

# AARC OVER

**Bulletin of Austin Amateur Radio Clubs**  
Austin Amateur Radio Club  
Austin Amateur Television Club  
Austin Repeater Organization

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April 2006

Roster in Next Issue, See Page 8

Issue 4-2006

Solar Storm Warning

Taken from NASA website

Thanks to Rev. Bill Nogues, W5GVE and Rick Herndon, K5FNI

**March 10, 2006:** It's official: Solar minimum has arrived. Sunspots have all but vanished. Solar flares are nonexistent. The sun is utterly quiet.

Like the quiet before a storm.

This week researchers announced that a storm *is* coming--the most intense solar maximum in fifty years. The prediction comes from a team led by Mausumi Dikpati of the National Center for Atmospheric Research (NCAR). "The next sunspot cycle will be 30% to 50% stronger than the previous one," she says. If correct, the years ahead could produce a burst of solar activity second only to the historic Solar Max of 1958.

*That* was a solar maximum. The Space Age was just beginning: Sputnik was launched in Oct. 1957 and Explorer 1 (the first US satellite) in Jan. 1958. In 1958 you couldn't tell that a solar storm was underway by looking at the bars on your cell phone; cell phones didn't exist. Even so, people knew something big was happening when Northern Lights were sighted three times *in Mexico*. A similar maximum now would be noticed by its effect on cell phones, GPS, weather satellites and many other modern technologies.

Dikpati's prediction is unprecedented. In nearly-two centuries since the 11-year sunspot cycle was discovered, scientists have struggled to predict the size of future maxima—and failed. Solar maxima can be intense, as in 1958, or barely detectable, as in 1805, obeying no obvious pattern.

The key to the mystery, Dikpati realized years ago, is a conveyor belt on the sun.

We have something similar here on Earth—the Great Ocean Conveyor Belt, popularized in the sci-fi movie *The Day After Tomorrow*. It is a network of

## Periodic Events

|       |                        |  |                      |
|-------|------------------------|--|----------------------|
| Sun   | 7:30 p.m.              | Travis ARES net                                | 147.36 MHz + (131.8) |
| Sun   | 8:00 p.m.              | Travis ARES Packet                             | 145.73 MHz -         |
| Sun   | 8:00 p.m.              | Williamson ARES net                            | 146.64 MHz - (162.2) |
| Sun   | 9:00 p.m.              | ARO Swapnet                                    | 146.94 MHz -         |
| Sun   | (After Swapnet)        | Newsline                                       | 146.94 MHz -         |
| Mon   | 6:45 p.m.              | Hays ARES net                                  | 147.10 MHz -         |
| Tues. | 8:00 p.m.              | Bastrop ARES Net                               | 443.750+ (114.80)    |
| Wed   | 8:00 p.m.              | Code Practice                                  | 146.94 MHz -         |
| Wed   | 11:30 a.m.-1p.m.       | Ham Social Luncheon, Jim's at 183 & Burnet Rd. | 837-1119             |
| Thu   | 11:30 a.m. - 12:30p.m. | Lunch, Waterloo Ice House                      | 444.1 MHz+           |
| Sat   | 7:00 - 8:30a.m.        | Breakfast, Waterloo Ice House, 8600 Burnet     | 444.1 MHz +          |
| Sat   | 9:00 a.m.              | Chapter 67 QCWA QSO Net.                       | 3.920 MHz LSB        |
| Daily | 6:30 p.m.              | Central Texas Traffic Net                      | 147.14MHz+           |

Ham Radio Volunteer Exam Results

**ARRL VEC – The following are the results of the ARRL VE test session held at the American Red Cross Response Maintenance Center on February 9th, 2006:**

**Technician Class Licenses Processed:**

|                    |        |                    |        |                  |        |
|--------------------|--------|--------------------|--------|------------------|--------|
| Harry E. Bolton    | KI4NOS | George A Burns     | KE5HJJ | Nancy A. Cotter  | KE7GMX |
| Andrew B. Evans    | KD8CVB | Gerard L. Frappier | KC2PDL | Arnold S. Greif  | KI6CLH |
| Steven C. Johnson  | KI4NOR | Justin M. Koszarek | KC9IUS | j'Orel D. Miller | KE7GMW |
| Donald R. Ramsey   | KE5HJI | Paul W. Roeber     | KE5HJL | Laurita G. Smith | KE7GMV |
| Richard G. Steeves | KI4NOT | Herman L. Stude    | KE5HJK | Thomas E. Will   | KD8CVC |
| Victoria L. Wood   | KB3NDP | Susan Zima         | KI6CLG |                  |        |

