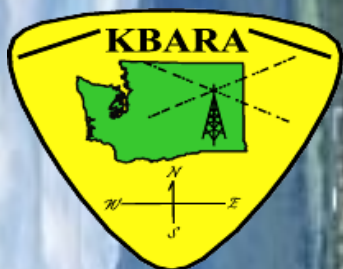


Winter 2023



Quarterly Journal of the Kamiak Butte Amateur Repeater Association

KBARA Gazette

A New Year and a New Look to the Gazette



2022 Annual Mtg at Deer Lake, August 21, 2022



Dave, N7DSR planning next meeting



Cyril, WA7LOV sharing his wisdom.



Glen, K1RR looking for recycling.



Scott, KA7FVV making th rounds.



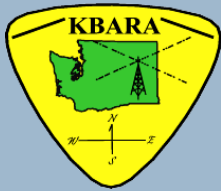
Jim KM7H



John KJ7KXL



Mark K7HPT & Barbara



Annual Meeting continued...

Kamiak Butte Amateur Repeater Association

Annual Meeting Minutes August 21, 2022

3938 N Deer Lake Rd, Loon Lake WA 99148

The 44th annual KBARA meeting was called to order by President Dave Carleton K7DSR at 1:12PM, with 17 in attendance.

Last year's minutes were read by Betsy Ashleman N7WRQ, Treasurer, and approved by the members.

The Treasurer's report was reviewed. The club had 87 members and a bank balance of \$8,194.37; revenues totaled \$3,805.00, expenses \$3,176.70; memberships \$775, extra donations \$2,030.00. The expense of replacing the Stensgar two meter repeater, \$1,709.23, was more expensive than expected. The report as read was approved by the members.

Silent keys were remembered: Jack Williams W7HNH, always a friend to many of us and KBARA and the Evergreen Intertie; Roger Krug KF7JJC, past KBARA president and supporter of KBARA.

Under new business, reports on the repeaters were given. Jim Ashleman N7WRR said the link from Mica Peak to the Lookout Pass repeater had intermittent interference, and that a filter to help eliminate that had been acquired, which would be installed soon. The Stensgar repeater still had some interference from Avista, causing the repeater to intermittently stop transmitting. Scott Harvey KA7FVV reviewed the recent trip to West Twin when the system had to be restarted due to an electrical storm. More grounding was planned to be done on the next trip. And it was reported that the Naneum Ridge repeater belonging to Kerry Griffith KB7TYR was still in existence, but that repairs might have to be made to his link radio that connects to the KBARA system. Dave K7DSR reported on EchoLink, saying he hoped to have its antenna on his tower shortly, & have that system running.

Use of the KBARA system was commented on, with various organizations conducting nets on the system.

The officer and director elections were held, with Dave K7DSR being again elected as President, Jim Johnson KM7H as Vice President, Harry Estep W7HEE as Secretary, Betsy N7WRQ as Treasurer, and Glen Ahlborn K1RR as Director (a 3 year term).

The next annual meeting will tentatively be held Sunday, August 20, 2023 with the location yet to be determined.

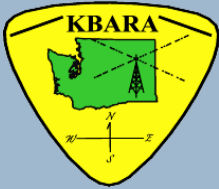
The meeting was adjourned at 1:45PM.

Respectfully submitted,

Betsy Ashleman N7WRQ

KBARA Treasurer

Annual Meeting attendee pictures continued on page 5



21st Annual Holiday Luncheon



Camaraderie, just plain “rag chewing”, laughter, over-eating...yes, you guessed it, our annual Ham Radio holiday luncheon, held on December 17, 2022 at the Longhorn Barbecue Restaurant, has come & gone. Attended by the local clubs as usual, some 35 folks braved the weather & virus bugs to catch up with long-time & new friends & chow down on Spokane’s best BBQ ribs. It was the 21th annual holiday gathering.



Jim, N7WRR and Betsy, N7WRQ



Dennis WQ7O and YL Nina



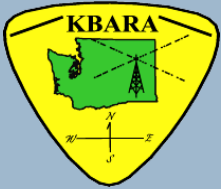
Dick AD7XH



Frank AG7QP



Greg K2GEP



Holiday Luncheon continued...



