropolitan Detroit which was dinged \$55,000 for cable signal leakage violations.

But the FCC says that the amount of the forfeiture issued to Callais Cablevision is justified because the totality of the violations in this case is much more serious. The agency says that MediaOne involved two days of leakage violations, including one incident that caused harmful interference. Callais' violations -- says the FCC -- occurred on three days and, unlike those in MediaOne, are accompanied by almost complete disregard for the rules designed to protect air traffic safety. This includes failure to offset frequencies and failure to make annual measurements to verify compliance with the basic leakage performance criteria. All are very serious safety issues in the eyes of the FCC.

From the South-East bureau in Birmingham Alabama, I'm David Black, KB4KCH.

The company was given thirty days to pay or file an appeal.
(FCC)



Choctaw Amateur Radio Club

Choctaw Amateur Radio Club (CARC) Regular Monthly Meeting was held on January 15, 2001 at the Choctaw Community Center. A quorum was met and business conducted as follows:

The Choctaw Amateur Radio Club meeting was called to order by the Club President Chuck Kanach, KC5EZZ at 7 PM. He stated that he would use a relaxed version of Robert's Rules of Order.

A discussion followed concern about an opening ceremony for the meeting and what had been done in the past. It was agreed that the Pledge of Allegiance was appropriate. There were a total of 10 members present. Members were asked to check and correct the current club membership roster.

The secretary was asked to update the club officer's names in the Collector and Emitter.

Reports:

Secretary's Report for November was read and approved. There wasn't a report of December.

Treasurer's Report - None.

YL Report - Kay, KB5VJR, said that they were starting their 7th year. Members were surprised that it has been that long.

Presidents goals and projects:

1. Increase the club membership - (These items will be brought up at other meetings throughout the year.)

a. Invite a friend to a meeting, non-Hams are welcomed.

b. Invite a former member.

c. Bring a member who isn't able to drive because of health reasons.

2. YL Net - A challenge to all members, to encourage their YL to at least check into the YL net for the count. They would have to act as a control operator for the unlicensed YL.

3. Monthly Coffee - 2nd Saturday of the month, starting between 9:00-9:30 AM. The first one will be on February 10th, 2001 at the Texaco Truck Stop (Bruce's Restaurant) at I-40 and Choctaw Road. Other sites for the coffee will be discussed at monthly business meeting.

4. A quarterly luncheon - March, June, September, and December. There will be a short business meeting, to keep those members that can't get out for the regular meeting, informed on club activities. Later in the year it will be determined if the Christmas Dinner should be separate from or take the place of the monthly business meeting.

5. Shorten the business meeting, so that we can conduct a program or have a speaker for the remainder of the scheduled time. If members have any suggestions for programs or speakers, please send an email to Chuck at KC5EZZ@TDS.NET, stating details and he will work to make it happen. Some of the speakers/programs that were mentioned include: weather spotters, ARES, ARRL representatives.

6. Support CORA - The CARC needs to have representatives at the CORA meeting. Chuck Kanach, KC5EZZ, Bill Tarkington, KC5ICR and Bill Crossland, N9SQV volunteered to attend the January CORA meeting on the 4th Tuesday at 7:30 at the Salvation Army Bldg.

7. Support for Events.

a. The Swap meeting. Without the treasurer present we didn't know how successful we were. It was suggested that we have another swap meeting on April 14th, if we can get the building reserved.

b. A GPS Foxhunt - Dave, WD5G, told about the purpose and need of knowing how to use a GPS in times of emergency. The GPS foxhunt would provide us with some needed training on the use of a GPS. At the end of the foxhunt we would meet for coffee and a debrief. Dave passed out an information sheet, and a Sunday afternoon was suggested for the foxhunt,

the date would be set later after rules can be established for the GPS foxhunt.

b. RT 66 Special Event - Date and time not firmed up at present. The members participating in the event last year agreed that this was a fun time and they would like to do it again. The Cowboy Hall of Fame was suggested as an excellent place to hold this event again this year. Don, N5ENQ, will take the lead in organizing this activity and will keep us informed.

c. JOTA - which takes place on the 3rd weekend in October. This will be discussed in more detail later in the year if we have interest in helping out.

d. Field Day - June 23-24th. Don, N5ENQ, will schedule the park. Chuck, KC5EZZ, will select a field day committee to plan for this event.

e. Vo-Tech Open House - The club will set up a table to explain what we do for the community. The date has not been determined but the Vo-Tech will let us know when they plan to hold their next open house, then we can finalize our plans.

f. Amateur Radio Class - It was agreed that this would be a fun thing to do. It was tabled for another meeting because of time.

8. We used to have a special fund for flowers and Chuck, KC5EZZ, wanted to re-establish this fund. It was agreed by majority vote to fund this activity from the club treasury until we had more time to consider re-establishing this special fund. We would limit sending Get Well and Sympathy cards to a club member, their spouse and their children.

9. Post Office box keys should be found and given to the current President and Treasurer.

10. Recall roster needs to be updated and was put on hold for next meeting.

New Business:

It was brought up that someone should ask the Vo-Tech if there is some way to put an antenna up, so that we could have it for our meetings in case it is needed for a program, and it could be used for talk-in for the meeting. Chuck, KC5EZZ, said he would check on that.

Old Club Tower Sections - Mike would like to buy the two tower sections that the club has. A motion was made by Don, N5ENQ and seconded by Dave, WD5G that we allow Mike to buy the two tower sections for \$25 dollars each. Approved.

Old Business:

Don's electric bill for the repeater - on hold

Remote receiver site, bring up at next meeting.

Meeting Adjourned at 8:30 PM

Respectfully submitted by

Kay Holzman, K5SVJR
Club Secretary

Two-way records: First 136 kHz Trans-Atlantic contact thwarted

An international attempt at the first 136 kHz contact across the Atlantic has failed. Jeremy Boot, G4NJH, has the details from Nottingham in the UK:

Over the weekend of the 12th to the 14th of January, stations in Canada, the USA and Europe attempted the first two-way transatlantic contact on the 136 kHz band. Although the two-way was not successful, the one-way distance record was broken in both directions. The new world distance

record now stands at 5736 kilometers.

G0MRF, who was the first station to cross the Atlantic on 136 kHz, put up his antenna on an apartment block on the Sunday, but was hampered by high static levels and poor conditions that made that day's tests a washout at both ends. On the Saturday, however, several European stations received good signals from VE1ZZ and VA3LK. MM0ALM and OK1FIG were the only Europeans received in Canada.

Extremely slow Morse was used by all stations to enable signals to be decoded well below the noise level. VE1ZZ was occasionally audible in the UK but the strength was not sufficient to read normal speed Morse.

The USA team, operating from North Carolina, heard a number of LF stations, but none from Europe.
(G4NJH, RSGB)

Enforcement: New address for illegal gear reports

The FCC is requesting that hams who discover illegal radio gear advertised for sale at various on-line auction sites such as eBay forward this information to them at a special address:

FCCINFO@fcc.gov

This e-mail address will get the information directly into the hands of investigators. You can continue to use:

fccham@fcc.gov

for other Amateur Radio complaints that do not involve Internet on-line auction sites.

(FCC)

Enforcement: Former Ham going to jail - Again

A former ham, who could not stay off the air after losing his license is headed to jail -- again. On January 22, Richard Burton, the ex-WB6JAC, was sentenced to 3 months in jail for unlicensed operation. He was also sentenced to one year's probation with psychological treatment. Burton reports to the U.S. Marshal's office at noon on February 26th to start his 3 month incarceration. This marks Burton's third time in prison on ham radio-related rules violation convictions.

(FCC)

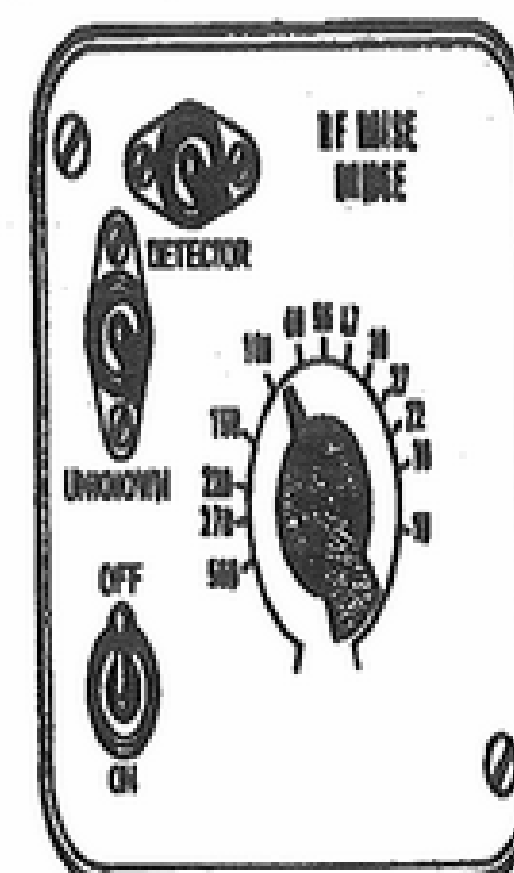
Interference: Website shows what illegal phones look like

Jake Gier, N7VIV, says that he has discovered at least one illegal 2 meter, high power cordless telephone near Boise, Idaho and has put the information about it on the web. According to Jake, the

interference began in March 2000. His website has the story of how it was tracked along with some good pictures of the device. A link to Jake's site can be found at ARNewsline's(tm) only official web site:

www.arnewline.org

(N7VIV)



CLEAR SIGNAL PRODUCTS - Rotor And Power Cables

P/N	PRODUCT NAME	PRICE			
#	DESCRIPTION	Per Ft.	Per	Per	Per
		Per Ea.	100-499'	500-999'	1000'
301	CQ R1;2-18, 6-22 ROTOR	0.36	0.34	0.32	0.30
302	CQ R2;2-16, 6-18 ROTOR	0.46	0.44	0.42	0.40
304	CQ R4;2-14, 6-18 ROTOR	0.56	0.54	0.52	0.50
341	8 AWG RED & BLACK ZIP PWR	0.78	0.72	0.69	0.66
342	10 AWG RED & BLACK ZIP PWR	0.48	0.46	0.44	0.42
343	12 AWG RED & BLACK ZIP PWR	0.34	0.33	0.32	0.28
344	14 AWG RED & BLACK ZIP PWR	0.28	0.26	0.24	0.22
345	16 AWG RED & BLACK ZIP PWR	0.20	0.18	0.16	0.14
346	18 AWG RED & BLACK ZIP PWR	0.14	0.13	0.12	0.11
341a	50 ft. spool 8 awg R & B Zip Pwr	\$34.00 ea			
342a	50 ft spool 10 awg R & B Zip Pwr	\$25.00 ea			

DISCONNECTS

352	8 POLE ROTOR DISCONNECT	\$9.00			
52M	8 POLE MALE DISCONNECT	\$5.00			
353	6 POLE ROTOR DISCONNECT	\$6.00			

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Altus Area Amateur Radio Association

From the President:

Well, here we are starting another year and we have a lot to look forward to, but right now I'd like to look back and see what we have accomplished over the past twelve months.

We pushed ahead with the AAARA Communications Van, now renamed the Mobile Command Center (MCC). Many long hours went into installing counter tops, trim, carpeting, dash coverings, brake cylinders, paint, acoustic padding, shelves, radios, antenna racks, and light bars. We've finally gotten it to the point that we can use it for either recreational communication or emergency communication in support of the Red Cross. We've used it at two events and have received favorable comments from the community both times. I'd like to thank each of you who have donated your time, talent and funds to make this the success it already is.

We now have a fully operational APRS digipeater. APRS (Automatic Position Reporting System) is one of the fastest growing areas in the Amateur Radio world. Of course to use it most effectively requires a digipeater. Although the club didn't fund the digipeater (the credit for that goes to Mr. Dwight Dennis, WB5KRH), members of the club spent their time and used their talents to make the project a success. Again, thanks to those who worked on this project.

Amateur Radio Emergency Services (ARES) has come a long way this year. Dave Locke, KC5SII, has done a great job in getting ARES involved with community projects and has outlined a plan for the future. By the time you read this Dave will have moved to his new home in Enid and George Mateyko, N1GM, will have moved in to take his place as the new Jackson County Emergency Coordinator. Thanks

for your dedicated efforts Dave and good luck in Enid.

Mike, W5VSU, once again put together a successful Hamfest. Community support was up to its usual high standards and the club really came through to make it an enjoyable event for all participants. This single event takes an enormous amount of time and dedication from the Hamfest Coordinator, so Mike deserves a big round of applause from all of us for his hard work. Thanks Mike.

Our Field Day was a lot of fun, as usual. We had lots of radios set up and several operators. Some of us stayed all night, and one operator in particular, Fred Cramer, KC5SRJ, refused to quit working. He made contacts all day and all through the night. If you're looking for a guy who won't quit, go see Fred. Big thanks Fred!

Our club picnic was a lot of fun. We had lots of good food and fellowship and even got to play with the Mobile Command Center for a while. Who do you think pulled together this event? None other than Janice Cramer, KD5BNO. She made sure we had plenty to eat and a variety of foods (she was particularly intent on making sure that everyone didn't bring chicken). I think everyone went away happy and full to the brim. Thanks for all your help Janice.

There's probably more and I've probably forgotten some of you. It takes many people working together to make a club like ours a success. Every contribution counts, large or small. Thanks to all of you for making this a year to remember.

Big congratulations to the new club officers and to those who are returning. I'm looking forward to another great year.

Respectfully,

Dale Town, N5VX

AAARA Business Meeting

11 January 2001 held at EOC Called to Order at 5:30pm by Dale, N5VX.

Old Business:

Treasurer Report - We have funds...

New Business:

Breakfast Meeting - CANX for Jan
Reviewed agenda for general meeting.
Discussed Insurance.
Discussed Election
Meeting Adjourned at 5:55pm

January 2001 General Meeting

The Altus Area Amateur Radio Association was called to order by the President, Dale, N5VX at 7:00 PM Thursday Jan 11 2001.

Introductions

Intro.'s - Done, 20 attending. 4 guests
Treasurers Report - Read

Old Business:

Books from ARRL: See James, AB5FS if you would like to order a book from the club.

Dues / C&E - Dues are due this month: \$12 Single, \$16 Family

New Business:

Elections for 2001 results...

President: Dale, N5VX

V. P.: Mike, W5VXU

Secretary: Debra, KD5LMW

Treasurer: James, AB5FS

Editor: Lil, KC5CNA

Sgt. at Arms: Janice, KD5BNO

Mars / Shares - Mike W5VXU talked about this item.

Hamfest Account - Discussed abolishing the Hamfest account.

Insurance - Dale is sending in info to see how much it would cost.

Fund Raising - Mentioned that we need more than just Hamfest and RattleSnake Derby.

Gene, Jane and Millard Wynn - Gene, our Honorary Member, sent 2 cards, one for Christmas, and one to thank the club for providing them Christmas dinner.

QSL Bureau - Mike W5VXU talked about this.

Polo / T-shirts - Get with the Treasurer about ordering a club shirt, money up front.

Note new changes...Ham Radio Testing Schedule - Will be held 4th Mondays, of the Odd Months at SWTC. P.O.C. is George Mateyko, mateykog@brightok.net
Refreshments - Janice for Feb 08 meeting.

Projects and News:

APRS- Lawton has its new digi running. With 2 more going up soon.

The AAARA Tuesday Night Roundtable Net will be at 8pm, 146.790. Ron, KD5CYW, will be Net Control.

Email your announcements to Ron at kd5cyw@arrl.net, or call (580) 482-8446.

Meeting adjourned 8:30 PM

Next meeting 8 Feb, 7pm at SWTC.

Typed by Ron, KD5CYW / Edited by Dale, N5VX



Oklahoma City Autopatch Association

Minutes of the 16 Jan 01 OCAPA

The President of OCAPA, Mark Hamblin, WL7FT opened the meeting, 14 members were present and 1 guest.

Minutes from the November meeting were approved as published in the C&E.

Treasures report was read and approved.

ARRL News, Tom Webb, WA9AFM has resigned as Oklahoma Public Information Officer. He cited a change in professional commitments as the reason.

