



KBARA

GAZETTE

Winter 2005

The Quarterly Journal of the Kamiak Butte Amateur Repeater Association
Please note our new mailing address: KBARA, PO Box 30801, Spokane WA 99223-3013

The President's Corner

Bob Lemon, W7HFI

I would like to extend a welcome home to Mike Maxson, N1NG, owner of the KBARA IRLP Node and EchoLink of Spokane South Hill.

The repeater system has been running quite well. There is always on-going maintenance of some sort.

KBARA has a new repeater fund. This fund is to defray the costs incurred with maintaining the repeater system. Any donations will be greatly appreciated. You can send any donations to our new mailing address: KBARA, P.O. Box 30801, Spokane, WA 99223-3013. Please mark checks for repeater fund.

A tentative date of September 23, 2006 is for the Spokane Hamfest. Look for more information throughout the year.

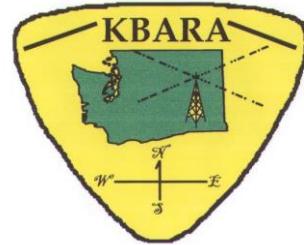
I don't know where the year has gone, but dues are now being accepted for 2006. KBARA is a user supported club. The funds from dues are used to pay site rentals and electricity on the various repeater sites. Your support is greatly appreciated and old and new hams are encouraged to help keep the system running.

We will be having a March informal meeting. The time and place will be announced later.

Please check into the various nets and encourage all of your Ham friends to do the same. Information about the nets can be found on the KBARA website: www.KBARA.org

Thanks to each one of you for your support and help.

Bob, W7HFI



YI9NG/mobile, Baghdad, welcome home Mike, N1NG!



Happy Holidays Everyone!

All Hams, their families & friends are welcome to join in a no-host Ham-it-up luncheon on:



**December 17, 2005, Saturday
1PM**

**Longhorn Barbecue
Restaurant**

2315 N. Argonne Rd.

Spokane Valley, WA 99212 509-924-9600

Ho Ho Ho,

(or maybe it should be "Hi Hi Hi")

Santa's Helper

HOW REPEATERS WORK

JOHN DEMPSTER, W7OE

Many of you wonder how repeaters work. I will provide a short lesson on their operation.

The repeater is like your mobile radio except that it is able to retransmit a received signal using a single antenna. This is achieved by using a DUPLEXER. A duplexer is simply a number of empty cavities that look like large metal cans. These are tuned in such a manner as to filter out the transmitted signal at the receive frequency so a signal being received is not adversely affected by the transmitted signal. The receiver and transmitter are both connected to this duplexer and the duplexer is connected to the external antenna.

The brain of the repeater is called a CONTROLLER. The controller is used to do such things as provide a repeater I.D., determine the P.L. tone required for access, set the duration of the repeater tail, determine the latency between un-keying and arrival of the courtesy tone, coordinate operation of various link radios, set various timers, and control audio. Normally a repeater feeds information to the controller so that a carrier-operated relay (COR) initiates the transmitter whenever a carrier is detected by the receiver. When the carrier disappears, the repeater stops transmitting. The controller also is the point at which audio levels are adjusted from the receiver to the transmitter so that the audio sounds good. The transmitted audio is further adjusted with the controller. The controller is also the point which users can open and close link ports with DTMF tones. Some controllers may have as many as six ports allowing for the repeater and five other link radios or repeaters for other bands. A controller may have a 2 Meter, a 1-1/4 Meter, and a 70 CM repeater connected to it, plus three link radios that may link to other systems, IRLP, or to EchoLink. Think of just the audio complexities. Each radio must be adjusted so the audio sounds good through itself PLUS the other five radios. This is only a brief synopsis of what controllers do!

The repeater antenna is usually fed with low loss coax or hardline. The antenna may be as much as 300 feet above the base of the antenna so the feedline must be low loss or much of the signal is lost going both directions. The repeater antenna is usually a collinear vertical that provides up to 6 dbd omni-directional gain by flattening the pattern much like a pancake. These antennas contain many stacked verticals inside a fiberglass tube and are around 20 feet long. There may also be several link antennas associated with the repeater. These may be as simple as 1/4 wave verticals to multiple phased yagis. Don't forget the support structures. These can range from small masts to large commercial towers.