Jack KI7YIF



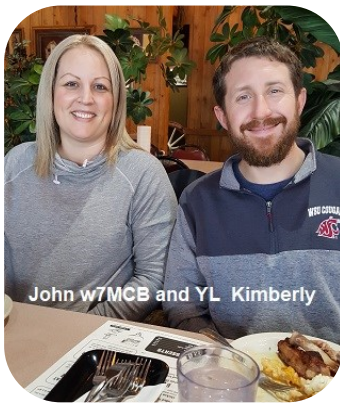
Jeff NZ2S



Julie KD7JUL and Dave K7DSR



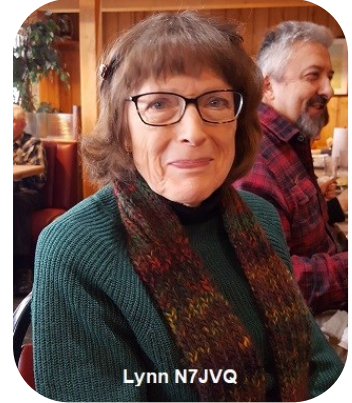
John KJ7KXL YL Autumn



John W7MCB and YL Kimberly



Leonard K7LRG



Lynn N7JVQ



Michael KD7GHZ

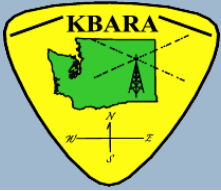


Mike KJ7ZXF and YL Kay



Richard KJ7LVD and Brenda KJ7LVA





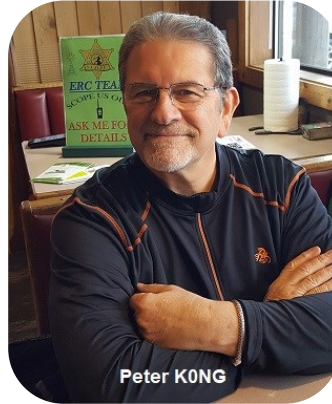
Holiday Luncheon continued...



Tim N6JXN and YL Nadine



Joe WH6FZY and YL Cindy



Peter K0NG



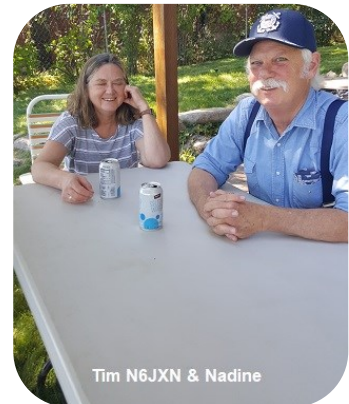
Valaire KG7OWX and Murray KG7OWY



Annual Meeting continued...



Jim K7PDZ & Jane



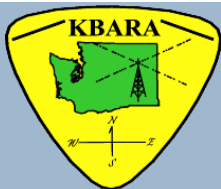
Tim N6JXN & Nadine

Editors Note:

A special thanks goes out to Valaire, KG7OWX and Murray, KG7OWY for providing the great pictures of both the Annual Meeting and the Holiday Luncheon.



John W7OE & Linda



KBARA Technical Update

by Jim, N7WRR

Technical Update

By Jim N7WRR

Most of the KBARA system has been working fine this last quarter. Pikes Peak 147.28 repeater out of Walla Walla has been working great and is getting more check-ins on the morning nets and new members from our southern region. West Twin 147.32 continues to work well after Scott KA7FVV and I reset it last Summer.

IRLP. We were having some audio problems with West Twin 147.32 linking into IRLP which Glen K1RR has been working on. Also we had some problems with packet loss for several days. A big thank you to Dave KL7M, our IRLP reflector host, for finding and fixing the problem. As of the 25th of December IRLP sounds great again.

EchoLink and AllStar. We finally have EchoLink access again into the KBARA system. A big thank you to Fred W5MGM; he is hosting both EchoLink and an AllStar node out of Texas for us that is tied into the IRLP reflector 9075. EchoLink is still KB7ARA-R and works much better than when we had it as a direct radio link. You no longer have to wait for zero traffic on the system to log in, so it is much easier to log in during net time. The new AllStar node is 53587; give it a try if you have AllStar access. We have had a couple check-ins on the morning net with people using it. Our host Fred is a UPS driver in Texas and has been checking into our morning nets as he does his deliveries; its great to hear him and give him a big thanks.

