

Collector & Emitter

Central Oklahoma Radio
Amateurs, Inc. Publication

March 2001
Volume 27, Number 3
Issue 313
75¢

Postmaster See Page 2
For Postal Information

Periodical Mail

Calling All Ladies!

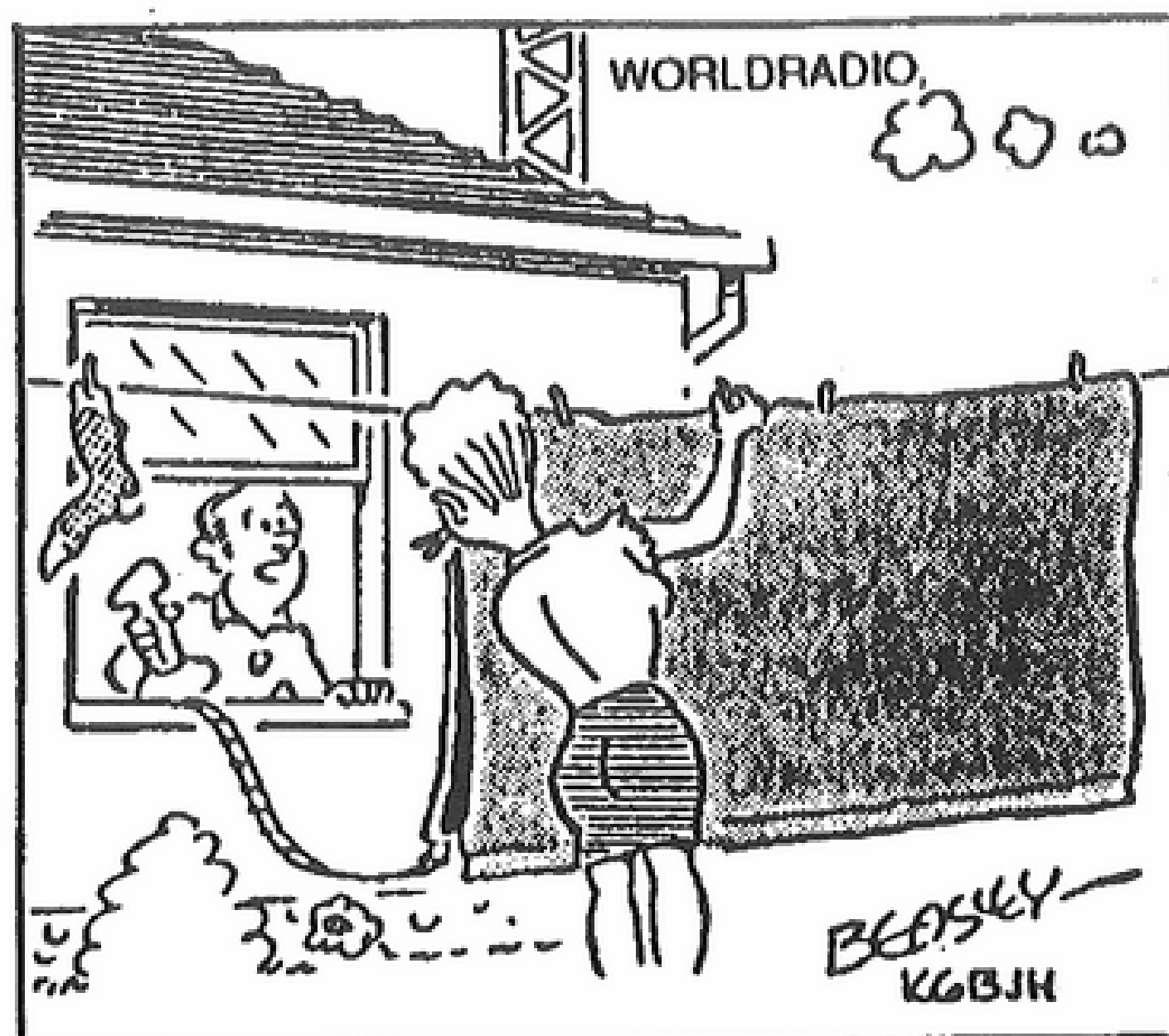
Page 4

A0-40 Update: Good News

Page 8

Seattle Quake

Page 11



DON'T TAKE THAT ELECTRIC BLANKET OFF
THERE, YET--- IT RESONATES ON 40 METERS!

Antenna Discussion

Page 15

The Sun Does A Flip

Page 20

China To Play in US ARDF

Page 31

Collector & Emitter.**Harold C. Miller, KB1ZQ****Editor****Linda G. Miller, N1LPN****Circulation Manager****Central Oklahoma Radio
Amateurs, Inc.****President: Tom Miller, KD5ENL****V Pres.: Jerry Sproul, WA5JS****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:

2001/12 1 2 4 6 MZ
JOHN E. DOE, KA5ABC
1234 SW 56th STREET
RADIOVILLE, OK 74321-9876

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.

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1. Aeronautical Center ARC Meets: 7:30 p.m., 1st Thursday, FAA, S. MacArthur, OKC Pres.: Clarence Warstler, KB5IBY 632-3545 VP: Sec/Tr.: Paul Solheim, WB7QIN 381-3574 Editor	10. Oklahoma DX Association Meets: Hamfests and as announced in C&E. Pres.: Larry Shima, W0PAN 405-721-8138 VP: Clif 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 Stimson, 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@arri.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@arri.net
9. Wheatstraw Amateur Radio Club Meets: 1:30 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, W5PFK 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 April 2001 Issue of Collector and Emitter is Friday, March 30, 2001. Send all Articles to Collector and Emitter, 4216 Spiva Drive Del City, OK 73115-4424 on 3 ½ 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 February 27th, 2001.

The meeting was called to order by the President of CORA Tom Miller, KD5ENL. All the officers were present as well as six directors (3 from OCAPA, 2 from EARS, 1 from SCARS).

Secretary's Report.

The minutes of the January meeting were approved as printed with two corrections: the date of HH 2001 is the 27 - 28 of July, 2001 and it was Hal Miller, not Tom Miller who was to contact Tri-State about doing a Wouff Hong.

Treasurer's Report.

All the bills are current and there is money in the bank to put on HH 2001. Treasurer's report approved unanimously.

Old Business.

Ron, KC5QCV and Dave, NE5S presented what information they had collected on possible sound systems for CORA. Mac, K2GKK/5 reported on a used portable sound system that may be available. More about that at the March meeting.

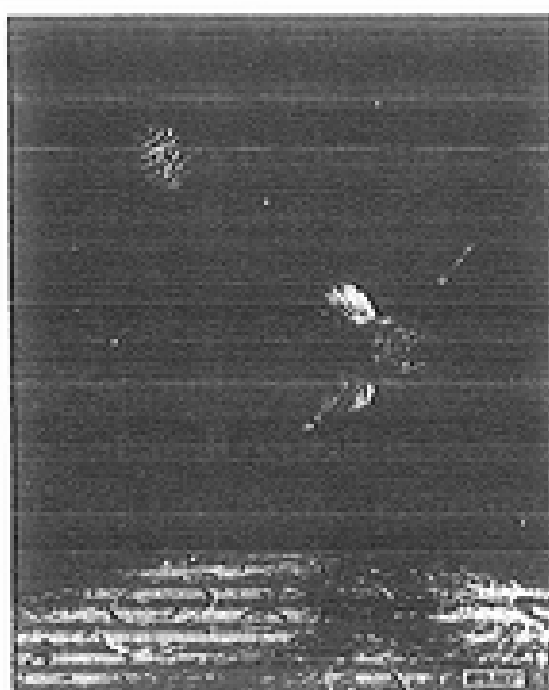
Discussed possible programs and special events that we would like to see at HH 2001.

Next Meeting.

The next meeting will be a luncheon meeting. CORA will meet on March 24th, 2001 at the world renowned **Spencer's Barbeque** at 12 Noon. Spencer's Barbeque is located at 9900 NE 23rd Street, close to intersection of NE 23rd and Post Road. I hope all the directors make it to the meeting.

Respectfully Submitted,

Forrest Rush, N5VWF
CORA Secretary



Space And Science: An Update On Voyager

AMSAT's AO-40 ham satellite may still be broken but a pair of space probes launched years ago continue to function almost flawlessly. They are called Voyager and Roy Neal, K6DUE, has an update on their never ending trip:

Shades of Star Trek. Were you aware that NASA's Jet Propulsion Laboratory still keeps in touch with the aging Voyager 1 and Voyager 2 spacecraft which are currently traveling through inter-stellar space? Well the Pasadena, California based research facility is doing just that thanks to NASA's Deep Space Network.

By using the network controllers at JPL keep tabs on the two robot spacecraft by exchanging commands and other data at least once a week.

The round-trip radio path to Voyager 1 takes about 21 hours. Voyager 2 being a bit closer only takes about 16 hours. Both spacecraft completed their original mission many years ago but continue to ship back data even as they fly toward the unknown at a speed in the tens of thousands of miles per hour.

I'm Roy Neal, K6DUE

When will we cease hearing from Voyager 1 and 2? Scientists say that too is unknown.
(NASA)

International: Vk On Internet Voice Links

Meantime, down-under -- it is repeaters that are to be linked over the Internet. Q-News Graham Kemp, explains:

"In reading the original notice of our ability to link repeaters, one aspect seems to have been overlooked by some operators, and that is for the linking of repeaters. The practice of allowing licensed hams to link from a home pc to a network was always against that understanding. RF intersystem only. So a repeater callsign in the conference room is the only call a VK must allow to his repeater."

What about linking from Australian repeaters to those in other parts of the world? Again, Q-News Graham Kemp, VK4BB:

"The linking of Australian Amateur Radio Stations to foreign Amateur Repeater Stations via the internet is permitted providing that linking arrangements and the general operation of foreign repeaters in the network comply with the relevant Australian legislation.

In particular this means the conditions contained in the radio communications license conditions Amateur License Determination number 1 of 1997, and those contained in the Radio Communications License conditions Apparatus License Determination number 1 of 1997.

The Australian Communications Authority understands through the use of software control, such communications are fully isolated from the general public.

The interlinking of Amateur Stations in Australia with other Amateur Stations, including Amateur Stations overseas via the internet is approved on the following basis. Access by non-Amateurs is prohibited, the interlinking must accord with all applicable licensing conditions, and this includes the requirement that the interlinking must not be used to extend Australia or overseas the access privileges of any other Amateur."

In other words, if you have legal access to a repeater in your country you can be a part of an international Internet repeater link.
(Q-News)

Chit-Chat

By Linda, NILPN

HAM HOLIDAY: CALLING ALL LADIES!

Do you know the history behind Ham Holiday and WHY it was created as well as WHY it was held during the time that it is? I asked and my answer comes from more than one person so please forgive me if I miss a few facts here and there.

Ham Holiday was set up as a FAMILY AFFAIR! Yes, Families were encouraged to attend; it was not just a HAM only event. Children under the age of 12 got in free. It was held at a Holiday Inn located in Midwest City. It was a gathering of Hams and their families with Commercial Dealers, a Fleamarket, Arts & Crafts, Games, swimming for anyone who wanted to dip in the pool and a dinner and one person said they even had a dance one year! It was an event no one missed and there was something for everyone.

Over the years, Ham Holiday has changed. Some changes were forced upon us due to changes in our state laws, others were due to our hamfest out-growing the hotels and moving to the state fairgrounds. The major change is that it has turned from being a "family" event into a "male" event.

Each year, fewer and fewer Ladies attend Ham Holiday. The problem is our own fault. We, as YLs (Young Ladies), have stepped back and have stopped taking an active part in this yearly event. Each year, at the CORA Board meetings the subject is brought up that women are not attending and how or what is needed that would attract us to attend? Oh, they have tried to bring in programs that would draw YLs but few of us were aware of these programs due to the low profile they were given, so they end up failures.

I started holding a craft class/demo about 6 years ago and for the past 2 years have changed it into a Stamping Class. I bring my own stamps and supplies and share them with anyone wanting to have fun. My class is the one they forget to assign a location to at HH and so it is sometimes hard to find. The hams at the Registration Table have shared their table with me a couple of years and one year I held it in the food court area and last year I held it at the YLRL/YL NET Table. This year look

for my class again at the YLRL/YL NET Tables.

So the question is, what will attract Ladies to our hamfest and have them want to attend? I have a great idea for us, the YLs, for this year's Ham Holiday. Each year there have been empty tables left in the Fleamarket area of the hamfest and no one buys them. Why don't we YLs of the ham community put those tables to use? If you are into Crafting, Sewing, Quilting or what ever, Pre-register for a table at Ham Holiday and join the fun. Make a few dollars, at least enough to pay for your table & ticket! You have every right to sell your things as well as the guys do at OUR HAM HOLIDAY!

My passion is creating/making jewelry using semi-precious stones. I have been making my own jewelry for over 32 years now and have just started offering it on EBAY. Last year I donated 2 necklaces I had made to Ham Holiday to be given away. The first Hamfest I took my Jewelry to sell was The Enid Hamfest 2000 and I earned enough to pay for our trip, meals, table, tickets, money to replace what I had sold and had a blast in the process. My husband shared my table with me and he had a few things to sell and they sold as well. We enjoyed ourselves and isn't that what a hamfest is suppose to do?

So here is a call to ALL Young Ladies! Ham Holiday is for ALL HAMS and their Families! Ladies start creating and reserve that table! Those that don't craft, that's okay, we need someone to buy our creations! Don't count on your husbands to buy anything at our YL tables when there are other things they would like to buy instead. You need to come buy for yourself.

The YLs that are planning to reserve a table and sell at Ham Holiday, please e-mail me what you plan to sell and I will list it here in the month of June. I know of another YL that was with me at the Enid Hamfest and hope she will be at ours. Tupperware, Mary Kay, AVON, Pamper Chief, just to name few, I know we have YLs within this community that sell these products so why not let us all know by getting a table at HH? Is anyone into the art of MEHNDI? Personally, I will buy from someone within our ham community first before seeking to buy it elsewhere. Ladies...It is now in your hands NOW!

What are you waiting for? I can not promise you will sell anything but can tell you that it will be fun and an change from your normal weekends. E-mail me if you plan to get a table and than save a few dollars by Pre-registering for your table and ticket to Ham Holiday. E-MAIL ADDRESS: bluecaceangel@hotmail.com

FWD: FWD: FWD:

FWD: FWD: FWD, starting this month, will become a regular part of this article. I will reprint a story, poem or message that has been forwarded to me and that I have felt is worth sharing with others. Some will be funny, others will touch your heart as they have mine. What better way to start off this new section than something about the joys having a Cat in your life...

Fwd: Ten things learned from cat::

Top ten things I learned from my cat about how to give and get love

- 1.) Always be ready to play. Know how to recognize the playful look in the person you love, and immediately start playing.
- 2.) When you are happy to see someone, stretch your arms up to them and ask to be picked up.
- 3.) If the person you love forgets to feed you dinner, don't take it personally. Instead, run to sit by your plate and look hungry every time they walk by.
- 4.) Talk to the one you love, incessantly and constantly. It makes them feel loved, appreciated and important.
- 5.) Don't be afraid to ask to be touched. Just falling down and looking cute works well. Otherwise, rubbing up against the person you love will do the trick.
- 6.) If you keep asking for attention and don't get any, try disappearing suddenly. Then, don't come back for a little while, even if you are called. Your loved one will think twice before ignoring you next time.
- 7.) Show your love and adoration by bringing presents. Make sure to stand by your present and get fully appreciated.
- 8.) Purr when the person you love is anywhere near you. It will encourage them to get closer to you and touch you, while at the same time making them feel appreciated.
- 9.) Encourage the person you love to take naps with you. When you take naps, make sure to cuddle up under the blanket with them and get as close as you can.
- 10.) Always comfort the person you love, regardless of whether they need emotional or physical comfort. Cuddling, purring and

being sat on are sure cures for almost anything.

Fwd: 100 Years Ago

*The average life expectancy in the United States was forty-seven.

*Only 14 percent of the homes in the United States had a bathtub.

*Only 8 percent of the homes had a telephone. A three minute call from Denver to New York City cost eleven dollars.

*There were only 8,000 cars in the US and only 144 miles of paved roads.

*The maximum speed limit in most cities was ten miles per hour.

*Alabama, Mississippi, Iowa, and Tennessee were each more heavily populated than California. With a mere 1.4 million residents, California was only the twenty-first most populous state in the Union.

*The tallest structure in the world was the Eiffel Tower.

*The average wage in the U.S. was twenty-two cents an hour. The average U.S. worker made between \$200 and \$400 per year.

*A competent accountant could expect to earn \$2000 per year, a dentist \$2500 per year, a veterinarian between \$1500 and \$4000 per year, and a mechanical engineer about \$5000 per year.

*More than 95 percent of all births in the United States took place at home.

*Ninety percent of all U.S. physicians had no college education. Instead, they attended medical schools, many of which were condemned in the press and by the government as "substandard."

*Sugar cost four cents a pound. Eggs were fourteen cents a dozen. Coffee cost fifteen cents a pound.

*Most women only washed their hair once a month and used borax or egg yolks for shampoo.

*Canada passed a law prohibiting poor people from entering the country for any reason, either as travelers or immigrants.

*The five leading causes of death in the U.S. were:

1. Pneumonia and influenza
2. Tuberculosis
3. Diarrhea
4. Heart disease
5. Stroke

*The American flag had 45 stars. Arizona, Oklahoma, New Mexico, Hawaii and Alaska hadn't been admitted to the Union yet.

*Drive-by-shootings -- in which teenage boys galloped down the street on horses and started randomly shooting at houses, carriages, or anything else that caught their fancy -- were an ongoing problem in Denver and other cities in the West.

*The population of Las Vegas, Nevada was thirty. The remote desert community was inhabited by only a handful of ranchers and their families.

*Plutonium, insulin, and antibiotics hadn't been discovered yet. Scotch tape, crossword puzzles, canned beer, and iced tea hadn't been invented.

*There was no Mother's Day or Father's Day.

*One in ten U.S. adults couldn't read or write. Only 6 percent of all Americans had graduated from high school.

*Marijuana, heroin, and morphine were all available over the counter at corner drugstores. According to one pharmacist, "Heroin clears the complexion, gives buoyancy to the mind, regulates the stomach and the bowels, and is, in fact, a perfect guardian of health."

*Coca-Cola contained cocaine instead of caffeine and was green in color.

*Punch card data processing had recently been developed, and early predecessors of the modern computer were used for the first time by the government to help compile the 1900 census.

*Eighteen percent of households in the United States had at least one full-time servant or domestic.

*There were about 230 reported murders in the U.S. annually.

Fwd: The Carpenter

Once upon a time two brothers who lived on adjoining farms fell into conflict. It was the first serious rift in 40 years of farming side by side, sharing machinery, and trading labor and goods as needed without a hitch.

Then the long collaboration fell apart. It began with a small misunderstanding and it grew into a major difference, and finally it exploded into an exchange of bitter words followed by weeks of silence.

One morning there was a knock on John's door. He opened it to find a man with a carpenter's toolbox. "I'm looking for a few days work," he said. "Perhaps you would have a few small jobs here and there. Could I help you?"

