



May 2014

(www.k7id.org)

P.O. Box 1765 Hayden, ID 83835-1765

## REGULAR

### CLUB MEETINGS:

**Monday, May 12, 7:00 p.m.**  
**Search & Rescue Bldg.,**  
**10865 N. Ramsey Road**  
**Hayden, Idaho**  
**Topic: Test Equipment**  
**Presenter: Various Hams**  
**Refreshments: ???**

**Monday, May 12, 5:30 p.m.**  
**ARRL VE Test Session**  
**Search & Rescue Bldg.,**  
**10865 N. Ramsey Rd.**  
**Hayden, Idaho**

**Friday, June 13, 6:30 p.m.**  
**American Legion Hall**  
**1138 E. Poleline Avenue**  
**Post Falls, Idaho**  
**Topic: Potluck**  
**Presenter: None**  
**Refreshments: Everyone**

**Saturday, June 14, 9:00 a.m.**  
**ARRL VE Test Session**  
**American Legion Hall**  
**1138 E Poleline Avenue**  
**Post Falls, Idaho**

**Upcoming Events**  
**June 14**

**KARS Hamfest**  
**1138 E Poleline Avenue**  
**Post Falls, Idaho**

**June 27-28**  
**Field Day**  
**Rathdrum City Park**

Letter from the President  
Dave Boss KF7YWR

The fifth month of the year is upon us already. This time last month the grass was just beginning to show a hint of green, now it already needs to be mowed. The dogs are thrilled, as the new shoots allows for ample grazing on our frequent walks. With the nicer weather the time spent outdoors is growing daily and the anticipation of the building projects is rapidly increasing as well. Although I have staked out where the tower will go, I do not really look forward to digging the footings for the tower and guys, but it won't happen unless I do it. My experience in excavation at my place usually includes post-hole diggers, a rock bar, not to mention a chain and come-along to retrieve the large rocks from the bottom of any attempted hole. A shovel is rarely if ever used. For the record; glacial moraine sucks!

I have come to the conclusion that I will put up a loop antenna as well, hung from a combination of trees and erected poles. Yes more digging! The natural placement of tall trees is less than perfect for optimum area inside the loop, and it will be necessary for a couple of poles to be put up. I have been a "scrounge" for most of my life (OK, confession time, all my life) and fortunately have the majority of what I need. The "collecting" thing is genetic and goes back several generations and has been perfected through the years. It has really come in handy for a lot of different projects; and my wife is really understanding. Really! Updates to follow.

Bearpaw's project

My recent visit with Bearpaw, KE7ADT, and Gabbee, KE7ADN, found them in great spirits. Bearpaw is doing well recovering from his accident, with surgeries and physical therapy an ongoing process. He is looking forward to getting a tower up with a beam atop soon. A donated beam will be removed in the near future from its current home and transplanted soon to Bearpaw's place. All the telescoping towers were removed after his injury and he is currently tower-less. Although there is one lying on the ground, that is not what they are for. Volunteers will be solicited in the near future for the tower raising. So dust off your hard hat, and untangle your climbing harnesses, and wait for the tap on your shoulder...

Radio Direction Finding Workshop

Tom Macy's, W7UAT, recent work on RDF antennas and attenuators has generated interest in building some parts for the Rabbit Hunt. Those who filled out the response forms Tom passed out at the last meeting and are interested in further study and building some of the parts, please contact me via email or in person and we will try to coordinate a time to get together and go thru the process. Also, Larry Telles has posted the large volume of info Tom rounded up on our

website. Feel free to download all the documentation he collected for this project. Additionally I have several discs of the documents for those with slow or no Internet capabilities. Docs are approx 250 mb.

#### KARS Hamfest 2014 – Coming up Fast!

Time is getting close to break open the piggy bank or dig up the Mason jar for that extra cash to spend at the HAMFEST. Jim Monroe, N7ESU, Jim Banks, KF7TFJ, and Allan Campbell, KE7DFT, are the gents to contact for volunteering. Help is needed for setup, ticket taking, kitchen help, counter help and eventually cleanup as well; and trust me these guys really need help. Ed Stuckey, AI7H, our resident used car salesman will be handling the KARS table again this year and is still open for donations. He has a bunch of donations already and because Ed is a really nice guy so let's not disappoint him. So rummage through the shack, spare room, or wherever you have that stash of cherished unused stuff and let's put it towards a good cause and raise funds for the club!

#### Field Day

Rathdrum City Park is the destination for this year's Field Day. Feel free to come join in the fun. Bring your radio gear, your comfy folding chairs and your beach blanket. Hawaiian shirts are optional; although we may have a prize for the brightest and most disgusting. A quick survey of the facilities showed ample space for antennae, power outlets scattered around the Park and two covered areas perfect North Idaho June weather. Oh, and did I mention restrooms are included in the deal as well! The grass there is already lush and green and had been freshly mown. Stop by and take a gander and perhaps scope out your spot.

#### May Meeting Topic

For the May Presentation, several of our well seasoned experienced Hams have volunteered to give instruction on the use of a variety of test equipment. This will hopefully be informative not only for our new Hams but may give some answers to problems for others as well. If you have a piece of equipment you are not sure of how to use, bring it along and let the cumulative brain-power of our panel of experts, inform, dazzle, and amaze you with their knowledge or you can come and just watch the bewildered looks. Either way I look forward to the presentation and hope to find out how to use my grid dip meter.