Mica Peak 147.38. Tim N6JXN accompanied me to the Mica site on October 11th and we installed a polyphaser on the 2m antenna feed line and did some adjustments to the audio levels. Also added battery back up to the controller, hub link radio and Lookout link radio. A special cable was need for the Yaesu 2m repeater to add battery back up for it. Betsy has ordered the cable and we will complete the Mica site back up when it arrives. On November 21st Rod KC7AAD accompanied me to the Mica site with his service monitor and other high-end test equipment and we set the deviation on all the radios so all the audio levels are good now. We found that one of the pots in the controller is bad for the hub link and that is why we have had so much trouble adjusting it. All of the antennas and feed lines are looking good at this time. A big thanks to Rod; Mica is sounding great now.

Lookout 147.02. I went up to the Mica site on September 13 and installed a filter on the receive of the Lookout link radio to try to eliminate the interference we were getting. It was only partly successful and I will look into getting a filter for the Lookout end as well. However, we have since lost the link out of Lookout; it receives Mica fine, but no transmitted signal out of Lookout. So Lookout is stand-alone until next summer when the snow melts and we can get access to the site again.

Stensgar 147.36. I have adjusted some of the controller settings at Stensgar so key up delays are not as much on the system, but the repeater still cuts out at times. We believe Avista is causing the interference that causes the transmitter to go out intermittently. We have done what filtering we can, but there is not much else we can do. Until they move to their new site, which won't be until next summer at the earliest, we have to live with it.

ANNOUNCING THE 41st ANNUAL MIKE AND KEY ELECTRONICS SHOW & SWAP MEET

March 11, 2023

Pavilion Exhibition Hall Washington State Fairgrounds

110 9th Avenue SW, Puyallup, WA

ADMISSION \$10 (under 16 free with adult)

TWO FLOORS WITH 44,000 Sq FEET OF EXHIBITION SPACE

TALKIN 146.82/22 (PL 103.5)

ARRL LICENSE EXAMS

RADIO GEAR * COMPUTERS * PARTS * CLUB TABLES * SNACK BAR

FREE PARKING * CONSIGNMENTS * OVERNIGHT SC/RV Available



Table Reservation Information: (253) 831-3756, n7wa@arrl.net

VE Exam Information: (425) 788 0452, ag7t@arrl.net

Full Event Info at: <http://www.mikeandkey.org/SwapMeet.php> Fill out both sides of card.

CONTACT NAME: _____

CALL: _____ BUSINESS NAME (IF ANY): _____

ADDRESS: _____

CITY: _____ STATE: _____ ZIP: _____

eMAIL: _____ PHONE: _____

REGISTRATION TIPS

REGISTER EARLY AS TABLES ARE ASSIGNED ON A FIRST-COME, FIRST-SERVE BASIS AS DETERMINED BY POSTMARK. SPECIFIC LOCATION REQUESTS ARE HONORED ONLY IF THE SPACE IS AVAILABLE. BE FLEXIBLE AND GET GROUP REQUESTS IN EARLY.

COMMON ORDERS: 1 TABLE & 1 SELLER = \$34
1 TABLE & 1 SELLER & 1 HELPER = \$45
1 TABLE & 1 SELLER & 2 HELPERS = \$56
2 TABLES & 2 SELLERS = \$68
1 BOOTH & 2 SELLERS = \$130

