

The Repeater

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Spectrum Management Bill Threatens Amateur Frequencies

As taken from the ARRL website:

On February 10, Representative Peter King (R-NY-3), Chairman of the House Homeland Security Committee, introduced HR 607, the Broadband for First Responders Act of 2011. The bill has been referred to the House Energy and Commerce Committee, which handles telecommunications legislation. HR 607 addresses certain spectrum management issues, including the creation and maintenance of a nationwide Public Safety broadband network. As part of that network, the bill provides for the allocation of the so-called “D-Block” of spectrum in the 700 MHz range for Public Safety use.

The D-Block consists of two, 5-megahertz-wide segments of spectrum (758-763 and 788-793 MHz) that became available when the FCC ended analog television broadcasts in June 2009 and reallocated the 698-806 MHz band for Public Safety and commercial broadband. It was anticipated that the D-Block would be auctioned for commercial use. There are several bills in Congress providing

for the allocation of the D-Block for Public Safety use, and HR 607 is one of those. But HR 607 uniquely provides for the reallocation of other spectrum for auction to commercial users, in order to offset the loss of revenue that would occur as the result of the allocation of the D-Block to Public Safety instead of commercial auction. HR 607 lists the paired bands of 420-440 MHz and 450-470 MHz among the bands to be reallocated for commercial auction within 10 years of its passage.

“Of serious concern to the ARRL is the inclusion of the 420-440 MHz amateur allocation in the list of frequencies to be cleared for auction,” said ARRL Regulatory Information Manager Dan Henderson, N1ND. “The ARRL and the Amateur Radio community certainly support the work of public safety agencies and understand their desire for an interoperable network; however, the inclusion of most of the amateur 70 cm spectrum as one of the replacement

*Spectrum Management Continued on
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April 7, 2011

Volume 16
Issue Two

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Club Officers

<i>Steve Sisco, KCØYEH</i>	<i>President</i>
<i>Rick Ebbesen, KBØVZP</i>	<i>Vice President</i>
<i>Sheri Sisco, KDØCAT</i>	<i>Secretary</i>
<i>Keith Haye, WEØG</i>	<i>Treasurer</i>

Repeater Committee

Keith Raihala, NØVJ
Rick Ebbesen, KBØVZP
Keith Haye, WEØG
Larry Vandivier, W9XE
Gary "Monte" Montemarano, NO2CW

Newsletter

<i>Gail Haye, N2ART</i>	<i>Editor/Publisher</i>
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Web Site

<i>Larry Vandivier, W9XE</i>	<i>Webmaster</i>
<i>Keith Haye, WEØG</i>	<i>Administrator</i>
<i>Jack Welch, KØBI</i>	<i>Administrator</i>

Contact Information

Warrensburg Area Amateur Radio Club, Inc.
P.O. Box 1364
Warrensburg, MO 64093
www.waarci.org
admin@waarci.org

Monthly Meetings

Open board meetings are held on the Sunday of before second Saturday at 4:00 p.m. Club meetings are held on the second Saturday of each month at 9:00 a.m. Located at:

Warrensburg JoCo EMA
122 Hout St.
Warrensburg, MO 64093

VHF Repeater
146.880 tone 107.2

UHF Repeater
443.200 tone 107.2

Upcoming Events & Activities

April

Thursdays	CW Training	Warrensburg EMA Office	6:00 p.m.
3rd	Board Meeting	Warrensburg EMA Office	4:00 p.m.
9th	General Club Meeting	Warrensburg EMA Office	9:00 a.m.
17th	ARES Meeting	Warrensburg EMA Office	TBA

May

Thursdays	CW Training	Warrensburg EMA Office	6:00 p.m.
8th	Board Meeting	Warrensburg EMA Office	4:00 p.m.
14th	General Club Meeting	Warrensburg EMA Office	9:00 a.m.
14th	Spring Picnic/Fox Hunt & Radio 101 Class	Cave Hollow Park	11a - 4p

Club Picnic in May

**DON'T FORGET ABOUT THE
MAY 16TH & 18TH NATIONAL
EARTHQUAKE EXERCISE**

The club picnic will be held after the May meeting on May 14th, 2011. The picnic will be held at the pavilion in Cave Hollow Park in Warrensburg. Activities are being planned for everyone.

Beginning at 11:00, while we are waiting for the food to be prepared, there will be a "Radio 101" session to assist new hams with their radios. We will begin with the basics on how to set up the PL tones, how to adjust the offsets, squelch controls, programming frequencies, just to name a few. Everyone is welcome to attend this portion, even if you have been a ham for many years you may also need help on a newer radio or you may have a lot of experience on a particular brand and could provide a wealth of information.