**Examiners Participating in this Test Session**

|                      |                     |                    |
|----------------------|---------------------|--------------------|
| Larry Gunter, WB5BEK | Jerry Jackson, N5UJ | Joe Makeever, W5HS |
| Kees Talen, K5BCQ    |                     |                    |

**The following are the results of the ARRL VE test session held in the LCRA Colorado Room, March 4th, 2006:**

**Technician Class Licenses Processed:**

|                   |        |                  |        |
|-------------------|--------|------------------|--------|
| Winston J. Bumpus | KE5HPR | Kolin E Kothmann | KE5HPQ |
|-------------------|--------|------------------|--------|

**General Class Licenses Processed:**

|                |        |                 |        |
|----------------|--------|-----------------|--------|
| John P. Sterle | KE5HPS | Kevin J. Thomas | KE5PBC |
|----------------|--------|-----------------|--------|

**Examiners Participating in this Test Session**

|                        |                      |                    |                    |
|------------------------|----------------------|--------------------|--------------------|
| Pete Brunet, WS4G      | Larry Gunter, WB5BEK | Gene Hinkle, K5PA  | Joe Makeever, W5HS |
| Bill Montgomery, K5ZSI | Joe Thiel, N5SMN     | Roy Walker, WA5YZD |                    |

**Next Two ARRL VE Test Sessions**

|                                |                              |
|--------------------------------|------------------------------|
| April 1st - LCRA Colorado Room | May 6th - LCRA Colorado Room |
|--------------------------------|------------------------------|

**Special Session in April - Technician Class Exam only** Thursday, April 6th at 7:00 PM American Red Cross Response Maintenance Center Contact me via E-Mail to w5hs@arrl.net for location details if you plan to take the Tech exam at this session.

JoeES 73 DE W5HS  
**W5YI-VEC - 3-18-2006**

The South Austin W5YI VE team heartily congratulates all of the following people who earned new or upgraded amateur radio licenses at our March 18<sup>th</sup> session:

**Extra Class** -none-

**General Class** – Herakles A. Boardman, KE5GXV

**Technician Class (all new)** – Tom C. Braselton, Jr. Andrew S. Feistel Kathleen M. Lenning

One other applicant earned element credit without upgrading.

Our administering volunteer examiners were:

|                     |                      |                      |
|---------------------|----------------------|----------------------|
| Jim Allen, KE5AMB   | Jim Greenwood, AB5EK | Hugh Brown, NT5O     |
| Jimmy Mercer, N5WDH | Lloyd Goehring, N5TO | Roger Pfluger, AC5IP |
| Thomas Visel, NX1N  |                      |                      |

Our next two sessions will start at 2 PM in room 109 of Fleck Hall on the campus of St. Edward’s University on April 15 and May 20, 2006. For additional information regarding our amateur radio examination sessions, please contact Jim, AB5EK at (512) 327-6184 or by e-mail to hamradioexams@hotmail.com or visit our web page at <http://texashams.org/w5yi-austin/>

**Exam fee is \$14.00**  
**Please bring two forms of identification plus your social security number.**  
**Sessions are accessible to**  
**handicapped applicants.**  
**No pre-registration is required.**  
**Walk-ins are welcomed.**

Austin Amateur Radio Club, Inc., PO BOX 4739, AUSTIN TX 78765-4739, Web site: <http://www.austinhams.org>

|                                 |                  |        |          |                     |
|---------------------------------|------------------|--------|----------|---------------------|
| President                       | Jeff Schmidt     | N5MNV  | 255-6753 | n5mnw@arrl.net      |
| Vice President                  | Thomas Visel     | NX1N   |          | thomas@neuric.com   |
| Treasurer                       | Jerry Jackson    | N5UJ   | 832-5663 | jerry@gaj.com       |
| Secretary                       | David Rivenburg, | AD5OO  | 821-3143 | driven@onr.com      |
| Editor, AARCOVER                | Mitch London     | KD5HCV | 326-3096 | kd5hcv@arrl.net     |
| Technical (Repeater Contact)    | Ed Golla         | K3AHS  | 255-4818 | edgolla@hotmail.com |
| ARRL Travis Co. Emer. Coord.    | Don Dudley       | AC5YK  | 301-8745 | ac5yk@yahoo.com     |
| ARRL Public Information Officer | Roger Wines      | W5WIA  | 453-2193 | w5wia@arrl.net      |

Please contact a club officer, attend a meeting, or mail us to join the organization.