"Yes," said the older brother. "I do have a job for you. Look across the creek at that

farm. That's my neighbor, in fact, it's my younger brother. Last week there was a meadow between us and he took his bulldozer to the river levee and now there is a creek between us. Well, he may have done this to spite me, but I'll go him one better. See that pile of lumber curing by the barn? I want you to build me a fence -- an 8-foot fence -- so I won't need to see his place anymore. Cool him down, anyhow."

The carpenter said, "I think I understand the situation. Show me the nails and the post-hole digger and I'll be able to do a job that pleases you."

The older brother had to go to town for supplies, so he helped the carpenter get the materials ready and then he was off for the day. The carpenter worked hard all that day measuring, sawing, nailing. About sunset when the farmer returned, the carpenter had just finished his job. The farmer's eyes opened wide, his jaw dropped. There was no fence there at all. It was a bridge -- a bridge stretching from one side of the creek to the other! A fine piece of work -- handrails and all -- and the neighbor, his younger brother, was coming across, his hand outstretched.

"You are quite a fellow to build this bridge after all I've said and done."

The two brothers stood at each end of the bridge, and then they met in the middle, taking each other's hand. They turned to see the carpenter hoist his toolbox on his shoulder.

"No, wait! Stay a few days. I've a lot of other projects for you," said the older brother.

"I'd love to stay on," the carpenter said, "but, I have many more bridges to build."

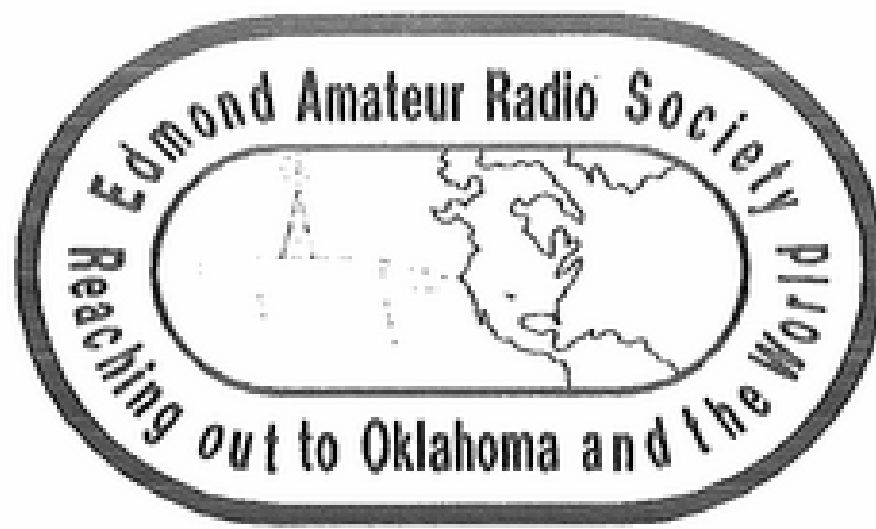
----- End forwarded messages-----

For those battling illnesses, may the healing winds gently kiss your cheek. For those who are facing challenges, may the winds of calm and peace enter your heart. For those counting blessings, may they be many. And for all, may God's Grace be with you always.

Until next month...

Enjoy the Day my Friends!

33 Linda, NILPN



Edmond Amateur Radio Society

Birthdays:

The following EARS club members have March birthdays:

3-03 Bob Ellsworth KB5BIN
 3-04 Benjamin Weiss KE6HKM
 3-05 Frank McCollom N5FM
 3-05 Everett Taylor KD5IPB
 3-09 John Nelson KC5SRH
 3-11 Fred Selensky KD5IOW
 3-16 Merle Wilson KB5SPM
 3-18 John Sakaly KM5GM
 3-20 Dee Stimson KD5LSK
 3-21 Phillip Wolowicz KD5JSA
 3-23 Kathryn Harris KD5IOX
 3-27 Oscar Jackson KD5MCL

Happy Birthday!

Member Information:

Welcome to these New Club Members:

Benjamin Weiss KE6HKM
 James Brady KD5EUQ

And there is a sad note at this juncture. EARS is losing Sharon Thompson, KM5GV. She and daughter Carol Thompson, AD6BC will be moving to Texas in the near future for a job opportunity. Sharon has been an outstanding club member. She has pitched right in on every project the club participated in. Recently she gathered the information for our club entry in the ARRL Quality Club contest. There was a notebook FULL of activities, and she was there for almost every one. For several terms she has been the club Membership Secretary. It is her cheerful correspondence you have read at renewal time. She has had her announcements ready at every Monday Night Net I can remember. Field Day, the Licensing Classes, Siren Test, Parades, through them all Sharon has always been there with a

cheerful smile ready to help with the project. 73 to you Sharon, and Best Wishes for the future. Thanks to Regina Randall, KD5MCD who has volunteered to cover Membership Secretary duties. kd5mcd@arrl.net is her Email address. Thanks for stepping up to the plate.

This Year's Board Members:

President David Wolfe, KC5KJE
 V.-President Dick Stimson, KK5XO
 Secretary Bob Coxsey, KM5GZ
 Treasurer Robin 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

February Board Minutes

Board Meeting Minutes
 February 13th 2001

The meeting was called to order at 7:30 P.M. by David Wolf KC5KJE.

In attendance were: Bob Coxsey KM5GZ, Lee Vaughn KA5WIS, James Brady, KD5EUQ, Tom Harris KD5IOY, Clay Mayrose WA6LBU, Ron McCubbin KC5QCV, Earnest Wolf K5YKD, Dave Storey K0TYC, Larry Traub N5OL, Clara Granger KG5UG, Sharon Thompson KM5GV, Regina Randall KD5MCD, De Stimpson KD5LSK, Curtis Foote KC5GEP, Terry Deas W5WTD, Robyn Price KD5ISC, Dee Mize WD5FHR, David Wolf KC5KJE, Dick Stimpson KK5XO, Steven Christy N5ZQ, Carol Thompson AD6BC, Ken Stepp N5DMB, Nick Jewel K5XMR, Phillip Wolowicz KD5JSA, Chancey Baker KD5JBK.

Officers Reports

Vice President: Dick KK5XO reported that the Dinner meeting will be Saturday night the 17th at the Blue Moon Restaurant in Edmond.

Secretary: Bob KM5GZ asked if the minutes of the January Board Meeting had been read. They had been and there were no corrections. They were voted on & approved.

Treasurer: Robyn KD5ISC gave the Treasurers report. The report was voted on & approved.

Repeater: Dee WD5FHR said the he & Lee KA5WIS went to the ORSI meeting at

Stillwater. They paid the Club's Dues for the year. There had been talk about lowering the fee but it had been tabled. Dee said he would check the Club Station's antennas Wednesday to see if the SWR's were in specs. Lee said that the Club's new call sign will be changed in the repeater books

Emergency Coordinator: Ken N5DBM said that the Storm Spotters Class will be March 6th at 7:00 P.M. He said that there had been a question whether the City would have Storm Shelters open or not. It was decided to open them again this year but they could be closed at any time. The Club has been asked to open the shelters. He asked for more shelter monitors. He said that Club was not liable for anything that might happen in the Shelters. The City is responsible. Bob said that he would announce the need for more Monitors on the Monday Night Net. Lee asked if the EOC was set up. Ken said that it was.

Board Members: Terry W5WTD no report. Carol AD5BC announced that she & Sharon were moving to Texas. Steve N5ZQ no report at this time, Tom KD5IOY no report at this time.

Past President: Curtis KC5GEP said that the way he will have to send things to the C&E formatted differently.

Committee Reports

Net Control: Bob said that Pedro Castillo W5/HR2PAC was moving back to his home in Honduras. Sharon said that Bob had given Pedro a Net Control Certificate that she had made & that Pedro would be able to use it to help get his next upgrade in Honduras.

Web Page: Robyn said that Ed KA8NBN hasn't said anything about the Web Site. Everything was okay.

Health & Welfare: Clara said that Marrion Dollmeyer was out of Special Care. She said Marrion thanks everyone for their prayers.

Calling Comm: Dave K0TYC said that Sherry KD5CPJ hadn't said anything about the Calling Comm. Everything doing okay.

Membership: Sharon said that the Club made honorable mention in the Club 2000 award from the ARRL. The Club was

second in the nation in its category. It will be listed on the Web Site. She said that she will be moving to Texas & Regina KD5MCD will take over as Membership Coordinator. She said e-mail Regina (Randregl@aol.com) when new Rosters are wanted. The Club has two new Members.

CORA: Ron KC5QCV said that Ham Holiday was scheduled for July 27th & 28th. Earnie K5YKD said that the C&E e-mail address was corahams@swbell.net.

Club Station. Dee. No report. Club station okay.

HF: Robyn said that Ed hadn't mentioned anything at this time.

Activities: Dave said that they will try to have field day at Hafer Park. It was voted on to try to get the reservations & was passed. Mitch Park is \$200.00 & the antennas would be too close together. Mitch Park was rejected.

Old Business

St. Patrick's Day Parade: Lee said that the Parade will be March 17th at 1:00. He wants us to meet at Sheridan & Walker at 10:00. Lee passed around a sign up sheet for the Parade. The Parade was last canceled for bad weather in 1986. The React group will stay out of our area. This is Lee's last year. David will take over the Parade duties next year.

Review Comm: Curtis said that he didn't have everyone needed yet but was ready to review. Dee has given Robyn the Club Station Inventory.

Statehood Day QSL's: David asked Dave if the Statehood Day QSL's were ready yet. He said David would need to check with Ed.

Weather Spotting Class: Ken had already discussed this. David asked everyone to attend class.

Float for Parade: Nothing at this time.

CW 5 Net: The Net will start Feb. 14th. It will be on the 147.135 repeater by Johnny KM5GM.

VE Testing: Steve N5ZQ said that he had everything from the ARRL & was ready for the first test session. It will be on the

4th Sat. Feb. 24th at 1:00 PM. He said that it will be put on the Swap & Shop Net & in the C&E. Johnny wants multiple choice for the CW test & the test will be that way. Steve said that he told Johnny that we could help follow up after the CW 5 Net at the Club Station on Tues. & Thurs. nights to help the students study the code.

New Business

Field Day Pins & T-Shirts: David said that the Arrl has T-shirts for field day this year to go along with the pins. David said that there was only one Scholarship application in so far & the form had not been filled in completely. A new form has been sent.

Tom KD5IOY introduced Clay WA6LBU. Clay announced that there will be a Murrah Memorial Marathon Run April 29th. He said they need 40 Amateur Radio operators to help man the length of the run. Reporting time will be at 6:00 AM. There will be 3 frequencies used. It starts at the Bombing Memorial out to the East side Lake Heffner & back for a total of 26 miles. This will be a world class run & already has 500 runners signed up & expects 1000+ more. Contact Clay at (claywa6lbu@aol.com) He asked if the EARS Repeater, 147.135, could be used as a back up. It was voted on & passed. The 146.820 & 147.210 will be the main repeaters used for the run.

Terry W5WTD said there had been some talk about the Repeater Trustee Position changing. He was wanting to know if anyone had heard anything about that & if it need to be discussed. Lee said that he had heard nothing about the trustee changing & that he still worked for Dee. David asked if anyone had anything to add. No one around the room had any comments & the matter was closed.

Robyn said that the old File Express that was being used for the Roster was outdated & asked if she could research something newer. The board agreed.

David asked if the Club had a Historian. Lee said that Edith had done it on her own in the past but not officially. It was tabled for now.

Clara said that the ARRL dues will be increasing.

There was a motion to adjourn. It was voted on & approved. The meeting ended at 9:10 PM.

Minutes written & submitted by:

Robert Coxsey KM5GZ
Club Secretary

Past Activities:

Club Supper for February was held on Saturday night the 17th at the Blue Moon Restaurant in Edmond. Everyone there was full when we finished, and most took a container home. It was a good visit on the Tulsa Hamfest, and just a good in-person ragchew.

Future Activities:

Be sure and check the Monday Night Net, or www.edmondsun.com/cars for updated information on these events.

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

The March Siren Test will be on the 3rd at noon. The April Siren Test will be on April 7th at noon. Storm Season is here. 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. Come try a muffin or a full breakfast.

The club station is open on Thursday nights for general use. Check the repeater in case of really bad weather. Lots of people and lots of visiting and operating.

Don't forget 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 Edmond Storm Spotting Training will be held will be at the Edmond Community Center at 7:00 PM on March the 6th. Whether you want to get out in the storm or not, this is a good introduction to the storms we will encounter here in Oklahoma. It is a good class taught by National Weather Service staff from Norman.

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

The March Club Meeting will be at the Edmond Community Center at 2:00 PM on March the 18th. More information on the Monday Night Net.

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

It began 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. The regular nightly practice and the accountability of the net has led many people to pass the 5 wpm code exam.

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 deepest sympathy to Jason McGee, KB5EYE, wife and family in the loss of his mother Gayle, KB5HXO, who passed away on Wednesday, February 14th, 2001 in Texas. The memorial services were held in Palo Pinto, Texas on the 17th of February 2001. May the thoughts and prayers of your friends and fellow members make this time of sadness less difficult to bear.

Marion Dollmeyer, wife of Clarence, KB5RR, was released from Integrated Specialty Hospital about three weeks ago and is doing better.

Hoe all the rest of you are doing fine and were safe during these latest ice storms.

73 de Clara Grainger KG5UG

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.

Amateur Radio Newsline

The Law: Ham Cop Captures Teens Wanted For Double Homicide

A pair of teenagers accused of killing Dartmouth professors of Hahlf and Susanne Zantop have been captured thanks to an alert ham radio operator. 16 year old James Parker and 17 year old Robert Tulloch who had been on the run from New Hampshire for three weeks when they made the mistake of hitching a ride with a trucker who had a CB radio. ARNewsline's(tm) Jack Parker, W8ISH picks up the story from here:

Deputy Bill Ward, N9RHY, is a second shift road sergeant with the Henry County Sheriff's Department. Interstate 70, one of Americas crossroads, runs right through his eastern Indiana county.

While working his weekend patrol he overheard a west bound trucker on the CB, looking for a ride for two teens hitch hiking to California. Deputy Ward had just seen a TV story about two teens wanted in the slayings of two Dartmouth College Professors.

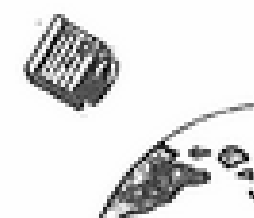
Posing as a trucker, Sergeant Ward said he would meet the boys at the fuel

desk in the New Castle truck stop. Today, two alleged killers are behind bars back in New Hampshire. Thanks to an alert deputy, who happens to be an amateur radio operator with a CB radio.

From Indianapolis, reporting for ARNewsline(tm), this is Jack Parker, W8ISH.

While N9RHY has received many accolades for the capture, the best may have come from some those closest to him. A week ago Sunday, Bill Ward was honored by the church he attends in Anderson, Indiana.

(W8ISH, ARNewsline(tm))



AO-40 Update: Good News

Finally some good news regarding the new AO-40 ham satellite. DB2OS reports on the AMSAT DL home page that one of the birds sun sensors began triggering after the AO-40 came out of eclipse on orbit 147.

Also, that the satellites analogue spin rate is now showing a value of 49. This is the same value it was showing on orbit 89 when triggering was lost. DB2OS says that its expected that the second sun sensor will soon begin triggering as well. Once this happens it will allow satellite controllers to obtain attitude information and then restart the magnetorquing efforts to bring the spacecraft's spin rate under control.

(AMSAT-DL)

DAVID L. NUNN, P.C.

Attorneys at Law

Family Law Bankruptcy
Criminal Debt Collection
General Civil Practice

David L. Nunn, Esq.--KE5SN

17 East First Street
Edmond, Oklahoma 73034
(405) 330-4053



Choctaw Amateur Radio Club

Choctaw Amateur Radio Club (CARC) Regular Monthly Meeting was held on February 19, 2001. At the Eastern Oklahoma County Vo-Tech. 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. Followed by the Pledge of Allegiance. Members introduced themselves for the Roll Call. There were 14 members present.

Reports:

Secretary's report was accepted as published.

Treasurer's report was accepted as given.

YL report - No new members or XYL's checked in.

The president reminded everyone to notify him or the secretary about any illness or death in the family so that the club can send a card.

Old Business:

Don, KB5KWV electric bill, tabled.

The discussion for a remote receiver for the club's repeater was tabled until another tower is erected.

Saturday Coffee was attended by 14 people. The next second Saturday was voted on to be a luncheon. Several places were suggested and voted on. Chuck, KC5EZZ will see if Chequers is available, if not it will be held at the Inner Urban. The luncheon will be at 11:30 on March 10th.

Old Tower pieces - has been sold and taken care of.

Swap Meet - The date for the next swap meeting was voted on and approved for

May 12th. One suggestion to draw a larger crowd was to have a forum.

Vo-Tech Antenna - The Vo-Tech has approved the installation of an antenna. The coax will run thru the vent, and we just need to supply the antenna, coax. Chuck, KC5EZZ; Dave, WD5G; Bill, N9SQV and Toby, KC5DZJ will help on that.

Field Day - Don, N5ENQ has reserved the site for Field Day. Chuck, KC5EZZ had a list of items that will be needed for Field Day, members were to look at the lists and update it.

Radio Classes - After much discussion, this item was tabled to be brought up at another time.

New Business:

CORA Meeting - February 27th - Chuck, KC5EZZ; Bill, N9SQV and Norm, W5FLO will attempt to attend.

VE Testing - With all the testing done on the opposite side of town it might be good to have a VE session in the Choctaw Area. We have three members who are VE's. But it involves a lot of time and effort, so to see if it would be a used in the area, to ask Clarence, WB5IBY to come over here with the Choctaw VE's helping him. Motion was made and seconded to ask Clarence to participate in the VE testing.

Workday for the tower was brought up. Motion made and seconded that we allow up to \$250 to be used from the club treasury for the rental of a trencher and other items needed. Ron, WB9DAF will check on the trencher. He also has rebar. Chuck, KC5EZZ will send out an email for the workday.

Program - GPS Foxhunt - Dave, WD5G asked how many members present have a GPS. 6 held up their hands. He then asked who would drive. He paired up the members. This will take place on March 3, 2001 at 10:30. The coordinates will be broadcast over 147.09+. Dave mentioned to the GPS people to get

familiar with their program and check out the grid squares, and be able to find the latitude and longitude.

Meeting adjourned at 8:34PM

Respectfully submitted

Kay Holzman, KB5VJR
CARC Secretary

Survey: Nbs To Survey Wwv Users

The National Institute of Standards and Technology plans to survey users of its WWV and WWVH time stations later this year. According to the ARRL Letter, the time and frequency-standard stations have been airing occasional announcements about the upcoming poll in order to start building a mailing list of survey recipients. The announcements state that the National Institute of Standards and Technology is seeking information on how listeners use the services offered on the WWV broadcast.

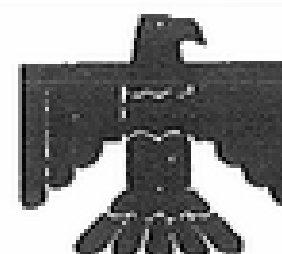
(ARRL)

Science And Technology: Superconducting

It's a scientific discovery that could change the future of telecommunications. This, as researchers announce discovery of a metal compound that can carry electricity with virtually no resistance at a higher temperature than previously thought possible.