Picnic Continued on Page 9

Fox Hunting

Transmitter hunting (also known as T-hunting, fox hunting, bunny hunting, and bunny chasing), is an activity wherein participants use radio direction finding techniques to locate one or more radio transmitters hidden within a designated search area. This activity is very popular with amateur radio operators. Transmitter hunts may be conducted in conjunction with other events, such as our HamFest in July, club meeting or other special event / activity. Before each hunt, participants are informed of the frequency the transmitter will be operating on and a set of boundaries that define a search area where the transmitter will be located. Transmitter hunters use radio direction finding techniques to determine the direction and distance to the hidden transmitter from different locations then triangulate the probable location of the transmitter. Teamwork is important.

Fox Hunting Continued on Page 5



Field Day

Hello everyone. As you may have heard I am the Field Day chair this year. Field Day is fast approaching. It's always the fourth full weekend in June and this year it falls on June 25th and 26th. I am hoping to bring Field Day inside the Warrensburg city limits this year. I have two places in mind that will give the public a chance to see what amateur radio is and what role amateur radio plays in emergency services. David Summers, K1ZZ, in QST magazine said here in the United States we have not taken much advantage of this occasion to promote amateur radio. ARRL Field Day has proven to be an effective platform for demonstrating our capabilities to our neighbors and the media. Some historians might quarrel about this year's theme - "Amateur Radio; the First Technology-Based Social Network" Experience teaches us that the ones that will flourish are those who actively welcome newcomers, whether they are newly licensed or just new to this particular pursuit. One of the beauties of our social network is that there are no internal barriers: one can move from chasing low band DX in the winter to microwave Hill-topping in the summer, from public service one weekend to contesting the next or from trying out the latest digital mode in the morning to tapping a straight key after supper. Every social network has someone or something that acts as a Gatekeeper. In that case it's earning or wanting to earn an Amateur license. Holding a call sign means that you had an experience and want to share an interest in common with anyone on the planet (or orbiting around it) who is similarly tagged. It's always a joy to encounter another radio amateur in an unexpected setting. Even if our interests in Amateur radio are quite different, there is always something to talk about.

Douglas McIndoo, N4RZB



Field Day 2010

The New Repeater Newsletter

The newly designed, Repeater Newsletter, is formatted interactively. All websites and email addresses are hyperlinked for your convenience. Enjoy this new feature.

Gail Hays, N2ART

NIXLE – Free Public Notification System

Nixle is a community information service that alerts you to public safety threats and community events via web, e-mail and cell phone. Sign up at www.nixle.com to register. All Johnson County residents are encouraged to sign up for these alerts to supplement current public alert systems. It is important to note that this system is intended to supplement storm sirens and media outlets in the event of emergencies and not all together replace those time tested systems.

Nixle is simple, trusted and available to citizens at no cost. (Note: Standard text messaging rates do apply for cell phone notifications.)

Johnson County residents will be able to receive weather-related alerts and other critical public safety related information via Nixle.

Stay in touch, Stay informed.

Nixle continued on page 8

Fox Hunting

Continued from page 3

Although transmitter hunts are conducted for the fun of it, It also prepares us to be able to help locate a transmitter that may be stuck transmitting or in the case where "SOMEONE" is sitting on his/her mic in their vehicle.

Most mobile transmitter hunts use VHF transmitters and receivers. We do have the option of using 2 meter, 70cm, 1.25cm and 6 meter bands. Some folks use radio direction finding equipment and antennas mounted on a vehicle, others use antennas that are temporarily deployed out an open window or an opening hacked in the vehicle roof, like Larry (W9XE) has been known to do in the past, which can be easily rotated by hand while the vehicle is in motion. Other participants employ handheld antennas and radios that can only be used when the vehicle is stationary. After you get pretty close to the Transmitter you may be required to get out of your vehicles and proceed on foot to reach the actual location of the radio transmitter. When you are on foot you will need a different set of skills and maybe equipment - more on all that later and at the club meeting.

People have been asking me what is the best kind if equipment for radio T-hunting. Here are the most popular types of direction finding equipment.

1. *Directional antenna* for getting you to the area of the fox. Try one of these sites.

- <http://www.dxzone.com/cgi-bin/dir/jump2.cgi?ID=17924>
- <http://www.dxzone.com/cgi-bin/>

[dir/jump2.cgi?ID=22297](http://www.dxzone.com/cgi-bin/dir/jump2.cgi?ID=22297)

- http://theleggios.net/wb2hol/projects/rdf/tape_bm.htm
2. *Handy Finder* a more technical device that can be fun to build and use.
- <http://www.homingin.com/hfinderfix.html>
3. *Tinfoil tube* to slip over your HT's antenna to attenuate the signal so that you do not max out your S-meter when you are getting real close.