**The Austin Amateur Radio Club, Inc.** has a membership dues of \$20.00/calendar year (\$30.00 family to the same address)  
**The Austin Amateur Radio Club, Inc.** AARC maintains the following repeaters. An open autopatch and emergency power on 146.78 MHz and an emergency HF/VHF station at the American Red Cross building. Persons residing or working within the coverage area are expected to join the club, if they use the autopatch. Non-residents on short visits are welcome to use this autopatch. 146.88MHz (-600) with autopatch; 146.94 MHz (-600) used for Weather Net when called, and Travis County ARES. It is also used for Swapnet and Newline @ 9p.m. Sunday; 224.80 MHz (-1.600); 444.10 MHz (+5); & 145.01 <MHz packet NetROM node (KB5PM-1 or alias AUS). Persons residing or working within the coverage area are expected to join the club, if they use the autopatch. Non-residents on short visits are welcome to use this autopatch. **The 146.78 and 146.88 repeaters have open autopatches.** Please transmit your call **before** sing the phone patch. Press \* and dial the phone number to place a call. Do not unkey after the \*. When finished, press # to hang up the phone. Dial 911 (no \* needed) for emergency services.

#### AARCOVER Information

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Viewpoints expressed in the AARCOVER do not necessarily reflect those of any club, or of its members, directors, or officers.

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Members and other readers are encouraged to submit material for publication. Call Mitch London, if mailed submissions are required. Electronic files are encouraged! Submissions may be edited for publication. **Deadline is the 15th of the month.**

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"XYL" is printed with permission by Carolyn Canfield, KE5DTS. Cartoons may not be reprinted without written permission.

**Thanks to Alan Russell, KE5DTR, who helps me with getting out the AARCOVER each month!**

**For Changes in your ADDRESS, PHONE NUMBER or CALL SIGN:**

See Jerry Jackson, N5UJ (512) 832-5663 [jerry@gaj.com](mailto:jerry@gaj.com)

**Jerry handles all changes for AARCOVER mailing labels & membership information & roster questions.**

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**Over the WWWaves...** A variety of interesting websites submitted by our readers.

Thanks to Pete Jordahl, K5GM for the following sites...

A Russian site with schematics and manuals for many radios both HF and vHF, and accessories. Equipment is identified by its English name except for Russian equipment.

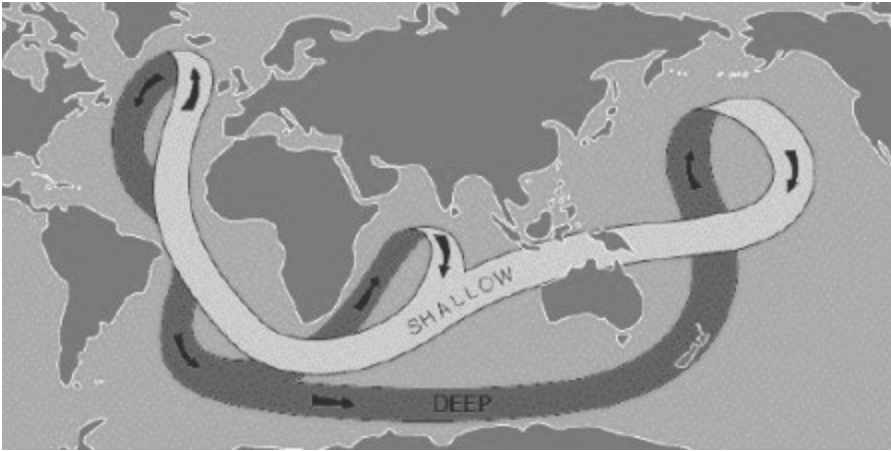
**<http://www.cqham.ru/sch.htm>**

A useful listing of sources for info and programs for many different digital modes, as well as logging programs and other information. The Russian site for schematics was found here.

**<http://www.qsl.net/ok2pya/digimodes/>**

"The following examples of Digital signals are provided by WUN to help you identify the Utility signals you hear on shortwave." Includes many modes found on the ham bands, as well as others found primarily in commercial applications. A list of modes is featured prominently on the referenced page.