LOCATION REQUESTS, SPECIAL REQUIREMENTS

MAKE CHECKS PAYABLE TO: MIKE & KEY ARC

MAIL FORM AND PAYMENT TO MICHAEL DINKELMAN 22222 148TH AVE SE, KENT, WA 98042

RESERVATIONS CONFIRMED BY RETURN MAIL

SECOND FLOOR INFO TABLE REGISTRATION PACKETS WILL BE AT THE WALK-IN GOLD GATE UNLESS OTHERWISE REQUESTED

Contact Name: _____	
QTY	Description
	COMMERCIAL BOOTHS @ \$112 SELLER/HELPER Registrations NOT included, purchase below (200 SQ FEET, Four 8'X30" Tables included)
	SELLER TABLES 8'X30" @ \$25 EACH SELLER/HELPER Registrations NOT included, purchase below (includes access to electricity, bring minimum 50' UL listed extension cord)
	SELLER REGISTRATIONS @ \$9 EACH (limit of ONE per table purchased)
	HELPER REGISTRATIONS @ \$11 EACH (limit of TWO per table purchased) (limit of ONE per info table)
	DAY OF EVENT BUYER ADMISSIONS @ \$10 EACH (HONORED @ 9AM, March 11 - Sent by return mail) (No orders after Feb 18th 2023)
TOTAL ENCLOSED->	

NON-PROFIT ORG.

U.S. POSTAGE

PAID

AUBURN, WA

PERMIT #166

Current Resident or

Please align label with upper left edge



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, and AllStar. 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 AK2O hub repeater on Stensgar (Stranger) Mt. near Chewelah, WA, owned by Karl, AK2O
IRLP Node #3638 in Spokane WA owned by Glen, K1RR
IRLP Node #3636 on East Tiger Mt, near Issaquah, WA owned by KBARA

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.

ANNUAL
MEMBERSHIP



Upcoming Hamfests and Events

Courtesy of N7CFO.com

February 18. Salem Hamfair. Rickreall, OR. <http://www.w7sra.com/> [Flyer in PDF](#). (224K)

March 11. Mike & Key Swapmeet. Puyallup, WA. **This is an ARRL Sanctioned Event.** <https://www.mikeandkey.org/SwapMeet.php> [Flyer in PDF](#). (224K)

April. Comm Academy. Seattle, WA. <http://commacademy.org/>

May. Stanwood Camano Hamfest, Stanwood, WA. https://scarcwa.org/ham_fest.shtm .

May. River Radio Campout. Pateros WA.

May 6. Winston Tail Gate Swap Meet, Winston Oregon. Contact: Dennis, AG7K. mroencontact@gmail.com , (541)733-9850.

June 2-3-4, SEA-PAC Hamfest and ARRL Northwestern Division Convention. Seaside Convention Center, Seaside, Oregon. info@seapac.org . www.seapac.org/ .

June. Wenatchee ACARC Hamfest, Dryden, WA. <https://www.applecityarc.com/>

July. SALMONCON QRP Conference. Valley Camp (Near North Bend, WA) . www.valleycamp.org. www.pnwqrp.org. For info contact NB6M@att.net .

July. Yakima Radio Club N7YRC tailgate Swap Meet, Union Gap, WA.

July. Kootenai Amateur Radio Society Hamfest. Post Falls, ID.

July. Chehalis Valley ARC Ham Radio Tailgate Swapmeet. Southwest Washington Fairgrounds, Chehalis, WA. <http://www.cvars.org/>

July 14-16. Glacier Waterton International Peace Park Hamfest. Glacier Meadows Campground, 13 miles west of East Glacier on MT Hwy 2. <http://www.gwhamfest.org/>

August 11-13. Pacific NW DX Convention. New Westminster, BC. <https://pacificnwdxconvention.com/>

August. Puget Sound Antique Radio Association Swapmeet. <https://www.pugetsoundantiqueradio.com/>

September. Spokane Hamfair. University High School in Spokane Valley.

October. High Desert Amateur Radio Group 2nd Annual High Desert Ham Fest, Redmond, Oregon. Deschutes County Fairgrounds. www.hidarg.org contact kf7max@arri.net

October 7-8. SOAR Expo. Klamath Falls, Oregon. This is an ARRL Sanctioned Event. <http://soarexpo.com/>