News from North of the border!

From: Roy VE7IS and Jan VE7QE

We would like to remind everyone of our 8th Annual Christina Lake Picnic to be held on August 12, 2006 at Christina Lake, BC Canada. We had over 70 attendees this year (2005) and hope to see even more at the next one. There will be more information at the beginning of 2006. Keep your eyes open for these updates. We would also like to take this opportunity to wish all our friends from the US and Canada a very Merry Christmas and a Prosperous New Year.

73

Jan VE7QE & Roy VE7IS McNeil

(also known as VE7TST & VE7DTT) We are trying to get people use to our new call signs before we give them up permanently!



Name that Net operator!

**A NEW addition to our KBARA Newsletter:
To help acquaint our new and old readers with our
Net operators!**

Who Am I?

I have been a licensed ham for 15 years. I was born in Spokane June 25, 1941. I am retired from WSU after nearly 38 years of service, a large part of which was spent as a heavy equipment operator. I ran cranes, backhoes, trucks and various other pieces of equipment working out of the Physical Plant. I was a commissioned Whitman County Deputy Sheriff Reserve Officer for 16 years. During that time I was a Coast Guard boarding officer as well as putting in time doing other general duties. I live in Colfax, WA and have been married 38 years. I have 5 children and one stepson and 10 grandchildren. My main hobby is Ham Radio and especially being net control of several nets. I used to hunt, but don't do that any longer. I enjoy freshwater and deep sea fishing. I also enjoy camping. The Ham Radio nets that I do are the N.W. Regional International Net with check ins from Washington, Oregon, Idaho, Montana, Canada and Ohio on the IRLP and the Northwest. I am co-owner of the 146.740 repeater located on Kamiak Butte.



(for the identity of our guest biography, please see next to last page of the newsletter!)

What do we have at the various sites? At Mica Peak (147.38) we have a 2-Meter repeater, a 1-1/4 meter link radio, and two 70 CM link radios. At Stensgar (147.36/223.90) we have two repeaters (223.90 is also a linking system). At Lookout Pass (147.02) we have a 2-Meter repeater and a 70 CM link radio. At Kamiak Butte (146.74) and at Walla Walla (147.28) both sites have a 2-Meter repeater and a 1-1/4 Meter link radio. KBARA has a total of 12 radios, 12 antennas, 12 coax systems, 5 controllers, 5 power supplies, 9 duplexers & miscellaneous items such as cabinets, desks, racks, and on and on. So you can see, a lot of things can go wrong and it takes a lot of time and money to keep the system going as flawlessly as it has been going. What is the value of KBARA? **PRICELESS**.

KBARA NETS

(Pacific Time)

Join us on IRLP reflector 9205

Weekdays	7:00AM 7AM NW Regional/International Net
Nightly	10:00PM Night Crawlers' Ragchew Net (Sunday at 11PM)
Monday	7:00PM N.W. Elmer Net (summer excluded)
Wednesday	7:00PM Wednesday Evening KBARA Net
Saturday	7:00AM Bozo Net
Sunday	7:30AM Roadrunners' Net



2006 Pacific Northwest Hamfairs

(keep for easy reference!)

"Source: PNW Hamfair webpage at

<http://www.qsl.net/n7cfo/hamfests/hamfests.htm>".

February 19, 2006. Salem Hamfair & Computer/Electronics Swapmeet. Rickreall, Oregon at the Polk County Fairgrounds. (Ten miles west of Salem where Highway 22 meets 99W). Always the third Saturday in February. <http://www.qsl.net/w7sra>

February 12, 2006. Burnaby Amateur Radio Club (BARC) Swap meet. <http://www.ve7bar.org/>

March 11, 2006. Mike & Key Swap Meet. Puyallup fairgrounds exhibition hall, Puyallup, WA. 40,000 sq feet of display area on two floors. Puyallup is located approximately ten miles east of Tacoma, WA. <http://www.mikeandkey.com/flea.htm>. mdink@eskimo.com

March 11, 2006. Langley Amateur Radio Association, Radio & Computer Swap Meet. Elks Hall, 263 street and Fraser Highway, Aldergrove BC. 0900 to 1300. Tickets at the door. Lots of 'fleas', old and new. Everyone is welcome. For more information contact: Marilyn VE6SSS/7 msergi@shaw.ca .