The compound is a combination of the metals magnesium and boron. When annealed into a single substance the compound becomes a superconductor at temperatures of around minus 390 degrees. And while this still extremely cold, it is warmer than the previous record for simple metallic compounds of about minus 418. Since superconducting compounds must be chilled to work, scientists are eager to find materials that work at higher, more easily attained temperatures.

(Published news reports)



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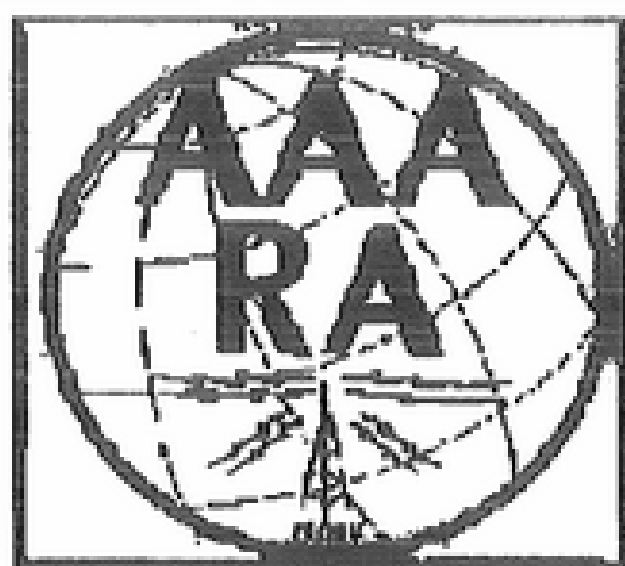
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Altus Area Amateur Radio Association

AAARA February 2001 Minutes Mail:
AAARA, PO Box 8863, Altus, OK 73522-8863.

General Meeting held at SWTC, 711 W. Tamarack Rd., Altus, OK. Thursday, February 8, 2001 7:00pm

The Altus Area Amateur Radio Association was called to order by the Sgt at Arms, Janice, KD5BNO, presided over by the Vice President Mike, W5VXU, with 18 members attending and 0 guests. Minutes taken by Debra, KD5LMW.

The treasurers report was read by Fred, KC5SRJ.

Mike, W5VXU asked at last month's meeting for a volunteer to run this year's Hamfest. No one has volunteered as yet. Asked again for a volunteer, Mike will assist, but cannot run it again this year.

QSL Bureau was discussed. Speak to Mike W5VXU for any questions or concerns.

Fred, KC5SRJ, will be taking over ARRL Book Sales. He will have a book table set up at meetings or you can contact Fred directly if you would like to place an order.

Reminder to keep your ARRL membership up to date. Please consider paying your dues through the AAARA secretary, Debra, KD5LMW, as the club will receive a three dollar rebate.

Ron, KD5CYW, has a survey from the C&E editor for the upcoming Ham Holiday to be held the last weekend of July 2001. Please contact him to complete a survey.

Also Ron, KD5CYW brought up the possibility of Ham operators volunteering to flag crossings and intersections at an upcoming Farm Rail excursion from Clinton to Lake Lugert. No date has been set yet, just something to think about.

Mart Dennis, W5KRG, had Certificates of Appreciation for Frank Martin, K5KCJ for his help in getting Mart started in Ham and for Jerry Rochelle, K5QM, for his encouragement to get involved and continue in Ham. These certificates are available from ARRL, to give to the person or people who helped you along. Contact Charlie Calhoun at K5TTT@tulsa.net for further information.

Mike, W5VXU spoke about MARS. There was a time that they were issuing surplus computer equipment directly to individuals. This practice has been stopped. Anyone who has been issued equipment will be able to keep what they have, but in the future surplus computer equipment will be destroyed.

The AAARA Tuesday Night Roundtable Net will be at 8pm, 146.79. Ron, KD5CYW will be the Net Control. Any announcements can be e-mailed to Ron at kd5cyw@arrl.net, or call him at 482-8446. If you would like to be Net Control for one or more of these roundtables, contact Ron.

There will be a breakfast meeting on Saturday 17 Feb. at 9am. Meet at the new Checkerboard Cafe on Main Street, (across from Bunker Hill, the old Taco Bell building).

Storm spotter training will be held on Tuesday 20 Feb at 7pm at the EOC. Also Greer County will be holding training on Monday 19 Feb at 7pm in the Edison Cafeteria. Spotter training will be a requirement for storm spotters this year.

James, AB5FS, is trying to get a CW class started. It will run one class per week for about 12 weeks. Contact James if you are interested and he will try to get something scheduled.

The next meeting of AAARA will be Thursday, 8 March 2001 at SWTC.

Meeting adjourned 7:45pm

EDITOR'S NOTES: Remember The Following Dates For Local Events:

Testing: The fourth Monday of the odd months: Dates scheduled are March 26, May 21, July 23, Sept. 24, and Nov. 26. Testing begins at 6:30 p.m. at the STC, 711 W. Tamarack Rd. George Mateyko, N1GM coordinates the testing sessions.

ARES check in is on Monday evenings at 7:00. Mart WRG and Robert, W5RRB are the net controllers. The frequencies for check in alternate weekly from 146.640, 146.790, and 147.285.

AAARA Roundtable net is on Tuesday evenings at 8:00. Ron, KD5CYW is net control.

AAARA meetings are the second Thursday of each month and are held at the SWTC, 711 W. Tamarack beginning a 7:00 p.m. The next meeting is March 8, 2001.

ARES meetings start at 7:00 p.m. the fourth Thursday of each month in the basement of the N. Main fire station. The next meeting is March 22, 2001.

Field Day 2001 will be June 23-24 at the road side rest stop on HWY 62, north of Altus just north of the municipal airport. Plan to join us there.

From the President

Well here we are with another month behind us. I managed to be out to town for our first meeting of the "fiscal" year, but I heard (in fact I know) that Mike did a great job taking my place at the podium. I was in New York dodging cars during our meeting. Take my word for it, I'd rather have been here. However, I did have a chance to listen to many of the Ham Radio Operators in New York and Connecticut and Massachusetts. I didn't get a chance to talk to many of them, but I was impressed with their intense interest and curiosity about the radio art. It seemed to me that every time I turned on the radio there was another Ham asking how to improve his system or offering advice on how to make an antenna work better or something related to radio. I'm not really sure what I expected, but I was pleased just to listen and learn. I was even able to listen to a live rebroadcast, over a local repeater, of the Space Shuttle docking to the ISS. I might add that the hand held I brought with me couldn't reach their repeater from

my hotel room and although it could from outside, it's awfully cold in February in New York.

I managed a check-in with a very professionally run emergency net (The Western Massachusetts Emergency Net... I think) while visiting relatives in that area. I've always been impressed with the Ham Radio Operators in Southwest Oklahoma and how friendly they are to Hams that are passing through the area. Hence, I was pleasantly surprised at the warm welcome I received on their net.

The Club Van (MCC) has undergone an electrical renovation. It is now fully wired for 115VAC and 12VDC. An addition of a recreational vehicle style 30 amp cord and 40 amp DC converter makes it possible to park the van, pull the cord from and RV style opening in the side of the van and plug into either commercial mains or a generator. There are also deep cycle marine gel cell batteries that are charged while the van is operating from 115VAC. If commercial or generator power is lost, the batteries will maintain power for lights and communication for a considerable length of time.

Lastly, I'd like to invite the members of the club to consider submitting short articles for publication in the newsletter.

They should be related to Ham Radio in some way and they may be edited for grammar or length. Even if you see an interesting tidbit in another publication, we may be able to use it. Just take the time to get it to me or Lil (you can email it to town@bigfoot.com) and we'll share it with the rest of the members and all who read the C&E.

Respectfully Submitted,
Dale Town, N5VX

Seattle Quake

I'm Bill Pasternak WA6ITF, with an Amateur Radio Newsline instant update.

Dateline Washington state where a powerful earthquake rocked the Northwest on Wednesday, February 28th, shattering windows, showering bricks onto sidewalks and sending terrified crowds running into the streets of Seattle.

At least 25 people were injured, none critically.

The magnitude 6.8 quake hit at 10:55 AM Pacific Standard Time. The National Earthquake Information Center in Golden, Colorado says the temblor was centered 35 miles southwest of Seattle but was felt as far away as Salt Lake City, Utah. It was

the strongest quake to hit Washington state in 52 years and temporarily knocked out power to hundreds of thousands of people.

Normal communications systems were not disrupted but telephone lines were jammed.

According to an ARRL bulletin, there was some need for Amateur Radio communications. We came across this Salvation Army Team Emergency Radio Network or SATERN Net on 14.265 MHz handling health, welfare, structure damage and road closure information:

Being just out of groundwave range from Seattle we could not hear many Washington State stations. But the ARRL says that State RACES officer Jim Sutton, WA7PHD was the Net Control Station on the Washington State Emergency Net. As we go to air that net is operating from the State Emergency Operations Center at Camp Murray.

Also, ARES volunteers in King County were active on an emergency VHF repeater with several other county ARES nets active as well.

Meanwhile Washington Governor Gary Locke declared a state of emergency. This freed up state resources and cleared the

way to request federal aid.

For the Amateur Radio Newsline(tm), I'm Bill Pasternak, WA6ITF.
(Newsline, ARRL, SATERN)

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			



South Canadian Amateur Radio Society

Norman, Oklahoma

With regrets we wanted to let you know Jerry Broudy, W7DAD passed away Thursday March 1, 2001 at Norman Regional Hospital. We have no other information at this time. I understand he will be cremated. SCARS will be sending flowers/plant.

Vice President Ed, N3US called the meeting to order in the absence of President Tom, KD5ENL. 35 members were in attendance with more to come. The VE team had 13 people readied to test so Ed moved ahead quickly to give them as much time as possible.

Treasurer Jeff, KT5OK made a last plea for members who have not yet paid the 2001 dues to do so quickly or risk missing out on the C&E. Not counting money in hand this morning we had money in the bank. Jeff also read a letter received from the Red Cross that both thanked all volunteers for their help with the recent ice storm disaster and told of the toll it took on them from a personnel and financial standpoint. Jeff moved that SCARS make a \$100 donation to the local chapter. It was seconded & approved.

With the resignation of Roger, KC5ILL our Repeater Trustee we needed to name a replacement. After discussion Jeff, KT5OK volunteered to this position and it was also suggested that the call sign trustee position for W5NOR also be transferred to his name to simplify things. Many thanks to Jud, W5JA for his efforts to secure that call for the club.

Field Day will be here again before we know it so a committee of Lewis, KC5ABI; Gayland, KC5MMU and Duane, KD5IDF was established to look into the site selection. The city of Norman is to start charging for the use of Reeves Park.

We could possibly get a waiver on this but other potential sites of the Red Cross and National Weather Service will also be looked at.

Mike, N5SOF gave a report on getting some new Club shirts and jackets. Anyone interested contact him for an order.

Brett, WA5NWS reported on the status of the OU Amateur Radio Club and their efforts to get a club station set up in Wilson Center.

Gayland, KC5MMU announced the Sky Warn Storm Spotter training class that will be held at the US Postal Service Marriott east of Norman on March 3rd from 10:15 to 12:15. This class is free but is held in conjunction with a National Severe Storm Workshop and Conference, which lasts all day and costs \$20. You should register in advance and may do it online at

<http://www.nssl.noaa.gov>.

Keeping in the Storm Spotting mode he also announced that the Weather Service Spotter Net will use the 145.410 Repeater (Tone 141.3) during activation. Our repeater will be available for local reports as usual.

Tim, WA5LTM suggested that we set aside time after the club meeting in April for a "Mobile Readiness" session.

Those interested can discuss the things that should be in your vehicle to help in responding in time of emergency and advice/assistance in installing any radio gear etc will be available. In light of this the VE Team will NOT conduct testing that day. April 14th, so make note if you think you might be ready for testing by then.

The meeting was adjourned and the VE Team commenced testing, when over one advanced to General and 11 became Technicians. Congratulations and good luck to all.

Bill N5UMH
Secretary



Cancellation Of Testing Session

The April 2001 VE testing session normally held monthly at the conclusion of the SCARS Club meeting on the second Saturday is cancelled.

This will allow for an extended meeting for members to discuss preparations for the tornado season and emergency action procedures.

Jim Copeland, NW0K
Team Liaison

Conventions And Hamfests: Japan - Hamfair 2001

On the convention scene, get ready for the Japan Amateur Radio League's largest and most popular event. It's the annual "Amateur Radio Festival better known as Ham Fair. Ham Fair is the Pacific Rim's rival to our Dayton Hamvention. This years Ham Fair will be held from Friday, August 31st. through Sunday September 2nd. The venue is the Pacific Convention Plaza in the city of Yokohama. For more information contact the:

JARL, Shobara Post Office, Shimane 699-0588, Japan
(JARL release)

Conventions And Hamfests: Charleston, Wv

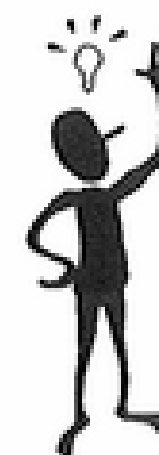
Closer to home, the 17th Annual Charleston West Virginia Area Hamfest and Computer Show will be held on Saturday, March 17, 2001 at the

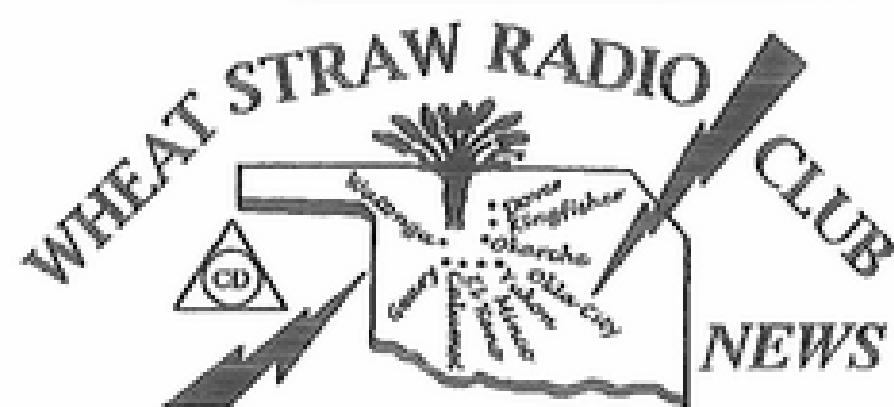
Coonskin Armory, 1707 Coonskin Drive, Charleston, West Virginia

DX-C card checkers available to check QSL cards that meet field checking requirements. Talk in id on the W8CHF, 145.35 repeater. For more information, E mail the Charleston Hamfest President. That's ARNewsline's(tm) own Jim Damron at:

n8tmw@arrl.net

(N8TMW)





Wheatstraw Amateur Radio Club

Leo, WZ5H sounded the gavel at 1:30, gave a prayer, and then we all had refreshments before the meeting. As usual, we had too many refreshments. I think there was enough food for three meetings. The food was good.

At 2:30, Leo, WZ5H called the meeting to order. Introductions were made by each person present. We had three visitors: Ron Clinton, WD5HUT and his wife, and George Atkins, WD5NCF. There were nineteen present, a good crowd. It was good to have Olive, N5IXN back with us. Olive has been unable to drive. Rusty, KD5KDG was also back.

The first thing on the agenda was Ralph, WA5PFK reading the article Hal, KB1ZQ wrote in the CORA newsletter about proper formatting of articles submitted. Ralph fully agrees with Hal, but he said he did not have a computer to prepare the Wheatstraw news properly prepared for printing. Furthermore, Ralph does not have the knowledge to use a computer. Ralph asked the club what he should do. There were others in the club who could do it correctly, so he suggested they replace him as editor. No one volunteered. Ralph, WA5PFK said he would tell Hal he would try to figure out ways to save the CORA editor time.

The minutes of the previous meeting were read and approved as read. The problems caused by the large ice storm were discussed. The antenna at the club repeater located northwest of Calumet was split. The repeater can not be used for net controls. Since members are scattered out, many can not participate in net.

The club voted to get a better and heavier antenna to replace the old antenna. AB5Z made a motion for the club to buy a DB 224 antenna. NEAL, N5KCO seconded the motion. The motion carried. Joe.

WA5FLT said he can still climb the tower and the antenna can be pulled up by rope. Jim, W5JEP is to order the new antenna.

A trip to tour the Severe Storms Labs in Norman was discussed. All the facilities toured would be indoors. The club thought it best to wait until later due to weather conditions.

I was asked to print in the C&E that the motion was made, seconded, and passed sometime back that the club would have refreshments at 1:30, then start the business meeting at 2:30.

The next meeting will be March 11, 2001, in the City Hall at Calumet, OK. From the four way stop in the middle of town, go one block south, and turn right. The meeting will be in the first white building west of the mini-stop on the corner.

The April 8, 2001, meeting will be at Dover ten miles north of Kingfisher. The meeting will be in the fellowship hall, first door east of the Christian Church. If you come from the south, turn right at the north side of the Post Office. If you come from the north, turn east on the north side of the Post Office.

Every one is welcome to the meetings. Remember refreshments are served at 1:30. Meeting adjourned.

Ralph WA5PFK

The Life of Stu and Alice Stewart

Alice's parents Gertude Burrows and James Oscar Legrande were married in 1915. Their first born was a girl named Edna. Alice was born September 9, 1920. The girls had three younger brothers.

When Alice was eighteen months old, the family moved to Fresno, California. Her daddy worked at digging irrigation ditches and harvesting grapes. James stirred the raisins with a fork. When he came out of the building, he would scrape raisins off his shoes. After two years, James moved his family back to the farm in Oklahoma.

As Alice grew a little bigger and older, she started helping with the family chores. She attended the Chappell Garden School, walking to and from. The family moved a few times. They were glad to come back to Oklahoma.

Alice's father planted sugar cane. When it was ready to make molasses the kids all stripped the blades off so they could cut the stalks down. Then they hauled the stalks to the sorghum mill. The mill was under a large oak tree on the banks of Coon Creek. When the cane was run through the mill, it was a clear sweet juice. It had to be put into a large vat and cooked to make it into molasses. The Legrande children took gallon buckets to the mill, poured them full of molasses and took them to trade days in Guthrie.

Mrs. Legrande had a wood Home Comfort range. She baked eight large loaves of bread twice a week. The children came home from school walking a mile and a half each way. She had churned fresh butter and made a molasses cake. Oh! Was that good eating. Alice would hoe corn of a morning. After dinner, she went to a fishing hole close by. She met a colored lady fishing. She dipped snuff and spit on the bait to draw the fish to take the hook.

The Steward's grandfather Legrande came out from Guthrie and had a watermelon patch each year with the grandchildren's help. They grew large melons. Grandfather took melons to his friends in town. That was a big treat for Mr. Legrande's friends.

When a farmer had an orphan calf or pig, he would give it to Alice to raise. A blind calf was given to her; she named him Herman. Although he was blind, he would go around ditches instead of falling in. Herman grew up to be a large steer.