AMSAT - Tom WA9AFM discussed the current situation with AO-40

Old Business

Mark discussed the current status with the OCAPA website. URL was distributed to the membership for evaluation. (Open)

New Business

Club information reflector - An OCAPA news group has been established on the QTH server. If anyone is interested in subscribing to the group, send an email to: majordomo@qth.net.

In the body of the message put

subscribe ocapa

And send. Nothing is required in the subject line. If there are problems please send Clay an email

ClayWA6LBU@aol.com

(Closed)

Marathon - There will be a Marathon on April 29, 2001. OCAPA and ARES are working with the race coordinators to build a communication plan for the event. Membership discussed the event and showed an interest in working the event. Further information to follow. (Open)

Ham Holiday - CORA is seeking a Program Chairman for the 2001 Hamfest. This position is responsible for coordination of all forums and meeting scheduling. Tom WA9AFM, Last year Program Chairman stated that the position is not a difficult one and is very rewarding. (Open)

The meeting was adjourned at approximately 2015

Respectfully Submitted

Clay Mayrose, WA6LBU/5
OCAPA Secretary

Making The Difference

By Mark, WL7FT/5

Seems as though many clubs are getting a little lethargic in their activities. Well I am not here to badger clubs, I am here to badger YOU! Yes, you... Now let me define the term "YOU". "YOU" are the type of person that always lets someone else be the person that is along for the ride, but never offers to drive. "You" are the one that really like things to happen, but never steps up to the plate and says, "I'll take that project on" and heaven forbid be responsible for what happens to it. "YOU" are the one that may or may not go to a routine meeting and sit in the back of the room, vote occasionally, say things like "We really should do this because it's a good thing for our organization and amateur radio" but hardly ever say, "I'd be proud to have my influence on the outcome or effect that it has." You just sit in your shack and think that "They" will do it.

Now I'll define what a "THEM" is. They are people like Johnny, KM5GM that run the Saturday morning swap net, who holds classes on VHF two or three times a year to help teach the younger hams CW, and always be there when you need an extra person as a relief. They are people like Hal, KB1ZQ who monthly compose the C & E, from the best annual Ham fest in

the state. They are people like Tom, WA9AFM who "give without getting" to the hobby. Those people like Loyd, ABSI who faithfully dedicate their time and often resources to keep a repeater system up and running so "YOU" can use it. Clay, WA6LBU who without glory or very much gratification plug along every Thursday and Saturday try to get more interest in ARES, and help people be more prepared to conduct emergency operations whenever needed at a moments notice. My hats off to these people for making the difference, for if they were not doing these things, I doubt anyone would.

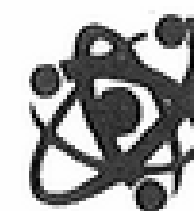
For the last several months I've been asking for people to step up and take on a couple little projects here and there and what I get is mostly disappointment. I'm here to tell you right now that the world is running out of the "Thems" and unless YOU want to "step up to the plate", grab a bat, and start swinging at some of the things that the amateur "Service" can provide, then I guess you'll always be a you, content with paying your dues once a year and just sit back and let everyone else do, and just contently watch the world go by. I for one am not content with sitting around and just talking about doing things. I want to see more enthusiasm and fellowship in our very good, very capable members. POC's are needed for: "Field Day 2001", "Murrah marathon 2001", "Ham Holiday program Chairman 2001", "2 members as the OCAPA committee to CORA"

It's high time we all jumped in and make the difference. Be a "YOU" or a "THEM".

Your choice, make a difference
"Nuff" Said,

73 WL7FT/5

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Blue Angel #8 ...a true story

"Live This Millennium As If It Were Your Last"

So, just when you think the Spirit of Christmas, Angels, and Miracles are things of the past...read this and recharge your spiritual batteries!

On November 1, 1986 a corporate jet owned by Coca-Cola arrived at Elisabeth City North Carolina carrying the CEO and Acting-President of the Word Foundation and several members of the board of directors. Shortly after they had left the airport for a meeting in town a series of events began to unfold which drove one man to create what we know today as Corporate Angel Network or "Angel Flight".

A Coast Guard Falcon 20 was beginning its takeoff roll at Elisabeth City when it blew both front wheels causing the jet to veer off the runway and run into a fence line. The jet was headed to Memphis TN to pickup a little girl by the name of Crystal Grant and carry her to Good Samaritans Children's Hospital in Houston TX to under go a liver transplant.

The pilots of the Coca-Cola plane watched the events and slowly began to hear the stories about the jet's mercy mission. After a few hours the CEO and his passengers returned to the airport and witnessed the scene and asked the pilots what was going on. Once the CEO had learned of the situation he asked to be taken to the Coast Guard Station so he could speak with the Station Commander, once there he asked him if there was anything he could offer Or do. The Commander said in a frustrated voice, "Yeah, can you make miracles happen. We need a jet and we need one fast." The CEO just smiled and said you've got one and pointed to his company jet.

Within two hours the Coca-Cola jet was on it's way to Memphis and the situation seemed under control. But unbeknownst to them a similar scene was playing out in San Diego where the donor organ was being prepared for transport to Houston. The aircraft lined up to take it to Houston had lost its ability to pressurize its cabin and a similar scramble was under way to find a replacement.

Calls went out and everyone made excuses from corporate CEO's to airlines managers as to why they just couldn't help out. Once word made its way to Elisabeth City the situation was reaching its last window of opportunity for the Surgeons and time was now becoming an enemy. Again the CEO of Coca-Cola was called upon to help out and he jumped on the phone with his pilots now in Houston, they told him there was just no way they could go and retrieve the organ and return to Houston in time for the operation to take place.

The CEO began to think and ponder what would be speedy enough to retrieve it in time. A call was placed to the Governor of Georgia and he then placed a call to the Governor of California requesting help.

On that day sitting on the ramp at NAS Miramar were 6 brand new F/A-18A's and 2 F/A-18B's (two-seaters) wearing the colors of the Blue Angels as the team prepared to debut them to the

world on November 6. It only took 4 phone calls to reach the Base Commander and 2 more to reach the Commander of the "Blues".

1:55 minutes later Navy Lt. Tony Less, in Blue Angel # 8 was gear up eastbound with his precious cargo strapped into the rear Martin Baker ejection seat, held in place by four dress belts.

Unbeknownst to the family or anyone in Houston all of this was unfolding, the local media had interviewed the little girl moments before she was placed into the prepping room for her surgery.

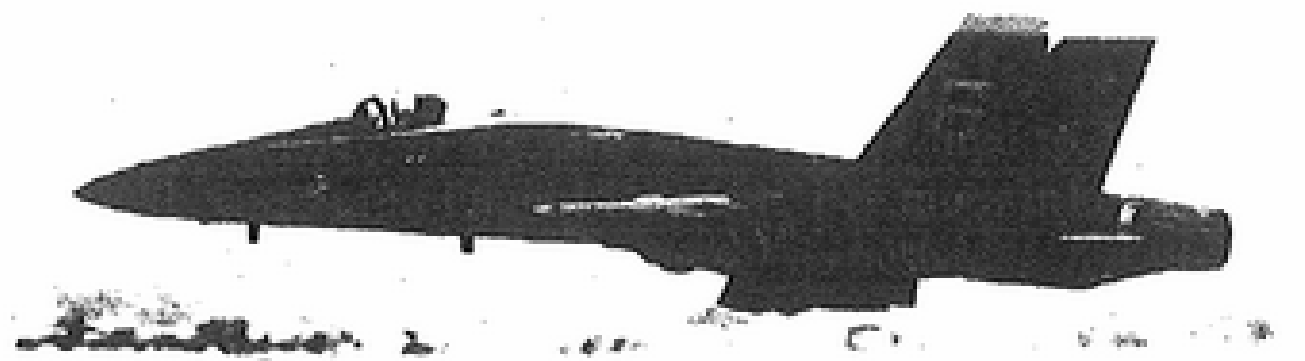
A reporter asked her if she was scared, she responded, "No I'm not worried, my mommy told me that my Angel will watch over me".

It was an ironic statement indeed. At that moment Blue Angel #8 was coming off an ANG tanker over Western New Mexico and making a mad dash for Houston. The clock was still ticking and with each movement of the hand went further against the Surgeons.

With only 90 minutes to spare Angel #8 turned final to Houston Hobby's Rwy 4L and rolled out to a stop, surrounded by police cars and an ambulance to rush the organ to the hospital.

To sum up this story the transplant was successful and Crystal returned home to Memphis in time for Thanksgiving, the CEO of Coca-Cola lobbied the Fortune 100 companies to create Corporate Angel Network, the name inspired by the Blue Angels. To this day Blue Angel #8 wears a small silhouette of an Angel praying on the canopy rail and the name "Crystal" written underneath.

A little over a month after the surgery the "Blues" made a planned detour to Memphis to say hi to a little girl named Crystal. And it was on that day December 18, 1986 that Crystal met her Angel, the Angel who saved her life. That was fourteen years ago. Today Crystal is 24 and every year she is personally invited to attend a show near her home in Memphis as the guest of honor to the Blue Angels.





Edmond Amateur Radio Society

Birthdays:

The following EARS club members have February birthdays.

02-03 Terry Deas	W5WTD
02-03 Don Sherry	KD5FQS
02-04 Lewis Keeling	KA5HYJ
02-05 Barbara Kiespert	KB5DGH
02-22 Brad Thomson	AC5CQ
02-23 Denise Thomason	KC5OVD
02-27 David Long	KD5FDW
02-27 Will Williamson	KD5MCO

Happy Birthday!

Member Information:

Welcome to these New Club Members:

Steve Christy N5ZQ
Ginefer Christy KD5MGC
Bill Hoag K5URM
Edward King W5EO
Susan Mehargue KD5MCB

Club announcements are being forwarded to all members with email addresses. If you have changed email addresses within the last 6 months, please drop Sharon KM5GV an email notifying her of your current email address. Send updates to km5gv@arrl.net. And, to notify the Club of a change in your Call, Address, Phone number or E-mail address, please contact Sharon by E-mail at km5gv@arrl.net. Thank you.

de Sharon Thompson KM5GV

This Year's Board Members:

President	David Wolfe, KC5KJE
Vice-President	Dick Stimson, KK5XO
Secretary	Bob Coxsey, KM5GZ
Treasurer	Robyn Price, KD5ISC
Past President	Curtis Foote, KC5GEP

Board Member	Terry Deas, W5WTD
Board Member	Carol Thompson, AD4BC
Board Member	Steve Christy, N5ZQ
Board Member	Tom Harris, KD5IOY

January Board Minutes

The meeting was called to order at 7:30 PM by the Year 2001 Club President, David Wolf, KC5KJE.

In Attendance were: Bob Coxsey KM5GZ, Ed Price KA8NBG, Robyn Price KD5ISC, Dick Stimson KK5XO, De Stimson KD5LSK, David Wolf KC5KJE, Lee Vaughn KA5WIS, Steven Christy N5ZQ, Dave Storey K0TYC, Earnest Wolf K5YKD, Sherry Storey KD5CPJ, Steve Kuper KC5RYT, Tom Harris KD5IOY, Curtis Foote KC5GEP, Regina Randall KD5MCD, Terry Deas W5WTD, Ron McCubbin KC5QCV, Clara Granger KG5UG, Sharon Thompson KM5GV.

Officers Reports

President: David passed a list of the Year 2001 Meeting Dates. He said that two dates might be changed. He also passed out a list of the Committee Chairs for 2001. They are:

Club Station - Dee Mize WD5FHR
Net Control - Bob Coxsey KM5GZ
Technical - Lee Vaughn KA5WIS
Scholarship - Joyce Wolf KC5NBI
H.F. - Ed Price KA8NBG
Activities - Dave Storey K0TYC
Calling - Clara Granger KG5UG, and Sherry Storey KD5CPJ
Health & Welfare - Clara Granger KG5UG
Membership - Sharon Thompson KM5GV
Cora Reps. - Earnie Wolf K5YKD, Ron McCubbin KC5QCV & Tom Harris KD5IOY; with Curtis Foote KC5GEP as back-up
C & E Editor KC5GEP

Secretary: Bob Coxsey, KM5GZ stated that the November Board Minutes & the Christmas Dinner Minutes have not been approved. A motion was made to accept the minutes as read & sent. They were approved.

Treasurer: Robyn Price, KD5ISC read the treasurer's report for November. It was voted on & approved. Robyn then read the December Treasurers report. The Christmas Dinner made a profit that was

deposited in the Scholarship Fund. There had been a private donation made & it had been deposited in the Scholarship Fund. A reimbursement to Sharon, KM5GV was voted on & approved.

It was brought before the board that there needs to be a policy in effect about what to do about returned check penalties that the Club may incur. There was discussion & a motion was made to call the party or parties to let them know about it & to ask them to pay the penalty. It was voted on & approved.

Repeater: Lee, KA5WIS said that repeater was doing fine.

Emergency: Lee also said that the City of Edmond's new computer system caused the siren's not to work on Saturday. There will be Storm Spotters Classes March 6 from 7:00 to 9:00 PM in the Banquet room of the Downtown Community Center.

Board Members: Terry Deas, W5WTD nothing at this time. Steve, N5ZQ said that he would like to start an ARRL VE test session in Edmond and would the Club to sponsor it. It was disgusted and agreed that it was a good idea and that the Club would sponsor it. Steve said that he could try to have a session every month or every other month. Carol Thompson, AC5BC not present. Tom Harris, KD5IOY no report at this time.

Committee Reports

Activity: Dave, K0TYC nothing at this time. Lee said that the St. Patrick's Day Parade was March 17th. Dave said that he thinks the Club should have a historian.

H.F.: Ed, KA8NBG nothing at this time.

CORA: Ron McCubbin, KC5QCV said that the CORA president, Tom Miller wants the Club to man the registration desk at Ham Holiday again this year. Ron said that he mentioned that CORA should get their own sound system instead of renting one. Earnie, K5YKD said that the next CORA meeting will be downstairs at the Salvation Army headquarters.

Membership: Sharon Thompson, KM5GV said that the membership cards were running low. A motion was made to

purchase 100 one sided cards. It was voted on & approved.

Health & Welfare: Clara said that Marion Dollmeyer had been moved to 9th & Bryant in Edmond to recuperate. Dwight Shrum, KC5YKH passed away January 1st.

Web Page: Ed, KA8NBG said that he would like ideas for the Web Site from Club members. The Edmond Sun has been contacted and said that they liked the Club using their server.

Calling Comm: Sherry, KD5CPJ said that she has 10 volunteers. She would like a few more. Sharon said that the calling committee should inform everyone that the Club Meeting is the 21st not the 14 th. as in the C&E.

Net Control: Bob said that everything was doing okay & for everyone to listen to the next Monday night mystery Net Controller.

Old Business

Review Comm: Curtis said that the financial review should be ready in time for the Club Meeting.

Christmas Dinner: David said that everything went okay. Lee said that Dee had the Club Station inventory ready. Clara has the Club banner back with the new call sign on it.

New Business

The meeting dates list that David had past around was okayed. The Committee chair list was also okayed. No voting. David asked if anyone wanted the Club to do anything this year. Lee said that he would like for the Club to have a float in the July 4th. Parade. Sherry asked if it was too early to reserve a park for field. David said that there has been talk about seeing if we could use Oak Cliff Fire Dept. Sharon said that there were some former members that have moved away that wanted to know if they could keep getting the C&E. It is \$9.00 a year. She asked about buying Club patches instead of a jacket order. A motion was made to buy \$100.00 worth of patches to sell to Club Members. It was voted on & passed. Ed said that Johnny, KM5GM was asking the Club if he could have his CW5 Net on the Edmond Club 147.135

repeater starting February 14th. It was voted on and passed. David said that he liked having Club Meetings instead of Business Meetings. It was agreed to continue to do this.

There was a motion to adjourn. It was voted & passed. The Meeting adjourned about 10:00 PM.

Minutes written & submitted by:
Robert Coxsey KM5GZ
Club Secretary

January Club Minutes

The meeting was called to order by President David Wolf, KC5KJE at 2:00 P.M. at the Edmond Downtown Community Center. Everyone present introduced themselves by name and call sign. There were 64 present.