October. Pacific Northwest VHF Society Conference. <http://pnwvhfs.org/>



Hamfests Recap

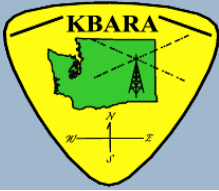
Dave, K7DSR

Spokane HAMFEST 2022 Prophet / Loss Dispersment Report

	Club Seed Money	Cost per	Price per	Quantity	Total Cost	SUB total	Total
INWVHF							
DX assos.	250						
KBARA	250						
Palouse	250						
	250						
Attendees		5		356		1780	1780
Coffe Shop				436	167	269	269
Comm Tables		12		20	244		0
Swap Tables		12		35	427		0
Admin Tables				17	0		0
Swap Tables			15	20		300	300
Admin Tables			15	48		720	720
In kind Donations (NANO)				119			0
Donated Tables (School)		0		30	0	0	0
Donated Chairs (School)		0		100	0	0	0
Prizes							0
DX Engineering Cards		50		2	100		0
Harbor Freight		384		1	384		0
School Fee					500		0
Printing Fees mailing					50		0

	1000				1872	3069	1197	1197
							1197	1197

	Each Club		
	Seed	Profit / 5	1197
INWVHF		239	239
SDX assos.	250	239	489
KBARA	250	239	489
NW Tri State	250	239	489
Palouse Hills	250	239	489
	1000	1197	2197



A Trip Back in Radio History

Samuel Morse

Most of us know him as the person after whom "the code" was named, but his history is more multi-dimensional than many realize. Samuel Morse loved art so much that, contrary to his parents' wishes, he became not only a painter, but an art professor at New York University. In fact, he painted some of the most famous portraits of the early American era.

In 1832, while sailing home from Europe, he became intrigued by discussions with a fellow passenger who had been following the electromagnetic work of Michael Faraday. Samuel was so captivated by the concept, that when he arrived home, he set aside the working of his current painting to learn more about this phenomenon. He began to think of ways to use such an electrical solution for communication, unaware that others had already devised competing ideas.

Samuel was not the first to invent the telegraph, but credit for its invention was awarded to him because his was the first made from a single-wire circuit, making it more efficient and less expensive. Morse's telegraph was one of the first put to widespread commercial use.

Alfred Vail, one of two partners who joined Samuel in his project development, devised the series of dots and dashes that encoded each character sent. Although the actual dot-dash combinations that represent individual characters have changed since the first days, Morse code remains the primary language of telegraphy worldwide.

In 1838, Samuel sought for government funding of his telegraph projects, which was at first rejected. Later, a Maine congressman provided Samuel Morse the financial backing he needed, to pursue the research, possibly the first recorded instance of government aid to a private researcher.

Samuel and his partners first demonstrated the telegraph in private on 06 January 1838 in Morristown, New Jersey, then again five days later in public at the same location, sending the phrase, A PATIENT WAITER IS NO LOSER. Later, in May 1844, after he built the first telegraph line, Samuel sent the first telegram, which read, WHAT HATH GOD WROUGHT from the Supreme Court chamber to the B&O Station in Baltimore.