April 8, 2006. Yakima Hamfest, Yakima, Washington. Selah Civic Center, 216 South 1st Street, Selah, WA. There will be breakfast and lunch on site on Saturday. (Note: The W7AQ web page is down) Info,

contact Lindsay Kooser, N7RHW 141 Stark Road #7 Yakima, WA 98908 Phone: 509-965-6612 Email: n7rhw@arrl.net .

May 7, 2006. O.C.A.R.C. 2nd Annual Flea Market. Orchard City Amateur Radio Club. Kelowna, BC. <http://www.ocarc.ca/2006%20Flea%20market.htm>

May 6, 2006. (Tentative date) Stanwood Camano Amateur Radio Club (SCARC) Hamfest, Stanwood Middle School, Stanwood, WA. Contact Vic, N7KRE (360-387-7705). huppert@whidbey.net.

May 2006. The Third Annual 145.29 Chili Cookout and Swap Meet. Albany, Oregon, 22 minutes south of Salem, close to I-5. The cost is \$5 and \$10 for families. 12 noon to closing near 5 PM. For information, contact Dan, WA7ABU, wa7abu@arrl.net . <http://www.qsl.net/wa7abu/Chili.html> .

June 2, 3 & 4. 2006. Apple City Radio Club Hamfest. Dryden Gun club. Dryden, WA. Free RV and tent sites, Saturday Breakfast, Saturday night potluck dinner. Always the first weekend in June. To get there go to the intersection of Hiway 2 and Hiway 97 and look for the signs. VE testing. Talk in 146.68, tone 156.7. Contact Judy, ka7zna@msn.com for information. <http://www.qsl.net/w7td/> .

June 10, 2006. Hamfest 2006. Kootenai Amateur Radio Society. Lions Club, Hiway 53, Rathdrum, ID. Always the 2nd Sat in June. Free overnight parking for self-contained RV's. Breakfast and lunch available on Saturday. Free entrance and free tables (first come first serve), VE Exams. Talk in 146.98/.38 . For more info contact Jim, N7ESU at (208)667-4915 or email n7esu@arrl.net .

June 16-18, 2006. Sea-Pac Hamfest. Seaside Convention Center, Seaside, Oregon. Registration info call Will Sheffield, N7THL. (503)642-7314. Email n7thl@juno.com . www.seapac.org/

July 14-16, 2006. Glacier Waterton International Peace Park Hamfest. <http://www.gwhamfest.org/>

July 21-23, 2006. Pacific Northwest DX Convention. Vancouver, BC. <http://www.bcdxc.org/2006convention.htm>

July 29, 2006. Chehalis Valley Amateur Radio Society Hamfest. Lewis County Fair Grounds, Chehalis, WA. There will be an outdoor covered area with tables available and tailgate space for those that want to provide their own. For additional details, contact John Ellingson, K7OSK, k7osk@boatanchor.com .

August 12, 2006. The 10th Annual Greater Portland Insulator Swap. Located on Mt. Scott in southeast Portland -- 9999 SE Frenchacres Dr. Portland, OR. Starts at 1:00 pm and runs until early evening. No charge. Tables and light refreshments provided. Everyone is welcome and families too. Bring insulators and related items to sell, swap, or show. This is an informal format in a big shady backyard. RSVP

appreciated so that we can plan the food. For more information contact Dan Howard (503)659-3520 email strains@msn.com.

August 2006. 2nd Annual Jackson Hole Area

Amateur Radio Club Ham Convention. Old Coulter Elementary School, 255 North Jean Street. VE testing & swap meet. Obtain updated information at:

<http://www.jhaarc.org/> jhaarc@qsl.net

August 2006. Jefferson Amateur Radio Society

(Jars). 24th Annual Swap and Potluck. Lake Selmac, Oregon. Lake Selmac is located about 20 miles SW of Grants Pass, OR on hwy 100/ <http://www.jars-orca.org/>. For information call, Stever grajeda, WB6YQP, (541)479-4772. wb6yqp@rascals.org

August 2006. Hamfest - Swapmeet. Bandon, OR. Located at the "Barn" (Bandon's Community Center). Sponsored by the Coos County Radio Club. Flea market, VE sessions, Vendors & Door prizes.

