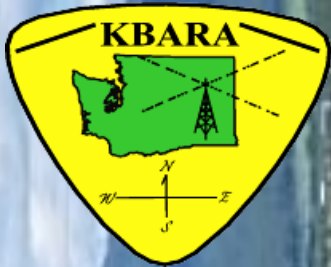


Spring 2024



Quarterly Journal of the Kamiak Butte Amateur Repeater Association

KBARA Gazette

ARRL Field Day 2024

June Radio Field day will be upon us shortly (June 22 and 23). I will be committee organizer for this year's event. I have secured the Valleyford park for this event. The park has a bathroom with flush toilets and sinks configuration for each gender.

The objective of Field Day - straight from ARRL:

"To work as many stations as possible on the 160-, 80-, 40-, 20-, 15- and 10-meter, HF bands, as well as all bands 50 MHz and above, and in doing so to learn to operate in abnormal situations in less than optimal conditions. A premium is placed on developing skills to meet the challenges of emergency preparedness as well as to acquaint the general public with the capabilities of amateur radio."

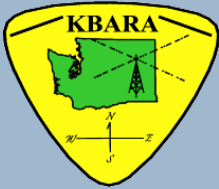
You can follow up with more of the objectives and rules at: <https://www.arrl.org/> and follow the links for Field Day.

I am requesting input from those who wish to participate either during the event. The input I am seeking is 1) how many stations should we put up; 2) Who is willing to loan equipment for the purpose of this event; And 3) shall we put a GOTA station. Furthermore, I would like to put together a committee with the objective to assist toward the organizing, setup of antennas and other necessary items and the close down of this event. You can reply to me at Mr.Timm@att.net.

Jim N7WRR and Betsy N7WRQ have said they have a generator for the club's use and, of course, a coffee urn - to keep sharp and awake. Betsy suggested "potluck" type of dinner for the people who wish to stick around and socialize. I will make pink beans chili, using pink beans, hamburger, onions, so on and so forth. If you are so inclined to bring an item to this gathering please let me known at my e-mail Mr.Timm@att.net.

Ok, I said enough for now. I will standby and wait. Or as we said in the Coast Guard: "Hurry up and wait". Except - Digital operators are WELCOMED.

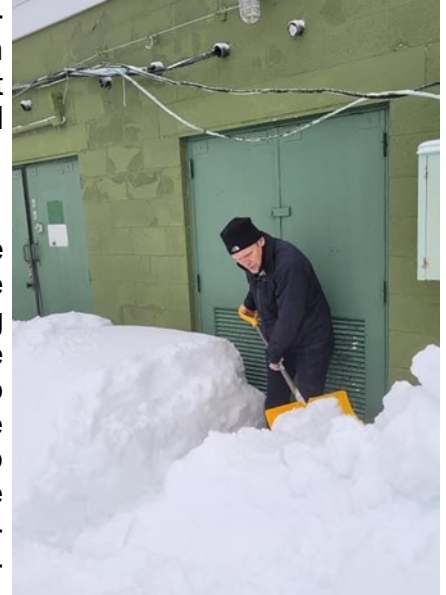
Tim (N6JXN)



Technical Update

by Jim, N7WRR

Since the last KBARA newsletter most of the system has worked fairly well which is good since most sites are very difficult to access in the winter. I did do one trip to the 147.38 repeater on Mica Peak. It is the most accessible repeater in the winter since the road is plowed to the Home Land Security / US Airforce site there.

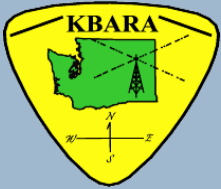


Mica Peak 147.38 repeater. We were having some issues with the link from Mica to the hub at Stensgar. I went up to the Mica Peak site on January 29th to re-establish the 220 MHz link to the hub. Falling ice had bent the link antenna so it was pointing down towards the ground. I was able to bend it back up. I also increased the link radio power from 5 watts to 10 watts to help keep the link up through the winter if it did get bent down some again. This summer I will try to design an ice shield or stand off mount for the link antenna. We were still getting some key up interference at Mica on the link from Lookout; I had previously installed a filter on the receive at Mica and increased the squelch which had eliminated most of it. So I further increased the squelch on the receive of the 440 MHz link radio that receives the signal from Lookout. We are still receiving Lookout fine and it has helped further reduce the key-up interference we get, so it is now down to less than once a week during the morning nets. This interference is from a local source and not the link signal from the 147.02 Lookout repeater. We have been getting more and more people accessing the system from the Lookout repeater as they find it working again.

