

# **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: <a href="https://www.arrl.org/">https://www.arrl.org/</a> 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 <a href="mailto:Mr.Timm@att.net">Mr.Timm@att.net</a>.

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 29<sup>th</sup> 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 in-



creased 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 then 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 iceing 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 at 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 (AI), 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.

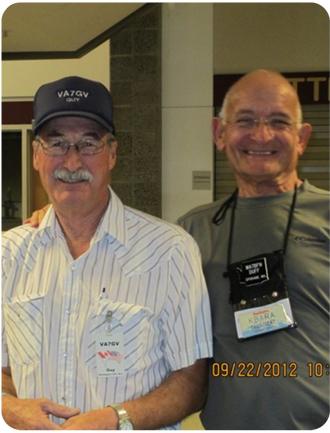
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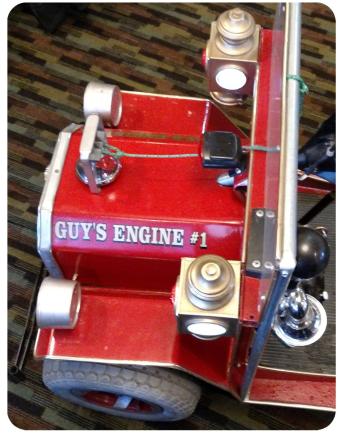


Guy VA7GV was a long time member of KBARA and checked in on our nets and showed up at many of our annual meetings with his wife Donna. Quite a few will remember him from the workshops he did at 3 to 5 of the KBARA annual meetings for doing a class on building a copper J-pole antenna and then always donating 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