Contact Paul, K7AIA at (541)888-2050 or <http://www.coosradioclub.org/> <mailto:k7aia@arrl.net> . .

August 2006. Radio Club of Tacoma Hamfest and Electronics Fleamarket 2006! 9:00 a.m.- 2:00 p.m.

Bethel Junior High School, 22001 38th Ave E., Spanaway, WA. \$5.00 admission fee, Table fee: \$20 non-commercial \$30 commercial . Contact Frank E Palmer, AC7JY, (253)539-7772 or email AC7JY@msn.com. <http://www.w7dk.org/>

August 12, 2006. Christina Lake Amateur Radio Picnic/Campout. Christina Lake Motor Inn, Christina lake, BC, Canada. BBQ's and camp stoves will be provided. Pancake breakfast at 0900. Potluck picnic at 1400. For information, contact janroy@shaw.ca, (250)497-6136.

August 2006. LCARC Hamfair. Castle Rock Fairgrounds. Sponsored by the Lower Columbia Amateur Radio Association. Tailgate vendor space and RV parking is available. For information contact Bob, KB7ADO, KB7ADO@aol.com .

August 20, 2006. Antique Radio Swap Meet. Sponsored by the Puget Sound Antique Radio Association. 9 AM to 1 PM. Shoreline museum parking lot. N. 175th & Linden, Avenue, North Seattle. One block west of Aurora Avenue - one mile west of I-5, exit 176. This is the best antique swap meet of the year.

September 23, 2006 (tentative). Spokane Hamfest. (ARRL Washington State Convention) University High School, Spokane, WA 99206. <http://www.kbara.org/> Info, contact Betsy Ashleman, N7WRQ, n7wrq@aol.com . (509)448-5821

September 30 - October 2, 2006. (Tentative date) Pacific Northwest VHF Society Annual Conference.

Location to be announced - somewhere in the Puget Sound area. You do not have to be a PNWVHFS member to attend - all are welcome. More information on the society and photos of past conferences at: <http://www.pnwvhfs.org/>

October 2006. Swap-Toberfest, Polk County Fairgrounds, Rickreall, Oregon. (Ten miles west of Salem). For information, contact <mailto:n7bud@arrl.net> . <http://www.swaptoberfest.net/>

October 2006. North Kitsap Amateur Radio Club Hamfair. Bremerton, WA. Kitsap Fairgrounds. For information, contact Jeff Hasz, KS7H, (360)638-0775, email ks7h@jhasz.com or Ron Sefton, N7EM, (360)779-5418 ronsefton@hotmail.com. <http://www.nkarc.org/>

October 28, 2006. Mount Baker Amateur Radio Club Flea Market, Lynden, WA. Always the last Saturday in October. For information, contact <mailto:k7iey@netscape.net>

November 2006. Maple Ridge ARC swap. 12460 Harris Road Pitt Meadows Maple Ridge B.C. Canada. <http://www.qsl.net/ve7rnr/index5.html> . va7mr@telus.net

Trivia: XMAS Issued CALLS

NØEL -- G1FT -- KR1S -- KR1NGL -- RE1NDR -- N1CK

Officers

President

Robert Lemon W7HFI
509-397-4167
[lemon @ colfax.com](mailto:lemon@colfax.com)

Vice President

Ken Crosswhite, KD7DDQ
509-927-9865

Secretary

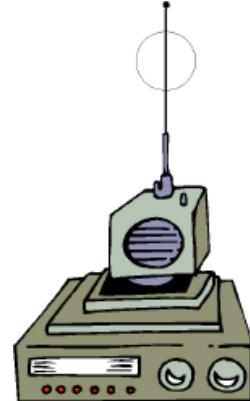
Betsy Ashleman, N7WRQ
509-448-5821
[n7wrq @ aol.com](mailto:n7wrq@aol.com)

Treasurer

Neil Gallup, N7LVO
509-747-5918

Newsletter

Wes Taylor, KD7HGG
KD7HGG@yahoo.com



And... the Hamfest Winner is!