Alice soon went to work for an elderly couple a mile away. Alice would walk to work, did the washing on the old rub board, mopped the floors, ironed the clothes, etc. When her day's work was done the elderly gentleman would take her home in his Model T Ford. Oh, yes, her wages were 50 cents a day. The lady gave her scraps for her first quilt. The couple moved to Meridian and that ended her job. Alice then lived with the Morgans and worked on their dairy farm for \$2.50 a week with room and board.

Lorne M. Stewart was born November 27, 1916. The family lived six miles west and two miles south of Mulhall, Oklahoma. The farm was a part of the land his grandfather staked in the land run of April 22, 1889. Everyone called him Stu.

After World War I, the family had a farm sale, selling everything but furniture they shipped to Arkansas. They loaded up the covered wagon, hooked up the horses, and headed for Arkansas. It took them 30 days to get there in the wagon. His father always managed to camp by a spring or stream each night. Mr. Stewart would stop at midday to feed and water his horses. That was a new experience for Stu and his sister. The Stewart family bought a farm near Maumee, Arkansas. They lived at Gilbert, Arkansas, while Mr. Stewart and some neighbors cut timber, hauling the logs to a sawmill. After the logs were sawed into dimensional lumber, a new house was built on the farm near Maumee. The lumber was good pine.

The county line ran along the north side of their farm and that county bordered Missouri. Maumee was named after the Maumee Mining Company. They mined lead and zinc. It was a thriving little town. The mines played out; then it was almost a ghost town. Many buildings were left empty. They had a large hotel, post office, stockyard, and a large two-story schoolhouse. Stu and his sister started to school there. Stu recalls one time a boy and girl came to school with two silver dollars, which was unusual. The times were hard and most kids were lucky to have just a nickel. The teacher asked the children "where did you get the silver dollars?" The teacher said "they are not counterfeit because they ring." The children said, "Uncle Joe makes them by melting nickels, and he puts ground glass in the melted silver to make them ring." The teacher said, "I don't believe you should tell every one that."

While living in Gilbert Stu saw his first radio. The town doctor bought an Atwater Kent radio. The radio ran on batteries. One was a 6-volt car battery that had to be charged every two hours. The doctor would put the battery on the train, sending it to the next town, which was Saint Joe. The battery was charged, but one time they forgot to put it back on the train. The backyard would fill every Saturday night with people to listen to the country music. That Saturday night, the back yard was full of people. The doctor came out saying, "I'm sorry folks. I sent the battery to Saint Joe and some one forgot to put it back on the train. No music tonight." Soon a person showed up with a fiddle, then came a banjo, then a guitar. Shortly, four men

came out of the house carrying the doctor's wife's piano. Man, the town really came alive.

Stu said, "There were not many cars around those days." About the only people who could own a car were doctors and bootleggers. People either rode a horse or walked. Doc Roberts over at Gilbert had a saddle horse, a buggy and buggy pony, and two Model T Fords. Stu got acquainted with the two men Doc had hired to learn how the Model T's worked. Stu always had a curious mind; some of the time it got him in trouble.

Stu's first term in school was a subscription school. The cost was \$1.00 per student for the three-month term. The teacher was a local girl who passed the eighth grade. He made his first radio in grade school at the age of 11. It was a crystal set. He would hide the radio in his desk, listening with a single headphone. There were not many stations strong enough to listen to. When the teacher would catch him, she would take the radio away from him. Seemed she always got the crystal detector out of place. It would take some time to return the detector. Stu had a long wire antenna from the outhouse to the school building. It went under the schoolhouse floor and up through the floor to his desk.

Stu learned the Morse code when he was in boy scouts. In the late twenties and early thirties, he hunted rabbits and squirrels for sport and meat.

The Stewart family moved back to the Mulhall area in 1928. After four years, the Stewart family moved to the Meridian community. There is where Stu met a pretty redheaded girl. Struck by a bolt of lightning, Stu fell in love with Alice, whom he married in 1939. Stu took a course in electronics and TV and radio repair. He also studied broadcasting engineering. Stu kept books for a cotton gin. In a back room he worked on radios and TVs. He sold Atwater Kent radios.

Stu and Alice moved to seven miles west of Mulhall, where they had always lived. They ran a gasoline station, had a garage, sold groceries, and had two electric welders when highways 51 and 74 were first paved. Besides being a housewife, Alice was always helping Stu work with the cattle, gardening, and canning fruits

and vegetables. She helped to pull engines out of vehicles, overhauling, or replacing crankshaft assemblies. Some times, she would feed the stock cattle by herself.

Stu and Alice were also involved in amateur radio. They made their own antennas and put them up. Alice climbed the tower to work on or install an antenna up until recent years. She has quit that. She ground the wheat to bake their bread. The two were an amazing couple; always keeping busy with something. They were also busy raising their family and making a living. Stu did not get his ham ticket until about 1958. He had an Extra Class. Alice now has an Extra Class; her call is WA5UEW. Their two sons were never interested in amateur radio. Their daughter Velma got her license in 1958. She has a General license with call WA5UJO. Many of the OSU students at Stillwater enjoyed the privilege of talking to the Stewarts. One told me he had never "eyeballed" either of them, however.

On August 31, Stu and Alice took the riding lawn mower over to the other farm where the stock cattle and the winter hay were. There was an electric fence around the large bales of hay to keep the cattle from getting hay. A spark of unknown origin set the grass on fire. Stu got the mower back and fought the fire with all his strength. Alice jumped into the pickup, driving back home to a telephone to call the fire department to put the fire out. On the way back over to the fire, Alice met Stu on the mower driving it home. It was too late; the hay was gone. The big tragedy was that Stu had 2nd and 3rd degree burns. He was taken to the Baptist Burn Center where he stayed for over six weeks. His son Ivan stayed with him all the time. His daughter Velma stayed with Alice. Wheatstraw members in the calling area of 405 would check on Stu's progress. Then they would get on their radio and pass the message on to other members. If we could not get some of them, we called by telephone. Stu developed pneumonia and had three different blood infections. He was too weak to overcome it all. Stu passed away on October 16. May God be with the family and friends through their sorrow and grief. May Stu's soul rest in peace through eternity.

Ralph WA5PFK

Antenna Discussion

By Jerome Doerrie, K5IS

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Tri-State Amateur Radio Group

Antennas hold a special place in the heart of a Ham radio operator. The shortage of accurate facts does not limit the discussions, so understanding antennas is compounded by all the lies that are disguised as truth. Experience is a good teacher, but sometimes the lessons are a bit embarrassing.

In 1975 I attended my first Central States VHF Society conference, which was held that year at Western Hills Lodge near Tulsa. Most of the members of the society are side band or code operators intent on working stations beyond the normal range on the VHF/UHF bands. At this time I had plenty of misconceptions and a Drake shoulder strap portable 2-watt FM rig. I did not realize how hungry I was to learn until I attended a feast of technical presentations and saw an antenna testing party. The journey towards enlightenment, while fun, has had a few ups and downs.

A couple of years later, the July issue of *73 Magazine* had an article about a LaPort Rhombic antenna that supposedly has 27 dB gain. The Central States conference was the following month in Kansas City, so I packed my shirts and clean underwear and the important things: materials for building this antenna at the hotel. The antenna looks like the skeleton of a kite: a long stick for supporting a cross arm. About 15 feet long and 4 feet wide, it was a little awkward to build in the room! Wire tied on the ends of the sticks forms a diamond shape for the rhombic. This design called for two diamonds side by side with about 2-foot separation. Since the antenna was fed with 300 Ω twin lead, a transformer was made from two TV tuner peaking coils transformed the 300 Ω down to the 50 Ω required on the test range. Off I went to enter it in the 1296 MHz contest. It seems that maybe there was a misprint in the article. Someone had left off the minus sign! This contraption exceeded the ability of the equipment to measure its loss factors. This wasn't exactly the record that I had in mind. My record for a non-radiating dummy load has stood for over twenty years! It attracted more attention than I wanted at that moment. Al Katz, K2UYH from New Jersey, and John Kirkman, W4WDH from Georgia, performed an autopsy of the antenna on the spot. They removed the peaking coil matching unit, and with brute force they connected the 300 Ω wires to the coax connector, yielding performance as good as a dipole antenna. John fetched some aluminum foil from his camper and wrapped a chunk around the 300 Ω twin lead. Sliding the foil up and down the feed line, the antenna became as good as a four-element beam! However, a coffee can with a $\frac{1}{4}$ wavelength wire stuck in it has more gain than this. You can't trust everything in print.

Over the years, antenna materials have been hauled under the car, carried on top, and even inside the car. As the kids grew bigger, it was necessary to give up on hauling antenna stuff inside! (Needless to say, the family did not share in my passion for antenna testing.) My favorite antenna is the Quagi design by Wayne Overbec, N6NB. He was using a 7 element commercially designed beam for 2 meters that did not perform as he thought it

should. He set up a test range on the beach and proceeded to evaluate the antenna. By changing the gamma match driven element to a quad, he had a 3-dB increase in gain. Working with the element spacing and lengths he gained another 3 dB. This design from the ARRL *Antenna Handbook* is easy to reproduce and performs well. I had used one for 10 years on 432 MHz. The wooden boom had warped and the elements were very corroded! I took it to the conference in Kerrville, Texas, where it still was good enough to receive first place! Not bad for a \$15 antenna!

In the summer of 1961, ten meters was hot with short skip openings. The tube transmitters needed to have a series of steps of peaking this and dipping that to change bands. Thoughtful operators pretuned using a dummy antenna, and many of us used light bulbs. They were cheap and plentiful. We soldered the coax shield to the side of the base of the bulb and soldered the coax center lead to the center bottom. A PL-259 connector was put on the other end of the coax. A station in California heard me tuning up and we had a QSO. He never did believe that I was using a light bulb as my antenna!

Recently a friend called, "My 2 meter antenna has lost 2 and $\frac{1}{2}$ elements. Do I need to get it repaired soon, or can I wait for warm weather?"

"Is the SWR ok? Can you still hear stations? Can other stations hear you? If the answer is yes, then wait for nice weather for repairs."

The most important element is the driven element. Without it, the antenna will not work! Everything else is optional. The reflector keeps signals from coming or going on the backside. The directors clean up the lobes of the antenna and focus gain in the front direction. A good rule of thumb is to make a reflector 5% longer than the driven and make the first director 5% shorter than the driven and each director is 5% shorter than the last one. The elements are spaced .15 or .2 wavelength apart along the length of the boom that holds the elements in place.

To double the gain of an antenna, double the number of elements (boom length). Sometimes it is easier to double the gain by stacking two antennas. Starting with one element, in order to double the gain; add another element for \approx 3-dB gain. (It is closer to 2.8 dB, but is easier to compute by rounding to 3.) Doubling the number of elements to 4 adds 3 dB for a total of 6dB. Adding 4 more elements for a total of 8 elements adds 3 more dB for total of 9. If you see someone claiming above 9 dB gain for a 4 element HF antenna, you now know that the truth is being stretch!

Sometimes, the test ranges cause misleading results. Once, we had "range compression." On 2 meters my little 3-element quad tested better than 10 and 14 element beams. The best signal spot was about 2 feet off the ground, which caused the beams to detune. The quad better tolerates being close to other objects so did not detune. I was fun teasing the others about my super quad's better performance! Sometimes, the results from an antenna range is also wrong. It is wise to be skeptical and seek results from many testing sessions and from different ranges.

Any time spent studying the ARRL *Antenna Handbook* is time well spent. On line, check out <http://ccbik.com>. If you get the chance, attend an antenna contest. It is lots of fun!

Tri-State Amateur Radio Group 2001 Hamfest & Eyeball QSO



Saturday April 7 from 8am to 2pm

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Duane Henderson at 580-994-2223

Jay Kruckenberg at 580-994-2751 or

Jim Hand at 580-994-6118

or e-mail at w5okt@arrl.net





Oklahoma City Autopatch Association

Minutes of the 20 February 20, 2001
OCAPA meeting

The President of OCAPA Mark Hamblin, WL7FT opened the meeting, 22 members were present.

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

Treasures report was read and approved.

Technical Committee - Mac, K2GKK brought up the possibility of putting a DTMF tone on the repeater. The membership discussed a test a tone test sometime in the future. (OPEN)

ARRL News - Dave, NE5S discussed the ARRL dues increase. Hal, KB1ZQ discussed the benefits of OCAPA becoming an ARRL affiliated club. (OPEN)

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

Old Business - Mark, WL7FT discussed the current status of the Club Website & News reflector. Progress is being made. URL was passed to club members for their review. (Open)

OKC Memorial Marathon - Clay, WA6LBU and Mark, WL7FT discussed the plans for the marathon. Sign up sheet was been passed around; approximately 20 members signed up. (NOTE this event will require about 40 Amateurs. (Open)

New Business - Mark, WL7FT talked about the club general membership needing to get involve with club projects. There seems to be a few members that are willing to dive in and contribute.

Meeting was adjourned at 2020L.
Jim, N5OHL brought video on the Clipperton Island Dxpediton for the club to view. Thanks to Jim, N5OHL and John, WB5SYT for the use of the video.

Respectfully Submitted

Clay Mayrose, WA6LBU/5
OCAPA Secretary

!!!!!! QST QST QST !!!!!!! MEETING LOCATION CHANGE

Our Salvation Army Sponsors are redecorating the district Headquarters. Since the lower level of the building will be used for office space during the next few months they have graciously offered the use of the Salvation Army community center on SE 44th St. as an interim alternate meeting place. Problems with this location should be directed to WL7FT at WL7FT@AOL.COM or call me at 650-9976.

In addition to this, The Salvation Army/Club station is going to get a facelift! After the Saturday morning net in March. We'll be needing a few people to help rearrange, and reorganize the Comm center by moving everything 3 ft from the walls. Please jump in and come by to help. It would be greatly appreciated.

Mark Hamblin, WL7FT/5
OCAPA President

Electricity Crunch: "More Power Captain - And Maybe Some Hams!"

If the lights go out due to a lack of power the nation could need more than just a few good hams. This as a government agency warns of possible rolling blackouts as the nations energy crunch deepens. Meantime industries that rely on electric mains power have met to discuss the problem.

High-tech companies at a recent Silicon Valley energy summit are concerned that the current California's energy crunch could spread elsewhere. This, after the United States Department of Energy and energy experts in several of the nation's largest electricity-consuming states warned that the possibility of extended blackouts looms large this summer and next. This could mean a potential loss of billions of dollars to high-tech firms that rely on uninterrupted power sources.

A Department of Energy report says that the reliability of our nations electric grid is

faltering. It warns the Silicon Valley, that's the region near San Jose, California -- that it -- and other regions of the country should be on alert for power shortages in coming months. This is because increasing energy needs also have taxed utilities' equipment across the nation, resulting in widespread power outages such as two extended outages last summer in Chicago and one in New York.

If this happens, hardest hit will be corporations that depend on the Internet. According to another report delivered at the conference, computers and computer peripherals now consume about 13 percent of all the nation's available power. Back in 1993 that was only 1 percent. This has grown as the world wide web becomes the preferred method of communicating with one another and conducting certain types of business.

The conference concluded that quickly building more power plants while preaching consumer conservation is a good interim and long range solution. But some businesses say that pushing conservation will take people away from their computer screens and impact negatively on the growth of web based retail trade. As one participant put it: "We need 99.9999 percent reliability for e-commerce." Others say that nothing else will do.

What if the power does go out this summer? Well, it could fall on hams equipped with battery or solar powered gear to keep communications going in some parts of the country. And while ham radio was not invited to take part in the conference, those hams who read the report in their local newspapers are telling their fellow amateurs to be prepared.

(Adapted from Energy Today release)

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Enid Amateur Radio Club

(EARC) Minutes – Thursday, February 22nd, 2001

President: Dean Feken-KL7MA

Vice President: Sam Cotter-KD5EUS

Treasurer: Dwayne Posey-KC5QVS

Secretary: Tim McAnally-KD5KTB

With sadness we report the loss of:

E. RICHARD STRICKER

24 Jun 1944 - 25 Feb 2001

The funeral for E. Richard "Dick" Stricker, 56, was 11 a.m. Wednesday at Henninger-Allen Funeral Home Chapel.

Dick was our club trustee and editor for many years in the Enid ARC.

Notes From the Secretary: Tim, KD5KTB We held our annual President's Chili Supper prior to our meeting at the Union Hall in Enid. We had over 46 present at the supper, which was enjoyed by all. I must report that we have some excellent chili makers in the club. This was my first time to attend the annual supper and was glad I did.

As we start another Technician class, I would like to give a very big thank you to Dean Feken, KL7MA for taking the time to teach these classes. He is doing an outstanding job as demonstrated by those who have taken the tests.

I would like to ask each of you to put Dick Stricker, NJ5S in your thoughts and prayers. He is currently in room 412 at St. Mary's Hospital in Enid.

Minutes of Meeting:

President Dean, KL7MA called the meeting to order at 7:24 PM Thursday, February 22nd at the Union Hall building. Everyone was welcomed and introduced themselves and their families or friends. Dean made a thank you for the Great Chili!

Al, KD5BA made a motion to approve the minutes from the January meeting as published in the C&E and John, KA7GLA

2nd the motion and the minutes were approved by the members.

Treasurer Report: Treasurer Dwayne, KC5QVS could not attend the meeting. We have money.

Training Report: Dean reported that there would be a new Technician class beginning Saturday, February 24th at the Salvation Army building. Future classes will be each Saturday at the Red Cross building as usual. The class begins at 9am and ends at 11am. Anyone interested in new license or upgrade classes need to contact Dean. There are currently between 8 and 10 people scheduled for the Technician class. Books can be bought at Wheat Capital Communications – See Dwayne, KC5QVS. Dean asked that the first 60 questions be reviewed prior to the class on the 24th. Dean also asked anyone who could help with the classes to please contact him. It was also reported that the previous classes were very successful. There has been 100% pass that attended the class and took the test, both the previous Technician and General classes.

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 can not be tuned properly for the frequency because the antenna is not cut for the Amateur frequencies. Solutions were discussed. Darren, KM5BQ has built a Motorola repeater for the 145.29. We will setup 145.29 at Johnson's and test it for 30days and if all goes well will then move it to the North site and link to the 444.4. A new harness will cost about \$175.00. Dan, KM5DH made motion to purchase a new harness and Al, KD5BA 2nd the motion and the members passed it. Procedures for replacing the North tower antenna were discussed. A Perry repeater for 70cm was discussed. Would be an alternate repeater for the Weather service system in our area as well as Ponca City and other areas. Club will ask Ponca City club for help in putting up a repeater in Perry. Each club may be able to help each other in this effort. Will also discuss plan and expense for another tower climb at the next meeting in March. We do not

expect to be ready for another tower climb until after the March meeting.

Other Old Business: ARES and Red Cross: John reported that the ARES statewide group is doing very well with several new EC's. Several areas are becoming very active. Red Cross will be having classes soon which will be required for ARES members. A booklet has been created and will need to be reviewed prior to any certifications. See Michelle at the Enid Red Cross for the Booklets.

Dean reported on the IRS Section 501 Certification for Tax Exempt Status. A CPA is working on the paperwork but no new status at this time. Because our operation income is low, we may not be required to pay a fee for the new certification.