**[www.wunclub.com/sounds/](http://www.wunclub.com/sounds/)**



currents that carry water and heat from ocean to ocean--see the diagram below. In the movie, the Conveyor Belt stopped and threw the world's weather into chaos.

"Great Ocean Conveyor Belt."

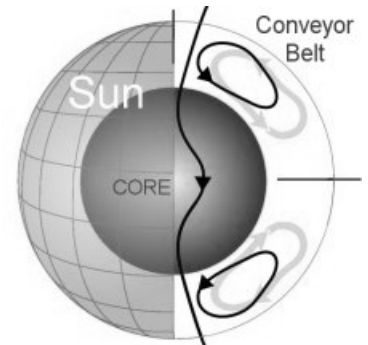
The sun's conveyor belt is a current, not of water, but of electrically-conducting gas. It flows in a loop from the sun's equator to the poles and back again. Just as the Great Ocean Conveyor Belt

controls weather on Earth, this solar conveyor belt controls weather on the sun. Specifically, it controls the sunspot cycle.

Solar physicist David Hathaway of the National Space Science & Technology Center (NSSTC) explains: "First, remember what sunspots are--tangled knots of magnetism generated by the sun's inner dynamo. A typical sunspot exists for just a few weeks. Then it decays, leaving behind a 'corpse' of weak magnetic fields." Enter the conveyor belt.

"The top of the conveyor belt skims the surface of the sun, sweeping up the magnetic fields of old, dead sunspots. The 'corpses' are dragged down at the poles to a depth of 200,000 km where the sun's magnetic dynamo can amplify them. Once the corpses (magnetic knots) are reincarnated (amplified), they become buoyant and float back to the surface." Presto—new sunspots!

Right: The sun's "great conveyor belt."



All this happens with massive slowness. "It takes about 40 years for the belt to complete one loop," says Hathaway. The speed varies "anywhere from a 50-year pace (slow) to a 30-year pace (fast)."

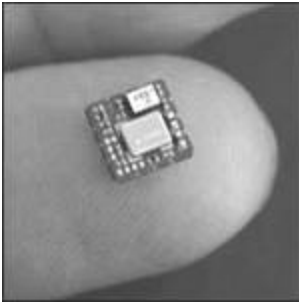
When the belt is turning "fast," it means that lots of magnetic fields are being swept up, and that a future sunspot cycle is going to be intense. This is a basis for forecasting: "The belt was turning fast in 1986-1996," says Hathaway. "Old magnetic fields swept up then should re-appear as big sunspots in 2010-2011."

Like most experts in the field, Hathaway has confidence in the conveyor belt model and agrees with Dikpati that the next solar maximum should be a doozy. But he disagrees with one point. Dikpati's forecast puts Solar Max at 2012. Hathaway believes it will arrive sooner, in 2010 or 2011.

"History shows that big sunspot cycles 'ramp up' faster than small ones," he says. "I expect to see the first sunspots of the next cycle appear in late 2006 or 2007—and Solar Max to be underway by 2010 or 2011." Who's right? Time will tell. Either way, a storm is coming. ■

## Using Emergency Backup Power -- When the Lights Go Out! By Mike Davis, N4FOZ

**ITEMS TO OBTAIN:** Flashlight close at hand and a mounted DC light in your ham shack. (DC florescent lights are inexpensive and available at most hardware stores) A second power cable for your radio. Since these cables are becoming more standardized with "T connectors", they are available at many radio shops. Large size Deep Cycle Battery. A "27 size" works well. Deep Cycle batteries are important as they can be repeatedly charged. Regular automotive starting batteries are not as good. They don't hold the consistent power for our application and repeated recharging can shorten their life span. A combination "Float" and "Trickle" charger. This is a very important part of the project. The float type chargers maintain a topped off level for the battery without creating a lot of "out gassing", which could be an irritant inside the home. They also don't deplete water the same way a conventional charger can. Proper use of a float charger can maintain the life of a deep cycle battery for years. What to do: Start with a fully charged battery and keep it in the ham shack with the battery half of the extra power cable attached to it. Then, wire tie the half of the power cable right next to the "T" connector on the primary power cable. This puts the two "T" connectors beside each other. When the AC power goes out, simply unplug the radio half of the power connector from the normal power supply "T" connector and plug it into the battery side duplicate "T" connector and you are now running on backup power!