KD7AAT         John P. Myers Jr.         KF7POK         Relly Earhart           WB7AUX         Art Gemmig         KD7CLT         Wilber H. Earl           NA7BW         Charles George         KCRGC         Terrill Martz           KA7BWX         Charles George         KCRGC         Terrill Martz           KK7DRY         Lorleiel Hartley         KIRR         Glen Arlbom           KK7DRY         Stacy Franklin         A17R3         Glen Arlbom           KK7DRY         Stacy Brankland         K17R1         Bill Schulz           KK7FLT         The Sandard         KK7SL         Douglas Smith </th <th>Call</th> <th>Name</th> <th>Call</th> <th>Name</th> <th>Call</th> <th>Name</th>	Call	Name	Call	Name	Call	Name
NAMD   Ronald K Hess   AG7QP   Frank E Hulchison	KD7AAT	John P. Myers Jr.	KF7PQK	Relly Earhart		
KAZBIMX         Charles George         KK7RGC         Terrill Martz           KABBFV         Christian Sturm         KJ7RHU         Bruce Hogan           WAZROSX         Bemie Frazier         WAZROSX         Anna M. Reevee           KK7DRV         Stacy Franklin         ALTR         Glen Anlbom           KB7DRY         Stacy Franklin         KIRR         Glen Anlbom           WX7DX         Karn M. Miller         KG75D         Richard Thorton           WX7DX         Karn M. Miller         KG75D         Richard Thorton           MX2E         Kenneth W. Fisher         KG75L         Allan A Bonney           KK7FIH         Randy Sorensen         KK7SIL         Douglas Smth           NGFOX         Bahara J. Micore         KK7SIL         Douglas Smth           KFFFRLY         Thae Bahart         KJ7SIJ         Gary Collins           KA7FSG         Brandon Wagner         KA7SMU         Sont P. Harvey         KK7SIL         Gary Collins           KA7FW         Soot P. Harvey         KK7SUB         Lorico C. Miller         Cice C. Miller           KA2FEV         Soot P. Harvey         KK7SUB         Cice C. Miller         Cice C. Miller           KE7GJU         Stein Earhart         KW7DCB         KW7DCB	WB7AUK	Art Gemmrig	KD7QLT	Wilber H. Earl		
KASBPU Christian Sturm KJ7RHU Bruce Hogan WA7ROS Bemile Frazier WA7ROS Arna M. Reeves KK7DRI Lorleil Harfley K1RR KS7DRY Stacy Franklin AJ7RS WB7DTK Stephen C. Langford KJ7RTV Bill Schulz WX7DX Kan M. Miller KG75D Richard Thorton AJ2E Kenneth W. Fisher KE75H Alian A Bonney KK7FIH Randy Sorensen KK7SIL Douglas Smith NSFOX Barbara J. Moore KK7SJM Shane Moscatell KK7FIH Randy Sorensen KK7SJM Shane Moscatell KK7FRZ Thea Earhart KJ7SJY Gary Collins KK7FRZ Thea Earhart KJ7SJY Gary Collins KK7FSQ Soott P. Harvey KK7SOB John Wilkes WH6FZY Joseph Halasey KC7TTM Cleo C. Miller KK2GEP Gregory Preuss KF7UTH Dennis P Roberts KB7GJY Alien Gemming KB7WB Claude Shook KK7HDZ Michael Dunlap W7WTO WW7WKC Slephen Laionde KK7HDZ Michael Dunlap W7WTO AJ7MS James Ashleman KK7HBA W Cameron Dunlap W7WTO ROyal Moore KK7JRP Jay Punches KJ7ZXF Reich Jahr Sowe KE7YHK RANAU KJ7KNL John Beaudreaut KK7JRN John Beaudreaut KK7JRN John Beaudreaut KK7JRN George H. Timm KJ7KNL John Beaudreaut KK7MM William Jeremie Durlap KK7MN Paul Morgan KK7NNP	N7AWD	Ronald K Hess	AG7QP	Frank E Hutchison		
WA7CBX         Bemile Frazier         WA7ROS         Anna M. Reeves           KK7DRV         Lonelet Harrley         K1RR         Glen Ahlborn           WB7DTK         Stephen C. Langford         KJ7RTV         Bill Schulz           WX7DX         Karl M. Miller         KG7SD         Richard Thorton           ALZE         Kenneth W. Fisher         KE7SH         Allan A Bonney           KK7FIH         Randy Sorensen         KK7SIL         Douglas Smth           NSPOX         Barbara J. Moore         KK7SIL         Douglas Smth           KF7FRZ         Thea Earhart         KJ7SJY         Gary Collins           K7FSG         Brandon Wagner         KA7SMU         Shane Moscatell           KA7FW         Soott P. Harvey         KK7SUB         John Wilkes           KA7FW         Joseph Halasey         KC7TTIM         Cico C. Miller           KA2GEP         Gregory Preuss         KF7UTH         Dennis P Roberts           KB7GJY         Allen Gemming         KB7WB         Claude Shook           KE7GJB         Kizia Earhart         K7WCB         William Banner           KB7HJ         Milane Jonale         NA7WCS         Slephen Laionde           KX7HDZ         Milone Dinniap         NYWR         <	KA7BMX	Charles George	KK7RGC	Terrill Martz		
KK7DRI Loreiel Harliey K1RR Gien Ahlborn KB7DRY Slacy Franklin A17RS Kristen Snyder WS7DTX Saphen C. Langford WK7DX Karl M. Miller KG7SD Richard Thorton AL2E Kenneth W. Fisher KE7SH Allan A Bonney KK7FIH Randy Sorensen KK7SIL Douglas Smith N9FOX Barbara J. Moore KK7SIM Shane Moscaleil KF7FRZ Thea Earhart KJ7SJY Gary Collins K7FRSG Brandon Wagner KA7SMU Donald Kolb WA7FVV Soott P. Harvey KK7SOB John Wilkes WHFFZY Joseph Halasey KC7TTM Cieo C. Miller K2GEP Gregory Preuss KF7UTH Dennis P Roberts KB7GJY Allen Gemmig KB7WB Claude Shook K8F7GJY Allen Gemmig KB7WB William Banner KK7HDA Michael Duniap K7WRQ WIlliam Banner KK7HDA Michael Duniap W7WRQ Elizabeth Ashieman KK7HDA MCABAEL MCATE A17M AD A17M RICHAEL SAME A17M RICHAEL SAM	KA6BPV	Christian Sturm	KJ7RHU	Bruce Hogan		