Lee, KA5WIS said that the St. Patrick's Day Parade would be March 17th. It will be at Walnut & Sheridan in Downtown Okla. City at 1:00 P.M. He said that he would need volunteers to contact him.

Robyn, KD5ISC had some small Club patches for sell.

Clara Granger, KG5UG gave the health & welfare. Cards were passed around to be signed.

Vice President Dick, KK5XO said that the dinner meeting place for next month was set. It will be at the Blue Moon Restaurant in Edmond. It is located North of 15th. St. on the East side of Broadway. It will be Feb. 17th at 6:00 P.M.

Dee, WD5FHR showed the new K5OEK Club license. He also read a letter from the FCC about the ULS changing over to CORES.

Dave, K0TYC had the Christmas Dinner pictures.

Rick, N5KLM started the Weather Class program at around 2:20 P.M. It was well received.

Minutes written & presented by:
Robert Coxsey, KM5GZ
Club Secretary

Past Activities:

Monday Night Net

January was a busy month for the MNN, as was the whole year of 2000! The net is held each Monday night at 8:00 PM on 147.135/443.150. Bob Coxsey-KM5GZ, is net manager, and welcomes your participation including being a net control. Topics on the net include club activities, upcoming Hamfests and VE sessions. The MNN is a great communication forum. Operating events and subjects of interest to Amateur Radio operators are presented each session. The purpose of the net remains, as it always has been, sharing of information while preparing the club and others for emergency circumstances. All are encouraged, not just EARS members, to check-in and enjoy the net. Net controls for the January 2001 MNN, up until time this is written, included:

	Check-Ins	Traffic
Nick-K5XMR	51	22
Edith-KA5YPX*	17	10
David-KC5UNO	63	24
Pedro-W5/HR2PAC	56	25
Dee-WD5FHR	55	22

*Siren test net

The four January MNN sessions averaged 56 check-ins and 23 pieces of traffic. Year 2000 figures were 51 and 20, respectively. Continued growth! Thanks for all who have been and remain active in the MNN.

73 de Monday Night Net gang.

Future Activities:

The following will look familiar from last (and every) month.

The February Siren Test will be on the 3rd at noon. The March Siren Test will be on March 3rd at noon. January showed why we test. Hopefully the troubles will be fixed before the next test. Please let Edith, KA5YPX know you can watch a siren when she asks, so she won't be short of watchers. Help her out by calling her at 348-2961 early to get a spot to listen from.

Friday Lunch is not an official club function, but you can enjoy good food and company each Friday at the Delta Café on 33rd in Edmond at noon. Contact KM5GZ or AC5TE for more information.

Breakfast still happens each Saturday at Perkins on Broadway around 8:15 on each

Saturday morning. Maybe as late as 8:45. Good company and good food. The crowd keeps growing a little at a time. Be sure to ask A.C. about his OSU chair. Come find out about what is going on.

The club station is open on Thursday nights for general use. Check the repeater in case of really bad weather. Come by and have some fun learning how to operate the club equipment. New and Old operators are welcome to come and enjoy the facility.

Speaking of the repeater, see the section this month on the Monday Night Net. You can check in every Monday night at 8:00 PM on the 147.135 (positive Tx offset) repeater. New control operators are always needed. Bob Coxsey, KM5GZ is the net manager. He will give the new net control operators very good training before the net. Give him a ring if you'd like to give it a whirl.

The next Board Meeting will be at the Edmond Community Center at 7:30 PM on February the 13th. We're in a different room from the Club station so there is plenty of room. Come and help out this year.

The February Club Meeting will be a dinner meeting. It will be at the Blue Moon Restaurant in Edmond. It is located North of 15th. St. on the East side of Broadway. It will be Feb. 17th at 6:00 P.M.

Johnny, KM5GM is going to have another CW5 net. This is an interactive on-air code net designed to bring you from no code knowledge, to a speed of 5 wpm to pass the exam.

It will begin on Wednesday, Feb. 14th and will run for one month, 6 nights a week. The net will be held on the 147.135 repeater from 7:00 -7:30 PM. If you know of anyone who is interested in learning the code, now is their chance. The regular nightly practice and the accountability of the net has led many people to pass the 5 wpm code exam.

If interested, call Johnny at 239-2779 or contact him by email at km5gm@arrl.net.

The club will be active again next year in assisting the City of Edmond in opening

community storm shelters. To do this we are going to need more volunteer shelter monitors to step up to the plate and give us a hand. There isn't too much involved, and it puts you in the safest place to be in case a storm heads this way. If you are interested, talk to the club Emergency Coordinator, Ken Stepp, N5DBM and let him know about your interest.

Health And Welfare:

Hi everyone-

We wish to offer our heartfelt sympathy to Geri Shrum and her family in the loss of a beloved husband and father, Dwight Shrum, KC5YKH, who passed away in Oklahoma City, Ok on the 1st of January, 2001. Dwight will be missed by all of us in the EARS family. He will be remembered as a kind, helpful gentleman with a concern for people.

We also extend our deepest sympathy to Garland Holmes, KC5SMM, wife Vi and family in the loss of Garland's sister, Lenora Bradshaw, who passed away January 11th, 2001 in Miami, Fl.

May both of these families be comforted by the thought that others care and share in their sorrow during this difficult time.

Marion Dollmeyer, wife of Clarence, KB5RR, was transferred from Mercy Health Center to the Integrated Specialty Hospital of Edmond on Dec.30th, 2000. She is still undergoing chemotherapy and physical therapy and the latest CAT scan indicated she is making some progress.

We want all of you to know you are in our daily prayers.

73 de Clara Grainger KG5UG

Operating Note

Remember your ID's! It sound good right now on the repeater, so keep being sure to properly identify at proper intervals.

de Curtis KC5GEP
C&E Editor

That's it for this month. Please send information for next month's C&E to Curtis Foote at cfoote@theshop.net so I won't have to take up so much space.

Ham Radio Manhunt: The hunt for the murderers of KC5USI ends in Colorado

Six of the seven members of the Connally 7 gang of prison escapees who are believed to have killed police officer Aubery Hawkins, KC5USI, are back in custody. The 7th is dead by his own hand.

This is the end of the drama that began about two months ago when the seven broke out of a maximum security prison near San Antonio, Texas on December 13th. Thanks to a tip generated by the Fox television program Americas Most Wanted, five of the fugitives were spotted not far from Colorado Springs on Monday, January 22nd. Four were arrested peacefully at a convenience store and at a motor home in nearby Woodland Park, while a fifth killed himself in the motor home as authorities closed in. The last two surrendered peacefully a few days later at a hotel after several hours of negotiations with police and after making statements by telephone on a local television station.

Aubery Hawkins, KC5USI served with the Irving Texas Police Department. He was murdered on Christmas Eve while responding a robbery in progress call. The Fort Worth Star-Telegram reported that at least two of the robbers ambushed Hawkins, shot him multiple times, then ran him over with a sports utility vehicle stolen from a store employee.

A later robbery of a Radio Shack store netted the gang several two meter radios prompting authorities to ask hams in several states to keep an ear open for strange conversations. In the end it was a different kind of radio frequency energy that ended the flight of the Connally 7. The voice of television show host John Walsh asking viewers to find the Connally 7 gang who allegedly murdered Aubery Hawkins and bring their flight from justice to an end.

The six remaining members of the Connally 7 gang will face capital murder charges in Hawkins death.

From New Orleans, I'm Don Wilbanks, KC5MFA, reporting for Newsline.
(ARNewsline from published news reports)

Enid Amateur Radio Club

Minutes – Thursday, January 25th, 2001

President: Dean Feken, KL7MA

Vice President: Sam Cotter, KD5EUS

Treasurer: Dwayne Posey, KC5QVS

Secretary: Tim McAnally, KD5KTB

Notes From the Secretary: Tim, KD5KTB

Hello everyone, another month has gone by and the weather has been a big part of it. I got backwards on the road once myself when we had the ice and its no fun. I want to thank everyone who attended our meeting this month. We had a very good turnout. I would like to encourage participation in the ARES group that is forming in Enid. They have a net each Monday at 7:00pm just prior to our regular club net at 8:00pm. Please contact Darren, KM5BQ for ARES information. The nets on Monday night use 444.4 and 145.29.

Minutes of Meeting:

President Dean, KL7MA called the meeting to order at 7:03 p.m. Thursday, January 25th at the American Red Cross building on 400 N Grand, Enid, OK. There were 24 present for this meeting.

Gene, N5SPY made a motion to approve the minutes from the December meeting as published in the C&E and Eldon, KC5RRS 2nd the motion and the minutes were approved by the members.

Special Announcements: John, KA7GLA reported that the Red Cross requires that you complete a card to be able to participate in communications for the Red Cross. Cards were passed out and completed by the members present.

Treasurer Report: Treasurer Dwayne, KC5QVS presented his report.

Currently there are 36 paid up members. Dues are \$20.00 and need to be paid now.

Al, KD5BA made a motion to approve the Treasurer report and Eldon 2nd the motion and the members approved the report.

Training Report: Dean reported that there are currently no classes underway. An exam session will be held at the ONG gas

building (across from Atwoods) Saturday, January 27th at 10:00am. Fred, WA5OU should be contacted for any exam sessions. Anyone interested in new license or upgrade classes need to contact Dean. Discussion indicated that there were several who would be interested in the Technician class. Dean will make arrangements for a new class.

Repeater Status Report: John reported that both the Johnson's and North Tower antennas are bad. A new harness is needed on the North tower and the Johnson's antenna is not able to be tuned properly for the frequency. Solutions were discussed. Prices for new antennas were discussed. Procedures for replacing the North tower antenna were discussed. Also discussed getting the 444.6 system put back together.

Other Old Business: Dean reported on the IRS Section 501 Certification for Tax Exempt Status. A CPA has been contacted and an appointment was made for Tuesday 1/23 but was rescheduled by the CPA to Tuesday 1/30. Dwayne and Dick have provided additional information needed and Dean will report after the meeting with the CPA.

Curtis, KD5GQV provided an update on the web site development and provided a demonstration after the meeting. Everyone is invited to provide input on what they want to see on the EARC web site. A host site provider is be researched.

Al indicated the TriState Parade is scheduled for May 5th beginning at 9:30am. Al will provide Tim with other event dates for the year so they can be published.

New Business: Dean proposed the formation of a repeater-working group to the members. The group would be responsible for maintenance and installation of repeaters. Members would include the Club Trustee Dick, NJ5S, John who would help with any issues and the Technician team would include Darren, KM5BQ and Greg, KD5MFY. Dean would provide technical focus and act as a resource for problems solving. Al made motion to create the group with the Trustee having the final authority on any repeater decisions. Ralph, N0NOU 2nd the

motion and the members approved it. John indicated the new group needs to meet at Dick's place to discuss the group's plans. Safety when working on the repeater equipment was also discussed.

A calendar of events will be created for the entire year and published. A new tri-fold flyer will created to present to the club at the next meeting by Tim. Al will coordinate with Tim on the event calendar. The new web page will also need to contain the event calendar.

The annual Presidents Chili supper was discussed. Sam, KD5EUS will coordinate the supper activities. The supper is scheduled for February 22nd at 6:30pm. It will probably be at the Hoover building but confirmation of this will be given on the Monday night net. Bring your family and your Chili or desert. Contact Sam for details.

Guests were recognized: Otho, N5UFD the new Enid EOC Director and we welcomed back Ron, WD5HUT.

Otho presented a short video on the EOC. An exercise will take place in a few months to help the different EOC teams to work together. The Enid EOC is located in the basement of the Enid City Hall.

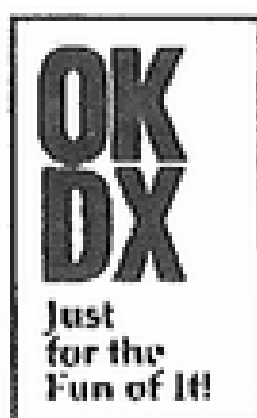
Dean asked members if they were interested in various programs to be presented at the monthly meetings and there was an interest. Sam will coordinate some presentations beginning with the March meeting. John suggested RF Safety could be presented by Steve from Kiowa. Sam will try to set up the presentation topics and schedule.

John mentioned that Bob Killem has invited the club to meet at the Leonardo center to view the telescope facility that the Astronomy club has.

Al-made a motion to adjourn. Dennis-KB0GBD seconded the motion. Dean-KL7MA adjourned the meeting at 8:20pm

Respectively submitted by Tim McAnally-KD5KTB EARC Secretary

The Board of Directors held a meeting and The ARES group held a short meeting after the EARC meeting.



OKlahoma DX Association

February, 2001

From Da' Prez

By LARRY SHIMA, WØPAN

OKDXA MEETING @ 11 AM SATURDAY, FEBRUARY 17th TULSA CIVIC CENTER

The Green Country HamFest will come earlier this year and return to a location we remember from previous years. The "semi-annual" OKDXA meeting will be just after the ARRL Forum hosted by Coy Day, N5OK and Charlie Calhoun, K5TTT on Saturday morning. Please be sure to check the HamFest schedule for the exact room location. Everyone is invited to attend the OKDXA meeting at 11 AM Saturday. The Green Country HamFest will be open Friday night, February 16th, from 5 PM to 9 PM and Saturday 8 AM to 5 PM downtown at the Tulsa Civic Center, 7th and Houston. Follow the signs from any major highway and keep your mobile rig on the 145.110 or 443.850 repeaters for the talk-in. Both machines use an 88.5 Hz PL tone and tickets at the door are \$10.00 each. More HamFest details can be found at www.greencountryhamfest.org.

There is no formal agenda planned for the meeting; however, I will be looking for ideas on programs, events, functions, etc. that you would like to see the OKDXA participate in. We will also discuss the use of your annual dues in support of various DX'peditions, videos of DX'peditions, etc. Remember, it's your club. Don't be bashful about your feedback to the officers and directors.

Our two very efficient QSL CHECKERS, Ross Hunt, K5RH and Clif Sikes, N5UW are expected to be in attendance at the HamFest performing their top notch QSL checking duties. If you're ready for a DXCC Award, be sure to bring your cards.

And don't forget about our Monday Net that meets on 3860 kHz at 6:30 PM local time. This is a good way to find out what is going on in DX circles and what our members are doing. NCS is usually Coy Day, N5OK who runs a very efficient net!

As we approach the serious contest season (for us "serious" DX chasers) be sure to remember that courtesy is a trademark of an A-1 OPERATOR. Skill at pulling the new one out of the pile-up will prevail over calling out of turn, calling on the wrong frequency (the DX station may be operating split), and dumping in your call when the station is going by call areas. Sometimes it gets confusing for those of us out of the area being called, so it is doubly important to keep courtesy at the top of your list. If you aren't a die-hard contest operator, not to worry, an easy going approach will also get the new ones.

REMEMBER, THE NAME OF THE DX GAME REALLY IS FUN!

That's the latest from this end. Do your part and attend our FEBRUARY 17th MEETING IN TULSA! 73, and great DX this year. — WØPAN

Secretary / Treasurer Report

By JERRY CHOUINARD, K5YAA

From Da' Editor

By NELSON DERKS, AC5UP

I'm going to take a small departure from the usual radio talk this month. I haven't been spending much time on the air lately, but did take a few moments around zero hour zulu January 21st to work DS3BGI in South Korea on 28.485 MHz, barefoot. (it's a pleasure to make the Q before the pileup gets rolling!) What I have been up to is a little computer upgrading. In case you haven't noticed, computer prices have dropped this year and even 'the good stuff' is getting very reasonable. I'm not going to get into price and item, because you know someone is going to have a bigger & better deal by the time you read this, but I'd rather focus on the technology available at the consumer level. For starters, I picked up a new bare-bones Compaq workstation that was likely intended for the upper-end CAD market with a 600 MHz Pentium III CPU and 711 MHz RDRAM memory.

One of the bottlenecks that have plagued computers since 'Day One' is that almost everything runs at different speeds. 1 GHz processors look good in the ad sheets, but when conventional SDRAM memory can't change states faster than 133 MHz it takes a toll on the system efficiency. The newer RDRAM memory can sustain higher clock rates and increases I/O efficiency to near 95% with near-zero latency (the pause

needed while a data bit flips states) and is triggered twice per clock tick. Once on the leading edge and again on the trailing edge. The machine is almost fluid in how well it runs and is in the sweet spot on the curve of diminishing returns. For those of you new to the concept, almost everything has a cost to performance curve that eventually makes it very expensive to gain any noticeable improvement. A good example of this can be found in HF linear amplifiers. 400-500 watt amps are far less expensive than the legal limit models, but the first 400 watts has much more effect at the receiving end than the last 400 watts.