To the members and supporters of the KBARA system and Spokane Hamfest:

Saturday, Sept. 24th is a day I'll long remember. Several events all hit me at once.

Marj and I got back in town too late for me to get to the Hamfest. Our little rental (next door) had a date with Roto-rooter at the same time.

A flash of "Who won the radio" during my involvement with the sewer drain. And a phone call I didn't need at the same time.

Needless to say the phone call which I nearly didn't answer telling me I'd won the Grand Prize at the drawing floored me. All I could say and think was :"May the Saints be praised."

I'd like to take this opportunity to say a very hearty THANK YOU to all who are active on the KBARA system, the nets and the Spokane Hamfest. Those who support it and make it work - YOU are the greatest.

Sincerely,
Txn 73's Mike Brewer, WA7MJB

Spokane Hamfest 2005 Hosts & Guests (who's that on the left? A Ham wanna bee?)



Guest Biography:
Bob Lemon, W7HFI

Trivia:

Did you know we have check in's from many different areas? To name a few: frequent checkins from Canada (British Columbia and and Western

Canada (British Manitoba), Ohio, Washington.



(source of clip art: http://www.wm8c.com/radio_clip_art.htm)

AMATEUR RADIO LICENSE TEST SESSIONS

Coeur d'Alene, ID

Contact: John Hollar, Jr., N7JU, phone: 208-765-5470
email: n7ju@arrl.net

College Place/Walla Walla, WA

Every May, August, November, February, third Sunday of month

Walla Walla College, Industrial Technology Bldg., SW 4th & Bade St., College Place, WA, 99324

Contact: Mable Babbitt, WB5AVH, phone: (509)525-7003
e-mail: wa5zay@msn.com

Colville, WA

The Armory, 225 South Silke Road, Colville Wa

Talk-in 146.62 MHz (minus offset)
PHARC regular club meeting will follow testing at 7:30 pm
Contact: Karl Miller, KC7KPA, phone (509)258-8922 or (509)-684-6491 email: kc7kpa@msn.com

Grangeville, ID

December 21, 2005; Super 8 Motel, 801 W.S. 1st St., Grangeville, ID 83530, call for time
Contact: Larry Keith, phone (208) 983-2163

Kennewick, WA

American Red Cross Bldg, 7202 W. Deschutes Ave, Kennewick, WA 99336
Contact: Andrew Rakowski, W7UNX; phone: 509-734-9507; email: w7unx@arrl.net

Lewiston, ID

First Tuesday of each month, Nezperce County Court House, Emergency Management Office Basement, Lewiston ID 83501

Contact: Lyle Cable, phone: (509)758-8374

Sagle, ID

Third Saturday of each month by appointment
Contact: Russ Arndt, AA7XM, phone: 208-265-4534 (after 8PM) email: russell.arndt@verizon.net

Spokane, WA

Every month 2nd Thursday, 5:00PM (summer months excluded), upstairs meeting room, Tidyman's Grocery, 13014 E. Sprague Ave., Spokane Valley, WA

Contact: Mary Qualtieri, AA7RT, phone (509)991-2192 email: aa7rt@arrl.net

December 13, 2005, Tuesday; February 28, 2006, Tuesday; April 25, 2006, Tuesday; 7PM; University High School, Room E102, 12420 E 32nd, Spokane Valley, WA 99216 (signs will be up pointing the way; use far east entrance on 32nd Ave)

Contact: Betsy Ashleman, N7WRQ, phone: (509) 448-5821 email: n7wrq@aol.com

Please remember to renew your membership in **KBARA.... We desperately need your financial support!**

Name _____

Call Sign _____

Address _____

City/State _____ Zip _____

Telephone _____

Amount Paid _____

E-mail _____

ARRL Member? _____

____ New Sponsor ____ Renewing Sponsor ____ Individual
Sponsor ____ Family Sponsor

Dues are a minimum of \$15.00 per year for individuals and \$20.00 for a family (all must be living at the same address), but any amount will be greatly appreciated. Dues are due January of each year. If they are paid between September 1 - December 31, they will be applied through the entire following year. To support KBARA, please send your contributions to: **KBARA, PO Box 30801, Spokane WA 99223-3013. And any additional amount will be gratefully accepted to the Repeater Fund.**