KBTDRY WBTDTX Stephen C. Langford WBTDTX Stephen C. Langford KJTRTV BII Schutz KAR1 M. Miller KG75D AL2E Kenneth W. Fisher KK7FH Randy Sorensen KK7SIL Douglas Smith Shane Moscatell KTFRZ Thea Earhart KJ7SJY Gary Collins Donald Kolb Gary Cyllins Donald Kolb Donald Kolb Donald Kolb Donald Kolb Donald Kolb WKFFRZ Thea Earhart KJ7SJY Gary Collins Donald Kolb Donald Kolb Color Halasey KK7FW WH6FZY Joseph Halasey KC7TTM Cleo C. Miller KE7GUB KE7GUB KE7GUB KE7GUB KE7GUB KE7GUB KIND Jim Johnson WA7WKX KSHAMM Albin Ennsthaler M7WRQ MICHAEL MICHAEL MICHAEL MICHAEL MCATHEL WCAMPON DUILD MICHAEL MICHAEL MCATHEL MICHAEL MCATHEL MICHAEL MCATHEL MICHAEL MCATHEL MICHAEL MCATHEL MICHAEL MCATHEL	WA7CBX	Bemie Frazier	WA7ROS	Anna M. Reeves		
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AL2E Kenneth W. Fisher KE7SH Alian A Bonney  KK7FIH Randy Sorensen KK7SIL Douglas Smith  N9FOX Barbara J. Moore KK7SIM Shane Moscatell  KF7FRZ Thea Earhart KJ7SJY Gary Collins  KF7FRS Brandon Wagner KA7SMU Donald Kolb  KA7FWU Scott P. Harvey KK7SOB John Wilkes  WH6FZY Joseph Halasey KC7TTTM Cieo C. Miler  K2GEP Gregory Preuss KF7UTH Dennis P Roberts  K8FGJY Allen Gemmrig KB7WB Claude Shook  KE7GJB Keira Earhart K7WCB William Banner  KM7H Jim Johnson WA7WKX Slephen Lalonde  KK9HAM Albin Ennsthaler N7WRQ Elizabeth Ashleman  KJ7HDZ Michael Dunlap N7WRR James Ashleman  KJ7HDZ Mchael Dunlap W7WTO Royal Moore  KK7IOP Tory Carl AD7XH Richard L Schuftz  KM6JG David Croteau KB7YGR Teresa (Terry) George  W7JJR James Rowe KE7YHX Randall Spencer  KJ7JRD Jay Punches KJ7ZXF Milke Klungland  KJ7KJCL John Beaudreault  W7LKR Patrick Brandt  KK7RGL Leonard Gross  KL7M David Cloyd  K7MM Dan Ransom  W7MM Dan Ransom  W7MM Robert McCallium  KK7NND Alare Poler  KG7OCC Alexander Navarro  KG7OWY Murray Poler  AA7P Richard J. Hebel  K7PDZ James Long  W7FGW Pete Weigman	WB7DTK	Stephen C. Langford	KJ7RTV	BIII Schulz		
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KM7H Jim Johnson WA7WKX Stephen Laionde KK9HAM Albin Ennsthaler N7WRQ Elizabeth Ashleman KI7HDZ Michael Duniap N7WRR James Ashleman KI7HDZ Michael Duniap W7WTO Royal Moore KK7I0P Tory Carl AD7XH Richard L Schultz KM6JG David Croteau KB7YGR Teresa (Terry) George W7JR James Rowe KE7YHX Randall Spencer K7JRP Jay Punches KJ7ZXF Mike Klungland MSJXN George H. Timm KJ7KXL John Beaudreault W7LKR Patrick Brandt K7LRG Leonard Gross KL7MM David Cloyd K7MM Dan Ransom W7MN William Jeremie Duniap AG7NA Gerry O'Biten K7NEB Keith Bansemer N1NG Michael Maxson KK7NND Robert McCallium KK7NND Robert McCallium KK7NNP Paul Morgan AK2O Karl Shoemaker W7OE John P. Dempster KG7OWX Valaire Poler KG7OWX Valaire Poler KK6TOWY Murray Poler AA7P Richard J. Hebel K7PDZ James Long W7PGW Pete Weigman	KB7GJY	Allen Gemmfg	KB7WB	Claude Shook		
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KI7HEA W Cameron Dunlap 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 Punches KJ7ZXF Mike Klungland  NSJXN George H. Timm  KJ7KXL John Beaudreault  W7LKR Patrick Brandt  K7LRG Leonard Gross  KL7M David Cloyd  K7MM Dan Ransom  W7MM William Jeremie Dunlap  AG7NA Gerry O'Brien  K7NEB Keith Bansemer  N1NG Michael Maxson  KK7NND Robert McCallium  KK7NNP Paul Morgan  AA20 Karl Shoemaker  W7OE John P. Dempster  KG7OWX Valaire Poler  KG7OWY Murray Poler  KA7PDZ James Long  W7PGW Pete Weigman	KK9HAM	Albin Ennsthaler	N7WRQ	Elizabeth Ashleman		
KK7IOP Tory Carl AD7XH Richard L Schultz KM6JG David Croteau KB7YGR Teresa (Terry) George W7JJR James Rowe KE7YHX Randall Spencer K7JRP Jay Punches KJ7ZXF Milke 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 KG7OWX Valaire Poler KG7OWY Murray Poler AA7P Richard J. Hebel K7PDZ James Long W7PGW Pete Weigman	KI7HDZ	Michael Duniap	N7WRR	James Ashleman		
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W7JJR James Rowe KE7YHX Randall Spencer K7JRP Jay Punches 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 Dunlap 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 KG7OWY Walaire Poler KG7OWY Murray Poler AA7P Richard J. Hebel K7PDZ James Long W7PGW Pete Welgman	KK7IOP	Tory Carl	AD7XH	Richard L Schultz		
K7JRP Jay Punches KJ7ZXF Mike Klungland  N6JXN George H. Timm  KJ7KOL 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 McCailium  KK7NNP Paul Morgan  AK2O Karl Shoemaker  W7OE John P. Dempster  KG7OWX Valaire Poler  KG7OWY Murray Poler  AA7P Richard J. Hebel  K7PDZ James Long  W7PGW Pete Weigman	KM6JG	David Croteau	KB7YGR	Teresa (Terry) George		
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	W7JJR	James Rowe	KE7YHX	Randall Spencer		
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K/PMM Pochard M Flynn		•				
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#### 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 Jim KM7H Dennis KF7UTH