Pikes Peak 147.28 repeater. The 147.28 repeater and link have been working well since Dave K7DSR and I went down last December and re-established the 220 MHz RF link to the hub at Stensgar. There was only a couple of days where the link was a little marginal, and that coincided with a bad snow and ice storm at site and was probably do to the antenna icing up, but it has been working well since. Pikes Peak has also been getting more users since it has become more reliable.

Now that snow is melting off the sites, upcoming projects for this summer include fixing the long tail that has developed on the Mica repeater and changing the 220 MHz link antenna mounting system and possibly new feed line for it. Also need to get with Scott KA7FVV and Glen K1RR to arrange a trip to the 147.32 West Twin repeater to replace the IRLP equipment that links it into the rest of the KBARA system. I may also do a trip to the 147.02 Lookout site to meet up with Lyndel N7LT to help tune up our repeater and also clean up some of the coax and cabinet we left at the old site.

Remember to check into the weekly KBARA Wednesday evening nets at 7pm for more information on the status of the system and with any questions you may have regarding the system or questions in general regarding amateur radio. We will try to get you answers.



Guy Venne, VA7GV SK

January 18, 1939 - January 27, 2024

From his obituary and Jim, N7WRR. Pictures courtesy Valarie, KG7OWX and Glen, K1RR.

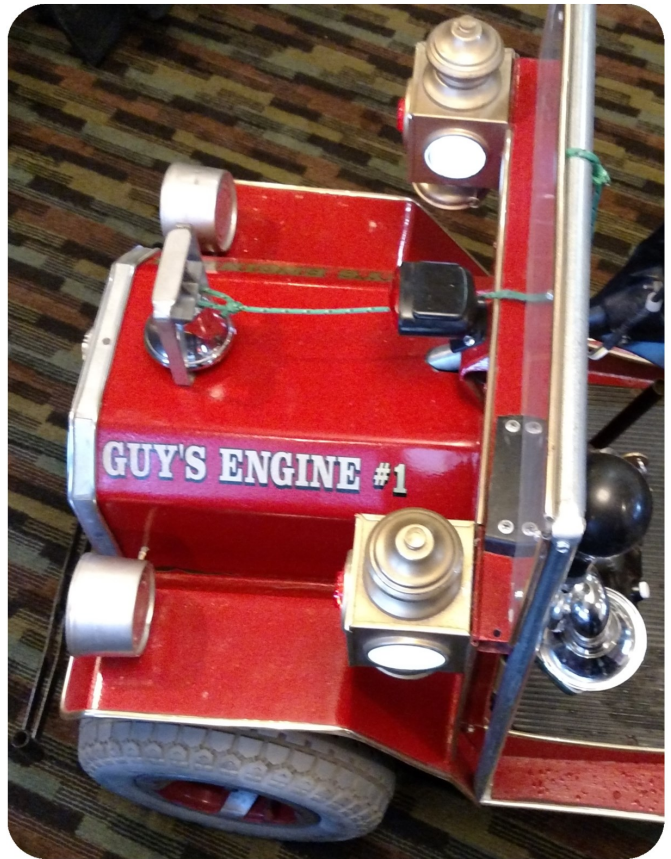
Guy passed peacefully on January 27th, 2024. He spent his last days surrounded by family and the supportive staff at Kelowna Hospital. Guy is survived by his spouse Dona, sons Tyler (Myrna) and Darin (Charlotte), granddaughters Kierstin (Cody) and Erica, stepdaughter Kelli (Al), Step-Grandsons Cameron (Brittany), Ryan (Krista), Josh (Breeann), and Brandon (Jessica), an army of great grandchildren, and the many others that have impacted his life.