The real eye-opener came when I looked at hard drives. A computer is only as fast as the slowest component at any given moment and a Windows machine tends to spend a good portion of its time reading or writing to the disk. I picked a 45 gig drive from the IBM 75GXP series based on the reliability of previous models. Little did I suspect how fast they've become or how far the technology has advanced in the past year. State-of-the-art is now at 15 billion bytes per 3.5" platter and the largest model in the series stacks five platters inside an inch of height for 75 gigs total. That's a recording density averaging 11 billion bits per square inch of surface. As you can imagine, the tracks must be very narrow. Like, 28,350 tracks per inch. Consider the precision of the magnetic heads needed to write that 'small' and the particle sizes in the magnetic coating necessary to maintain that level. Plus, the positioning mechanism must reliably hit near-perfect alignment every time you try to read what's been written. You'll also need a servomotor on the spindle that doesn't drift in speed and compensation for thermal expansion or you'll never find those sectors again. The error rate is listed as one bad bit in ten to the thirteenth power. Is that good enough?

The platters spin at a steady 7,200 RPM. With a circumference of approximately twelve inches at the outer edge, that translates to 7,200 feet per minute. There are 5,280 feet in a mile. A little calculator tango tells me that's a linear speed near 81.82 miles per hour. Remember, the data density is eleven billion bits per square inch. Let's imagine you're driving on a beach at 82 miles per hour. Can you see all those grains of sand going by? Now, try counting them. Accurately.

Just to finish the thought, the internal data transfer rate is 444 million bits per second (sounds like UHF to me...) and the rate on the I/O cable is a maximum of 100 million bytes per second. The mechanism is rated at 40,000 spin-up cycles, which, at ten per day, would be almost eleven years. Power consumption at idle is 6.7 watts and the street price is below \$200.00... Less than a typical Ham antenna rotor that isn't in the same ballpark in terms of sophistication.

What does any of this have to do with Amateur Radio? Not a damn thing, until you realize how far digital electronics has advanced. The same technology that builds computer goodies so cheap and amazing can do the same for our radio goodies. It already has. Have you noticed how small the new cell phones are? Maybe we don't think about it too often, but while you're exercising the gray matter over what's possible today (ever thought about a full length movie on a single DVD platter?) consider this: Everybody gets upset when their computer rolls over and pukes. But, consider how profoundly tight the mechanical and frequency tolerances are on a modern hard drive or motherboard. Then ask yourself how amazing it is that they work as well as they do. Gotcha' thinking, eh...? (and you're probably thinking it's time to do a backup, right?). Good for you, that's what I was hoping for. This is a remarkable time to be a geek. As they say at the IT advertising agencies: "You ain't seen nothin' yet!"

And, don't forget Green Country Hamfest. February 16th and 17th. Tons of toys for radioactive boys, and maybe some nasty old hard drives you can afford to tear apart out of curiosity. Be there for the OKDXA meeting, or be rectangular. — AC5UP

Editors Note:

The following article is presented with minimal editing based on the theory that a DX contact wouldn't feel like a DX contact without the QRM and QRN.

FR/F6KDF/T TROMELIN 2000 DX'PEDITION BY THE LYON DX GANG AND F6KDF

By Gil Gautier (F5NOD) et
Erwann Merrien (F6JJX)

Translation by: Erwann Merrien F6JJX

After the success of our first DX'pedition to Amsterdam Island (FT5ZH) in December of 1998, the Lyon DX Gang

and the Gendarmerie de Bron Radio Club (F6KDF) went back on the road to set up a new DX'pedition from a most wanted DXCC entity belonging to France, Tromelin Island (FR/T).

	Number of QSO's	%
EU	31,371	61.45 %
NA	11,374	22.30 %
SA	763	1.49 %
AS	6,690	13.10 %
OC	453	0.89 %
AF	395	0.77 %

In spite of several Amateur Radio activities from this island in the past, they were sporadic and lead by meteorologists or French army officers on the air during their spare time and usually only for few days. As most of the French overseas territories in the Indian Ocean, the landing permissions and permissions to operate the Amateur bands are extremely hard to get, if not impossible. This restricted access policy explains why all tries to organize a real DX'pedition to these territories could not come to an end. Anyway, we received this great opportunity to land on Tromelin Island for the period of July 31 through August 2000 and are happy that so many of you made it into the log (51,046 QSO's) in CW, SSB or RTTY.

	Number of Stations	%
EU	9,645	55.8 %
NA	4,489	26.0 %
SA	356	2.0 %
AS	2,379	13.8 %
OC	247	1.4 %
AF	154	0.9 %

Tromelin Island is one of the most isolated islands in the Indian Ocean and belongs to the îles éparées archipelago. The seas surrounding this small island can reach 4000 meters deep. Geographic coordinates are 15 degrees, 53 minutes latitude south, 54 degrees, 31 minutes longitude east. This is well off the oriental malagasy coast and north of the Mascareign archipelago, about 535 km from Saint-Denis de la Réunion and 450 km east from Antalaha (Madagascar). The island is 1 km² and has an airstrip built in 1954, but its capacity remains very limited. It is interesting to notice that Tromelin has no relief and the sea can be seen from any part of the island. This may explain why the island is

particularly difficult to find at sea and only recently is denoted on the maps. As told to us by Patrick, our aircraft pilot from Réunion to Tromelin, it is almost impossible to find the island without a GPS system. In the past, some pilots had to go back to Réunion Island because they failed to find this piece of sand with a high point only seven meters above sea level.

There is no real vegetation on the island and that has prevented any fauna from settling on the island. The only animals that visit are turtles and seabirds. The Eparses islands are under the sovereignty of France and authority of the French Minister of Overseas Departments and Territories. The weather stations are active members of the Internat'l Meteorological Organization and the station officer is the legal representative of the delegate over the island. By an agreement from the 18th of November 1975, these islands are total natural reserves. A landing permission and a permission of stay are required.

The DX'pedition on Tromelin Island took place between July 31st and August 16th 2000 and four Lyon DX Gang as well as F6KDF members comprised the team. Two of them operated CW: F5NOD Gil Gautier and F6JJX Erwann Merrien. The two others, F5PXT Eric Blanchard and F5PYI Laurent Borde, operated SSB. RTTY activity was planned and operated mostly by F5PYI. The means were as high as the demand for FR/T QSO's on all bands and modes. In fact, three stations were QRV simultaneously from 160m to 6m depending on propagation openings.

The antenna farm was the following:

- 1 beam 3 elements for 10m
- 3 beams 3 elements for 20,15,10m
- 1 beam 2x3 elements for 12 and 17m
- 2 verticals TITANEX (V80 and V160)
- 1 beam 5 elements for 6m
- 1 dipole for 30m
- 1 RX antenna, 100m wire.

We gave special attention to the all time new one bands and the FR/T most wanted survey on our site showed that obviously CW was the most wanted mode on every band. We established a planning to be sure to maximize propagation openings but the chaotic propagation once there and the high solar flares complicated the plans. We remember Gil and I being stuck on CW without the possibility of extracting call signs because of the too distorted

sound. We were only four operators and did our best to satisfy most of you on all bands and mode.

powered generator and the diesel engine generator.

On the radio side the things are better, we

Band / Mode	CW	SSB	RTTY	Band Summary
6m	2	64		66
10m	3,472	6,863	145	10,480
12m	2,956	5,004		7,960
15m	2,797	5,129		7,926
17m	2,113	3,544		5,657
20m	3,485	7,907	434	11,826
30m	1,162	0		1,162
40m	1,328	2,436		3,764
80m	655	1,374		2,029
160m	176	0		176
Mode Summary	18,146	32,321	579	51,046

At 2100 local Tromelin time on 20 meters: «F5SIH de FR/F6KDF/T... are you there Eric?» «FR/F6KDF/T de F5SIH... solid copy, you are 59 !!! Good luck!»

After some comments on our arrival and first sensations, we were ready for 16 days non-stop. The first evening three stations were on the air: 40m, 20m and 15m CW and SSB. The second day we set up the Titanex V160 (26.5m high...What a vertical!). This operation was difficult for only four guys because of the blowing winds and the small shrubs gripping the ropes, but we won anyway and the second try has been the good one.

80% of the time three stations were on the air, otherwise only two stations while we were eating or fixing the antennas... Three stations around the clock left us only four hours to sleep by 24 hours. We did not land on the island as tourists and knew the difficulties before leaving Lyon, France. We wanted to give as much as possible FR/T to DX'ers around the world. The third day we learned a meteorology assistant is very ill and must stay in bed, he must be repatriated to Reunion Island. But a heavy storm chose that time to blow over Tromelin and no airplane could reach us quickly. We worried about the meteorology assistant that seemed to suffer a lot. It reminds us to be very careful on such remote islands and we hope that the French military Transall will come as soon as possible. The next day the Transall landed on Tromelin with on board an emergency doctor and our friend is sent back safely to Reunion Island. This day the one wind powered generator stopped working properly. We now have one wind

are working between 3,500 and 4,000 stations in a day and have to manage strictly the pile-up. Indeed at 300° we have both Europe and North America, and the discipline (well you know the story already, always the same). The European continent could be

worked 24 hours but the openings with the North American continent are short, hard to make that understood to European stations that hear us most of the time 59+. We had to ask so many times QRX that it happens that we simply QRT, a very effective method.

The first days we were already QRV on 160m with our vertical antenna and RX 100m (we wanted more length but the shore was already there) wire. The month of August was not the best period for that band, but we made around 167 QSO's anyway. The signals were very weak and a QSO could take us more than 10 minutes, after 24 hours without sleeping that was tricky but making a QSO on that famous band was always a gift for the lucky ones and we knew it. Nice feeling!

« CQ CQ 6m de FR/F6KDF/T listening on this frequency and 50.210 for French stations » Every day the same calling in nothing but QRM. We managed to make 66 QSO's on 6 Meters. Our IC-706 refused to give us more than 3 Watts. So we had to use one of our two FT-920, not easy to schedule when running only three stations and heavy pile-up all the time. Some 6m addicted guys complained that we were only few hours on 6m but we preferred to give as many as possible new ones on CW and SSB on more exploitable bands. Our choice. We were only four operators!!!

After one week on the island we learn that a Transall from the French army is coming to visit us with the new meteo France crew and some fresh food (the smiles are on every face). We have to pull down one

Titanex too close to the landing strip and keep ready to switch off the radios because the technicians will try to repair the Wind powered generator and one of the diesel generator. Finally this one cannot be repaired and is loaded on the Transall. Jacques, the station officer, is leaving the island and Henri is taking his place. Roland our new cooker, a Chef we should say, is also joining us.

This day was a lazy day, no radio possible because of the technicians, so we visited the island for the first time. We wanted to go in the water but the sharks and the high surf prevented us from making such a mistake. Anyway, we walk on the beach and watch the sea birds and this few hours of calm and no QRM are welcome. After a week without sleeping much we are tired.

Our daily pleasure is to watch the turtles coming on the beach to lay eggs, we even saw little turtles. What a souvenir. On the island the others inhabitants were the hermit crabs, millions of them all over the island as soon as the sun fades out. The last two days we saw whales close to the sea shore, we could see them jumping over the water while making pile-ups.

In the middle of the second week we saw flames in our power supplies. No more electricity on Tromelin. In emergency we join the meteo France crew and all together begin to search for the problems. After a visit to the generator room we can see on the tension indicator 300V instead of 230V. We have 2 power supplies out of three burned and the PK232 (RTTY modem) down. We quickly find the guilty equipment, the last wind-powered generator is no more working properly and give us more than the usual power. We contact meteo France on Reunion Island and order is received to stop the last wind powered generator. At this moment we fear a lot for the DX'pedition because we need a lot of power and we also have to keep our security. We only have one old diesel generator now and the week is not finished. We have a meeting with the whole persons on the island and have to take a decision about what to do now. We finally decide all together to stop the generator from 0500 to 0800 local time to reload the diesel and let the generator quiet. Jean Michel, the meteo France assistant, is taking care of the generator and we find a car battery with its charger to give us the needed 13.8V (precarious

but effective). As if it was not sufficient, F5PYI, Larry feels bad after what we think to be sunstroke while working on the antennas. It is may be also the tiredness and the stress. Larry is in his sleeping bag but it seems that he will be able to wait for our departure that is in the next hours.

In the evening of August the 15th we have to admit that FR/F6KDF/T needs to QRT, the aircraft is coming to take us the 17th. We put down all our antennas except one beam to send news to the French metropole. We spend the next day packing the equipment and loading (in the evening) the aircraft that just landed on Tromelin.

The last evening is spent with all the crew and the F6KDF team around the table, the first time in 16 days. We are happy of the QSO's made and the sensations but also sad to leave our new friends from meteo France on this remote island.

August 17th in the morning, F5PYI who needs to see a doctor and F5PXT are the first to board the aircraft and leave Tromelin. F5NOD and F6JJX are the last to leave the island in the afternoon. This is the end of an incredible adventure in the Indian Ocean. We will keep in mind forever the time spent together, the good and bad moments as well as the hundreds of « thank you for the new one ».

FR/F6KDF/T Tromelin 2000 went QRT after 51,046 QSO's by four operators in 15 days for an average of 800 QSO's per operator per day. DX'pedition Team: F5PXT Eric, F5PYI Laurent, F6JJX Erwann, F5NOD Gil. Dedicated to our friends: F1JD Dominique (Frère de F5PYI) et F8PX Paul, silent keys in September 2000. In memoriam 9A4SP (UNHCR) and KD4SYB (UNHCR), both killed in West Timor.

Financial Support:

Lyon DX Gang Association, Northern California DX Foundation, ARRL, Clipperton DX Club, Indexa, EUDXF, Danish DX Group, GMDX, Chiltern RSGB, GDXF, URE, EADX, Daily DX, NOHIO DXA, Alamo DX Amigos, National Capitol DX Association, Oklahoma DX Association, Western Washington DX Club, Eurovia, REF 69, VK5WO.

Amateur Radio Equipment Support:

DX Systems Radio (3el tri-band antenna), Titanex (v160 / v80), Dunestar (filters) OCDXG (12 / 17m antenna), Batima

(amplifier), ZX Yagi Antenna, Frequence Centre Lyon (IC-706), F6GSM (FT-990 + TS-50).

Many Thanks To:

METEO France, Reunion Island. Mme. Mathias, First Secretary of the French oversea territories state department. Mr. Daubigny, Administrator over the iles Eparses. AOP Flight company (Mr André. Lawwai) Patrick Marchat (the aircraft Pilot) Jacques Senechal, Henri Boizan, J. Michel Dalleau, Roland Riviere, Jean Philippe. (the meteo France crew on Tromelin island) and FR5GQ, Conchita.

Visit us on the web at:

<http://perso.easynet.fr/~f6jjx/menu.html>

OPDX Bulletin - Internet Edition

The Ohio/Penn DX PacketCluster

Editor Tedd Mirgliotta, KB8NW

Provided by BARF-80 BBS Cleveland, OH

3B8, MAURITIUS

There has been a lot of activity from this one over the last few months. Abid, 3B8FG; Jacky, 3B8CF; Rashid, 3B8FQ and Pat, 3B8GF have been heard on 20 Meters, generally after 0200z. Pat usually can be found on SSB while the others are on CW. There has been some 10 Meter CW & SSB QSN's by 3B8CF and 3B8FG after 1200z.