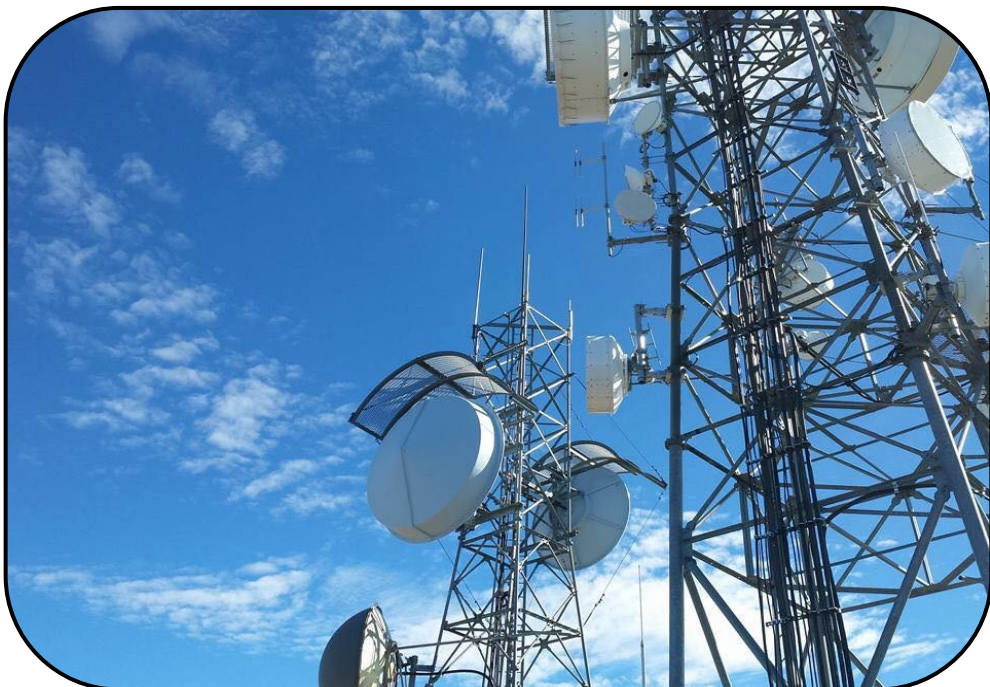
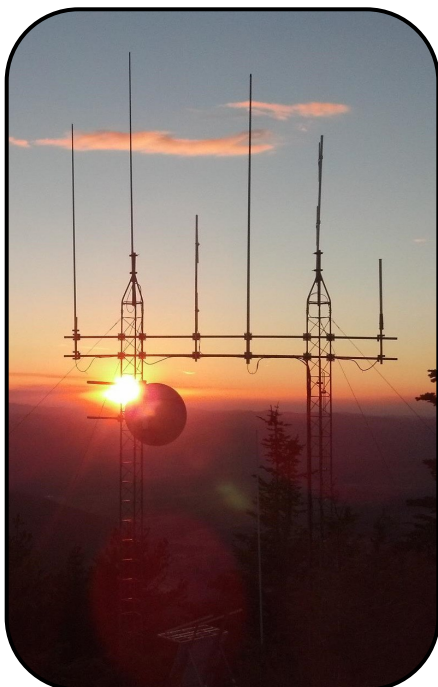
In 1853, Samuel Morse invented the telegraph repeater, which solved the problem of telegraphing at long distances in spite of wired signal degradation, and applied for a patent. But after a lengthy investigation, the US Supreme Court decided that, while Samuel's apparatus was patent-able, the signals were not. This ruling set the precedence for future US patent laws governing the eligibility of today's computer-related patents.





KBARA Repeaters and Echolink/IRLP Nodes

Frequency	CTCSS Tone	Location	Call sign	RF Link
Repeaters				
223.90 MHz	None	Stensgar Mtn	AK2O	Hub
147.38 MHz	None	Mica Peak	N7WRQ	AK2O—223.90
147.36 MHz	None	Stensgar Mtn	N7WRR	Hard wired Hub
147.02 MHz	None	Lookout Pass	KB7ARA	W7OE—147.38
147.28 MHz	None	Pikes Peak	KB7ARA	AK2O—223.90
147.32 MHz	103.5	West Twin, Moscow	KA7FVV	IRLP
Links				
Echolink KB7ARA-R	N/A	Spokane, WA	KB7ARA-R	AK2O - 223.90
IRLP Node 3636	None	East Tiger Mt	KB7ARA	145.33 & Ref 9075
IRLP Node 3638	None	Spokane, WA	K1RR	AK2O—223.90 & Ref 9075



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

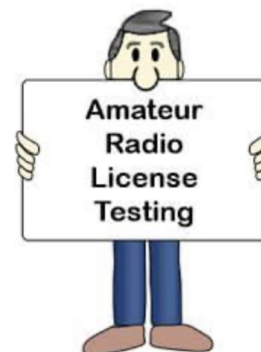
Jim Ashleman, N7WRR
Scott Harvey, KA7FVV
Glen Ahlborn, K1RR

Officers

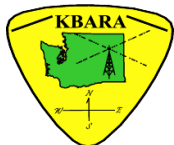
President: Dave Carleton, K7DSR
Vice President: Jim Johnson, KM7H
Secretary: Harry Estep, W7HEE
Treasurer: Betsy Ashleman, N7WRQ

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 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.

KAMIAK BUTTE AMATEUR REPEATER ASSOCIATION

PO Box 30801

Spokane WA 99223-3013