Guy had a fulfilling career as a Civil Services Fire Fighter for 33 years starting in Cold Lake Alberta, then moving to Yukon Territories, and finally ending up at the Penticton airport. On the side, Guy had a booming electrical business, and spent many hours volunteering with the Eagles and the Legion. After retiring, Guy and Dona spent their free time RVing across Canada and the USA.



Guy VA7GV was a long time member of KBARA and checked in on our nets and showed up at many of our annual meetings with his wife Donna. Quite a few will remember him from the workshops he did at 3 to 5 of the KBARA annual meetings for doing a class on building a copper J-pole antenna and then always donating to one of the new hams in attendance. He had worked for the fire department up Canada and made up model fire engines in his retirement and we would get reports of his progress on the morning nets. We miss hearing and seeing Guy and Dona. Thanks for your support of KBARA and all the memories.





KBARA Members for 2024

<i>Call</i>	<i>Name</i>	<i>Call</i>	<i>Name</i>	<i>Call</i>	<i>Name</i>
KD7AAT	John P. Myers Jr.	KF7PQK	Relly Earhart		
WB7AUK	Art Gemmrig	KD7QLT	Wilber H. Earl		
N7AWD	Ronald K Hess	AG7QP	Frank E Hutchison		
KA7BMX	Charles George	KK7RGC	Terrill Martz		
KA6BPV	Christian Stumm	KJ7RHU	Bruce Hogan		
WA7CBX	Bemie Frazier	WA7ROS	Anna M. Reeves		
KK7DRI	Lorelei Hartley	K1RR	Glen Ahlbom		
KB7DRY	Stacy Franklin	AI7RS	Kristen Snyder		
WB7DTK	Stephen C. Langford	KJ7RTV	Bill Schulz		
WX7DX	Karl M. Miller	KG7SD	Richard Thorton		
AL2E	Kenneth W. Fisher	KE7SH	Allan A Bonney		
KK7FIH	Randy Sorensen	KK7SIL	Douglas Smith		
N9FOX	Barbara J. Moore	KK7SJM	Shane Moscatelli		
KF7FRZ	Thea Earhart	KJ7SJY	Gary Collins		
KI7FSG	Brandon Wagner	KA7SMU	Donald Kolb		
KA7FVV	Scott P. Harvey	KK7SOB	John Wilkes		
WH6FZY	Joseph Halasey	KC7TTM	Cleo C. Miller		
K2GEP	Gregory Preuss	KF7UTH	Dennis P Roberts		
KB7GJY	Allen Gemmrig	KB7WB	Claude Shook		
KE7GUB	Kelra Earhart	K7WCB	William Banner		
KM7H	Jim Johnson	WA7WKX	Stephen Lalonde		
KK9HAM	Albin Ennsthaler	N7WRQ	Elizabeth Ashleman		
KI7HDZ	Michael Duniap	N7WRR	James Ashleman		
KI7HEA	W Cameron Duniap	W7WTO	Royal Moore		
KK7IOP	Tory Carl	AD7XH	Richard L Schultz		
KM6JG	David Croteau	KB7YGR	Teresa (Terry) George		
W7JJR	James Rowe	KE7YHX	Randall Spencer		
K7JRP	Jay Panches	KJ7ZXF	Mike Klungland		
N6JXN	George H. Timm				
KJ7KXL	John Beaudreault				
W7LKR	Patrick Brandt				
K7LRG	Leonard Gross				
KL7M	David Cloyd				
K7MM	Dan Ransom				
W7MN	William Jeremie Duniap				
AG7NA	Gerry O'Brien				
K7NEB	Keith Bansemer				
N1NG	Michael Maxson				
KK7NND	Robert McCallum				
KK7NNP	Paul Morgan				
AK2O	Karl Shoemaker				
W7OE	John P. Dempster				
KG7OEC	Alexander Navarro				
KG7OWX	Valaire Poler				
KG7OWY	Murray Poler				
AA7P	Richard J. Hebel				
K7PDZ	James Long				
W7PGW	Pete Weigman				
K7PHM	Richard M Flynn				

KBARA REPEATER FUND CONTRIBUTIONS 2024

We wish to thank the following contributors for their very generous donations to this year's Repeater Fund. For the year 2024 to date, \$1300 has been donated.