## **World's Smallest GPS Receiver**

Rakon, a New Zealand company, has developed the world's smallest GPS receiver. Claimed to be as tiny as the size of a baby's fingernail, the GPS receiver chip is small enough to be fitted into devices such as watches and cellphones. As GPS becomes commonplace in our everyday gadgets, we can be sure that things will get a little more interesting.

## **CONCERNING ARES**

**By Roger Wines, W5WIA**

Although ARES shows several great members, some have not been seen or heard of for a long time, and we have a real need to know who is (will be) an ACTIVE member.

Active members are issued an I.D. badge which is good for two years from the originating date. Badges are expected to be worn at all ARES functions.

As things are moving forward, and to keep it moving there are changes that have to be made. Without change there is no growth and an organization 'dies'.

At this time, there are more things to accomplish than individuals and committees to handle them all. As we recruit more members to help in all areas, there will also be expectations of these members. An active member of ARES has rights, and in turn has responsibilities to these rights. As an "Emergency Communications" organization there has to also be in place a structure to keep it operating at a peak so when called upon, we not only will know who the 'players' can be, but will also know their availability and resources. All this means more accurate records to be kept. Things such as attendance at meetings, accomplished training, activation involvement, and volunteer hours shall be recorded. Without pay - who wants to work? That's a common question, and the pay in our case is recognition. Without keeping a record of activities by each member, it becomes very difficult to administer the 'pay' accordingly. It is a desire to recognize everyone for their effort and involvement. Should someone ever be over-looked for their effort and time spent helping someone and representing ARES, it needs to be brought forward so they can be recognized.

Members are expected to report all their volunteer time monthly so it can be forwarded to the appropriate field appointees. A reporting form will be available at the meetings, and upon request can be sent by e-mail. (Just fill in the blanks.)

Everyone of us has a special interest in our (hobby) business at hand, and if you are not being utilized with your interest, it is only because it is unknown.

The best comment ever muttered about a member is "Don't just get in, get in-volved", this is your responsibility. Let's discuss your needs and find where you want to best fit in. Contact me by e-mail or telephone. (w5wia@arrl.net) (453-2193).

Remember the ARES meetings are monthly at ARL on the fourth Tuesday 1900 hours.

Roger.....W5WIA, E.C.



## **The Email Robots Are Coming! Skip Teller, KH6TY**

ARRL wants to let Email Robots cover the phone bands.

In the ARRL "bandwidth" petition, RM-11306, Pactor-III Email robots, 2.4 KHz wide (requiring a channel width of 2.5 KHz), are allowed everywhere phone is allowed, which is 14100 to 14350 KHz.

The current practice of Winlink 2000 is to scan two channels by each fully automatic Pactor-II station when they are allowed to operate anywhere in the RTTY/Data/CW areas of the bands. THIS IS DONE SO THE MOBILE STATIONS DO NOT HAVE TO WAIT AS LONG AS 4 MINUTES FOR A FREQUENCY THAT IS BEING USED BY ANOTHER EMAIL ROBOT, so then they can go to another frequency, where there is no Email robot, even if there is a CW or SSB already station there, and cause an Email robot to just take over the frequency.

If a single Pactor-III Email robot requires a 2.5 KHz channel, then a fully automatic Email robot scanning two channels will use 5 kHz. There are currently 25 Winlink Email robots in the US and another 25 overseas, some of which can still Interfere with communications in the US. There are another, perhaps 25, Email Robots assigned for Emcomm use by Winlink.

Assuming an average of 40 Winlink Email robots can be heard worldwide on 20 meters, and each one automatically scans only two frequencies, then 40 Email robots will take up  $40 \times 5 = 200$  kHz of the 20 meter phone band, which is 80% of the phone band!

ARRL claims that the operator triggering the Email robot to transmit will not allow it to transmit on a busy frequency, but of course, it may not hear stations in QSO local to the robot but remote to itself, so the Email robot can just wipe out the local QSO, as is so often the practice now for CW and PSK31 QSO's, AND WILL BECOME A REALITY FOR PHONE OPERATORS IF RM-11306 is adopted.

If you think that sacrificing 80% of the 20 meter phone band to be used for Email messaging for Winlink's less than 1% of the US ham population is a good idea, you do not need to do anything.