3D, CONWAY REEF (Update)

According to Raymundo, YS1RR planning for the Conway Reef DX'pedition is on the fast track for February 19-28th. Their call will be announced on February 18th. The suggested modes and frequencies are: CW - 1825, 3505, 7003, 10104, 14020, 18020, 21020, 24896, 28020, 50105 SSB - 1835, 3795, 7075, 14195, 18145, 21295, 24945, 28495, 50125 Digital - 1835, 3575, 7035, 14075, 21075, 28075

SSTV - 3723, 7035, 14230, 21340, 28680

NOTE: Receiving frequencies will be 5 to 30 kHz above transmitting frequencies. Additional information will be available during operation time. QSL via YT1AD: Hrane Milosevic, 36206 Vitanovac, Yugoslavia. Raymundo reports that as in all DX'peditions, they are short of funds and your donation can help make the operation a success. Any donations can be sent to YS1RR: Raymundo Rodriguez, P.O. Box 32, San Salvador, El Salvador or to VIPSAL 682, P.O. Box 02-5364, Miami, FL 33102-5364, USA. Visit them at: <http://www.kragujevac.co.yu/3d2>

From a Conway Reef update press release, the operators will call as 3D2AD, 3D2AU and (possibly) other call signs between March 1-6th after the Conway operation.

Hrane, YT1AD reports the 2001 Conway Reef DX'pedition will start a day earlier than planned. The team will go via Hong Kong instead of Kuala Lumpur and start the DX'pedition on February 18th at 08:00 local time. (February 17 at 2100z)

3E500, PANAMA (Special Prefix)

Cam, HP1AC reports the "Radio Club de Panama" has obtained a special permit from the Panama Government Radio Dept. Office allowing any Panamanian amateur radio operator to use the special prefix 3E500 during March. This prefix is to commemorate the 500th anniversary of the Discovery of the "Isthmus of Panama" in March 1501 by Don Rodrigo de Bastidas. Cam's call (HP1AC) will be 3E500AC and a special QSL will confirm all QSO's from March. His QSL Manager will be HP1RCP, Radio Club de Panama, P.O.Box 10745, Panama 4, PANAMA.

3G0, EASTER ISLAND

Norbert, DL9NEI reports a joint Chilean and German DX'pedition will activate Easter Island between March 4-19th. Operation as 3G0Y will be on all HF bands (mostly CW & RTTY) and on the lower and WARC bands. Look for the latest info at <http://www.qsl.net/3g0y>. QSL via DK7YY.

3Y, BOUVET

Chuck, 3Y0C can be heard on 40 Meters SSB for about an hour on 7052 and 7062 kHz between 0400 and 0515z. He is also active on 20 and 12 Meters SSB, usually on weekends. His activity may seem short, but this is due to a demanding work schedule. On most days he can squeeze 10 minutes in at a time during his breaks to get on the radio. Please be patient with Chuck, as he understands the high demand for Bouvet and he is a one man operation. QSL Manager Mac, WA4FFW reports that he spoke with 3Y0C on 01/06/01. Chuck has been off the air for a few days because a storm blew down the antennas again. Time and weather allowed him to get the beam up 25 feet today. He has the vertical repaired, but because of a storm closing in, he will not put it up until after the storm clears. They have developed an oil leak in the generator, and attempted repairs have

not been successful. They can use it but only for 2 hours a day which is sufficient to charge the batteries. He is unable to use the linear without the use of the generator. Chuck will be on as many bands as possible and explains that one of the reasons for such short runs sometimes is that he is trying to work a few stations between other duties to provide as many contacts as possible. However, he is on an official scientific expedition, with specific duties, not a DX'pedition. He is trying to give the world as many contacts as the situation will allow. Mac, WA4FFW also announced the QSL address for 3Y0C QSL cards is: Mark McIntyre, WA4FFW 2903 Maple Ave., Burlington, NC. 27215 USA. Mac advises that some cards have already arrived. He asked earlier that they not be sent until "this announcement". None have been opened, but he hopes they have sufficient postage based on the new postal rates. If not, they will be returned via the bureau. The cost to mail a QSL to a foreign country increased on January 8, 2001. Mac will not have logs until Chuck returns in March, so no QSL's will go out until he arrives stateside.

4U, ITU HEADQUARTERS

Plenty of activity from this one lately. There were operations on 80, 30, 20, 17, 15, 12 and 10 Meter CW/SSB. Keep an eye on the clusters for spots. QSL via CBA or the bureau.

4W, EAST TIMOR

4W1CW and 4W1UN are active. 4W1CW was heard on 24907 kHz and 4W1UN on 10106 kHz, both between 0200-0230z.

7Q, MALAWI

Listen for Harry, G0JMU to be active as 7Q7HB during the month of February. His activity is planned for SSTV, PSK31 and operation on the WARC bands.

8Q, MALDIVES

Mike, OE3MZC and his wife Barbara, OE3YCB will be active as 8Q7MZ and 8Q7BZ (respectively) February 7 to 21st. They will be active from the Islands of Kuredu during the first week and Velavaru during the second week. Activity will be on all HF bands, mainly around the IOTA frequencies on SSB. There will also be 6m, SSTV and PSK31. Mike informs us this will be a holiday DX'pedition so please allow them some time to snorkel and travel from one island to another. For the latest info: <http://www.qsl.net/oe3mzc/>

9M6, EAST MALAYSIA (possibly V8)

From a press release: Don, K6IPV and Dave, W6AQ will operate the Hillview Gardens Resort Club station 9M6AAC between February 10-22nd. Their personal call signs will be 9M6IPT and 9M6AQT respectively. This time frame covers the ARRL DX CW Contest. The duo do not know if they will be blessed with a special contest call, but they will announce their call before the contest. Also, since they have missed out on Spratley (9M0) for this trip, they are hoping that they may be able to get over to Brunei (V8) for two or three days, possibly for contest operations from there instead of Hillview Gardens. The QSL route/s will be announced when available.

A5, BHUTAN

"QRZ DX" reports that another operation will take place by Dimitri, RA9CO as A52CO scheduled for March 15-21st. He has his visa and tickets. QSL via UA9DD.

The whole Johnson family, Glenn, A52GJ; wife Vivien, A52VJ; son Mark, A52MJ; son Paul, A52PJ and daughter Melissa, A52YL, were heard on 80, 40, 30 and 20 Meters (mostly CW, but with some SSB) on 20 Meters.

A52A VIDEO IS HERE!

James, 9V1YC reports that the A52A Bhutan video is now ready! If you've ever wondered what Bhutan is really like from the inside, or how it feels to be behind an opening day pileup at the #2 most-wanted, then you might be interested in this one. By request, Jim threw in lots more SSB pileups this time, but also included plenty of scenery, people, music, and background info on this absolutely beautiful country. For those that enjoyed the videos from FO0AAA and ZL9CI, this latest addition should be a treat (and you just might hear *your* QSO in there, too). The video is 60 minutes. Available on VHS (PAL or NTSC) all digitally filmed and edited to a master in Digital Betacam. For more info: <http://home.pacific.net.sg/~jamesb>

CE0, SAN AMBROSIO ISLAND

Marco, CE6TBN (Team Leader for the CE0ZT DX'pedition to San Ambrosio Island during the second week in February) reports the team will use the following suggested frequencies:

CW 1827.5, 3504/3524, 7004/7024, 10104, 14024, 18074, 21024, 24894, 28004 and 50105 kHz
SSB 3795, 7075, 14195, 18145, 21295,

24945, 28495 and 50120 kHz
RTTY 7030, 14080, 18055, 21080, 24920 and 28080 kHz
FM 29400 kHz

Their 50.105 MHz 6 Meter Beacon will repeat the ID every 30-45 seconds and the team will probably listen on the same frequency, using the squelch to cut the noise. When a signal breaks the squelch someone will get on the 6 Meter rig and start making Q's. The beacon will be at 50 watts so the rig doesn't get too hot. The following pilot stations have been chosen for the CE0ZT operation:

North America - Dr. Bill, K6GNX

bavery@telemetry.com.

Japan - Yosi, JA3AAW

ja3aaw@sannet.ne.jp

Europe - has not been chosen.

The web page is: <http://www.qsl.net/ce0xt>

EZ21, TURKMENISTAN

Listen for amateurs using the special Y2.001K prefix EZ21 commemorating the new Millennium. EZ21BO was spotted on 10112 kHz around 2100z and EZ21A around 14242 and 14266 kHz after 0230z.

J2, DJIBOUTI

"The 59(9) DX Report" advises that David, F5THR (ex-6W1AE, TL8CD) will be active as J28EX until January 2002 on 160-10 Meters. He is going to have a 4-element beam up for 6 meters. QSL via FB1BON: Patrick Brochet, P.O. Box 522, 85305 Challans CX, France.

JW, SVALBARD

Rag, LA5HE will be active as JW5HE in early February. Listen for him on the lower and WARC bands. QSL via CBA.

KH0, MARIANA ISLANDS

Listen for JQ1NGT and JI1EFP as KH0/JI1EFP and KH0/JQ1NGT from Saipan between February 16 and 19th. Activity will be on 160-6 Meters CW and SSB. The two operators plan to participate in the ARRL CW DX Contest either as a Single Op or Multi-Single entry. QSL via JQ1NGT: Kenji Sekine, 3-4-7 Honcyo, Fukiage, 369-0115 JAPAN.

KH9, WAKE ISLAND (also V7)

Listen for Bruce, AC4G to be active as AC4G/KH9 from February 9-27th on all bands with a signal on 6 Meters if he can get the antenna up in time. Reportedly, Bruce already has HF antennas on the island and will be using a Yaesu FT-847 for SSB and CW. He will be working on the island and will operate only during his

spare time. He has plans to participate in the ARRL CW DX Contest and the CQ WW SSB 160 Contest. QSL via AC4G: Bruce Smith, 1056 Old Railroad Bed Road, Taft, TN 38488.

MD, ISLE OF MAN

Operators DL4ALB, DL4LQM, DL4WG, DL5AXX, DL5LYM and DL8WAA will be active from the Isle of Man, February 12-19th. They will be a Multi-Two entry in the ARRL DX CW Contest. Before the contest they will be active on 160-10 Meters including the WARC bands, mainly on CW with some SSB and RTTY. Call signs will be MD/homecall. QSL's go to the operator's homecall. QSL's for the February 2000 operation of MD/DL3OI should be directed to DL5AXX (via e-mail request, bureau, or CBA).

OE75, AUSTRIA

Chris, OE8CIQ reports that from January 1st to December 31st (2001) all amateur radio stations in Austria are allowed to use the special prefix OE75 to celebrate the 75th anniversary of OEVSF (the Austrian amateur radio club). He (Chris) will be on air as often as possible using the callsign OE75CIQ. There will be several awards that will be issued by the OEVSF. Visit <http://www.edu.uni-klu.ac.at/~cirrasch>

OH0, ALAND ISLANDS

The Aland Islands contest station OH0Z will be active on both modes in the ARRL DX Contest as a single-op/all bands entry. Pasi, OH1MM, will operate the station on CW and Ari, OH1EH, on SSB. QSL via OH1EH: Ari Korhonen, Kreetalank. 9 A 1, FIN29200 Harjavalta, Finland. For more info on the OH0Z station, visit their web page at: <http://www.qsl.net/oh0z>.

PY0S, ST. PETER/ST. PAUL ROCKS

"QRZ DX" reports a group of Brazilian DX'ers from Recife have received permission to operate from here beginning February 7th until approximately February 15th. The dates may vary due to the long voyage. Operators will be Jim, PY7XC (team leader); Fred, PY7ZZ and Cicero, PY7ZY. The operators are providing their own transportation and there will be no limitations on their operating times. Activity will be on 160-10 Meters CW, SSB and possibly RTTY and 6 Meters. The call sign and QSL Manager will be announced later along with further details. The team is looking for donations from clubs and individuals. Contributions can

be sent to: Bill Smith, W9VA 1345 Linden Ave., Deerfield, IL 60015, USA. Bill is the acting coordinator for this operation on behalf of the Recife DX Group and can be contacted via E-mail at: w9va@aol.com If the operation is cancelled, all contributions will be returned.

R1, ANTARCTICA

Listen for Nick, UA3YH to be active as R1ANM from the Amundsen-Scott Base starting on/around January 15th through February 15th. Another operator will be Slava Vasilkov. Slava has worked as RX10X/FJL from Franz-Joseph Land and is a good CW operator. QSL via DL6YET.

TY, BENIN

Operators Flo, F5CWU; Thierry, F5MOO and Didier, F5AOV will be active from here August 9th-31st. Activity will be on 160-6 Meters CW, SSB and the digital modes. They are waiting for their licenses and any restrictions that may apply. They plan to leave France with Quad antennas for 20m to 10m, verticals for the lower bands, a Yagi for 6m and a 500 watt amplifier. Flo says they are interested in your needs from Benin and invite your comments on bands or modes via e-mail to: f5cwu@wanadoo.fr. Their Web site for the DXpedition (under the item TY-2001) is at: <http://perso.wanadoo.fr/f5cwu>

UA0, ASIATIC RUSSIA

Valery, UA0ZC in Kamchatka (Zone 19) can usually be found on 20 Meters CW around 2200-2400Z and 80 Meters CW around 0630- 0730z. QSL only direct to the following address, not to the one listed in the 2001 Flying Horse Call Book. The correct address is: Valery A. Makarov, P.O. Box 6, Petropavlovsk, Kamchatsky 683000 Russia.

XX9, MACAO

A petition has been filed for the possible removal of this DXCC entity. OPDX has learned that plans are on their way to prevent the Macao removal. Reports claim the national Amateur Radio Society on Macao is applying to Region III for IARU membership status. For this reason, DXCC will continue the grace period for Macao until a firm direction is established, either an ITU resolution of the prefix problem, or the likelihood of IARU membership. In theory, if DXCC removes Macao and then puts it back in the list, everyone would have to work it again. STAY TUNED!

YK, SYRIA

Excerpts from a press release by Bernie, W3UR editor of "The Daily DX" report the Cinco Nueve Contest Group (CNCG) and the Willamette Valley DX Club (WVDXC) are sponsoring a DX'pedition to Syria. "DX Syria 2001" is a non-profit organization formed for the promotion and organization of this expedition. The Syrian government and local Syrian Hams invited an American team of 8 operators for a February 2001 DX'pedition at the Syrian Telecommunication Establishment (STE) site in Damascus. The group hopes to be on the air starting February 3rd for 9 days. The group has been assigned YK9A and plans to be active on 6 through 160 Meters on CW, SSB and RTTY. Team members will include: Ron, WJ7R; Dick, N7RO; Bob, W4DR; Rosalie, N4CFL (YL); Carl, K9LA; Vicky, AE9YL (YL); Jim, W4PRO and team leader Al/K7AR. QSL cards will be handled by K9LA: Carl Luetzelschwab, 1227 Pion Road, Fort Wayne, IN 46845, USA. The DX Syria 2001 Web site at <http://www.qsl.net/k7ar> will include pre-trip and setup news, propagation, online logs updated daily and suggested operating frequencies.

ZD7/ZD8, ST. HELENA AND ASCENSION ISLAND

Glyn, GW0ANA and Chairman of the Barry Amateur Radio Society reports that on March 19th four members of the B.A.R.S. will be flying down to Ascension Island. They intend to operate on all bands and various modes (i.e. 160-6 Meters - CW, SSB, RTTY, PSK31, SSTV, MFSK, and Heilshriber). They will be active from Ascension for eight days then it's off to St. Helena where they will continue the operation with as many modes as possible. They will be on St. Helena for 15 days before returning to Ascension and then home. The call signs are still being finalized, so Glyn will announce them once they are confirmed. They also intend to be active on the Lower Frequencies (LF) bands as there is a need for LF QSO's from both of these islands. Doug, G0WMW has built a "Dragon Special", a 75 foot vertical, which should give them a great signal at 1000 feet ASL on both islands an amp driving it. The other antennas are a Force 12 beam, phased twin Butternut verticals, and a GAP Triton together with a beam for 6 Meters. Richard, GW4BVJ is at present designing a web page for the DX'pedition and once completed it will be released to the DX community. QSL manager for both islands

is Glyn, GWØANA. Glyn states, "The object of this DX'pedition is to commemorate the passing of 100 years of Morse Communication from these islands. As once in the southern latitudes they were the communication hub for our far flung 'British Empire' using nothing but 'Morse Code'. So in keeping with us honoring the operators of old we will be spending more time on CW and Data modes than normal for most DX'peditions." This DX'pedition welcomes any financial support from the DX community, and if you would care to make a contribution please send it to Glyn, GWØANA as listed in any call book. All contributions will be acknowledged.