Platinum Contribution

Contributions \$100 and over

Wilber KD7QLT
Allan KE7SH

Jim KM7H
Jim K7PDZ

Dennis KF7UTH

Gold Contribution

Contributions from \$50-\$99

Steve WB7DTK
Gary KJ7SJY

Greg K2GEP

Tory KK7IOP

Silver Contribution

Contributions from \$21-\$49

Murray KG7OWY
Valaire KG7OWX

Tim N6JXN
Joe WH6FZY

Doug KK7SIL
Randy KE7YHY

Bronze Contribution

Contributions from \$1-\$20

John KK7SOB
Gerry KG7NA
Shane KK7SJM
Albin KK9HAM
Keira KE7GUB

Thea KF7FRZ
Reilly KF7PQK
Ron N7AWD
Christian KA6BPV

Don KA7SMU
Paul KK7NNP
Alex KG7OE
David KM6JG

INLAND EMPIRE VHF RADIO AMATEURS

FIRST ANNUAL
SATURDAY,
JUNE 8TH, 2024

STARTS AT 7 AM

THERE IS A \$5 FEE TO SELLERS.

BUYERS ARE FREE.

**TALK IN FREQUENCY: 146.520 SIMPLEX
KA7FVV WILL BE THE TALK IN STATION!**

**ALSO THE IEVHFRA FREQUENCY 146.880 WILL
BE MONITORED**

**PLANTE'S FERRY SPORTS COMPLEX
12320 E UPRIVER DRIVE – SPOKANE, WA
BACK PARKING LOT**

**WE WILL HAVE A COUPLE OF STATIONS SET UP
ONE FOR TECHNICIANS TO TRY THEIR HAND ON
10M, ANOTHER ON VHF. AS AN ADDITIONAL
INTEREST POTA SETUPS, POWER BOXES AND
PLEASE BRING YOUR POTA SETUP TO DEMO.**

FOR MORE INFORMATION

**DUANE, KE7NUB AT 509-435-7718,
SCOTT, KA7FVV AT 509-939-9393 OR
JEFF, NZ2S AT 510-501-4502**





Kamiak Butte Amateur Repeater Association
 KB7ARA
 PO Box 30801
 Spokane WA 99223-3013



KBARA is a support group for several club and privately owned linked Amateur Radio repeaters. The system covers an area from NE Washington to NE Oregon, and from western Montana to central Washington. The KBARA system is also part of the Evergreen Intertie, an interconnected group of repeaters located in western Washington and Oregon. The primary purpose of the KBARA repeaters is to provide a means for emergency communications within the above areas, and secondarily for routine radio traffic. It makes possible a single system of mobile communications coverage, extending the limited range provided by any single repeater operation. The KBARA FM repeaters operate in the VHF bands and are linked by UHF radios, IRLP, EchoLink KB7ARA-R, and AllStar node 53587. The repeaters' frequencies, call signs and locations are as follows:

- 147.380 MHz N7WRQ on Mica Peak near Spokane, WA, owned by Betsy N7WRQ & Jim N7WRR
- 147.360 MHz N7WRR on Stensgar (Stranger) Mt. near Chewelah, WA, owned by Jim N7WRR & Betsy N7WRQ
- 147.320 MHz (103.5 Hz tone) KA7FVV on West Twin near Moscow ID, owned by Scott KA7FVV & KBARA
- 147.280 MHz KB7ARA on Pikes Peak in the Blue Mountains near Walla Walla, WA, owned by KBARA
- 147.020 MHz KB7ARA on Lookout Pass on the Idaho-Montana border, owned by KBARA
- 223.900 MHz KB7ARA hub repeater on Stensgar (Stranger) Mt. near Chewelah, WA, owned by KBARA
- 444.350 MHz N1NG (192.8 tone) on Mica Peak near Spokane, WA, owned by Mike N1NG
- IRLP Node #3638 in Spokane WA owned by Glen, K1RR

All licensed Amateur Radio operators are welcome to use this open repeater system.