New Business:

Sam, KD5EUS is leading an effort to do Amateur radio demonstrations at schools or other organizations.

Planning needs to begin for the June Field day. Bill, KC5OKG made motion to have the field day at the Crosslin Park. Sam 2nd the motion and the members passed it. Sam will chair a committee to plan for the field day activities.

Al indicated the March of Dimes event is scheduled for April 28th and the TriState Parade is scheduled for May 5th beginning at 9:30am. Al provided Tim with other event dates for the year so they can be published.

Enid EARC 2001 Calendar of Events:

04/28/2001, Saturday, March of Dimes Walk America 2001

05/05/2001, Saturday, Tri-State Parade

06/23/2001 - 06/24/2001, Saturday - Sunday, Field Day

07/04/2001, Wednesday, Enid Symphony & Fireworks at Meadowlake park

08/04/2001, Saturday, YMCA Triathlon

09/15/2001, Saturday, Cherokee Strip Parade & possible 5K run

11/23/2001, Friday, Enid Lights UP the Plains Fireworks

Curtis, KD5GQV provided an update on the web site development. Everyone is

invited to provide input on what they want to see on the EARC web site.

John is acting historian for the club and is currently collecting any historical information about the EARC. This information will be very helpful to future flyers and website publications. If you have any history on the club, including articles, pictures, etc. please contact John, KA7GLA or any club officer.

John informed the club that Dick, NJ5S was in the hospital at St. Mary's.

Fred, WA5OU - made a motion to adjourn. Sam, KD5EUS - seconded the motion.

Dean, KL7MA adjourned the meeting at 8:15pm

Respectively submitted by Tim McAnally, KD5KTB EARC Secretary

Other EARC Committee activities:

The first meeting of the EARC Repeater Working Group was held Saturday February 10, 2001 at the Garfield County Red Cross EARC Club Station. In attendance were the following members of the Working Group;

John Turner, KA7GLA; Darren Durheim, KM5BQ; Greg Veit, KD5MFY and Dean Feken, KL7MA

Many subjects were discussed including the mission of the EARC RWG, state of all machines, repair and maintenance of existing systems, replacement of the same, alternate location of machines and near term additional requirements.

We concluded that the 145.29 MHz machine need to be addressed immediately (ASAP). Apparently the antenna is "cut" for the wrong frequency. KC5QVS has a Db222 that is tuned for about 150 MHz. We will look at it as a possible replacement for the Johnson site. We believe that it will function for our needs. When the antenna is replaced we will also replace the GE machine with a newer Motorola machine that was built up by KM5BQ. We plan to operate the .29 machine as "stand alone" (single site) for

about a month, or until we can get the antenna at the North Site repaired.

In October we replaced the hard line at the North Site. Unfortunately it was later discovered that the antenna had failed. Failure was likely due to either bullet holes, or a defective phasing harness. An additional antenna needs to be located, and a new phasing harness procured for this site. This repair will require a tower climb (\$500). Current plans are to have an additional antenna on the ground (possibly the one from Johnson's), and a phasing harness available. Upon the removal of the antenna we will either, repair the antenna and reinstall it, or replace it entirely. Once the VHF antenna problems have been taken care of at the North Site, we can co-locate the VHF and UHF machines and link them without the use of an additional RF link.

Eventually we would like to use Johnson's Elevator site as a site for a UHF machine (443.6 MHz) with a link to OK-CD (145.410 MHz). This provides an alternate connection to NWS in time of a weather emergency.

Other issues discussed at the meeting included "spurs" coming from the .29 machine, alternate location for UHF machines, and recently invoked limitations on power and antenna height on VHF by coordinating authorities.

Action items are as follows; Darren, John, and Greg round up and identify antennas available to the club for repeater use. Measure and record VSWR vs. frequency of these antennas with some identifying number (S/N?). Install Motorola machine and appropriate antenna at Johnson's Elevator site.

The next meeting will be scheduled sometime after the next regular club meeting.

Enforcement Problem: Offshore Intruders

Another problem facing ham radio is intruders into our bands and the last few weeks have seen a fare share of them. ARNewsline's(tm) Bruce Tennant, K6PZW, has more:

Among the most prominent appear to be a group of missionaries in Tanzania who have been heard operating SSB on 7.005 and 7.020 Mhz in the 40 meter band.

Also heard on 40 meters by monitors across the South Pacific were stations from an agricultural estate in Kigoma on 7.022 MHz, the Tanzania Electricity Supply Company on 7.045 MHz and Tanzanian military on 7.078 MHz. Topping it all off is a safari guide company heard chatting away on 7.096 MHz.

But that's just the start. Monitors have actually discovered mercenary armies in Somalia in the 15 Meter band. Also, Catholic mission stations in operating 20 and 15 meters from the Democratic Republic of the Congo, and a number of family nets in Lebanon operating between 21.000 and 21.140 MHz. This latter group appears to be youngsters talking to home to their moms and dads.

For the Amateur Radio Newsline(tm), I'm Bruce Tennant, K6PZW, reporting.

What can you do about this kind of illegal operation? Listen to it. Tape it. Document the time, date and frequency where it was heard. Then send all your data to your nations Intruder Watch coordinator. Here in the United States that's the American Radio Relay League.

(Q-News)

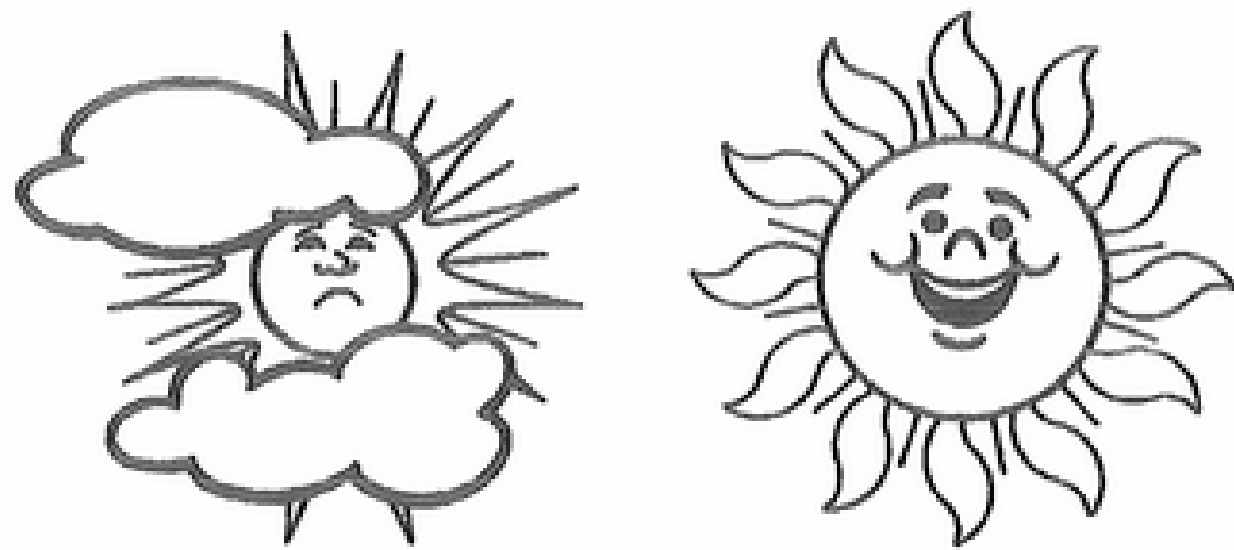
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The Sun Does a Flip

NASA scientists who monitor the Sun say that our star's awesome magnetic field is flipping -- a sure sign that solar maximum is here.

February 15, 2001 -- You can't tell by looking, but scientists say the Sun has just undergone an important change. Our star's magnetic field, which extends through the distant reaches of interplanetary space, has flipped. The Sun's magnetic north pole, which was in the northern hemisphere just a few months ago, now points south. It's a topsy-turvy situation, but not an unexpected one.

"This always happens around the time of solar maximum," says David Hathaway, a solar physicist at the Marshall Space Flight Center. "The magnetic poles exchange places at the peak of the sunspot cycle. In fact, it's a good indication that Solar Max is really here."

The Sun's magnetic poles will remain as they are now, with the north magnetic pole pointing through the Sun's southern hemisphere, until the year 2012 when they will reverse again. This transition happens, as far as we know, at the peak of every 11-year sunspot cycle -- like clockwork.

Earth's magnetic field also flips, but with less regularity. Consecutive reversals are spaced 5 thousand years to 50 million years apart. The last reversal happened 740,000 years ago. Some researchers think our planet is overdue for another one, but nobody knows exactly when the next reversal might occur.

Although solar and terrestrial magnetic fields behave differently, they do have something in common: their shape. During solar minimum the Sun's field, like Earth's, resembles that of an iron bar magnet, with great closed loops near the equator and open field lines near the poles. Scientists call such a field a "dipole." The Sun's dipolar field is about as strong as a refrigerator magnet, or 50 gauss (a unit of magnetic intensity). Earth's magnetic field is 100 times weaker.

When solar maximum arrives and sunspots pepper the face of the Sun, our star's magnetic field begins to change. Sunspots are places where intense magnetic loops - hundreds of times stronger than the ambient dipole field - poke through the photosphere.

"Meridional flows on the Sun's surface carry magnetic fields from mid-latitude sunspots to the Sun's poles," explains Hathaway. "The poles end up flipping because these flows transport south-pointing magnetic flux to the north magnetic pole, and north-

pointing flux to the south magnetic pole." The dipole field steadily weakens as oppositely-directed flux accumulates at the Sun's poles until, at the height of solar maximum, the magnetic poles change polarity and begin to grow in a new direction. Hathaway noticed the latest polar reversal in a "magnetic butterfly diagram." Using data collected by astronomers at the U.S. National Solar Observatory on Kitt Peak, he plotted the Sun's average magnetic field, day by day, as a function of solar latitude and time from 1975 through the present. The result is a sort of strip chart recording that reveals evolving magnetic patterns on the Sun's surface. "We call it a butterfly diagram," he says, "because sunspots make a pattern in this plot that looks like the wings of a butterfly."

In the butterfly diagram, the Sun's polar fields appear as strips of uniform color near 90 degrees latitude. When the colors change (in this case from blue to yellow or vice versa) it means the polar fields have switched signs.

During the sunspot cycle, sunspots drift, on average, toward the equator -- hence the butterfly wings. The uniform blue and yellow regions near the poles reveal the orientation of the Sun's underlying dipole magnetic field.

The ongoing changes are not confined to the space immediately around our star, Hathaway added. The Sun's magnetic field envelops the entire solar system in a bubble that scientists call the "heliosphere." The heliosphere extends 50 to 100 astronomical units (AU) beyond the orbit of Pluto. Inside it is the solar system -- outside is interstellar space. "Changes in the Sun's magnetic field are carried outward through the heliosphere by the solar wind," explains Steve Suess, another solar physicist at the Marshall Space Flight Center. "It takes about a year for disturbances to propagate all the way from the Sun to the outer bounds of the heliosphere."

Because the Sun rotates (once every 27 days) solar magnetic fields corkscrew outwards in the shape of an Archimedian spiral. Far above the poles the magnetic fields twist around like a child's Slinky toy.

Because of all the twists and turns, "the impact of the field reversal on the heliosphere is complicated," says Hathaway. Sunspots are sources of intense magnetic knots that spiral outwards even as the dipole field vanishes. The heliosphere doesn't simply wink out of existence when the poles flip -- there are plenty of complex magnetic structures to fill the void.

Or so the theory goes.... Researchers have never seen the magnetic flip happen from the best possible point of view -- that is, from the top down. But now, the unique Ulysses spacecraft may give scientists a reality check. Ulysses, an international joint venture of the European Space Agency and NASA, was launched in 1990 to observe the solar system from very high solar latitudes. Every six years the spacecraft flies 2.2 AU over the Sun's poles. No other probe travels so far above the orbital plane of the planets.

"Ulysses just passed under the Sun's south pole," says Suess, a mission co-Investigator. "Now it will loop back and fly over the north pole in the fall."

"This is the most important part of our mission," he says. Ulysses last flew over the Sun's poles in 1994 and 1996, during solar minimum, and the craft made several important discoveries about cosmic rays, the solar wind, and more. "Now we get to see the Sun's poles during the other extreme: Solar Max. Our data will cover a complete solar cycle." To learn more about the Sun's changing magnetic field and how it is generated, please visit "The Solar Dynamo," a web page prepared by the NASA/Marshall solar research group. Updates from the Ulysses spacecraft may be found on the Internet from JPL at <http://ulysses.jpl.nasa.gov>.

Magnetism - the Key to Understanding the Sun - an introduction to solar magnetism presented by the NASA/Marshall Space Flight Center solar research group The Dynamo Process -- a nice tutorial on magnetic dynamos

The Sun's Magnetic Cycle -- from the Goddard Space Flight Center The Spiral of the Interplanetary Magnetic Field -- includes an eye-catching lawn sprinkler animation that illustrates the Sun's spiraling magnetic field.

Submitted by Gene Nailon, K5DLE

Strange Sounds: Weird Signal 1

Two strange signals have been noted on or near the 75 and 80 meter bands. The first one is RTTY and Rick Lindquist, N1RL of the ARRL Audio News has that part of the story:

The ARRL Monitoring System has asked the FCC to help identify the source of a RTTY transmission near 3.885 MHz, the 75 meter AM calling frequency. "We received numerous reports of this signal from AM enthusiasts on February 22," said Monitoring System Administrator Brennan Price, N4QX.

"We have asked the FCC HF Direction Finding Facility in Maryland to determine the origin of the signal."

Price said this was the first step in resolving the situation, but he notes that the signal may not be illegal. "US hams are fortunate to have access to 3800 to 4000 kHz," he said.

"In many countries, this segment is used by a variety of fixed, mobile, and broadcasting services."

He said that if the RTTY transmission is not coming from the US, it may be legal in its country of origin. From ARRL Headquarters, I'm Rick Lindquist, N1RL.

Price says that if the signal is from outside the United States its removal will have to be achieved through negotiation rather than enforcement.

Strange Sounds: Weird Signal 2

Meantime radio talk show host Art Bell W6OBB, is urging his listeners to keep an ear on 3.390 MHz for a strange signal that sounds like this:

That sound was supplied by Keith Rowland, KG7EL of: rowlandnet.com

He is the webmaster for: www.artbell.com

Since the first appearance of the signal on Saturday, February 17th several callers to Bell's show have said that the noise on 3.390 is the High Frequency Active Auroral Research Program or HAARP transmitting station in Alaska. Also, that its running at full power.

For those not aware, the High Frequency Active Auroral Research Program is a scientific endeavor aimed at studying the properties and behavior of the ionosphere. But others say that its really a military installation aimed at weather modification or national defense. Whatever it may or may not be, the bottom line is that the transmitter can now be heard all day long and in places where propagation should preclude it being received.

For more information on this mystery signal you might want to visit: www.artbell.com

To see the HAARP array and get technical information on it take the link to the HAARP website from our website at:

www.arnewsline.org
(*Newsline, Rowlandnet*)

Fcc: 700 Mhz Spectrum Auction Delayed Again

The government has again postponed an upcoming auction of wireless licenses originally slated for last year. The FCC says that the auction, most recently scheduled for March, will be pushed back until September to allow potential bidders more time to prepare and plan.

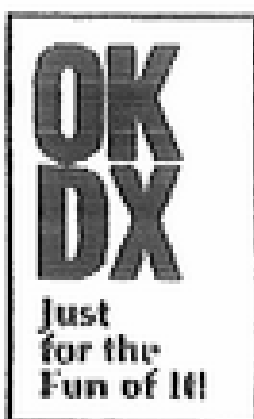
This particular public sale of the airwaves involves licenses in the 700 MHz range. This is spectrum many believe appropriate for the next generation of wireless service devices. But a slowing economy has caused the auction to be delayed several times by the regulatory agency.
(FCC)

Ham Census Report: Daily At QRZ.Com

The QRZ.com callsign database site has a new an very important tool for those interested in the health of ham radio. Site administrator Fred Lloyd, AA7BQ, is now providing a daily census of the nations ham radio population broken down by license class and state. You can get to these figures by taking your web browser over to:

www.qrz.com/census.html

By the way, as of Saturday, February 24th there were 711,659 licensed amateurs in the United States and its possessions.
(QRZ)



OKlahoma DX Association

March, 2001

From Da' Prez

By LARRY SHIMA, WØPAN

As I write this column, the funeral for our Vice President of Administration, Dick Stricker, NJ5S is less than 24 hours away. Dick has been an Active Ham Radio operator for many years and had a station set-up that was second to none. At a get-together of the Enid Amateur Radio Club members this past summer at Dick's QTH we all marveled at the layout of the station and the numerous honors bestowed on Dick for his dedication to helping his community and others on a regular basis. We will all miss him!

Dick's passing was preceded by the passing of another well known DX'er, Ed Berzin, W2MIG a week earlier. Ed's many contributions to the DX community included past Presidency of the very active North Jersey DX Association. The detailed obituary can be found on the North Jersey DXA's website at www.njdx.org.

I was recently advised by our Webmaster, David Balli, N5XDN that he is "retiring" from his duties on the OKDXA Website at www.qsl.net/okdxa. David designed the site and did an excellent job of getting us on the web. Thanks to Dave for getting us started and maintaining our presence. Our Northwest Area Director, Bob Armstrong, K5SIT has volunteered to take over the Webmaster responsibilities. His first priority will be updating the site as needed with enhancements to be developed later. If you have any suggestions for improvements, additions, or web links, please let Bob know.

For a month of low activity, we have had a lot going. The Green Country Hamfest on February 17th was a great get-together for the OKDXA. We had over 35 attendees at our meeting and received some excellent ideas on activities to stimulate club interest. One of the ideas was to re-instate the Annual banquet in September or October. We will have a Banquet Committee get started very soon on the project. At the meeting, the consensus seemed to be that we need to have the Banquet at a location convenient for the

Tulsa and Oklahoma City members so we are looking at Bristow as the possible location. As soon as we have a date and plan, we will get the word out to everyone so you can mark your calendars.

We also had discussions about financial support for DX'peditions, the fund balance that we should maintain in our treasury, and activities that will stimulate interest in gaining both new members and keeping our current members. Over the next few months we will be announcing specifics on these ideas.

Our Northwest Area Director, Bob Armstrong, K5SIT is preparing some basic information on PSK for this column next month. Everything you wanted to know about PSK and how to have fun with it, so standby for next month's column!

73, Good Contesting, and maybe work a new one in the process! — WØPAN

Secretary / Treasurer Report

By JERRY CHOUINARD, K5YAA

We had a nice turnout at the Green Country HamFest, even with the ARRL CW DX contest underway. I had to leave some of the highest hourly rates I have ever experienced in a DX contest to make the meeting but was able to regain some of the excitement on Sunday morning. The bands were in grand shape.

This month we welcome 3 new members:

NØYYO

Don Unruh from Halsted, KS

KD5DLM

Rick Hudson from Tulsa, OK

AA4BG

Steve Sweetko, also from Tulsa, OK

Be sure to welcome our newest OKDXA members when you hear them on the air!