Directional Antenna/ Beam

The directional antenna is the most useful piece of equipment. It can be any type of beam antenna. To use it you just point. A three or four element beam would be the best for direction finding. Anything bigger gets too hard to carry around. You connect it to your HT (hand held transceiver) and use the "S" meter to work out the direction of the incoming signal. By pointing in one direction then slowly turning the beam around, your "S" meter will move up and down. At the "S" meters highest reading, the antenna will be pointing in the direction of the incoming signal. The biggest drawback you'll have when using a beam is that the closer you get to the transmitter the stronger the signal gets. At some point your "S" meter will max out. This is where you will have to use some kind of attenuation to reduce the signal strength so you can see it on you meter. The beam antenna is a long to medium range piece of equipment. The closer you get to the transmitter, the harder it is to get a bearing.

Handy Finder

The Handy Finder is a good medium to close piece of equipment. It will work

Fox Hunting continued on page 7

Spectrum Management

Continued from Page 1

bands is illogical and unacceptable. The 420-440 MHz band is not Public Safety spectrum and should never have been included in any spectrum swap of Public Safety allocations.”

Saying that the ARRL Washington team has already begun meeting with key Congressional staff on Capitol Hill, Henderson noted that Amateur Radio already shares the 70 cm band on a secondary basis with the governmental radiolocation services, such as the PAVE PAWS radar systems: “The 70 cm band is a critical and irreplaceable resource for Amateur Radio public service and emergency communications. The specification of the 420-440 MHz band in this legislation is ill-conceived. To be sure, the ARRL will vigorously oppose this legislation in its present form. It is, as evidenced by other legislation, completely unnecessary to the creation of a nationwide Public Safety broadband network or the use by Public Safety of the D-Block for that purpose. The role of the Amateur Service as a partner to Public Safety in the provision of public service and emergency communications necessitates the retention of full access

to the entire 420-440 MHz band.”

HR 607 is presently cosponsored by the Homeland Security Committee’s Ranking Member, Representative Bennie Thompson (D-MS-2) as well as Representatives Shelley Berkley (D-NV-1), Yvette Clarke (D-NY-11), Billy Long (R-MO-7), Candice S. Miller (R-MI-10), Laura Richardson (D-CA-37), Mike Rogers (R-AL-3), and Michael Grimm (R-NY-13).

“As we continue to track the progress of HR 607, I urge ARRL members to watch for further information about the bill on the ARRL website,” Henderson said. “When that additional information is released, it will include a request to contact your representative and express opposition to HR 607, as long as it includes a provision to auction off any Amateur Radio spectrum for commercial use. ARRL members may also sign up for the ARRL Legislative Update Newsletter and automatically receive information as it becomes available. Sign up by logging onto the ARRL website and select the ‘Edit Your Profile’ link located at the top of each page. Once on that page, select the ‘Edit Email Subscriptions’ tab and click on the box for ARRL Legislative Update.” The ARRL Legislative Update is prepared on an “as needed” basis to those who have opted-in to receive it. A new edition addressing HR 607 will be forthcoming soon.

www.arrl.org/news/spectrum-management-bill-threatens-amateur-frequencies
forums2.qrz.com/showthread.php?285449-Spectrum-Management-Bill-Threatens-Amateur-Frequencies

Fox Hunting

Continued from page 5

at a long range as long as the transmitter is sending a strong signal. It uses two antennas to receive the signal and adds a tone to the incoming signal. By rotating the antennas the tone comes and goes. The idea is to rotate the antennas until the tone is gone. At this point both antennas are at the same distance from the transmitter. You get your heading by looking perpendicular to a line from one antenna to the other. The biggest problem with this is that the transmitter can be in front or in back of you. You'll have to take readings from at least two places some distance apart. A good feature is that it gives off a tone. You don't have to have an "S" meter on your radio.

Tinfoil Tube

The tinfoil tube is a short range-tracking device. By lowering the foil tube over your HT rubber duck antenna you block part of the signal. This is a form of attenuation. By moving the tube up and down over the antenna, you can weaken the signal. Then you can hold the HT close to your body and turn around in a circle, doing this you are using your body as a shield also weakening the signal to the HT. When the signal goes away, the transmitter is behind you. What you are doing is weakening the signal with the foil tube enough so that when you turn around, your body blocks the rest of the signal. This is a short to mid-range tracking device and takes a lot of practice to make it work.