To support KBARA, please send your contributions to: KBARA, P.O. Box 30801, Spokane, WA 99223-3013

Name _____ Call Sign _____

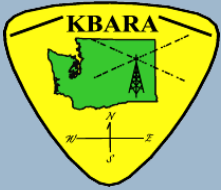
Address _____

City/State _____ Zip _____

Telephone _____ Amount Paid _____

Email Address _____ ARRL Member? _____

Dues are \$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. Also, any contribution to the Repeater Fund will be gladly accepted. For more info, please visit our website at www.kbara.org. See us on Facebook.



A Trip Back in Radio History

Namesake of the Yagi antenna

While you yourself might not use one, if there's an antenna picture that's ever been associated with ham radio, it's that of the *Yagi antenna*. Until cable TV swept the globe, its odd shape could be seen mounted on millions of rooftops world-wide as an *effective receiving aerial*.

Today, we credit [Hidetsugu Yagi](#) with the patent of the Yagi antenna, his namesake. But the antenna is more properly called the *Yagi-Uda antenna*, after the two who actually developed it, including [Shintaro Uda](#), its primary inventor.

Yagi was born 1886 in Osaka, Japan, just two years before Heinrich Hertz began his experiments on radio wave phenomena. Early on, he preferred the arts rather than the sciences, but gradually fell in love with the physical sciences. Eventually, he earned an engineering degree from [Tokyo Imperial University](#) at age 24, then started teaching at the Sendai Engineering High School. After four years of teaching, the Ministry of Education sent him on a European tour to further his education.

Yagi first went to Germany to study resonant transformers, but was interrupted by World War I in 1914. He left Germany and headed for England, and started working for [John Fleming](#). After two years of experimental studies with Fleming, Yagi came to the US to work at Harvard University with none other than George Pierce, the developer of the Pierce oscillator. While in the US, Yagi joined the [IRE](#), the forerunner of the [IEEE](#), giving him access to American engineering resources when he returned to Japan.

Yagi earned a doctorate in his home country in 1921, two years after his Sendai Engineering High School merged with [Tohoku Imperial University](#). He soon gathered an elite team of students to help with his research on radio wave generation.

Among Yagi's students was [Shintaro Uda](#), who soon began experimenting with vacuum tube triode oscillators and formed waves into a directional beam with a strange-looking antenna. Uda created the antenna by measuring the radiation patterns of the field, altered by parasitic loops, and later rods, placed at specific positions around the resonant driven element. Uda proceeded to publish a series of papers that described the evolution of this new and effective antenna, both in Japan and in the IRE, under Yagi's direction.

Eventually, Yagi applied for a patent on behalf of Uda, no intended deception or credit-taking on his part, both in Japan (later transferred to the [Marconi Company](#)) and in the US (later transferred to [RCA](#)). You can read more about Hidetsugu Yagi on [ARRL](#) (members login).