Several memberships have been renewed since my last writing and the total now stands at 58. With the management of our website in transition, the next roster update will likely be in late March. There have been a few e-mail changes plus the new membership information, so look for those changes in early April. — K5YAA

From Da' Editor

By NELSON DERKS, AC5UP

What can I say about the Green Country HamFest that won't come across like a cliché...? How about 60 aspiring Hams at the testing session? No kidding, the out-of-

town folks who don't have regular access to a VE session made good use of their visit and kept the VE's happily occupied. I don't have a tally of how many were new, upgrade, or the number of licenses issued, but it seems like a healthy sign of interest. Two of my local buds on the Six Meter FM Net came through with upgrades to General. In a way, it's a mixed blessing as this is a very good time to gain HF privileges. DX Dan, KD5JXT has already reported that a quick & dirty 10 Meter mag mount whip thrown on the roof has netted an impressive list of contacts throughout Europe, Asia and Oceania during his first week. What an introduction to HF! The downside is the angst of a declining solar cycle that's sure to come, but I think he's willing to risk it. Experienced DX'ers N5PMP and KB5HMZ (the Kellyville Twins from different parents) report late February Q's into Argentina on 50.110 & 50.115 MHz. Last summer was the best VHF season I've seen, and this year may be the one to remember fondly if the early results are any indication.

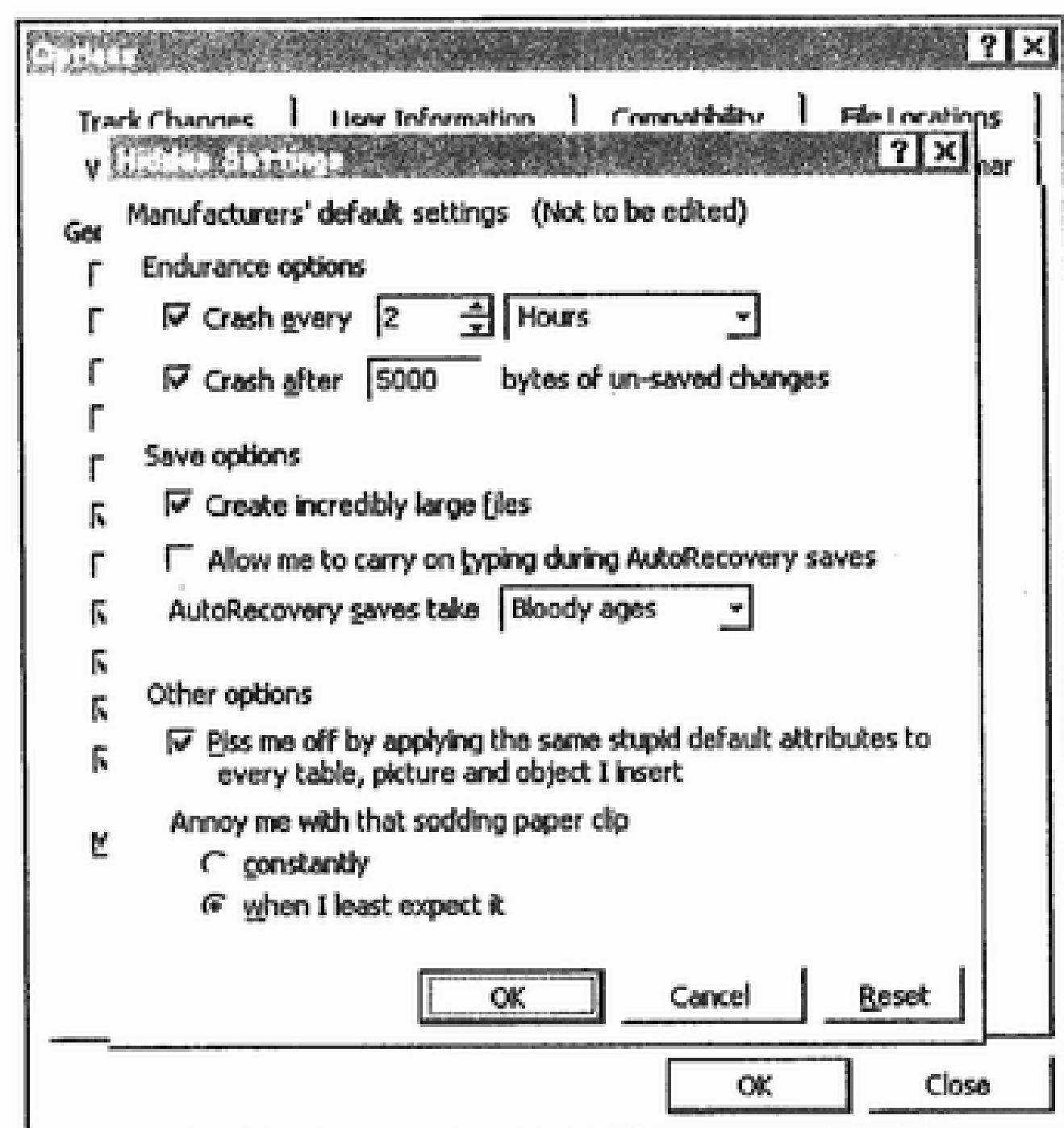
As for your humble & disobedient scribe, I worked Andy, MØADL in Derby, England on 10 Meter FM Simplex and it was one of the weirdest contacts I've made. No QRN. No QRM. No QSB. If it wasn't for the (very) British accent, it wouldn't have felt like DX at all. This is getting too easy. I've also gotten in the habit of working the AM'ers above 29 MHz on weekends. Quite an assortment of boat anchors can be heard and some of them sound incredibly good. You can usually tell when you have an old-hand broadcast engineer on the other side, as their Hi-Fi tendencies are hard to ignore. As for me, I've gotten the ATV Bug and I'm convinced the mode is the perfect excuse to accumulate more toys. If you've been watching the prices on eBay lately, retired TV gear is becoming almost cheap. The Pro's are cleaning out their NTSC rigs in favor of digital gear and the prices reflect the reduced demand. I picked up a full-house Tektronix 1410 sync / test generator for a Franklin that couldn't be touched for under \$300 a year or so ago. I'm seeing plenty of TBC's and ENG cameras coming through, plus a character generator is no longer a luxury item. I used to work at TV stations, now I'm trying to live at one... The white elephant auction at the end of Green Country netted a C/Ku band satellite receiver with an unmolested (and working) Videocipher RS module for

75 cents. It cleaned up nicely and works well; the VCRS module alone could still fetch \$40 on eBay. There's a fairly active ATV group in Tulsa and it's Hams like them who've caused plenty of TV gear to be sold. After watching their Wednesday night Net for less than half an hour, I was thinking about selling mine...

(just kidding, General Dave, W5ATV!)

And, for those of you who caught the last TARC Newsletter, any resemblance between Yours Truly and Curly Howard is purely coincidental. Seems that someone snapped a picture at Green Country and an anonymous OM with the initials W5TAZ molested it on their computer and... Nyuk, Nyuk, Nyuk, "Hey Moel"... There it was next to the call — AC5UP

(Let's hope these hidden Windows options are set in the TAZ computer as follows:)



OPDX Bulletin - Internet Edition

The Ohio/Penn DX PacketCluster
Editor Tedd Mirgliotta, KB8NW
Provided by BARF-80 BBS Cleveland, OH

CLINTON B. DESOTO CUP WINNER

The "ARRL Letter" reports that Bob Eshleman, W4DR of Midlothian, Virginia, is the winner of the Clinton B. DeSoto Cup for 2000. The DeSoto Cup is a new ARRL award being presented for the first time and recognizes the station that's on

top of the DXCC Challenge List as of September 30th of each year. The Cup will be presented in May at Dayton's "DX Dinner" sponsored by the Southwest Ohio DX Association.

3A, MONACO

Reports claim that Monaco has authorized operations on 6 Meters for amateurs. This came after a one month test proving no interference to other services. Laura, 3A2MD who is generally active on all bands, is attempting to be one of the first on this band. Until then, look for her on 10 Meters (28016 or 28446 kHz) between 0630-0700z and on 15 Meters (around 21032 kHz) between 1000-1100z before she moves to 20 Meters CW/SSB.

3B, MARURITIUS

Jacky, 3B8CF can be found almost daily on 30 and 20 Meters CW between 0230-0400z. Check around 10106 and 14027. QSL via CBA.

3B6, AGALEGA

Press Release Bulletin Number 12 (large) reports the team has added 4 new members and is close to the maximum of 20 operators. The 3B6RF team is scheduled to arrive on Thursday, May 3rd and begin operation Saturday, May 5th for their sked with N5UW. The 3B6RF Web site is at: <http://www.agalega2000.ch/> The operation is planned to last 14 days.

3B9, RODRIGUES ISLAND

Robert, 3B9FR can be found on 15, 17, 20 Meters, 1530-1930z. Check 14025, 18073 and 21295 kHz. QSL via CBA.

3D2, CONWAY REEF (Postponed)

The Scandinavian DX'pedition to Conway Reef planned by Mats, SM7PKK and Nils, SM6CAS scheduled for April 5-24th has been postponed due to commitments by two of the team members.

3W, VIETNAM

Claude, F5PBL will be active from Ho Chi Minh City from March 22-30th. Activity will be on 15 and 10 Meters,

mainly SSB, but CW is also possible. A single/single entry will be made in the CQ WPX SSB Contest but the band has not been selected. The exact call sign is not yet known. QSL to F5PBL, direct or buro.

3Y, BOUVET

There is good news to report. Chuck, 3Y0C says the diesel generator is FIXED. The problem involved the compression release and he will continue to collect info about a propane conversion in case there's more trouble. They will be able to get back to normal and will be putting up new wire antennas for the low bands and some RTTY with a fully charged laptop. Chuck will be able to operate more hours instead of 30 minutes to an hour at a time because of weak batteries. However, the Icom PW1 amp is still dead.

4S, SRI LANKA

Ernest, 4S7EA and Nelson, 4S7NE have been keeping the CW crowd happy on 30 Meters around 10106 kHz. Listen for Nelson around 1245z and between 1930-2015z. Listen for Ernest between 2300-0100z or check 20 Meters on 14025 kHz.

4W, EAST TIMOR

Dennis, K7BV reports there is a rather dramatic drop in activity from 4W since Dick, N6FF and Dennis had the pleasure of operating from the temporary QTH provided by Thor, 4W6MM. Dennis states, "A recent E-mail from Thor, informs us that he was transferred out of Baucau right after we departed. He is now stationed in Oe Cusse, the small enclave to the west of East Timor proper that is completely surrounded by West Timor. He has his rig with him but only a 15 Meter dipole two meters high for an antenna; a radical step-down from the 220' tower in Baucau. He has managed only about 100 QSO's under the current situation." He also mentions "Little has been heard from Ross, 4W6UN probably indicating he is as busy as ever with his responsibilities to the UN mission in Timor Lorasae." (Added Note From Dennis): "Thousands of full color QSL's for our 4W/K7BV and 4W/N6FF operation will be in the mail within the next week. The story and photos of our trip will appear in an upcoming issue of DX Magazine."

5U, NIGER

Listen for Silvano, I2YSB; Paolo, I2UIY and Marcello, IK2DIA February 27th through March 12th. Their call signs will

be issued after their arrival on the site. They will use separate calls for SSB and CW / RTTY / PSK31. Also, they plan to have 3 stations on the air when possible, operating from 160-10 Meters CW / SSB / RTTY / PSK31 and 6 Meters on CW/SSB. QSL's for both call signs will be OK via the Bureau or direct to I2YSB: Silvano Borsa, P.O.Box 45, 27036 Mortara (PV), Italy. A web page can be found at: <http://digilander.iol.it/i2ysb/> where on-line logs and pictures will be available during their activity.

6Y, JAMAICA

Louie, Louie, me gotta go. Louie, Louie, me gotta go. A fine little girl, she wait for me. Me catch the ship across the sea. I sailed the ship all alone. I never think I'll make it home. Louie, Louie, me gotta go. Louie, Louie, me gotta go. Three nights and days we sailed the sea. Me think of the girl, ah, constantly. On the ship, I dream she there. I smell the rose, ah, in her hair. Louie, Louie, me gotta go. Louie, Louie, me gotta go. Me see Jamaican moon far above. It won't be long 'til me see me love. Me take her in my arms, and then again, I tell her I never leave again. Louie, Louie, me gotta go. Louie, Louie, me gotta go.

9M6, EAST MALAYSIA

Listen for Peter, G4MJS to be active as **9M6BAA** from March 21st through April 4th. Bands and modes of activity were not mentioned. QSL via G4SHF.

A5, BHUTAN

Charly, **K4VUD** (A52UD) reports that Kesang, **A51KC** a newly licensed Ham in Bhutan, is willing to make skeds for 10 Meters (SSB only) QSO's via E-mail to: sophun@druknet.net.bt. Charly suggests you act now while the winter propagation is still good. **A51AA** has been heard on 15 Meters. The operator was Yesney. Check 21265 kHz between 1130 and 1400z plus 28480 kHz between 1030 and 1530z.

AP, PAKISTAN

Robert, **S53R** reports that thanks to extensive help from the "Pakistani Amateur Radio Society" and Tariq, **AP2TJ** he will be active from the **AP2ARS** (ARS club station) from Islamabad. Activity will be almost 100% CW. He plans to be active from 40 Meters and up including WARC bands, mostly during the weekends due to work commitments. QSL's should go to **S53R**. Robert adds, "In a very short period I'll be travelling to EZ, EY, EX and UK

and will certainly try to do some radio from there too."

BQ9, PRATAS ISLAND

Reports indicate that Paul, **BV4FH** has the authorization for another operation from here beginning March 6th through March 15th. There will be 8 operators on this trip: **BV2OO**, **BV4FH**, **BV5CR**, **BX2AX**, **AA4NN**, **JA1AYC**, **RK3DT** and **W4NZC**. QSL via **KU9C**.

CE0, EASTER ISLAND

Several sources report that Arliss, **W7XU** and Holly, **N0QJM** will be active from here March 29th-April 9th. Reportedly, they will mainly concentrate on 6 Meters.

CE0X, SAN AMBROSIO ISLAND

Mark, **CE6TBN** sent out a brief statement as follows: "I'm sorry but **CE0XT** is cancelled for transporting problem."

D68BT & D68WL ARE NOW QRT

Both Josep, **EA3BT** and Nuria, **EA3WL** are back in Barcelona as of January 29th. The final log count is more than 31,000 QSO's, and without the dupes, they are at 24,500 QSO's. The logs can be viewed at: http://www.qsl.net/ea3bt/Comoros-Logs_Angles.htm

EM, ANTARCTICA

Paul, **UX2HO** is now active as **EM1HO** from the Ukrainian Base on an Argentine Island in the Antarctic. He works HF with 200w and a vertical plus 100w on 6 Meters with a simple dipole. He plans to install a 4 element Yagi on Six Meters in the future. On HF he operates SSB, CW and the digital modes (including RTTY and PSK31). Paul will be there for one year. QSL via **I2PJA**.

EL, LIBERIA

Dickson, **EL2DT** has been active on 21255 kHz between 0930- 1030z. QSL via **IK0PHY**.

EP, IRAN

Hamid, **EP3HR** has been active on 12 Meters. Check 24950 kHz between 0900-0930z. QSL via **I2MQP**.

FO & ZK, FRENCH POLYNESIA AND SOUTH COOK ISLANDS

Dominique, **F6EPY** will be on a "South Pacific DX'pedition" during March. Listen for him between March 8-16th as **ZK1EPY** from Rarotonga Island (OC-013), South Cook (and possibly Aitutaki Atoll). Operations will be mainly on CW

on 80-10 Meters including WARC bands. Listen for him 18 kHz from the lower band edge (7018, 10118, 14018....etc.). There is a possibility of some SSB, digital modes (PSK31, RTTY) and 6m SSB. Activity will likely favor European propagation. http://perso.wanadoo.fr/dominique.auprinc/e/SP_DXPED.htm

FO5, FRENCH POLYNESIA

F5DYD is now active as **FO5RA** from Tahiti for the next 2 years. He uses an FT-847 with a 2 element Quad that likes 10 Meters. Check 28560 and 28480 kHz between 1630 and 1930z. Also, listen for him on 6 meters between 0700-1700z.

FM, MARTINIQUE

Dan, **IV3TDM**; Max, **IV3FHH** and Luke, **IV3JVJ** from the Pordenone gang, will hit the airwaves from here March 17-23rd. Dan will operate SSB, Max on CW and Luke on RTTY & SSB. They will try to concentrate on the lower bands and their target is to "generate the hugest pile-up of their lives". They should have a good signal, so please call them! The call signs will be FM/homecall. All QSL's go to **IV3TDM CBA**. The Pordenone gang will operate from Clement's, **FM5GU**, station, and then join the **FM5GU** team for the **CQ WPX SSB** Contest.

FS & PJ7,

ST. MARTIN AND ST. MAARTEN

Joe, **W3HNC** and his **XYL** are taking a well-deserved few weeks away from the snow in W3 land to enjoy FS & PJ7 land. While there, Joe will be active from the French and Dutch sides of the island as **PJ7/W3HNC** and **FS/W3HNC** including the **ARRL SSB** Contest. Listen for Joe from February 27th through March 15th. QSL's for this operation go to **KU9C**.

H4, SOLOMON ISLANDS

Operator Loti has been exercising club station **H44AA** recently. He was heard on 21250 kHz between 1200-1330z. QSL to: P.O. Box G-11, Honiara, Solomon Islands.

HC, ECUADOR

Dr. Rick, **NE8Z/HC1MD** reports that Dr. Scott Olitsky, **AC3A** will soon be active from Ecuador as **AC3A/HC5**. Scott will be on a medical mission to perform ocular surgery on children in Azogues, Ecuador, roughly between March 2-16th. During his off hours he will be active on HF, CW and SSB. Scott will also be active on 2m EME as **AC3A/HC5** from the mountain home of Guillermo, **HC5GL** and his **XYL** Maya,

HC5DX in Chaullabamba, Ecuador. Many members of the Cuenca Radio Club (HC5CRC) will be assisting Scott with his EME station setup. There will be an HF station manned by HC5PJ, Gerardo; HC5SF, Fausto and HC1HC/HC5, Alfredo on 14155 kHz during the EME operations. This may be the first ever EME operation. QSL via AC3A and please contact Scott before his trip with questions about the EME op: solitsky@acsu.buffalo.edu

HKØ, MALPELO ISLAND

"The Daily DX" is reporting that a second operation is planned and scheduled to take place in April. The operators mentioned are Jorge, HK5YBL; Jairo, HK5MQZ and Hiro, HK5QGX/JA8BWI. Details to come when available.

H4, SOLOMON ISLAND

Bernard, H44MS has been quite active on 12 Meters. Listen for him between 24937 and 24955 kHz starting around 1000z. He has also been active on 75 Meters on 3799 kHz after 1100z. Also, watch 40/17/15/10 Meters. QSL via DL2GAC.