As I mention above, attenuation is most important thing in tracking the transmitter.

If you are using a beam antenna, you may want to invest in a line attenuator. I picked up two attenuators from Radio

Shack for television antennas. Matching to 50 ohms is not as important. You just want to be sure you do not transmit through one of these attenuators. There are other more elaborate pieces of equipment you can get. But the cost can be high and they may or may not work in all the hunts you go out on. It has been my observation that the cheapest equipment works very well. And it only takes a little more practice to do the job.

Just a good link for reference information.

- <http://www.homingin.com/hfinderfix.html>

Try one of the links. Build a simple fox hunting antenna. Bring it to the next club meeting to show and tell and let us check it out.

Happy Hunting
Keith NØVJ

Note: After the April club meeting, Rick (KBØVZP) gave a very good presentation on Fox Hunting, along with visual aides...slide show and various antennae.

Our thoughts and prayers go out to the Williams family. On Tuesday morning April 12th, 2011, Robert Williams (KDØEHP) became a Silent Key. The funeral will be held this Saturday, April 16th at 11:00 a.m. at the LDS Church in Clinton, MO. at 297 NW 40. Right off of 18 Hwy on the right, west of 13 Hwy. All are welcome to attend. Robert is survived by his two sons, Daniel (KDØHWU) and Bill. If you'd like to send them a card, their address is:

**Bill & Daniel Williams
125 Libby St.
Osceola, MO 64776
Home (417) 646-2619**

Birthdays

April

No Call	Mirandah Allen	4th
KDØAKG	Ed White	4th
KXØØ	Bill Dailey	14th
KDØHAO	Mel Johnson	14th
KØMAF	Jack Hubby	15th
KØBI	Jack Welch	17th
KDØIVK	John Clements	29th

Happy Birthday!

May

KDØEHP	Robert Williams	4th
KDØEHL	Gary Vansel	5th
KDØKAU	Andrew McIndoo	9th
KDØMHL	Trevor Smith	24th
KDØIVP	Daniel Plemons	25th
KB5QR	John Stehmann	30th
ACØKY	Chris Shelton	31st

Nixle

Continued from page 4

There are 4 types of alerts you will receive:

Alert - Severe weather warnings, evacuations, hazardous materials, amber alerts effecting Johnson County

Advisory – Severe weather watches, major power outages, major traffic delays

Community – Community service messages (ex: fire safety, crime tips, health information etc...)

Traffic – Non-emergency road closures, event traffic information

Sign up to register today at www.Nixle.com. From the home page, register as a user, search Warrensburg, Missouri, and select Johnson County Central Dispatch. You will be defaulted to receive alerts and advisories. To receive Community Messages and Traffic Advisories, go to your settings and drop down the box to select all 4 options.

If you have any questions regarding this free service, please contact Operations Manager Jeffrey Noonan at 660-747-2145 ext 3.

Keith (WEØG)
and
Gail (N2ART)
Haye

will be celebrating their 6th Anniversary on May 21st, 2011.

That same day, Gail's oldest son, Robert Nelson, will be having his wedding reception in Stillwater, OK. Robert and Heather Rodden will wed on May 12th in a private ceremony in Waikiki, Hawaii. Also, Gail's youngest son, Michael Nelson, former member of WAARCI, will be graduating from Basic Training on May 6th, 2011 at Lackland Air Force Base, San Antonio.



Robert & Heather

A. Ralph Boxell Scholarship Award

Joseph Watts, KCØUNB, was recently awarded this year's A. Ralph Boxell Scholarship to UCM. The scholarship award was for \$350. Criteria met for the award was first, having his amateur radio license and second, being a technology major.

WAARCI Technician Class

Tech classes will be held at the EMA office in Warrensburg on Saturdays, April 30th and May 7. Located at 122 Hout St. To get time and information, contact Keith Raihala, N0VJ at 660-864-1911.

Lea Cemetery

WAARCI is encouraging all members to show up for the first Lea Cemetery clean up. Bring your lawn mowers, weed eaters, lopping shears, and chain saws. Wednesday at April 20th at 4:00 p.m.

WAARCI Website

There are a lot of new items in the forum on the website. Stop in and take a look. If you have any questions, you may contact the website coordinator, Larry Vandivier, W9XE.

April Club Meeting

During the April club meeting, a possible new Field Day site was brought up by this year's Field Day Chairman, Doug McIndoo, N4RZB. Parker's Supermarket back lot was discussed as well as the ball field across from the Dairy Queen in Warrensburg. At the present, we have Clear Fork Lake, our regular location, reserved. Location will be determined at the May meeting.