IOTA NEWS

AS-117 JA2HMD/2, JA2JTN/2, 7N2JZT/2 and JQ1SUO/2 will be active from Hatushima Island between February 10th and 12th. Activity will be on 160-10 Meters, CW and SSB. QSL via their home call or CBA.

NA-213 Floyd, N5FG says the "Magnolia DX Association" has confirmed a trip to Dauphin Island, Alabama (New IOTA) for late February 2001. There will be at least two stations active using the special call **W4D**. Activity will be on the usual IOTA frequencies 80-10 Meters and on all modes including PSK31 and RTTY. Operation will last 3 days and 2 nights (start on a Friday afternoon and last until Sunday night - local times). QSL via W5UE or the W5 QSL Bureau.

GERMAN ISLAND AWARD

Ric, DL2VFR reports information about German IOTA's and the Most Wanted German Islands can be found in the weekly IOTA activity news on the web at: <http://www.iota-post.com/> The Most Wanted German Islands list is based on applications for the German Island Award (tnx DL2MX/DL5RFF) and was based on the checkpoints for DL, HB, OE, I, IT9, ISØ, T7, W4, W5 and, W6 (tnx DK1RV, I1JQJ, W9DC). The German Island Award links are available in the German, English, French, Italian and Danish languages.

MISCELLANEOUS NEWS

DAYTON HAMVENTION 2001

DX DINNER

The Southwest Ohio DX Association is pleased to announce the Sixteenth Annual DX Dinner will be held on Friday, May 18th, 2001 at the Crowne Plaza Hotel, Dayton, OH. There will be a cash bar at

6:30 PM and dinner at 7:15 PM. Tickets are \$32.00 (USD) and must be purchased in advance. Groups wishing to sit together must order as a group. A table seats eight. Please make your check or money order payable to SWODXA and send an SASE for ticket return. Seats will be assigned in the order requests are received. Seating will be assigned on 11th March 2001 and is limited. Please order tickets from: Steve Bolia, N8BJQ, 7354 Thackery Rd, Springfield OH 45502. For more info visit: <http://members.aol.com/SteveB4622/> Contact Steve Bolia, N8BJQ at (937) 788-2803 or E-mail to: n8bjq@erinet.com

DXCC NEWS

DXCC is pleased to announce the addition of a 17 Meter Single Band DXCC award. Applications will be accepted beginning January 2, 2001 and the 17 Meter DXCC certificates will be dated, but not numbered. 17 Meter credits will also count toward the DeSoto Cup competition for the year 2001. If you do not know what credits you have on 17 Meters, you may contact DXCC for an update prior to applying. This will help avoid duplicates and additional costs. If you have web access and can handle Adobe PDF files, e-mail dxcc@arrl.org for a copy of your records. If you do not have web access, please send a note to DXCC along with 1.50 USD for postage or an SASE with 1.50 USD in postage. For further info, please contact DXCC at: dxcc@arrl.org

Submittals for the ARRL DXCC Honor Roll are due March 31, 2001. For more information, contact ARRL DXCC Manager Bill Moore, NC1L via E-mail at: bmoore@arrl.org

CQ MAGAZINE INTRODUCES THE CQ MILLENNIUM AWARD

CQ magazine introduced a special award for the year 2001 to mark the start of the new millennium. "The CQ Millennium Award" recognizes anyone who meets the minimum requirements for any of CQ's four permanent operating awards, minus the QSL cards, during calendar year 2001. Hams and short wave listeners may qualify for "The CQ Millennium Award" in one of the following four ways during the calendar year 2001 (0000z, January 1, 2001 to 2359z, December 31, 2001):

- 1) Work stations in 500 U.S. counties. (the basic level for the USA-CA Award)
- 2) Work 100 countries. (the basic criterion for the CQ DX Award)

- 3) Work one station in each of the 40 CQ zones. (work'd all zones basic qualification)
- 4) Work either 400 prefixes mixed-mode or 300 prefixes single mode (CW or SSB only) as required for the CQ WPX Award.

Applications should include log extracts showing the information required by the standard award rules in the format required by the standard award rules, plus a 6 USD processing fee (12 USD outside the US).

ADDED NOTE: There will be special recognition for those who qualify on the basis of more than one of the award program's requirements. Full details are published on page 15 in the January 2001 issue of CQ magazine. For rules and forms go to the CQ website: <http://www.cq-amateur-radio.com/>

DX MAGAZINE'S

100 MOST WANTED!

Carl, N4AA Editor of QRZ DX, reports the results of "The DX Magazine's 100 Most Wanted Survey" for 2000 have been posted on the Web site under "DX News" at: <http://www.dxpub.com/>. A complete breakdown by continent and US time zone is included in the January/February issue of The DX Magazine. The top ten are:

- | | |
|-------------------|------------------------------|
| 1 - P5 | North Korea |
| 2 - VU4 | Andaman |
| 3 - BS7 | Scarborough Reef |
| 4 - 3Y/B | Bouvet |
| 5 - VU7 | Lakshadweep |
| 6 - KH5K | Kingman Reef |
| 7 - YA | Afghanistan |
| 8 - VP8/SS | South Sandwich Island |
| 9 - 3Y/P | Peter I Island |
| 10 - 7O | Yemen |

DX-CENTRAL (New Look!)

Kelly, **KE9KD** reports that after a long overdue redesign, he has finally managed to get the new DX-Central Website online. You will find some of the same features as the old site with improved functionality and you will find some new features as well. He still has several enhancements to put in place and it's just a matter of finding a little time. For those of you that have links, software or other things that used pieces of the DX-Central website, you will want to update your code. If you have not been to the site in a while, feel free to visit: <http://www.dx-central.com/>

DX HOLIDAY WEB SITE

The following Web site offers a starting point for people looking for a QTH for a

DX'pedition, Contest Expedition, or IOTA Expedition! The site lists Rent-A-QTH, Ham Friendly Villas, Radio Clubs, etc. There is information on places to operate from over 100 countries, with additional DX'pedition resource information like: Picking your DX destination, licensing, travel documentation and money matters, health, emergency, weather issues, announcing your DX'pedition, equipment packing tips and many other topics. Visit: <http://pages.prodigy.net/k2kw/qthlist/>

INTERNATIONAL LICENSING INFO

From Veikko Komppa "Veke" OH2MCN: World Wide Licensing Information is now available Free-of-Charge on the Internet. Five years ago when I started creating my Web pages dedicated to radio amateurs who want to find information about getting visitor's license in order to combine traveling and DX'ing together. In the beginning the work was mainly about getting information from as many DX countries as possible. In a relatively short time the number of countries was over one hundred (DXCC) and I considered this a major achievement.

Today, 230 countries are included and the pages are filled with all the necessary information and contacts needed when you apply for a visitor's license. There are application forms and travel information plus local hints like addresses, contacts, accommodation, tourist links and similar to help guide you to and on the DX spot. The standard structure of country sub pages is the following: address, telephone and fax number of PTT, paperwork needed, the best way to get a license, license fee, special call signs, how long does it take before you can operate, license restrictions, customs, useful local contacts, places to operate from, and notes.

Early in 1997 the ARRL became interested in my pages and they soon started their own service partly linked to mine. Since the beginning we have been collaborating together and the updating responsibilities of World Wide Licensing Web pages are shared between ARRL and myself. In the DXCC sense the number of entities is much bigger because many DXCC countries have one administrator. A good example of this is Australia, which covers nine separate DXCC entities and the same licensing system applies in principle to all of them (in principle because some of them need also landing permission!). In

the summer of 1999 the US started implementing the CEPT system and that made everything much easier for US hams in Europe and it also gave a possibility for European radio amateurs to visit the US Pacific Islands with the CEPT license. This explains the recent DX'peditions to KH* countries by Europeans!

My long-term plan is to get as many national leagues interested in putting up their own licensing pages on their Web server so that the updating work would be nationally handled. So far it has succeeded in many cases but it is very hard for those countries where the national society hardly exists or is having financial problems and limited access to the Internet. The second and most important wish that I have is that you send feedback after your DX trip to me. Every single piece of information is important in this respect. With this I hope the DX year 2001 to be better and higher in DX traveling activity than ever before! 73's Veke OH2MCN

Information on licensing abroad for radio amateurs by OH2MCN can be found at: <http://www.qsl.net/oh2mcn/license.htm>

The ARRL licensing Web pages are at: <http://www.arrl.org/field/regulations/io/recip-country.html> You can e-mail Veke at OH2MCN@sral.fi or OH2MCN@qsl.net, or Veikko.Komppa@vtt.fi

PIRATE STATIONS REPORTED

There have been several pirate stations operating in the past few weeks. Notable are P25BH, VP8SSI and YA/RW6AC. There have been reports of pirate operators using the call sign 3YØC on 50 MHz CW. Also, OPDX was duped in January by reporting that 4W1CW and 4W1UN were active. They too are pirates.

QSL INFO AND NEWS

Victor, UA2FM reports that due to new Russian Post Rules (Item "d", Paragraph 123): Mail will be returned if the NAME of addressee who is the subscriber of the P.O.Box is not shown, or if it is shown wrongly." These rules are in force starting 1 January 2001. Victor states, "So please put name first, not the call, if you write to any Russian Ham. For RW2F@RK2FWA or UA2FM, please put neither call, nor "UA2 Contest Club", nor "Petrovo Radio Club" but Victor Loginov, P.O.Box 73, Kaliningrad, 236000, Russia. In case you send us QSL direct, please keep in mind that our postmen love 'green stamps'. They

have little knowledge about what IRC's are, but can destroy your letter with IRC as well. So we earnestly recommend you to send RK2FWA@RW2F cards via DK4VW instead."

Hal, K4HB has put together a list of DX countries that require more than 1 US Dollar for return postage to the US and Europe. For those who send DX stamps, Hal also has a list of countries with a postage hike in January including Russia's dramatic increase in postage rates. Hal states that he doesn't get his information from individuals in the DX countries. Instead, he compiles the information from government and other reliable sites. He also uses input from "Bill Plum's Airmail and DX Supplies". Hal doesn't claim to be 100% accurate, and he states this on his Web page, but he believes the information on his Web page is as close as it gets. The URL address is: <http://www.k4hb.com/> Click on "Foreign Postage Rates" near the top. Hal's site is also linked from Rod's Super Site: <http://www.ac6v.com/irc.htm>

And now, for something completely different:
You can Major in Pile-Up Engineering!

DX'PEDITION UNIVERSITY

Kenny, K2KW and Tom, N6BT report that after 10 years of planning and 2 years of writing materials, DX University is now a reality. You now have a chance to go to Jamaica and "Learn the art and 'How To' of DX'pedition Planning and Running Pileups!" DX'pedition University ("DXU") is the first of its kind to provide a training ground for energetic radio amateurs wanting to learn the foundational methods and tactics of DX'peditioning. A group of 6-10 Hams will operate from a proven site in Jamaica (6Y). Participants become part of a team, just like the World Record 6Y2A Team. Learning begins before the trip with planning procedures and continues through the Jamaica stay. With expert hands-on training, team members will be shown the essential skills needed to feel confident about venturing out on their own DX-oriented vacations and in their ability to run and control pile-ups. There is not only personal instruction, but also hard copy manuals covering all aspects are also included. Besides setting up a complete multiple transmitter station and running DX pile-ups during the week, the team will participate in the ARRL SSB contest, with additional pointers provided in real-time. This is a learning environment, and

all questions will be answered and fully explained. The Jamaican accommodations are radio-oriented (not a luxury hotel) and include full time staff, transportation (private driver), plus side trips during the week. To learn more about DXU and how you can join the team in Jamaica, visit: <http://pages.prodigy.net/k2kw/dxu/>

ARRL CONTEST CALENDAR

*Reprinted with permission from
QST Contest Calendar — K5TR, Editor*

The detailed listings for March 2001 were not yet available on the ARRL web page. Please see your January C&E and the OKDXA Newsletter for the February list.

FEBRUARY / MARCH SUMMARY

(Courtesy Of Bruce Horn, WA7BNM)

February, 2001

Vermont QSO Party	0000Z, Feb 3	2400Z, Feb 4
New Hampshire QSO Party	0000Z, Feb 3	2400Z, Feb 4
10-10 Inter. Winter Contest, SSB	0001Z, Feb 3	2400Z, Feb 4
Minnesota QSO Party	1400Z, Feb 3	2400Z, Feb 3
YL-OM Contest, CW	1400Z, Feb 3	0200Z, Feb 5
Delaware QSO Party	1700Z, Feb 3	0500Z, Feb 4 and 1300Z, Feb 4
Mexico RTTY International Contest	1800Z, Feb 3	2400Z, Feb 4
North American Sprint, Phone	0000Z, Feb 4	0400Z, Feb 4
CQ/RJ WW RTTY WPX Contest	0000Z, Feb 10	2400Z, Feb 11
Asia-Pacific Sprint, CW	1100Z, Feb 10	1300Z, Feb 10
Dutch PACC Contest	1200Z, Feb 10	1200Z, Feb 11
YL-OM Contest, SSB	1400Z, Feb 10	0200Z, Feb 12
FISTS Winter Sprint	1700Z, Feb 10	2100Z, Feb 10

RSGB 1.8 MHz Contest, CW	2100Z, Feb 10	0100Z, Feb 11
North American Sprint, CW	0000Z, Feb 11	0400Z, Feb 11
QRP ARCI Winter Fireside SSB Sprint	2000Z, Feb 11	2400Z, Feb 11
ARRL School Club Roundup	1300Z, Feb 12	0100Z, Feb 16
ARRL International DX Contest, CW	0000Z, Feb 17	2400Z, Feb 18
CQ 160-Meter Contest, SSB	2200Z, Feb 23	1600Z, Feb 25
YL-ISSB QSO Party, SSB	0000Z, Feb 24	2400Z, Feb 25
REF Contest, SSB	0600Z, Feb 24	1800Z, Feb 25
North Carolina QSO Party	1200Z, Feb 24	2359Z, Feb 25
	1200Z, Feb 25	2359Z, Feb 25
UBA DX Contest, CW	1300Z, Feb 24	1300Z, Feb 25
RSGB 7 MHz DX Contest, CW	1500Z, Feb 24	0900Z, Feb 25
High Speed Club CW Contest	0900Z, Feb 25	1100Z, Feb 25
	1500Z, Feb 25	1700Z, Feb 25
CQC Winter QSO Party	2200Z, Feb 25	0359Z, Feb 26

March, 2001

ARRL International DX Contest, Phone	0000Z, Mar 3	2400Z, Mar 4
SLP Competition (SWL)	0000Z, Mar 3	2400Z, Mar 4
World Wide Locator Contest	0000Z, Mar 10	2400Z, Mar 11
Southern African HF Field Day	1000Z, Mar 10	1000Z, Mar 11
RSGB Commonwealth Contest, CW	1200Z, Mar 10	1200Z, Mar 11
QCWA QSO Party	1900Z, Mar 10	1900Z, Mar 11
North American Sprint, RTTY	0000Z, Mar 11	0400Z, Mar 11
UBA Spring Contest, CW	0700Z, Mar 11	1100Z, Mar 11
Wisconsin QSO Party	1800Z, Mar 11	0100Z, Mar 12

Alaska QSO Party	0000Z, Mar 11	2400Z, Mar 12
Bermuda Contest	0001Z, Mar 17	2400Z, Mar 18
BARTG WW RTTY Contest	0200Z, Mar 17	0200Z, Mar 18
Russian DX Contest	1200Z, Mar 17	1200Z, Mar 18
Virginia QSO Party	1800Z, Mar 17	0200Z, Mar 19
CQ WW WPX Contest, SSB	0000Z, Mar 24	2400Z, Mar 25
SLP Competition (SWL)	0000Z, Mar 24	2400Z, Mar 25

Doctor DX:

LONDON, England (CNN) -- People tuning into their radios on Tuesday might have been unaware that January 23 marked a very special anniversary. Exactly a hundred years ago, at 4:30 p.m. local time, Italian-born radio pioneer Guglielmo Marconi sent the first ever long-distance wireless transmission from the Isle of Wight to Cornwall on the British mainland.