Yagi using his namesake



Upcoming Hamfests and Events

Courtesy of N7CFO.com

~~~~~2024~~~~~

**May 4th. Star Ham Radio Swapmeet in Star, Idaho.** <https://www.starhamradio.com/>

**May 4th. Spout Springs Repeater Association Swapmeet.** 9 AM at Confluent, 285 Williams Blvd, Richland, WA 83354. [Flyer in PDF](#). Contact Alex Archer at [events@SSRA.net](mailto:events@SSRA.net)

**May 11. Stanwood Camano ARC 31st Annual Electronic Flea Market and Hamfest. Stanwood, WA. *This is an ARRL Sanctioned Event.*** [https://scarcwa.org/ham\\_fest.shtm](https://scarcwa.org/ham_fest.shtm)

**May 11. SWIARC Spring 2024 Spring HamFest,** Peace Valley Charter School, 1845 S. Federal Way, Boise, ID 83701 ***This is an ARRL Sanctioned Event.*** <http://www.dosomethingradio.com>

**May 31, June 1-2, 2024. SEA-PAC Hamfest and ARRL Northwestern Division Convention. *This is an ARRL Sanctioned Event.*** Seaside Convention Center, Seaside, Oregon. [info@seapac.org](mailto:info@seapac.org) . [www.seapac.org/](http://www.seapac.org/) . [February issue of Sea-Pac Waves.](#)

**June. Port Ludlow ARC Tail Gate Swapmeet.** <https://www.n7pl.org/swapmeet23.html>

**June 7, 8, & 9. Wenatchee Apple City ARC Hamfest, Dryden, WA. *This is an ARRL Sanctioned Event.*** <https://www.applecityarc.com/> [Flyer in PDF](#). (290 K) [Map](#)

**June 8. Inland Empire VHF Radio Amateurs Swap meet.** Plante's Ferry Sports Complex, 12320 Up river Drive, Spokane, WA. Back Parking Lot. [Flyer in PDF](#) (1.3 MB)

**July. Coos County Radio Club Hamfest and Swapmeet.** Bandon, Oregon.

**July 19-21. Glacier Waterton International Peace Park Hamfest.** Glacier Meadows Campground, 13 miles west of East Glacier on MT Hwy 2. <http://www.gwhamfest.org/>

**July 20. Chehalis Valley ARC Ham Radio Tailgate Swapmeet. *This is an ARRL Sanctioned Event.*** <http://www.cvars.org/>

**August 3. Kootenai Amateur Radio Society (KARS) ARRL Idaho State Convention,** Post Falls, ID. ***This is an ARRL Sanctioned Event.*** [www.k7id.org](http://www.k7id.org)

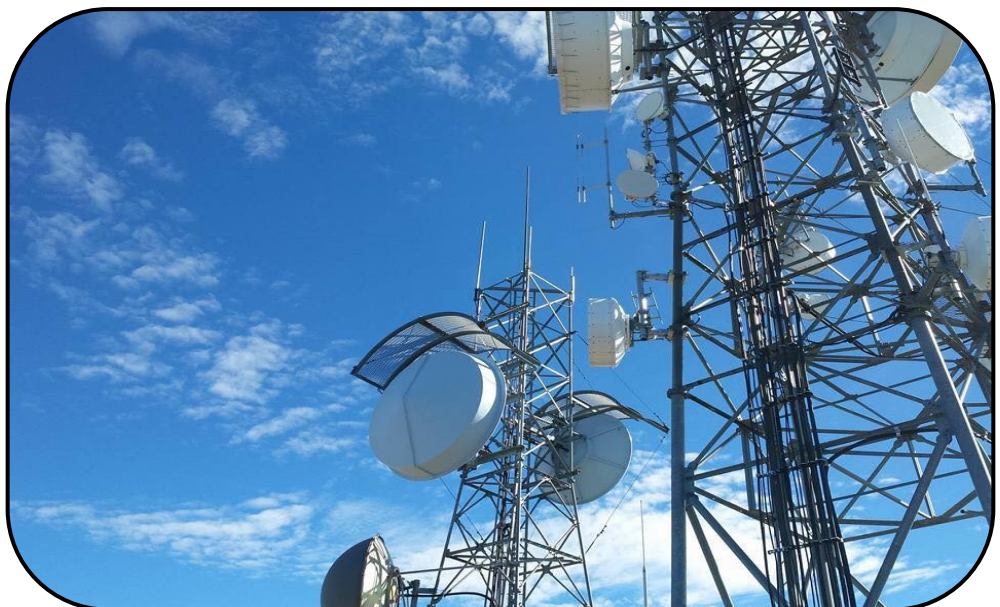
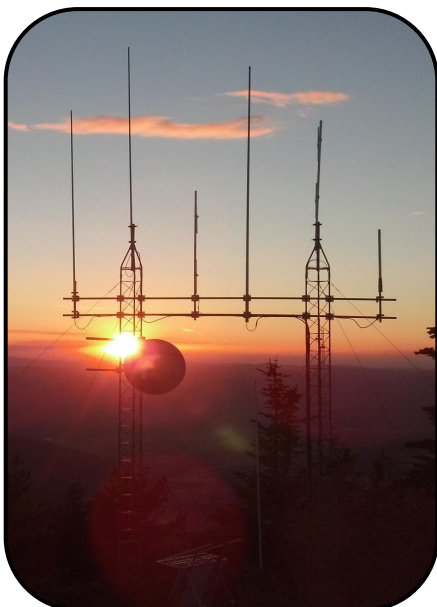
**August 9-11. Pacific NW DX Convention.** Everett, WA <https://pacificnwdxconvention.com/>

**August 17. 15th Annual Tailgate Swapmeet.** Mini-Cassia Amateur Radio Club, Inc. 9:00 am - 1:00 pm. Minedoka County Fairgrounds, 085 East Baseline Road, Highway 25, Rupert, Idaho. <http://www.minicassia.club>



# KBARA Repeaters and Echolink/IRLP Nodes

| Frequency         | CTCSS Tone | Location          | Call sign | RF Link         |
|-------------------|------------|-------------------|-----------|-----------------|
| <b>Repeaters</b>  |            |                   |           |                 |
| 223.90 MHz        | None       | Stensgar Mtn      | KB7ARA    | Hub             |
| 147.38 MHz        | 100.00     | Mica Peak         | N7WRQ     | KB7ARA—223.90   |