IF YOU THINK THAT EMAIL ROBOTS SHOULD BE CONFINED TO A SEPARATE SPACE ON THE BANDS, THEN YOU NEED TO FILE COMMENTS TO THE FCC AND LET THEM KNOW YOUR POSITION!

It is as easy as 1-2-3-4 to file a comment!

1. Go to: [http://gullfoss2.fcc.gov/prod/ecfs/upload\\_v2.cgi](http://gullfoss2.fcc.gov/prod/ecfs/upload_v2.cgi)
2. Fill in RM-11306 (in all caps) where it says "1. Proceeding"
3. Fill in the rest of the spaces with your name and address where indicated
4. Type a brief comment to the FCC where it says "Send a Brief Comment to FCC (typed-in)"

Please make an effort to file a comment on RM-11306 before February 5!

73, Skip KH6TY

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### **From the ARRL Contest Rate Sheet Newsletter—Sent by Pete Jordahl, K5GM**

An oldie-but-goodie, back in 1995 Frank W3LPL generously compiled and published a table of coax cable loss vs. frequency performance. You can find it here: <http://www.k1ttt.net/technote/coaxloss.html#tables>. The information is presented in several ways and the frequencies are those of the ham bands. (Thanks, Gene AD3F)

Another contribution - thanks to Monty N5ESE for trying out several Web attenuator calculators. The one he likes best is <http://www.daycounter.com/Calculators/PI-T-Pad-Attenuator-Calculator.phtml> because resistor tolerance (1%, 5%, or 10%) is selectable. The closest standard values are used and a calculation of the resulting errors is provided.

Pete N4ZR recalls another good, old idea for terminating 3/4" hardline with a UHF barrel connector, originally contributed by the late Bill Fisher W4AN. You'll need a 1/2" female water pipe to 1/2" copper tubing adapter from the plumbing department and an Amphenol PL-258 barrel connector (the kind that has a snap-ring retainer). Remove the snap-ring by hacksawing down to the snap-ring groove and remove the insulator and contacts. Silver-solder the barrel into the copper tubing end of the adapter, with the cut end inside. Trim the end of the hardline so that the slightly-spread center contact of the PL-258 fits over the hardline center conductor with the proper length to seat in the PL-258. (Some trial and error required.) Solder the center conductor and contact. Slide the PL-258 insulator onto the contact and thread the adapter onto the hardline sheath using Noalox for lubrication, until the contact and insulator are seated in the PL-258. Dave K1TTT notes that this technique also works with other hardline sizes and that both adapters and reducers can be used.

While we're on the subject of coax wrangling, here is a great tutorial on PL-259 crimp-on connectors. Plenty of photos and detailed instructions make this particularly good: [http://www.bcdxc.org/pl259\\_crimp\\_on\\_connectors.htm](http://www.bcdxc.org/pl259_crimp_on_connectors.htm)

(Thanks, Paul VE7BZ)

## From the CQ Newsroom...

The White House today released its review of the federal response to Hurricane Katrina, which, according to a statement, "identifies the systemic problems in Federal emergency preparedness and response revealed by Hurricane Katrina - and the best solutions to address them." The report included 17 lessons the Executive Branch learned after reviewing and analyzing the response to Katrina; made 125 specific recommendations to the President, and identified 11 critical actions to be completed before the first day of the 2006 hurricane season.

The report also included a section titled, "What Went Right" in the Katrina response, which singled out amateur radio operators for particular praise:

"Other organizations worked tirelessly to assist emergency responders that, due to the storm, did not have the equipment and means to effectively carry out their duties. Amateur Radio Operators from both the Amateur Radio Emergency Service and the American Radio Relay League, monitored distress calls and rerouted emergency requests for assistance throughout the U.S. until messages were received by emergency response personnel. A distress call made from a cell phone on a rooftop in New Orleans to Baton Rouge was relayed, via ham radio, from Louisiana to Oregon, then Utah, and finally back to emergency personnel in Louisiana, who rescued the 15 stranded victims. Ham radio operators voluntarily manned the amateur radio stations at sites such as the National Hurricane Center, Hurricane Watch Net, Waterway Net, Skywarn and the Salvation Army Team Emergency Radio Network."

Finally, the report identified three immediate priorities:

1) Implementing a comprehensive National Preparedness System "to make certain that we have a fully national system that ensures unity of effort in preparing for and responding to natural and man-made disasters;"

2) Creating a "Culture of Preparedness" that "emphasizes that the entire Nation - at all levels of government, the private sector, communities, and individual citizens - shares common goals and responsibilities for homeland security;" and  
3) Implement corrective actions "to ensure we do not repeat the problems encountered during Hurricane Katrina."