Allan KE7SH Jim K7PDZ

Gold Contribution

Contributions from \$50-\$99

Steve WB7DTK Greg K2GEP Tory KK7IOP

Gary KJ7SJY

Silver Contribution

Contributions from \$21-\$49

Murray KG7OWY Tim N6JXN Doug KK7SIL Valaire KG7OWX Joe WH6FZY Randy KE7YHY

Bronze Contribution

Contributions from \$1-\$20

 John KK7SOB
 Thea KF7FRZ
 Don KA7SMU

 Gerry KG7NA
 Reilly KF7PQK
 Paul KK7NNP

 Shane KK7SJM
 Ron N7AWD
 Alex KG7OE

 Albin KK9HAM
 Christian KA6BPV
 David KM6JG

Keira KE7GUB

# INLAND EMPIRE VHF RADIO AMATEURS

FIRST ANNUAL
SATURDAY,
JUNE 8<sup>TH</sup>, 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



Yagi using his namesake

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).



## **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 99354. Flyer in PDF. Contact Alex Archer at 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

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. <a href="mailto:info@seapac.org">info@seapac.org</a> . <a href="mailto:www.seapac.org/">www.seapac.org/</a> . <a href="mailto:February issue of Sea-Pac Waves.">February issue of Sea-Pac Waves.</a>

June. Port Ludlow ARC Tail Gate Swapmeet. <a href="https://www.n7pl.org/swapmeet23.html">https://www.n7pl.org/swapmeet23.html</a>

June 7, 8, & 9. Wenatchee Apple City ARC Hamfest, Dryden, WA. *This is an ARRL Sanctioned Event.* <a href="https://www.applecityarc.com/">https://www.applecityarc.com/</a> 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. <a href="http://www.gwhamfest.org/">http://www.gwhamfest.org/</a>

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

August 3. Kootenai Amateur Radio Society (KARS) ARRL Idaho State Convention, Post Falls, ID. *This is an ARRL Sanctioned Event.* 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. <a href="http://www.minicassia.club">http://www.minicassia.club</a>



# **KBARA** Repeaters and Echolink/IRLP Nodes

| Frequency         | CTCSS Tone | Location          | Call sign | RF Link         |  |  |  |
|-------------------|------------|-------------------|-----------|-----------------|--|--|--|
| Repeaters         |            |                   |           |                 |  |  |  |
| 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     |  |  |  |
| Links             |            |                   |           |                 |  |  |  |
| Echolink KB7ARA-R | N/A        | Spokane, WA       | KB7ARA-R  | KB7ARA - 223.90 |  |  |  |
| IRLP Node 3638    | None       | Spokane, WA       | K1RR      | KB7ARA—223.90   |  |  |  |





KBARA Gazette January/Winter2024

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 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