Keith Haye, WEØG, reported that the club inventory is a work in progress.

We had 33 1/2 attendees at the April meeting. The EMA meeting room was packed out. The 1/2 attendee being Liberty, Cortney Sisco, KDØETM's 1 year old daughter.

Picnic

Continued from Page 3

If you have a radio already, please bring it and your manual. If you lost your manual, please attempt to download a PDF version off of the internet. If you do not have access to the internet, please let me know what radio you have and I will ensure we have a copy to use for reference. It would also be a great benefit for you if you could read over your manual before hand and write down any specific questions or areas that you need assistance with.

If you do not have a radio yet, you can try out the various types of radios present, to assist you in buying the right model for you.

Next is the lunch. The club is providing the meat and club members are asked to bring covered side dishes to share. Please bring your own plates, utensils and drinks for your own family.

After lunch we will have a brief show and tell on how to operate the equipment to locate a hidden transmitter. Also known as a "fox hunt" we will show details on what to look for when doing a fox hunt. After that we will hide a transmitter and go out and find the location of it in a short but challenging fox hunt.

Hope to see everyone there!
Rick KB0VZP
kb0vzp@arrl.net

HAMFEST 2011

WARRENSBURG AREA AMATEUR RADIO
CLUB, INC. (W.A.A.R.C.I.)

***TEST
SESSION
All Classes***

Johnson County Missouri
Fair Grounds.

***HOT
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We have been working hard! Licensing classes and many
NEW HAM OPERATORS in the area looking and
hungry for NEW and USED Equipment!

Tickets: \$5.00 / three for \$10.00

Talk in 146.88 – PL 107.2

July 16th, 2011

GET US ON YOUR CALENDAR

Tables Still only \$10.00 Each

Tables are selling fast. Get yours before they are all gone.

Power available if needed.

POINT of CONTACT

Keith - N0VJ

660-864-1911

n0vj@arrl.net

Send table Fees and Reservations to:

WAARCI

PO Box 1364

Warrensburg, MO. 64093

Don't Miss Out. Tables are already selling!

Wheel and Deal in Air Conditioned Comfort

Warrensburg, MO.

*Doors open at 6:30 AM for vendors 8:00 AM for the public.
Early Set up can be arranged the night before. Secure Area.*

National Level Earthquake Exercise

Missouri will be participating in a National Level Exercise on May 16-20th 2011. For five consecutive days the governmental and non-governmental organizations in the NMSZ states and federal agencies will participate in the nation's largest ever national level exercise that will test response planning for a 7.7 magnitude NMSZ quake.

The Johnson County ARES group will be participating to support the Warrensburg/Johnson county emergency management in this exercise, if you would like to participate contact kb0vzp at jocoares@yahoo.com or call at (660) 747-6869.

Great Central U.S. ShakeOut

April 28, 2011 At 10:15 a.m.
All Missourians are encouraged to participate in this first ever statewide earthquake drill. Six of the seven other NMSZ states (Indiana will conduct its drill of April 19), Georgia and South Carolina will all participate in this personal safety drill that teaches the importance of Drop, Cover, Hold On. <http://www.shakeout.org/centralus/>

QUALITY FULL COLOR QSL CARDS

- \$37.30 for 250 qty
- \$42.80 for 500 qty
- \$51.80 for 1,000 qty

EYEBALL CARDS

Two-Sided

- \$33.30 for 250 qty
- \$38.30 for 500 qty
- \$51.30 for 1,000 qty

One-Sided

- \$33.30 for 250 qty
- \$38.30 for 500 qty
- \$43.00 for 1,000 qty

Additional Charges:

- \$22.50 set up fee for 30 min. layout/design
- Shipping for UPS Ground
- 6.225% Jo. Co. Tax



Graphically Inclined Designs
 & Commercial Printing
 Gail Haye, N2ART (Owner)
 660.656.3349
 ghaye@graphicallyinclined.biz
 www.graphicallyinclined.biz

Classifieds

Annual Shriner's Hambash

The Ararat Shrine Amateur Radio Club will be holding their annual Hambash on *Saturday, April 23rd*. Doors open to the public at 8:00 a.m.

Located at:

Ararat Shrine
 5100 Ararat Drive
 Kansas City, Missouri

W5YI Testing session from 9:00 a.m. - 10:30 a.m. Applicants for upgrades need to bring their original signed license and a photo copy of the license.

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Warrensburg Area Amateur Radio Club, Inc.
P.O. Box 1364
Warrensburg, MO 64093

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