Although Marconi had, over the previous five years, been sending messages over increasingly long distances, the January 23 transmission marked a milestone in the development of long-distance communication. Not only was it the furthest wireless transmission ever made -- 186 miles (299 kilometres) -- but it also proved that radio waves could be transmitted across the horizon, something the majority of the scientific establishment had insisted was impossible.

"It was the key move forward for wireless transmission at that time," says a spokesman for Chelmsford-based Marconi plc. "186 miles might not seem very far today, but back then it was astounding."

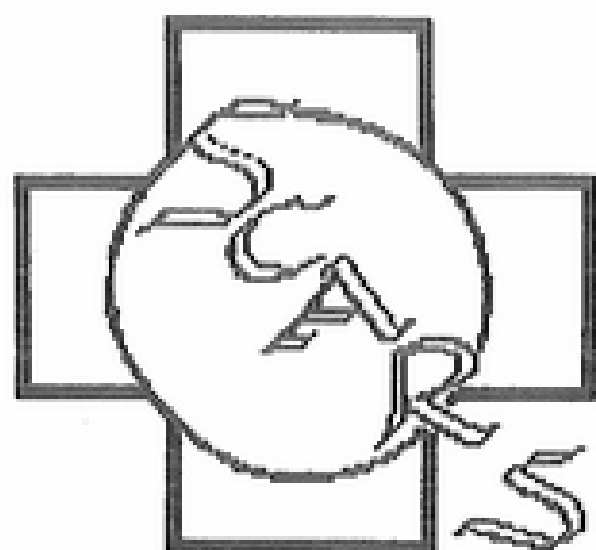
*Successful DX'ers Cross The Horizon
With Every Chance They Get!*

Want to become a member of the OKDXA? Contact Jerry Chouinard, K5YAA, 7477 Heather Dr. Claremore, OK 74017

Have some DX News? Contact Nelson Derks, AC5UP, 13410 South 128th East Ave. Broken Arrow, OK 74011

E-Mail to: k5yaa@aol.com or ac5up@vei.net - Visit the OKDXA Web Page <http://www.qsl.net/okdxa>

OKDXA NET ⇒ EVERY MONDAY EVENING AT 6:30PM ⇐ 3860 kHz +/-QRM



South Canadian Amateur Radio Society

Norman, OK

The January meeting of SCARS finally arrived. I don't like these months where the 2nd Saturday falls almost half way through the month. Something seems wrong to begin with.

Oh well. President Tom, KD5ENL got things started and we did have 34 present with some more to come in later. Treasurer Jeff, KT5OK reported that dues were coming in and we had money in the till. Members were reminded that failure to pay the dues promptly could result in not getting the C&E as you will only be carried over a couple of months then dropped off the list.

There was no old business, no CORA report and actually very little new things to discuss. Hamfests will be starting soon and the Ada and Green Country dates were announced.

Mike, N5SOF reported that he would be taking orders for Jackets, T-shirts and Caps probably at the next meeting. We only need an order of 20 total units to place one. Galland, KC5MMU announced the up coming Storm Spotting Class to be held at the Postal Training Center.

We did have a guest. Kevin Hopkins is the Emergency Services Director of the Red Cross and a member of the Norman City Council. Since taking over the position he has had to deal with 3 disasters. The wild fires, floods and the ice storm. I'm not sure this guy even sleeps. He had some very good things to say about Ham Radio. Getting his license is on the agenda but will have to wait till the extreme acts of nature have subsided a little. Thanks for coming by Kevin. If you feel the need to help out / volunteer the Red Cross would be happy to talk to you. Recently Tim WA5LTM, Ralph KA5RUZ and Harold

KD5IFN were responsible in getting the club generator to a family in Wynnewood that lost power in the ice storm and needed to power a breathing machine. Way to go guys.

By the time you read this the 2001 edition of the OU / SCARS class will have started. Classes are each Mon night from 7 to 9 at the Weather Service Office with final testing on March 12th. Our VE team had 12 people come for the testing today and 2 upgraded to General 1 upgraded to Extra, 8 are new Technicians including one w/HF rating. One went from no license to General. Congratulations to all.

Bill Baker, N5UMH
Secretary

Handi-Hams: Area code change disrupts service

The phone companies are changing the area codes in Minneapolis-St. Paul - the Twin Cities. As a result, telephone phone service to the Handi Hams at the Courage Center has been disrupted.

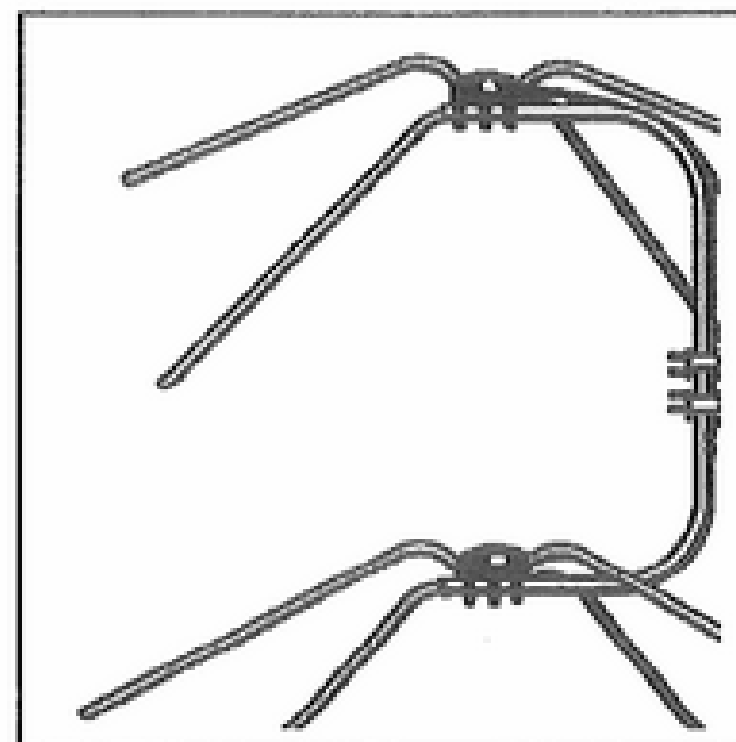
According to Handi Hams Director Pat Tice, WA0TDA, those trying to reach the Center using its 800 toll free line have received error recordings. Others trying to reach Handi Hams from the local area code had to try over and over before finally getting through. And their Internet service failed, too.

So, what does the leader of the Handi Hams do when all other communications go kaput? Tice says that with the phones out he spent the day in the ham radio station and had a lot of fun checking into the nets.

WA0TDA adds that ham radio remains a solid, robust backup means of communication that will provide service in an emergency when the phone system collapses.

Normal telephone service to the Courage Center and the Handi Hams will hopefully have been restored by the time you hear this newscast.

(Handi-Hams)



Names in the News: Hyman says

that DTV is moving at a glacial pace

According to Consumer Electronics Association press releases, fewer than 48,000 digital television receivers were delivered to retailers through November 2000. Now, Mark E. Hyman, who is the Vice President, Sinclair Broadcast Group says that at that rate of adoption, it will take 12,500 years to replace the installed base of 300 million analog television sets in U.S. homes. Hyman calls that a glacial pace.

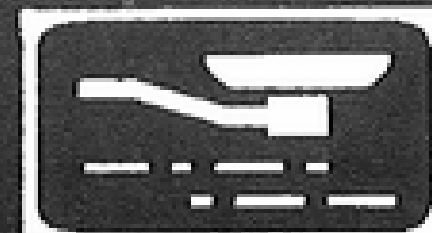
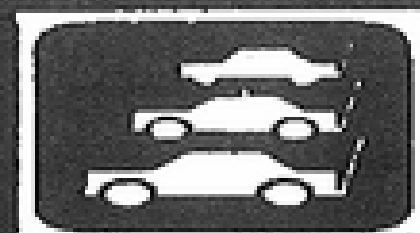
(Press Release)

Names in the News: Hams serve on First Flight Planning Committee

Two hams have been appointed to the First Flight Centennial Federal Advisory Board. Martha King, KD6SCZ, and Kathy Sullivan, N5YYV will address matters relating to the commemoration of the 100th anniversary of Wilbur and Orville Wright's first powered flight. That flight took place at Kitty Hawk in December 1903.

For those not aware, Martha King and her husband John own and operate King Schools Inc, which produce aviation instructional videos. Sullivan is an Astronaut and NASA mission specialist who has flown on three shuttle missions and has logged more than 500 hours in space.

(ARRL)



Ada Amateur Radio Club

Happy New Year, from the Ada Amateur Radio Club. The meeting was held January 6, 2001 at the Salvation Army Headquarters, 115 N Oak Street. The meeting was called to order by club president Charles, KC5TGA at 0905 local time with 14 members in attendance.

Tom, KD5GTY, gave treasures report. Would also like to let everyone know this is the last reminder to pay your dues, as of January 31, 2001 all unpaid dues will no longer be receiving their Collector & Emitter. For anyone wanting to pay by mail the address is: Ada Amateur Radio Club, P O Box 1181, Ada, OK 74821.

We have two of our club members out with illness. Tom Gilliam, KK5XI, and Nancy Myers, KD5AYN, we would like to let them know that everyone is thinking of them and hope that they will soon be well and back at the meetings soon, they are missed. Our thoughts are with Eddie Collins, WB5WBB, his mother passed away.

The ice storm of 2000! Just reading these words brings back memories of no power, no water, and standing by helplessly as nature "pruned" hundreds of its trees. I will always remember these things but above all, I will recall how we responded to taking care of our community. The storm initially knocked out electricity to 170,000 Oklahomans. Several of our local amateur operators: Charles Etier, KC5TGA; Tom Jones, KD5GTY; Scott Renes KD5AJL; Robert McKeel KC5SIS; has been working with the Red Cross helping out with supplies, water, food, cots, whatever was needed. Kirby Tremble, K5JLL took time off from work assisting to help get electric restored to people. Charles Etier, KC5TGA had spent several days taking the Red Cross & FEMA around to asses damages to our area. I hope I didn't forget anyone. I would like to thank everyone for helping out in this time of need.

Charles, KC5TGA and Scott, KD5AJL have copies of information on fox

hunting, if you are interested and would like a copy of this contact one of them.

Roy, KB5STV gave update on the repeater.

Saturday, February 10, 2001 is the Ada Amateur Radio Club's hamfest. At the Agri-plex, small animal building, Admission: \$1 / tables: \$5. Doors open to exhibitor for set up Friday, February 9, 7:00 p.m. - 9:30 p.m. Doors open to the public at 8:00 am Saturday. Talk in frequency 147.285+, website

adacomp.net/~jewell

for more information contact Charles Etier, KC5TGA 580-436-4426.

Club holds a net every Tuesday night on 147.285+ at 8:00 p.m. local time. Everyone is welcome to check in.

A vote was passed unanimously by the members present to hold a 5-wpm code class on the 147.285+ repeater, this class will be held at 9:00 p.m. Sunday - Friday nights for 35 minutes. Everyone is welcome to join in for more information on the code net contact Charles, KC5TGA.

The VE exam fee: both ARRL and W5YI have announced an increase in the VE exam fee to \$10.00 beginning January 1, 2001.

Enid Amateur Club is in need of hard line. If anyone has any information on any that might be available.

Meeting adjourned at 0955.

Happy Valentines Day,

Darla Coffey, KC5RGU
Ada Amateur Radio Club Secretary

Space and Science: Russian Parliament criticizes ditching of Mir

The Duma, Russia's Lower House of parliament, criticized government plans to discard the aging Mir space station in March. In a recent vote, Deputies overwhelmingly supported a motion condemning the premature end to operations aboard Mir, and said that ditching it is a poorly thought out and unjustified step.

Because of dwindling cash and viable investors, space officials announced last week that they decided to ditch 15 year old Mir in the Pacific Ocean near Australia in early March.

Whether the Duma's statement would influence the government's decision to terminate the Mir is unknown. U.S. space officials have pressured Russia to de-orbit Mir saying it drained limited resources that would be better spent on Russia's role in the International Space Station.

(Published news reports)

International: South Africa - Beacons

There is now a new microwave propagation beacon radiating RF energy from South Africa. The KG33VV 23 centimeter beacon is located at the QTH of ZS6AZT.

The new propagation alert device signed-on on Friday, January 5. The 5 watt signal feeds a 24 element Yagi. That's an ERP of about 220 watts. Tune your receivers to 1296.150 MHz.

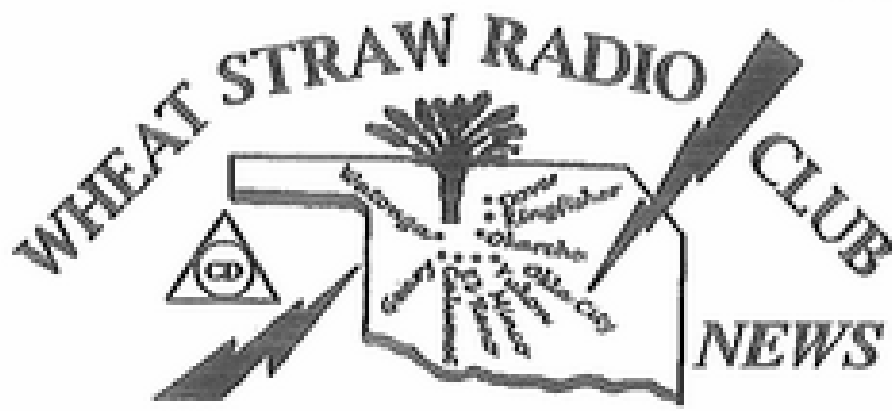
The beacon operates continuously, except one weekend each month when EME activity takes place and then only when the Moon is visible.

(VHF Reflector)

International: 2 meter Trans-Atlantic beacon

The Irish Radio Transmitters Society news service says that members of the North East Weak Signal Group are rebuilding their Trans-Atlantic beacon. It is expected to return to the air during the early European spring of 2001 from its location on Rhode Island.

Several members of the group are interested in establishing 2 meter contact from Europe to the United States. That's why the beacon was installed. Its operating frequency is 144.282 Mhz.
(IRTS)



Wheatstraw Amateur Radio Club

The president called for the refreshments to start serving at 1:30. Leo, WZ5H called the meeting to order at 2:30, but was 2:40 before he got their attention. There were twenty present, good to see them there. Self-introductions were made by each.

The reading of the December minutes were read and approved as read. There were thirty-three there for the Christmas dinner. We had a very nice Christmas dinner. Alice Stewart won a 2-Meter radio with all the trimmings the biggie prize. There was about ten prizes drawn, such as an A.R.R.L. handbook, An antenna book, about five repeater directories.

Ray, AB5Z appointed Neal, N5KCO as activity chairman for the year of 2001. The February meeting will be in Canton, OK. The Meeting will be February 11 at the City hall. From the stop light at the cross section of town go west about two blocks. You will see Dale's quick stop, turn to your right which will be north about two blocks, you will see the city hall on the left side of road. Turn in the parking lot; go to the front door on the east side of building.

The March meeting will be held in Calumet, Ok. From the 4way stop ' in the middle of Calumet go one block south of the stop turn west around the corner of the mini stop on corner. The first white building on the right side of road is the City hall you are there. Joe, WA5FLT asks A.R.R.L. members to send their dues notice to him. Write check to Wheatstraw radio club Then Joe can write a check for two dollars less and send it with your notice on in to ARRL. They let the club make \$2.00 for the Wheatstraw club on all renewals.

Before we closed we all had a silent prayer for Sue, KB5TNE she wasn't feeling too good. Neal, N5KCO made a motion we

close the meeting seconded by Dennis, KB5TGT. Meeting adjourned

Ralph, WA5PFK

Son John and his wife Linda last summer made plans and reservations in Fort Davis Texas for our Christmas. All they would let me know was we were going to the mountains. Some of my friends' thought they were taking me skiing, I knew they would not do that on account of my health.

We had snow and ice down there although it was not expected by many people. The roads did not stay iced very long. We went somewhere every day, not really where we wanted to go. We wanted to go see the Marfa lights but we did not get to see them. The news was for people not to try it the ice and snow was too bad on the roads.