| 147.36 MHz        | None       | Stensgar Mtn      | N7WRR     | Hard wired Hub  |
| 147.02 MHz        | None       | Lookout Pass      | KB7ARA    | N7WRQ—147.38    |
| 147.28 MHz        | None       | Pikes Peak        | KB7ARA    | KB7ARA—223.90   |
| 147.32 MHz        | 103.5      | West Twin, Moscow | KA7FVV    | IRLP            |
| 444.350 MHz       | 192.8      | Mica Peak         | N1NG      | Stand Alone     |
| <b>Links</b>      |            |                   |           |                 |
| Echolink KB7ARA-R | N/A        | Spokane, WA       | KB7ARA-R  | KB7ARA - 223.90 |
| IRLP Node 3638    | None       | Spokane, WA       | K1RR      | KB7ARA—223.90   |



**KBARA Membership / Support Information:** The KBARA repeater system consists of several club & privately owned linked Amateur Radio repeaters. It covers an area from northeastern Washington to northeastern Oregon, and from western Montana to central Washington. The KBARA system is also part of the Evergreen Intertie, an interconnected group of repeaters located in western Washington and Oregon. The primary purpose of the KBARA repeaters is to provide a means for emergency communications within the above areas, and secondarily for routine radio traffic. It makes possible a single system of mobile communications coverage, extending the limited range provided by any single repeater operation. The KBARA FM repeaters operate in the VHF bands and are linked by UHF radios. All licensed Amateur Radio operators are welcome to use this open repeater system. Your support would also be greatly appreciated. Please visit this site for more information:

<http://www.kbara.org> for more information about the club and repeaters.

## KBARA Officials

### Directors

Jim Ashleman, N7WRR  
Scott Harvey, KA7FVV  
Glen Ahlborn K1RR

### Officers

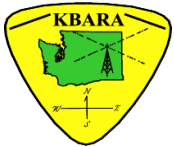
President: Dave Carleton, K7DSR  
Vice President: Jim Johnson, KM7H  
Secretary: Tim, N6JXN  
Treasurer: Betsy Ashleman, N7WRQ

Testing is held the 3rd Wednesday of every month. Brought to you by Glen, K1RR. If you have any questions please contact Glen at [glen@k1rr.com](mailto:glen@k1rr.com) or 509.216.0666.

**Contact Glen for updates on testing.**



To support KBARA, please send your contributions to:



**KBARA**  
**PO Box 30801**  
**Spokane WA 99223-3013**

Annual support is \$15 per calendar year for a single membership and \$20 for a family membership. Dues are due in January of each year and if paid between September 1 and December 31, they will be applied through the entire following year. Also, any contribution will be gladly accepted to the Repeater Fund. This can also be done via PayPal on our webpage at [www.kbara.org](http://www.kbara.org).

## KAMIAK BUTTE AMATEUR REPEATER ASSOCIATION

PO Box 30801

Spokane WA 99223-3013