J3, GRENADA

A two-week mini-DX'pedition is planned for Grenada, the West Indies, by Dee, W1HEO and Paul, W5PF from March 30th through April 11th. Operation will be 40-10 Meters SSB/CW. Special attention will be given to the WARC bands and the General-Class portions of the phone bands. They will have two 100 watt transceivers plus a beam for 10/15/20 Meters and inverted Vee's on 12/17/40 Meters. Their J3 call signs will be assigned on arrival, but they may call as J3/W1HEO and J3/W5PF. QSL with SASE direct to the call book address or via the bureau.

JD1, MINAMI TORISHIMA

JD1BCK has been active on 10 Meters between 28433 and 28460 kHz, usually after 0230z but as late as 0600z. QSL via JMITUK.

KG4, GUANTANAMO BAY

Pick, WA5PAE and Jay, K4ZLE expect to be active from Guantanamo Bay, Cuba, as KG4IZ and KG4MO respectively from March 16-25th. They plan to work 160-6 Meters, mostly CW with some PSK31 and a little SSB (but 'nyet' to nets!). Jay will make an appearance in the CQ WPX SSB Contest. QSL via home calls.

MJ, JERSEY

Pete, K8PT and Craig, K3PLV will trek to the Channel Island of Jersey to be active on March 14-20th. Emphasis will be on the digital modes CW / RTTY / PSK31, 160 through 10 Meters including the WARC bands and the IOTA frequency of 14260 kHz. QSL via their home call signs.

Bernard, K8PT and Craig, K3PLV will be active March 14-20th as MJ/homecall. Listen for them on 160-10 Meters CW, RTTY and PSK31 plus the WARC bands. QSL via their home call signs.

MMØ, SCOTLAND

Leo, W3LEO will be active from Portpatrick in southwest Scotland from February 20th through March 14th. However, Leo states that this is once again a vacation not a DX'pedition, and "time on the air will depend on the antennas, on propagation, and on when the nearby pubs are open, HI..." His call is MMØLEO and he plans to be in the ARRL International DX SSB Contest. QSL via his CBA (with SASE) or via bureau to W3LEO. Leo gave the following reference numbers: IOTA - EU-005 [GB]; CQ Zone - 14; ITU Zone-27; Grid Square - IO-74ku and Worked All Britain [WAB] Square - NW-95.

S9, SAO TOME & PRINCIPE

John, W7KNT reports that Tom, W7LUU is now on the air as S92TX. Tom will be operating mainly on 10/15/20 Meter SSB and some 6 Meters soon. He has been overseas for the last 12 years with the State Department / Voice of America. His assignment just started in Sao Tome & Principe, and he should be there for about 2 years. QSL via his QSL Manager W7KNT. John also mentions he will be there for about a month this fall and/or February 2002 to work down the pileups.

SU, EGYPT

SU/ZS6WPX has been heard on 20/12/10 Meters. Check 28475 and 28490 kHz between 1330-1730z, 24940-24950 kHz after 1100z and 14180 kHz after 1915z. QSL via ZS6WPX.

SV5, DODECANESE

Carl, GWØVSW will be active as SV5/GWØVSW from the Island of Rhodes (EU-001), June 16-30th. Activity will be mainly CW on all bands 40 through 10 Meters. Typical operation should be around 0500-1600z, family permitting. Listen for Carl on the IOTA and QRP frequencies. QSL via homecall.

TR, GABON

Alain, TR8CA has been active on 10 Meters around 28462 kHz between 1530-1600z. QSL via F6CBC. Xavier, TR8CX has been active on 15 Meters around 21260 kHz after 2130z.

Xavier, TR8CX has been active on 10 Meter FM lately. Check around/between 29175 and 29235 kHz between 1200-1600z.

V4, ST. KITTS AND NEVIS

Listen for Joe, VE3BW to sign as V47CA April 9-24th. Activity will be on all HF bands plus 6 Meters.

VK9M, MELLISH REEF

The VK9WI team who bought you Willis Island last May are at it again! Team members David, VK4ZEK; Alan, VK4BKM; Peter, VK4APG and Harris, VK4CWT will activate Mellish Reef from 80 through 6 Meters, April 21-24. This trip is primarily a survey trip to facilitate the planning of a larger "full-on" DX'pedition in late 2001 or early 2002. There will be one HF station operating continuously along with one 6 Meter station. Suggested frequencies are:

CW - 3504, 7025, 14025, 21025, 28025, 50105 kHz

SSB - 3799, 7085, 14195, 21295, 28480, 50145 kHz

The pilot stations for this operation are: Bill Rothwell, GØVDE (Europe)

BillRothwell@radioham.screaming.net
Adam MAURER, VK4CP (Rest of World)
vk4cp@one.net.au

No individual sked requests accepted. For the latest news on the VK9ML Mellish Reef Site-Survey/Activation in April 2001, visit: <http://www.qsl.net/vk9ml>

VU, INDIA

Jose, VU2JOS reports the permission for use of the following frequencies by VU Amateurs has been extended to 1830z on July 31, 2001. 3790-3800 kHz, 10100-10150 kHz and 50.35 and 50.55 MHz.

XU, CAMBODIA

A small group of German Hams will be active from here July 15th through August 3rd. The first 4 days will be limited to high band activities from Siem Reap (Angkor Wat). The all band activity will be from Sihanoukville on 160-6 Meters, with an emphasis on the low bands, CW/SSB and possibly RTTY. So far only one operator's call has been confirmed, Frank, DL4KQ will be active as XU7ABR. QSL via

DL4KQ. For updates, check the Web page: <http://www.DL4KQ.de>

ZL7, CHATHAM ISLAND (ZK3)

A press release from Ken Holdom, ZL2HU/ZL4HU Group Organizer / Team Leader / QSL Manager for the Kermadec DX Association, announced a change in plans for the ZK3 Tokelau Island DX'pedition. Ken reports, "After lengthy considerations and taking into account the very high number of DX'peditions that are being undertaken at present and those that are planned for the future, combined with the extremely high costs involved in undertaking ZK3, we wish to advise with considerable regret that we will not be undertaking this DX'pedition in July and August 2002 as planned. Our last DX'pedition to ZL9CI in January 1999 was, according to all counts and responses, one of the most successful DX'peditions ever undertaken and in order to keep the Kermadec DX Association reputation intact, we have decided to undertake a much smaller DX'pedition to ZL7 - Chatham Islands - in October 2002 to coincide with the CQWW SSB contest."

IOTA News

AF-059 After their activity from Maskali Island (AF-053) operators J28EX (David, F5THR) and J28NH (Jean, F5NHJ) hope to be active from Sept Freres (Seven Brothers) IOTA AF-059 at the end of March with the call sign J28CDX.

AS-056 Masa, JA6GXX will be active from Danjo Archipelago (Meshima Island) March 21-30th. This is not a DX'pedition as he will be active only in his spare time. Suggested frequencies are 14260 or 21260 kHz (both +/-10kHz). QSL via the Bureau.

EU-002 Frank, DL2SWW and Ric, DL2VFR will activate Aland Island from April 14-20th using OH0/homecall on 160-6 Meters CW (mostly), SSB and RTTY. QSL via home call signs. Detailed information can be found on the Web site: <http://www.iota-expedition.com/>

EU-037 Frank, DL2SWW and Ric, DL2VFR will activate Oland Island from April 21-28th using SM7/homecall on 160-6 meters CW (mostly), SSB and RTTY. QSL via home call signs. Detailed information can be found on the Web site: <http://www.iota-expedition.com/>

EU-064 Jean-Marc, F5SGI will be active as F5SGI/P from Yeu Island April 14-

21st. Activity will be mostly CW, 80-10 Meters. QSL via the bureau or CBA.

EU-112. Peter, GM3OFT has permission to put a station on Eilean Garbh (Shiants OH-18). This will be a 3 day operation during the period May 28th through June 6th. He hopes to activate other Outer Hebrides Islands (possibly 6-7, the easily accessible ones!) during the 10 days before or after the Shiant event. Look for more details as arrangements are finalized.

EU-129 Detlev, DL1RTW and Klaus, DL7UXG will sign homecall/p from Usedom Island (GIA O-013), April 2-4th. Activity will be on CW/SSB, 40 thru 15 Meters. QSL's via home call signs.

SA-028 Operators Carl, PU1NEZ; Zeca, PY1LVF; Pete, PY1NEW and Lima, PY1NEZ will activate Sao Sebastiao Island (Ilha Bela), off the central coast of Sao Paulo State, March 15-19th. Operators will sign homecall/2 on 80-10 Meters CW/SSB including the WARC bands. Suggested frequencies are:

CW - 3530, 7030, 10115, 14040, 18098, 21040, 24920 and 28040

SSB - 3755, 7055, 14260, 18128, 21260, 24950 and 28460 kHz

QSL via home calls or through the Bureau. PU1NEZ - Carlos Guilherme Correa, 9/306 Presidente Backer, 24220-045 Niteroi, RJ

PY1LVF - Jose Luiz V. Fernandes, P.O. Box 18009, 20722-970 Rio de Janeiro, RJ

PY1NEW - Emanuel Tavares Filho, P. O. Box 100659, 24001-970 Niteroi, RJ

PY1NEZ - Rogaciano Lima C. Filho, 91/1101 Belizario Augusto, 24230-200 Niteroi, RJ

VP8, FALKLAND ISLANDS

Listen for the GMDX crew of four to be active from the Falkland Islands (SA-002) as VP8SDX between April 23rd and May 8th. The operators will be Rob, GM3YTS; Jack, GM4COX; Tom, GM4FDM and Gavin, GM0GAV. They plan to run two stations and focus on CW, LF and the WARC bands. QSL via GM4FDM. Visit: <http://www.hfdx.co.uk/vp8sdx>

ZK1, COOK ISLANDS

Two members of the Bavarian Contest Club (BCC), Uwe, DL9NDS and Klaus, DL7NFK, will be active from the islands between April 28th and May 18th as ZK1NDS and ZK1NFK, respectively. They plan to activate the following islands from the South Cook Island Group:

Rarotonga (OC-013), Mangaja Island (OC-159) and Aitutaki-Island (OC-083). They will also activate Manihiki Atoll (OC-014) in the North Cook Island Group. Their equipment consists of two 400W PA's, a 1Kw PA, LP5, V80E vertical and some wire antennas. There will also be plenty of activity on RTTY, PSK31 and MFSK16. QSL via their home calls. For more information and online logs, visit: <http://www.dl9nds.de/Cook/cook.html>

Miscellaneous News

The Lone Star DX Association announces their DX programs for HAM COM 2001, June 8-10 in Arlington, Texas. The LSDXA will host several World Class DX'ers including Martti Laine OH2BH as the main speaker at the DX luncheon, John Devoldere ON4UN and Wes Lamboley, W3WL as afternoon speakers. We are looking for officers of any DX and Contest clubs in MS, OK, LA, and New Mexico who may want to help with the forums.

— Tom Anderson, WW5L

HAM COM web site <http://hamcom.org>

LSDXA web site <http://www.dxer.org>

HamCom 2001 LSDXA DX Agenda:

Friday, June 8 - Hospitality suite 7 to 11 PM Wyndham Hotel (adjacent to the Arlington Convention Center)

Saturday, June 9 LSDXA Programs:

9:00 AM - "DX, how to start; gear, antennas, technique, QSL tips, etc." Skip Cameron, W5GAI

10:00 AM - "Dxing and the Internet" - Herb Blair, K5AT

11:00 AM - "DXCC Update" - Bill Moore, NC1L, DXCC Mgr. (invited, awaiting confirmation)

12 Noon - DX Luncheon 11:30 AM to 1:00 PM (extra cost about \$25)

Master of Ceremonies - Bill Priakos, W5SJ, LSDXA Featured Speaker - Martti Laine, OH2BH - Door Prizes - Guests - Jim Haynie, W5JBP; Coy Day, N5OK; other guests - DXCC Countdown.

1:00 PM - "Islands on the Air (IOTA)" - Lanny Phillips, W5BOS; Mike Crownover, AD5A; Buzz Jehle, N5UR

2:00 PM - "DX Contesting" - Jeff Steinman, N5TJ

3:00 PM - "Top Band Dxing" - John Devoldere, ON4UN

4:00 PM - "D68C, Comoros 2001" - Wes Lamboley, W3WL

Hospitality Suite 6 to 11 PM - Wyndham

Sunday, June 10 - Morning programs
9:00 AM - DX Forum - OH2BH, K5AT,
W5BOS, AD5A, N5UR, NC1L, W5JBP,
ON4UN, W3WL, N5TJ, etc. - W5SJ
10:30 - LSDXA Annual Meeting -
Election of Officers

Other program notes: The LSDXA booth
in the exhibit area will have DXCC card
checkers plus ON4UN and OH2BH at
various times during the day to meet
DX'ers and sign their books.

MESSAGE FROM OPDX EDITOR:

Did you ever wonder "How many DXCC
Countries/Entities were active last week?"
and "Is it possible to achieve DXCC in a
week?". Well, now OPDX and Terry,
AB5K's AR TelNet Cluster Network, will
have the answer for you every week:

DXCC COUNTRY/ENTITY REPORT:

According to the AR-Cluster Network for
the week of Sunday, 18/Feb, through
Sunday, 25/Feb there were 241 countries
active. Countries available: 3A, 3B8, 3B9,
3D2, 3D2/r, 3V, 3W, 3Y/b, 4J, 4L, 4S,
4U1I, 4U1U, 4W, 4X, 5A, 5B, 5H, 5N,
5R, 5W, 5Z, 6W, 6Y, 7P, 7Q, 7X, 8P, 8Q,
8R, 9A, 9G, 9H, 9J, 9K, 9M2, 9M6, 9N,
9V, 9Y, A2, A3, A4, A5, A6, A7, A9, AP,
BV, BY, C3, C5, C6, C9, CE, CE0A,
CE0Z, CE9, CM, CN, CP, CT, CT3, CU,
CX, D2, D6, DL, DU, EA, EA6, EA8,
EA9, EI, EK, EL, EP, ER, ES, ET, EU,
EX, EY, EZ, F, FG, FH, FJ, FK, FM, FO,
FO/m, FP, FR, FW, FY, G, GD, GI, GJ,
GM, GU, GW, H4, HA, HB, HB0, HC,
HC8, HH, HI, HK, HK0/a, HL, HP, HR,
HS, HV, HZ, I, IS, J2, J3, J5, J6, J7, J8,
JA, JT, JW, JX, JY, K, KG4, KH0, KH2,
KH4, KH6, KH8, KH9, KL, KP2, KP4,
LA, LU, LX, LY, LZ, OA, OD, OE, OH,
OH0, OK, OM, ON, OX, OY, OZ, P2, P4,
PA, PJ2, PJ7, PY, PY0F, PZ, R1FJ, S5,
S7, S9, SM, SP, ST, SU, SV, SV5, T2,
T32, T33, T7, T8, T9, TA, TF, TG, TI,
TK, TL, TR, TT, TU, TZ, UA, UA2, UA9,
UK, UN, UR, V2, V3, V4, V5, V7, V8,
VE, VK, VK9N, VP2E, VP2M, VP2V,
VP5, VP8, VP8/h, VQ9, VR, VU, XE,
XU, XX9, YB, YI, YK, YL, YN, YO, YS,
YU, YV, Z2, Z3, ZA, ZB, ZC4, ZD7, ZF,
ZK1/s, ZK3, ZL, ZL9, ZP and ZS. Please
Note: This report "could" contain a few
"Pirate / SLIM" operations. As always,
you never know. Work First Worry Later
(WFWL). OPDX Internet Subscribers will
receive an additional bulletin (due to its
size) with a complete breakdown and
"DXCC / Entities Chart of Activity".
OPDX would like to send a special thanks

to Terry for his time and input for this new
feature. Also, Terry and your editor
(KB8NW) would like to hear your
comments (and suggestions) on this new
feature. Send e-mail to: kb8nw@arrl.net

KH6 CONVENTION

Propagation Guru Lee, KH6BZF reports
there will be a "HAWAII STATE
AMATEUR RADIO CONVENTION" at
Pearl Harbor, on Saturday, October 13,
2001. Lee states: "WHO: Everyone Be
there! WHY? Good warm weather and
good fellowship! Please mark you
Upcoming Events Calendars Early...we'll
appreciate it. More to follow: Mid March,
June, July and September updates."

NEW DX SPOTTING RECORD!

Terry, AB5K from AR-Technology
reports: Since August 1, 1999 we have run
over 1 million spots on the AR-Cluster
backbone. Thanks to all of the hub nodes,
regional networks, nodes, sysops and users
who have made this possible. The results
from the ARRL CW Contest were:

	Sat	Sun	peak spots/hr
Worldwide	11,544	12,387	700
U.S.	6,364	8,756	550

PSK31 AWARD

The Penn-Ohio DX Society (PODXS) has
something PSK'ers may enjoy working
toward, their free 070 Club PSK Award.
For info about the "PODXS" and the 070
Club PSK Award, visit their Web site at:
<http://hometown.aol.com/n3dqu/podxs.htm>

ARRL CONTEST CALENDAR

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

WEEKEND OF MARCH 11-12

North American Sprint, RTTY

Sponsored by NCJ, 0000-0400Z March 11
(local time, March 10); 80, 40, 20 only.
North American stations work everyone;
others work NA stations only. Exchange
other station's call, your call, serial no.,
name, and state/province/DXCC country.
The same station can be worked multiple
times provided 3 contacts separate the
contact in both logs, regardless of band.
QSY rule: Stations calling CQ, QRZ, etc,
may only work one station in response to
that call; they must then move at least 1
kHz before working another station or 5
kHz before soliciting another call. Once
you are required to QSY, you may not
make a new QSO on the previous

frequency until you have made a contact at
least 1 or 5 kHz (as required) away. Team
competition. Awards. Electronic entries
accepted. Send logs no later than 30 days
after the end of the contest to Wayne
Matlock, K7WM, Rt 2, Box 102, Cibola,
AZ 85328; rttysprint@ncjweb.com;
www.ncjweb.com/.

Wisconsin QSO Party

Sponsored by the West Allis RAC, 1800Z
March 11 until 0100Z March 12. CW and
Phone. 80 40 20 15 10 6 2 Meters. Work
stations once per mode per band, no
repeater QSO's. Single op/multi-single,
multi-multi, fixed/mobile. WI stations
send county; others send state / province /
DXCC country. CW: 3.550 3.705 7.050
7.125 14.050 and 15/10/6/2 Meters;
Phone: 3.890 7.230 14.290 21.350 28.400
and 6/2 Meters. Score 1 pt/phone, 2
pts/CW QSO. Final score is QSO pts WI
counties (max 72); WI stations score QSO
pts WI counties + states/provinces. WI
mobiles/portables add 500 bonus points
for each county they make 12 or more
QSO's from. Mobile operators may not sit
on a county line to operate. Power level
multiplier: multiply your QSO points by
the power multiplier: 150 W or more \times 1,
5 to 150 W \times 1.5, less than 5 W \times 2.
Awards. Send logs within 30 days to West
Allis RAC, PO Box 1072, Milwaukee, WI
53201; www.warac.org/.