One of John and Linda friends that attend the same church, insisted that she, her daughter and husband take us one day to O'Donnell, Texas. The lady went to school with Dan Blocker (Hoss Cartwright). The Blocker family owned a grocery store there in O'Donnell. The building still stands today. Mrs. Blocker ran the store. Her motto was painted up on the front of the store. (Ma saving a nickel for Pa.) More about Dan Blocker later.

Ralph WA5PFK

Conventions: Superfest 2001 Update

Here's an update to a story we reported two weeks ago. The story included information about free exhibit space at the upcoming AES Superfest April 6th and 7th in Milwaukee, Wisconsin. According to AES spokesperson Molly Schreiber, the space available is just that. Small spaces for clubs to display materials about themselves. There are no free swap tables and the number of exhibit spaces is limited. For more information take our webpage link to Superfest 2001.

(AES)

Names in the News: WB9RNW to KCAL

Congratulations to a longtime friend of ARNewsline. John Russell, WB9RNW, was named Chief Engineer of Young Broadcasting's KCAL-TV Channel 9 in Los Angeles.

WB9RNW comes to KCAL with more than twenty years of broadcasting experience. John most recently served as Chief Engineer for Los Angeles Unified School District station KLCS, Channel 58. Prior to joining KLCS TV in 1989, Russell was Director of Engineering at Qintar and JP Associates. Before that he was Director of Engineering for KBSC (now KVEA,) Channel 52 and National Subscription Television.

In ham radio circles WB9RNW is well known as a pioneer in the development of amateur radio 220 MHz repeater communication and packet radio networking across Southern California. He was also instrumental in getting the ARRL and AMSAT videos accepted for airing by the Los Angeles Unified School District.

Russell also serves as Chairman of the Southern California Frequency Coordinating Committee, Inc. The SCFCC is the recognized spectrum management organization for Part 74 users in the southern California geographic area.

(CGC Communicator, ARNewsline (tm))

That Final Item: New use for old Ham Radio Magazines

And finally this week, don't throw out those old copies of your favorite ham radio magazine. Q-News' Graham Kemp, VK4BB, says one of the hams down under has a better idea:

Here is a simple idea to give more community awareness of electronics and radio hobbies.

Ever been to the doctor, dentist or hairdresser only to find the magazines in the waiting room of no interest? Next time you go, take a couple of your old hobby magazines that you don't want any more and leave them behind.

A great simple idea from WIAQ Councillor Bruce VK4EHT.

Im Graham Kemp, VK4BB, of Q-News Australia for ARNewsline

Will it work? You won't know if you don't try.

(Q-News)



A. R. R. L. Bulletins

From ARRL Headquarters
Newington, CT
To All Radio Amateurs

Special Bulletin 3 January 26, 2001

Amateur Radio Giant Bill Orr, W6SAI, SK

Amateur Radio legend William I. "Bill" Orr, W6SAI, of Menlo Park, California, died in his sleep January 24. He was 81.

An ARRL member, Orr was best known for his numerous amateur radio books and reference works, many aimed at beginners. His titles include The Radio Handbook, The Beam Antenna Handbook, The Quad Antenna Handbook, The VHF-UHF Manual and The W6SAI HF Antenna Handbook, some written in collaboration with Stu Cowan, W2LX.

Licensed in 1934 at age 15 as W2HCE in New York, Orr graduated in electrical engineering from the University of California in the early 1940s.

In his younger years, Orr was a well-known DXer and DXCC Honor Roll member. He also was involved in DXpeditions to various exotic locations, including St Pierre and Miquelon and Monaco, among other locales.

>From the 1940s through the 1980s, Orr was a frequent contributor to QST, writing about tube-type amplifiers, Project OSCAR, and other topics. Orr constructed some of the amplifiers once used at ARRL Maxim Memorial Station W1AW.

For many years Orr worked with tube manufacturer EIMAC. Orr's application notes for EIMAC products were favorite reading within the amateur community. In later years, Orr penned columns for Ham Radio magazine and, more recently, for CQ.

In 1996, Orr was named the Dayton Hamvention Technical Excellence award winner.

Chip Margelli, K7JA, of Yaesu, said Orr's readers always could build his projects knowing that Orr had tested them in the field first to be sure they worked.

Long-time friend Willard "Tiff" Tiffany, W6GNX, said Orr had a knack for making technical topics easy to follow and understand. He remembered Orr as "a friendly, helpful guy who wrote from the heart because he enjoyed doing it."

Another friend, Marv Gonsior, W6FR, says Orr "had a great sense of humor, a lot of wit about him."

Orr owned a condominium in Maui, Hawaii, and operated from there two or three times a year as KH6ADR.

Orr's wife, Sunny, died about five years ago, and he lived alone. He is survived by four daughters and a son. Arrangements are incomplete at this time.

Special Bulletin 2 January 16, 2001

Hams Respond to El Salvador Earthquake
According to reports from the Salvation Army Team Emergency Radio Network, El Salvador's worst earthquake in at least a decade January 13 has claimed more than 400 lives and injured nearly 800 others in El Salvador and Guatemala. More than 1000 still are missing. SATERN's Pat McPherson, WW9E, cited figures from El Salvador's National Emergency Committee.

Hundreds of aftershocks have rocked the region since the initial quake, which measured 7.6 on the Richter Scale. SATERN activated a net January 14 to respond to health-and-welfare requests and emergency traffic from the affected region. McPherson reports that SATERN volunteers continue monitoring 14.265 MHz, but the formal net has been terminated for now.

McPherson says that SATERN Coordinator for Honduras Hermann Cueva, HR1HCP, reports that a net is operating on 7090 kHz to assist El Salvador.

SATERN has a health-and-welfare inquiry form on its Web site,
<http://www.qso.com/satern>.

Meanwhile, a team of 22 Turkish rescue personnel has been dispatched to the disaster scene. Turkey was hit by a devastating earthquake in the summer of 1999, and Amateur Radio played a role in providing emergency communication in the aftermath.

Heading up communications for the Turkish rescue team is Serdar Demirel, TA2NO. TRAC President Aziz Sasa, TA1E, reports that the team is equipped with an INMARSAT telephone and VHF and UHF amateur gear.

Special Bulletin 1 January 12, 2001

FCC Chairman Kennard Announces Resignation

FCC Chairman William E. Kennard has announced his resignation, effective January 19. Kennard, a Democrat, said he leaves the office with great pride in the FCC's accomplishments and with deep gratitude for having had an opportunity to serve the American public.

Kennard's resignation was expected once the AOL-Time Warner merger received FCC approval. That happened January 11. It's been widely speculated that President-Elect George W. Bush will name Republican FCC commissioner Michael Powell--the son of Secretary of State-Designate Gen Colin Powell--to replace Kennard as FCC chairman.

The agency's first African-American chairman, Kennard presided over the FCC during a period when the FCC implemented historic legislation to bring competition to communications markets. During his three-year tenure, Kennard promoted competition and consumer choice in the telecommunications marketplace, encouraged the rollout of broadband and digital technologies, expanded access to technology and streamlined and revamped the FCC.

In implementing the 1996 Telecommunications Act, Kennard said he aimed to create a marketplace where "monopoly is ended, innovation and

entrepreneurship are cherished, and consumers have competitive choice."

Kennard made bridging the Digital Divide a top priority. During his tenure, the FCC successfully implemented the E-Rate program, which connected 95 percent of the nation's schools and more than one million classrooms to the Internet.

"We must bring the benefits of the Digital Age to all Americans," said Kennard. "From the business districts to the barrios, from those with every advantage to those with disabilities, from the young to the old, from suburban enclaves to the rural heartland."

His achievements include establishing a Disabilities Rights Office at the FCC, bringing new telephone service to over one million low-income Native Americans on tribal lands, and creating a new low-power radio service for school, church, and community use.

For the next few months, Kennard will serve as a senior fellow of the Aspen Institute Communications and Society Program in Washington, DC.

ARRL Bulletin 2 January 22, 2001

ARRL Board Approves Dues Increase, Alters Morse Position

Meeting in Irving, Texas, January 19 and 20, the ARRL Board of Directors voted to increase membership dues from \$34 to \$39 annually for full members younger than 65, and from \$28 to \$34 for full members 65 and older. The dues hike goes into effect July 1, 2001. The last ARRL dues increase was in July 1997.

The dues increase resulted from a need to

fund initiatives to expand the League's advocacy activities on behalf of Amateur Radio—including the defense of amateur spectrum—and to enhance ARRL Headquarters' abilities to serve members during a period of projected deficits. The Board okayed a \$1 greater increase for seniors in an effort to narrow the dues gap, as more and more ARRL members fall into the senior category.

At the same time, the Board approved the hiring of development and sales and marketing professionals on the Headquarters staff as part of an overall plan to augment revenues.

"The ARRL carries out a lot of activities that no longer can be fully funded by dues or publication sales revenues," ARRL Executive Vice President David Sumner, K1ZZ, explained. While voluntary contributions towards Amateur Radio advocacy are helping greatly, "we need to professionalize these activities if we are going to sustain them," he said.

The Board also revised its position on whether Morse code proficiency should continue to be an international requirement to license operation below 30 MHz. The Board approved a resolution that "recognizes and accepts" that the Morse requirement likely will be dropped from Article S25 of the international Radio Regulations at the 2003 World Radiocommunication Conference. But the Board held the line on retaining a domestic Morse requirement, saying that each country should be allowed to determine for itself whether it wants to have a Morse code requirement.

The Board's Morse Code resolution declared that deletion of the Article S25 international requirement at WRC-03

"should not automatically or immediately mean a similar removal of the Morse code from Part 97 of the FCC rules." Morse code, the Board affirmed, deserves continued support as an important operating mode

as well as in terms of spectrum and "should be retained as a testing element in the US." The resolution also called on ARRL Headquarters staff to "develop a program designed to promote the use of Morse."

The resolution supersedes all previous Board policy statements regarding Morse code and Article S25.

The Board has adjusted the management structure at ARRL Headquarters. Publications Manager and QST Editor Mark Wilson, K1RO, will serve as the ARRL's Chief Operating Officer. In that position, Wilson will oversee sales and marketing, publications, field volunteer and membership services, the ARRL Lab, and other day-to-day Headquarters activities.

The Board also established a committee to solicit membership input to update the ARRL's position on refarming the HF Novice bands "in light of the 1999 FCC license restructuring Report and Order." The five-member panel will be named by President Haynie. It will report to the board in one year.

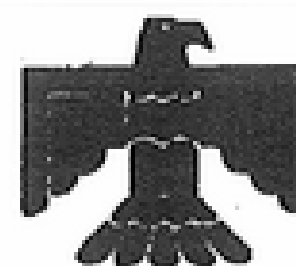
ARRL Bulletin 1 January 2, 2001

FCC Cancels Voluntary Communications Emergency

The FCC has canceled its voluntary clearance of the frequencies 3873 kHz (plus and minus) and 7285 kHz (plus and minus) effective January 1, 2001, at 2100z.

Notification of the cancellation was to be transmitted on each frequency.

The voluntary communications emergency was requested in order to clear Amateur Radio Emergency Service net frequencies in the wake of weather-related power and communications outages in Texas.



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Hamfests

February 10, 2001 Ada Amateur Radio Club, Admission: \$1 / tables: \$5, for more information or to reserve a table contact Charles Etier, KC5TGA, 580-436-4425. Doors open to exhibitors for set up Friday, February 09, 7:00 PM - 9:30 PM. Doors open to the public Saturday at 8:00 am.

February 16-17, 2001 - Green Country Hamfest @ Downtown Tulsa Civic Center Tulsa, OK Doors open 5 p. m. Fri - 8 a. m. Sat. Email: info@greencountryhamfest.org Web: www.greencountryhamfest.org Talk-in 145.11 +600 PL 88.5

March 3, 2001 Elk City Hamfest sponsored by the West Central Oklahoma Amateur Radio Club for more info write WCOARC PO Box 2023 Elk City, OK 73648

ANNOUNCEMENTS

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

VE exams on 3rd Saturday of each month are held at 9:00 a.m. at Southern Temple Baptist Church, 1821 S High, OKC. Talk in on 146.76 MHz. For more information you can contact Clarence Warstler, KB5IBY @ 632-3545.

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

VE exams on 2nd Saturday of each month are held at 10:00 A.M. after the SCARS meeting at the American Red Cross in on Westheimer Airport in Norman. Contact

Jim Copeland, NWOK at 329-1681 or e-mail jimhelps@juno.com for more information.

VE exams on 4th Tuesday of even months are held at 6:30 p.m. at the Knights of Columbus Hall in Altus, OK. Contact George Mateyo, NIGM for details.

VE exams on the 1st Tuesday of the month sponsored by the Stillwater ARC at 7:30 P.M. at the Red Cross Building, 505 S. Main. Contact Mike Crane, KC5GJN @ kc5gjn@hamsnet.net

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

On the Air

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

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

Packet check-in on 145.07

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

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

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

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

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

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

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

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

W5HXL Memorial Net - Thursday @

7:00 p.m. on 145.41 minus input.

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

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

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

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

Oklahoma Training Net - Daily @ 5:30 P. M. on 7120 kHz (CW Net)

T-SARG NW OK - Friday @ 9:30 p.m. on 147.36+ with an 88.5

Oklahoma Baptist Hams Net - Sunday @ 2:00 p.m. on 7.273 kHz

Enforcement: The FCC vs. Uncoordinated Repeaters

The FCC is continuing its offensive against uncoordinated repeaters that reportedly are causing interference to coordinated repeaters.

While there is no rule or law that says a repeater must be coordinated the agency's rules do state that in cases of interference between coordinated and uncoordinated repeaters, it is the responsibility of the licensee of the uncoordinated repeater to take any steps necessary to resolve the problem, including going off the air.

And in recent actions, licensees of three apparently uncoordinated repeaters have been asked to provide the FCC with any proof of coordination they may have, along with details of how they have tried to resolve the interference complaints against them. These machines are located in Florida and North Carolina. Other uncoordinated systems receiving warning letters or inquiries from the FCC have simply left the air.

(FCC, ARRL)

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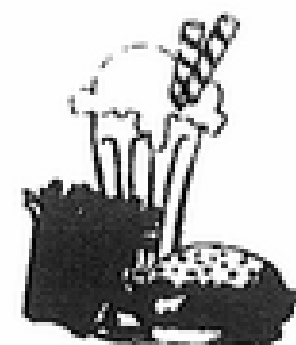
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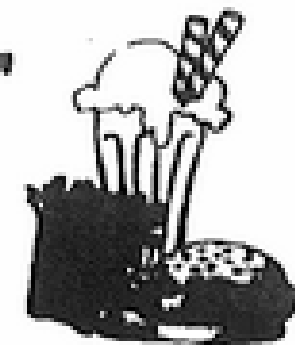
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February 04 - March 17, 2001

Weekly Planner

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
February 4	February 5	February 6	February 7	February 8	February 9	February 10
				7:00 PM Althus Area ARA 7:00 PM Tri State ARG		9:30 AM South Canadian ARS 10:00 AM Enid ARC VE Exams 10:00 AM SCARS VE Exams
February 11	February 12	February 13	February 14	February 15	February 16	February 17
2:30 PM Wheatstraw ARC			11:00 AM Oklahoma VHF ARC			9:00 AM VE Exam SBC
February 18	February 19	February 20	February 21	February 22	February 23	February 24
	6:00 PM CORA VE Exams 7:00 PM Choctaw ARC	7:30 PM Oklahoma City Autopatch		7:00 PM Enid ARC		
February 25	February 26	February 27	February 28	March 1	March 2	March 3
		6:30 PM Althus VE Exams 7:30 PM Central Oklah- oma Radio Amateurs		7:00 PM Aeronautical Center ARC	5:00 PM C&E Deadline	9:00 AM Ada ARC
March 4	March 5	March 6	March 7	March 8	March 9	March 10
				7:00 PM Althus Area ARA 7:00 PM Tri State ARG		9:30 AM South Canadian ARS 10:00 AM Enid ARC VE Exams 10:00 AM SCARS VE Exams
March 11	March 12	March 13	March 14	March 15	March 16	March 17
2:30 PM Wheatstraw ARC			11:00 AM Oklahoma VHF ARC			9:00 AM VE Exam SBC

January						
S	M	T	W	T	F	S
1	2	3	4	5	6	
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

February						
S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28			

March						
S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

April						
S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					