A White House fact sheet summarizing the report is available online at

<http://www.whitehouse.gov/news/releases/2006/02/20060223.html>

(Tnx CQ Public Service Editor Bob Josuweit, WA3PZO)

The full report is also available online at

<http://www.whitehouse.gov/reports/katrina-lessons-learned/>

# XYL

by Carolyn Canfield, KE5DTS



Read the part about the "Private Southern Island Beach" again.



No problem, I'm sure hanging around here somewhere.



Officer, my husbands going to be delighted I have my own ticket!

### **AARC Meeting Info.**

#### **Business Meeting**

**7:00 pm at Mangia Pizza**

**120001 Burnet Rd. (North of 183)**

**April 4th** - Donald Schropp, on conversions of the \$5 'atomic clock' from Radio Shack.

**7:00pm at ARL Labs**

**10000 Burnet Rd. North of 183**

**April 11th** – Jeff N5MNW and AARC Elmers on "Basic Operations" Austin-tacious Operating, Phone Patch, Radio Ettiquette, Tactical Comms, Setting Memories/offset/PL Tone, etc. Bring your rig and be ready to learn Ham Radio procedures and program in critical and often-used freqs.

#### **Upcoming Amateur Exams**

**ARRL VEC- April 1st & May 6th** 9a.m. at LCRA Complex 3700 Lake Austin Blvd. Contact Joe Makeever, W5HS (345-0800) or Joe Thiel, N5SMN (832-0450) for info. \$14 fee.

**W5YI VEC- April 15th & May 20th**  
2p.m. in room 109, Fleck Hall, St. Edwards University. Contact Jim Greenwood, AB5EK@arrl.net, (327-6184)  
<http://texasparadise.com/w5yi-austin> for more info.

The official club roster comes out next month, if dues are not paid by April 15, you will be left out of roster. Contact Jerry Jackson, N5UJ, see page 3 for contact information.

### **Calendar of Events**

**Apr 1 QCWA Ch. 67 Ham & associated equip. auction**  
Church of the Resurrection's Parish Hall - 2008 Justin Lane in Austin See [www.qcwa.net](http://www.qcwa.net) web site for info.

**Apr 2 Capitol 10K** (29th Annual) Hams every ¼ mile or so, reporting runner info and course condition Great after-event volunteer party at Zax! Ham volunteers, contact Jeff N5MNW@arrl.net 255-6753

**Apr 22 Belton Ham Expo** - Mike LeFan, WA5EQQ 254-773-3590 hamexpo@tarc.org Register on the website! [www.tarc.org](http://www.tarc.org)

**Apr 22-23 MS 150 HOU-ATX** bike ride benefiting MS research Two-day assignments in SAGs requested. APRS highly desirable Houston/LaGrange Hams contact Mike N5VCX Austin/Bastrop Ham volunteers contact Jeff N5MNW@arrl.net 255-6753 Ham info-  
[www.houstonhams.org/Events.html](http://www.houstonhams.org/Events.html)

| Apr. | May | Austin Meetings/Happenings         |            |
|------|-----|------------------------------------|------------|
| 4    | 2   | AARC Meeting ARL Auditorium        | 7:00p.m.   |
| 8    | 13  | Austin QRP, Alvin's Sandwich Shop  | 11:00 a.m. |
| 11   | 9   | Hands on Hamming ARL Auditorium    | 7:00 p.m.  |
| 18   | 16  | *ATV Club Mtg. Mangia Pizza        | 7:00 p.m.  |
| 15   | 20  | QCWA Denny's on Burnet Rd.         | 2:00p.m.   |
| 24   | 22  | Travis Co. REACT Denny's on Burnet | 7:00 p.m.  |
| 25   | 23  | Travis County A.R.E.S., ARL Aud.   | 7:00 p.m.  |

\*ATV Club now meets at Mangia Pizza on Burnet Rd, North of the ARL Labs. Go North until you almost hit 1325, Mangia's on right.

\*\*AARC Business Meeting is at Mangia Pizza 120001 Burnet Rd.. Visitors are welcome whether they are licensed hams or not. Other meetings or activities are listed under the headings for Calendar.

Non-Profit Organization  
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