WEEK OF MARCH 13-14

CLARA and Family HF Contest

Sponsored by the Canadian Ladies ARA,
from 1700Z Mar 13 until 1700Z Mar 14.
80 40 20 15 10 Meters CW and Phone.
Work stations once per band per mode.
Cross-mode contacts count as phone for
both stations. Single ops only. Exchange
RS(T), state / province / DXCC country
and if CLARA member or nonmember.
Multipliers are Canadian provinces and
DXCC countries. Score 5 pts for CLARA-
member-to-CLARA member, YL-
nonmember-to-CLARA-member and OM-
to-CLARA -member QSO's on phone; 2
pts per QSO with CLARA family
members; 3 pts per QSO with non-
CLARA YLs on phone; 1 pt per QSO
w/OMs. Awards. Send logs by April 22 to
Helen Archibald, VE2YAK, 130 Embleton
Cres, Pointe Claire, QC, Canada H9R
3N2; archibal@pubnix.net.

WEEKEND OF MARCH 18-20

Virginia QSO Party

Sponsored by the Sterling Park ARC, 1800Z Mar 17 to 0200Z Mar 19. Single operator, mobile, club, single-multi and multi-multi. Work stations once per band/mode, mobiles as they cross county lines. VA stations work everyone, others work VA stations only. Exchange serial number and state/province/DXCC country (VA stations send county). CW: 1.805 and 50 kHz up; phone: 1.845 3.860 7.260 14.260 21.360 28.360; Technician: 10 kHz up and 28.360; VHF/UHF: 50.125 147.48 223.50 446.00. No repeater or cross-mode QSO's. Score 1 pt/phone, 2 pts/CW, and 3 pts/VA mobile QSO. Final score is QSO pts VA counties (max 95); VA stations use VA counties / states / provinces / DXCC countries for multiplier. VA mobiles add 100 bonus pts for each VA county from which they make a QSO. Club competition. Awards. Send logs by Apr 15 to Virginia QSO Party, Call Box 599, Sterling, VA 20167; www.qsl.net/sterling/.

WEEKEND OF MARCH 24-25

CQ WW WPX Contest, Phone

Sponsored by *CQ Magazine*, from 0000Z Mar 24 until 2400Z Mar 25 (CW is May 26-27). Single ops operate no more than 36 hours, off periods must be 60 min or more. Classes: single op single/all band, high, low (< 100 W), QRP (< 5 W) or assisted; multi-single (10-minute rule); multi-multi; rookie; tribander and single element; and band restricted. Send RS(T) and serial no. Score 3 pts/QSO w/different continents on 14-28 MHz and 6 pts/QSO w/different continents on 1.8-7 MHz; score 2 pts/QSO w/stations in North America on 14-28 MHz and 4 pts/QSO w/NA stations on 1.8-7 MHz. Stations in own country count one point. Multipliers are prefixes worked (ie, N8, KA1, HG73, JD1). Work stations once/band; prefixes count only once. Awards. Club competition. Send logs by May 10 (CW, Jul 10) to *CQ Magazine*, 25 Newbridge Rd, Suite 405, Hicksville, NY 11801; ourworld.compuserve.com/homepages/n8bjq/. E-mail to n8bjq@erinet.com

MARCH / APRIL SUMMARY

(Courtesy Of Bruce Horn, WA7BNM)

MARCH 2001

ARRL Internat'l DX Contest, Phone	0000Z, Mar 3	2400Z, Mar 4
SLP Competition (SWL)	0000Z, Mar 3	2400Z, Mar 4
Open Ukraine RTTY Championship	2200Z, Mar 3	0159Z, Mar 4

AGCW YL-CW-Party	1900Z, Mar 10	2100Z, Mar 6
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
High Speed Sprint, RTTY	1800Z, Mar 11	2200Z, Mar 11
Alaska QSO Party	0000Z, Mar 17	2400Z, Mar 18
Bermuda Contest	0001Z, Mar 17	2400Z, Mar 18
BARTG WW RTTY Contest	0200Z, Mar 17	0200Z, Mar 19
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

APRIL 2001

SLP Competition (SWL)	0000Z, Apr 7	2400Z, Apr 8
SP DX Contest	1500Z, Apr 7	1500Z, Apr 8
EA RTTY Contest	1600Z, Apr 7	1600Z, Apr 8
UBA Spring Contest, SSB	0600Z, Apr 8	1000Z, Apr 8
DX YL to NA YL Contest, CW	1400Z, Apr 11	0200Z, Apr 13
Japan Int. DX Contest, 20-10m	2300Z, Apr 13	2300Z, Apr 15
MARAC County Hunter Contest, SSB	0000Z, Apr 14	2400Z, Apr 15
QRP ARCI Spring QSO Party	1200Z, Apr 14	2400Z, Apr 15
EU Spring Sprint, SSB	1500Z, Apr 14	1859Z, Apr 14
His Maj. King of Spain Contest	1800Z, Apr 14	1800Z, Apr 15
TARA Spring Wakeup	0000Z, Apr 21	2400Z, Apr 21
PSK31 Rumble	1200Z, Apr 21	1200Z, Apr 22
YU DX Contest	1200Z, Apr 21	1200Z, Apr 22
EU Spring Sprint, CW	1500Z, Apr 21	1859Z, Apr 21
Michigan QSO Party	1600Z, Apr 21	0400Z, Apr 22
Holyland DX Contest	1800Z, Apr 21	1800Z, Apr 22
Ontario QSO Party	1800Z, Apr 21	1800Z, Apr 22

Harry Angel Memorial Sprint	1100Z, Apr 25	1246Z, Apr 25
DX YL to NA YL Contest, SSB	1400Z, Apr 25	0200Z, Apr 27
SP DX RTTY Contest	1200Z, Apr 28	1200Z, Apr 29
Helvetia Contest	1300Z, Apr 28	1300Z, Apr 29
Florida QSO Party	1600Z, Apr 28	0159Z, Apr 29 and
Nebraska QSO Party	1200Z, Apr 28	2159Z, Apr 29
Six Club Sprint	1700Z, Apr 28	1700Z, Apr 29
	2300Z, Apr 28	0400Z, Apr 29

Doctor DX

For those of you who thought the Amateur license restructure of April 2000 was a big deal, consider this: — Doctor DX

(CNN) -- In just five years, the technology used to broadcast and receive television programs in the United States is scheduled to change. 2006 is the deadline set by Congress for conversion of the U.S. television system from analog (think radio waves) to digital (a system based on the 1's and 0's of binary computer code). Broadcasters will have to invest a minimum of \$2 million to upgrade their stations to the digital standard. The process began in 1988, when America's broadcasters decided they needed to adopt a new High Definition (HDTV) television standard. Congress then set 2006 as the deadline for conversion to digital High Definition Television, and gave each of the nation's 1,600 TV broadcasters a separate channel on which to broadcast a digital signal during the transition. So far, fewer than 200 stations have gone digital.

The FCC has approved a digital TV system called 8VSB. But some broadcasters prefer an alternative system called DVBT, which is used in the U.K. and approximately 40 other countries. Late last year, the National Association of Broadcasters (NAB) and a group called Association for Maximum Service Television conducted field tests aimed at comparing the 8VSB and DVBT standards. 8VSB came out on top. But critics charge the tests were not accurate. They claim the monitor used to sample the DVBT signal was not designed for use as a receiver without technical modification to block out competing signals. Eddie Fritts, NAB president, is dismissive of BTL's claim. "The tests were on the up and up,"

Fritts told CNN in an interview. "They did not complain or even raise an eyebrow until after the tests were done and their technology proved inferior." Sinclair Broadcasting, a Maryland-based company that owns and operates 62 television stations nationwide, says it's the American digital TV standard that is inferior. Mark Hyman, Sinclair's VP for corporate relations, fears that if the 8VSB standard is implemented some viewers who depend on antennas for reception will not be able to view over-the-air digital TV signals. Sinclair is in the minority, however, and the boards of NAB and MSTV have voted to continue with the transition to digital TV using the 8VSB standard.

Jim Griffin, the manager of WRAL-TV whose station was the first in the nation to receive a digital license, agrees that some viewers may not be able to see WRAL's digital signal. But, he added, the same is true with the analog signal. "Our challenge is to figure out how to perfect the technology so it can become a reality," Griffin concluded. Sinclair's Mark Hyman, the 8VSB critic, agrees. "Would we be happy if someone can effect a fix to the

(8VSB) standard? Absolutely, because all we want is a service that works."

The U.S. broadcasting industry faces a digital dilemma. Few people are buying HDTV receivers because they are too expensive and, in most areas, there isn't much HDTV programming to watch.

(IDG) -- Expect a mad rush to the Federal Communications Commission as losing bidders in the agency's recently completed \$16.9 billion auction of wireless telephone licenses challenge the qualifications of the bidders who won.

Smaller carriers that lost out contend that the FCC wrongly allowed such companies to pair with heavyweight telcos, thereby driving up the cost of the restricted licenses. One such smaller carrier, Allegheny Communications, filed a lawsuit before the auction in an effort to block Salmon and Alaska Native from bidding, but the U.S. Appeals Court for the District of Columbia rejected that request. Challenges are likely, says John Rogovin, an attorney for Allegheny. "They've so relaxed the rules that they've really diminished the integrity of the program --

at least that appears to be what's going on," Rogovin says. Under FCC rules, only companies with annual revenues of less than \$125 million in each of the two previous years and total assets of less than \$500 million were eligible to bid for the restricted licenses. But the agency allowed an eligible bidder to accept investments from ineligible, larger companies -- so long as the investors did not have control of the bidder.

Winning bidders have argued they were not controlled by their larger partners and the FCC will examine those relationships if it receives challenges. In 1996 and 1997, the FCC auctioned similarly restricted licenses but imposed tighter limits on investments from ineligible companies. Those auctions were considered a disaster after most of the winning bidders were unable to raise funds to cover their bids and ultimately ended up in bankruptcy. The FCC hoped to avoid those problems this year by relaxing the limits and eliminating installment payment plans that had allowed winning bidders to pay for licenses over 10 years.

* Our Monthly C&E Special from your friends at FUBAR ShaZamaHamaTronics of Spokogee *

ShaZamaHamaTronics Begins The New Millennium By Promoting A Ham Tradition From The Last Millennium!

THE THUNDERBOLT 2000 BLUE LIGHT DX MACHINE !!!

THIS HAS TO BE THE MOST SIGNIFICANT PRODUCT WE'VE EVER OFFERED!

FAMOUS DX'ERS WORLDWIDE know there is no substitute for a DISTINCTIVE SIGNAL when trying to BREAK A PILEUP
Both NEW AND VETERAN HAMS AGREE the COST OF AN EFFECTIVE HF AMPLIFIER has GROWN TOO HIGH!

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A MODERN DESIGN relying on the TIME-TESTED technology of resonant spark at a price EVEN YOU CAN AFFORD !!!
YES !!! YOU CAN ENJOY THE ADVANTAGES OF LEGAL-LIMIT CW ON ALL BANDS FOR LESS THAN \$200.00 !!!

YES !!! You can build THE THUNDERBOLT 2000 from automotive ignition parts IN LESS THAN AN HOUR !!!
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As Cletus B. Liddley, A5LID of Bokchito, OK says: " Hot Damn, this is just like the Good Ol' Days we've read so much about! "

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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



A. R. R. L. Bulletins

From ARRL Headquarters
Newington, CT
To All Radio Amateurs

Special Bulletin 5 February 20, 2001

LF-to-LF Transatlantic Amateur Contact is Completed

Amateur Radio history was made this month when amateurs in Canada and the UK completed what appears to be the first two-way transatlantic Amateur Radio exchange on 136 kHz. Larry Kayser, VA3LK, and Lawrence "Laurie" Mayhead, G3AQC, managed the LF feat using extremely slow CW that featured 90-second-long dits and 180-second-long dahs. The two-way contact took two weeks to complete.

"We are the first to do a two-way QSO on LF across the North Atlantic as far as I am concerned," Kayser said. "We are the ones who put the stakes in the ground; others will build on what we have done."

The VA3LK-G3AQC contact began February 5 and was completed February 19 with the reception and confirmation of VA3LK's report by G3AQC. Both stations used spectrographic software and computers for receiving. The participants agreed in advance to a "firewall" between them for the duration of the contact and that all QSO information was exchanged over the LF radio link.

The UK has an amateur band at 136 kHz. While Canada has not yet authorized general Amateur Radio operation on 136 kHz, Kayser and a few other Canadian amateurs have received special authorization to conduct LF experiments there.

G3AQC and VA3LK were using a combination of commercial and surplus equipment at their respective stations. G3AQC estimated his effective radiated power at 350 mW, while VA3LK said he might have been at the 5 W ERP level.

In October 1998, the ARRL petitioned the FCC to create two amateur LF allocations at 135.7-137.8 kHz and 160-190 kHz. The FCC has not yet acted on the request.

ARRL Bulletin 6 February 28, 2001

Hams Responding to Northwestern US Earthquake

An earthquake estimated at magnitude 6.8 hit February 28 about 25 miles southeast of Seattle, Washington. No deaths and few serious injuries are reported. A state of emergency has been declared in King County, Washington--the greater Seattle area.

ARRL Western Washington Section Manager Harry Lewis, W7JWJ, reports that some communities are without power. Telephone lines are jammed, and customers were being asked to not use their telephones.

District Emergency Coordinator Ed Bruette, N7NVP, was reported enroute to the Kitsap County Emergency Operations Center. "State RACES officer Jim Sutton, WA7PHD, is NCS on the Washington State Emergency Net operating from the State EOC at Camp Murray," Lewis said. ARES volunteers in King County were active on an emergency repeater net with King County EC Rich Hodges, KB7TBF, and Lt Russ Reed, N7NOV, of the US Coast Guard acting as NCS. Lewis said that several other county ARES nets were active as well.

"I am deeply impressed by the immediate response that occurred with hams coming out of the woodwork, just like it might have been planned," Lewis said. He noted that Red Cross, with Amateur Radio operators assisting, was already doing damage assessment, and that a temporary 2-meter net was set up for that purpose.

Salvation Army Team Emergency Radio Network reports it is standing by on its net frequency of 14.265 MHz.

ARRL Bulletin 5 February 23, 2001

Three ARRL Sections to Get New Section Managers

Three ARRL sections will get new section managers, while incumbents were declared elected in six others. All new terms begin April 1. In Kentucky, challenger John D. Meyers, N4GNL, of Butler, outpolled incumbent SM William L. "Bill" Uschan, K4MIS, and another challenger, David W. Glass, WA4QAL.

The final tally was 244 votes for Meyers, 236 for Uschan, and 137 for Glass. Ballots were counted February 20 at ARRL Headquarters.

In Arkansas, Bob Ideker, WB5VUH, of Little Rock ran unopposed and was declared elected to succeed Roger Gray, N5QS, who did not seek another term. In North Texas, Larry Melby, KA5TXL, of Dallas--appointed to take over the reins from Donald Mathis, KB5YAM, on March 1--ran unopposed and was declared elected to a full term.

Incumbent section managers were re-elected without opposition in six other ARRL sections. They include Cliff Hauser, KD6XH, Arizona; Jim Lasley, N0JL, Iowa; Randy "Max" Wendel, KM0D, Minnesota; Malcolm Keown, W5XX, Mississippi; Joe H. Brown, W6UBQ, Orange, and Robert Williams, N7LKH, Wyoming. Wendel agreed to run again last year when no other candidates came forward, and he has remained in office in the interim. As a result, his term will run through September of next year.

In Montana, a resolicitation for candidates will be announced in April QST. Incumbent Darrell Thomas, N7KOR, will remain in office at least through September.

Hamfests

April 7, 2001 Tri-State ARG Hamfest & Eyeball QSO. 8 am to 2 pm

May 12, 2001 Choctaw ARC Swap Meeting. It will be held at the Midwest City Community Center, MWC and the doors will open around 8:15.

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, KB51BY @ 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

International: China To Take Part In Us Ardf Championship

And from the Newsline Radiosports page, word the some of the worlds best direction finding competitors are coming to the USA. Joe Moell, K0OV, has the details:

The first USA Championships of Amateur Radio Direction Finding got a big boost this week, as the Chinese Radiosports Association announced its intent to send a team of competitors.

The Championships, which will take place in Albuquerque, New Mexico from July 31 to August 4 of this year, are expected to become history's largest gathering on this continent of transmitter hunting enthusiasts, or as they tall themselves, foxhunters and radio-orienteers.

I have already heard from foxhunters across the country that are planning to attend. Responses from Australia and some European countries are expected in the coming weeks.

The Albuquerque Amateur Radio Club has a special Web site with full details of the schedule of events, transportation, housing, training, food (which is 'all you can eat') and registration. The URL is long, so it's easiest to get there by a prominent link from my own site,

www.homingin.com

My site also reveals the basics of international style foxhunting and has some simple, inexpensive equipment suggestions. That's homingin, one word, homingin.com

If you didn't get to compete against the foxhunters of China and the rest of the world in Nanjing last October, your second chance is coming this summer, much closer to home. Don't miss it!

For Amateur Radio Newsline(tm), this is Joe Moell K0OV.
(K0OV)

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(405) 682-0481
Fax (405) 682-0481

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Mustang, OK 73084
(405) 376-2646
Fax (405) 376-2646

March 11 - April 21, 2001

Weekly Planner

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
<i>March 11</i> 2:30 PM Wheatstraw ARC	<i>March 12</i>	<i>March 13</i>	<i>March 14</i> 11:00 AM Oklahoma VHF ARC	<i>March 15</i>	<i>March 16</i>	<i>March 17</i> 9:00 AM VE Exam SBC
<i>March 18</i> 2:00 PM Edmond ARS	<i>March 19</i> 6:00 PM CORA VE Exams 7:00 PM Choctaw ARC	<i>March 20</i> 7:30 PM Oklahoma City Autopatch	<i>March 21</i>	<i>March 22</i> 7:00 PM Enid ARC	<i>March 23</i>	<i>March 24</i>
<i>March 25</i>	<i>March 26</i>	<i>March 27</i> 6:30 PM Albus VE Exams 7:30 PM Central Oklahoma Radio Amateurs	<i>March 28</i>	<i>March 29</i>	<i>March 30</i> 5:00 PM C&E Deadline	<i>March 31</i>
<i>April 1</i>	<i>April 2</i>	<i>April 3</i>	<i>April 4</i>	<i>April 5</i> 7:00 PM Aeronautical Center ARC	<i>April 6</i>	<i>April 7</i> 9:00 AM Ada ARC
<i>April 8</i> 2:30 PM Wheatstraw ARC	<i>April 9</i>	<i>April 10</i>	<i>April 11</i> 11:00 AM Oklahoma VHF ARC	<i>April 12</i> 7:00 PM Albus Area ARA 7:00 PM Tri State ARG	<i>April 13</i>	<i>April 14</i> 9:30 AM South Canadian ARS 10:00 AM Enid ARC VE Exams 10:00 AM SCARS VE Exams
<i>April 15</i>	<i>April 16</i> 6:00 PM CORA VE Exams 7:00 PM Choctaw ARC	<i>April 17</i> 7:30 PM Oklahoma City Autopatch	<i>April 18</i>	<i>April 19</i>	<i>April 20</i>	<i>April 21</i> 9:00 AM VE Exam SBC

February						
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March						
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April						
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29	30					

May						
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27	28	29	30	31		