73 and God Bless,  
Dave KF7YWR  
[boss@infinityusers.com](mailto:boss@infinityusers.com)

KARS March Meeting Minutes recorded 03/10/14  
Meeting Location – Kootenai County Search & Rescue Building, 10865 N Ramsey Rd, Hayden, ID.

The meeting was called to order at 7:00PM by Dave Boss (KF7YWR), Club President. The first order of business was the Pledge of Allegiance, led by Frank Ten Thy (KG7CUI).

A total of 44 persons were in attendance. Three Amateur Radio exams were administered prior to the Club meeting by the KARS VE team, and all parties passed (two General and One Technician Class).

#### Old Business

Minutes Approval: The meeting minutes for January and February were approved by the membership, as submitted.

Treasurer's Report: Club Treasurer Pat Patterson (W7SGS) reported the following funds on hand as of 02/28/14 – Savings, \$2,899; Checking, \$2,300, and Petty Cash, \$82; for a total of \$5,280. A total of \$249 was disbursed for Club expenses in February. Upcoming expenses include renewal of the Club PO Box, and renewal of the Club liability insurance policy. It was moved and seconded to approve the Treasurer's report as presented, and accepted by voice vote.

Hamfest: Club VP Jim Monroe (N7ESU) has successfully negotiated an agreement with the American Legion in Post Falls, to utilize their building on Friday evening (06/13), 5-8PM, and Saturday (06/14), 6AM-3PM. The agreed upon price for use of the American Legion building is \$500, half to be paid in advance and half on the date of the event. Jim requested that the Club approve the first \$250 so he can make the deposit. This was so moved, seconded, and approved by the Club.

Jim Banks (KF7TFJ) reported that he has been in discussion with the Ham Radio Outlet store in Portland, regarding Hamfest prizes. The proposed prize package include a Yaesu HT-857 HF Radio, Yaesu FT-60 UHF/VHF Radio, and miscellaneous small items suitable for door prizes, for a ball park figure of \$900.

The Club will seek to have the Hamfest be sanctioned by the ARRL, they will donate some door prizes. Ed Stuckey (AI7H) will prepare the Hamfest application for ARRL.

Field Day: The Field Day preparation has not begun. Ed Stuckey (AI7H) agreed to scout some prospective locations and report back to the Club at the April meeting.

Current/Recent Event Report: During the week of 03/05 thru 03/11, W1AW/7 operated from Idaho as part of the ARRL Centennial Celebration. W1AW/7 (Idaho) was a "DC to Daylight" operation, on all bands and all modes. Club members Jim Monroe (N7ESU), Rick VanLandingham (KI7I), Quint Webb (W7CQW) and Ed Stuckey (AI7H) were some of the operators. Also, the weekend of March 8-9 was the Idaho QSO Party weekend, which was helped along by W1AW/7 being in the state. As of Club meeting time, 35 Idaho QSO Party logs had already been received, including 10 from Europe and 1 from South America. Since KARS is the sponsoring Club for the Idaho QSO Party, we will need to do at least one session of "log checking", and that will take place on Thursday 03/20, at the Golden Spike clubhouse in Rathdrum (in conjunction with the "Thursday Coffee" session).

E-Mail to Club Members: Past President Bonnie Patterson (KG6QQM) noted that some members do not receive Club information (Newsletters, etc.) via the Google Groups "Kootenai Amateur Radio Society", and asked that anyone who is not getting Club e-mails please advise her.

Membership Cards: Treasurer Pat Patterson (W7SGS) asked everyone who has renewed their Club Membership for 2014 to come get their Member ID Cards.

President Dave called for a ten-minute break prior to the evening presentation.

The evening Presentation was "Antennas for Radio Direction Finding", by Tom Macy (W7UAT). This was a follow-up from the January presentation, which discussed the general concepts of "Fox Hunting".

Tom showed a number of practical direction finding antennas including a Yagi, loops, and an "Adcock" antenna, which he had built with fairly simple materials. Tom pointed out that it is hard to test things like antennas on the workshop bench because of obstructions, metal, etc. in the shop, so he will be doing outside testing as warmer weather permits. Tom proposed a "T-Hunt Activity Group", which was well received by the Club, and it was informally decided that this project could also be worked on during Thursday Coffee sessions at the Golden Spike.

Tom also prepared an elegant presentation booklet, since his information came from many sources. The booklet will be posted as a PDF on the Club website, [www.k7id.org](http://www.k7id.org)

Upon conclusion of the presentation, President Dave handled the following business:

Club Drawings:

50/50 Prize was \$16.00. Winning ticket was Brandon Vetter (KF7KAE), proceeds \$8.00 to winner. Membership Prize was \$13.00. Winning ticket was Quint Webb (W7CQW), who was not present. The prize is held until the next drawing.

Club Secretary:

President Dave asked for a volunteer to assume the position of Club Secretary, since the elected Secretary was not able to take the job due to a health issue. Adam Crippen (N7ISP) graciously agreed to do so. Adam was formally nominated to be the Club Secretary, and was approved by those present.

With all business concluded, the January Club meeting was adjourned at 8:20PM

Minutes respectfully submitted by Ed Stuckey (AI7H).

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Kootenai Amateur Radio Society – April Meeting Minutes

The meeting was called to order by Club President Dave Boss, KF7YWR. Gary Roth, KE7IAT, led the club and four visitors in the Pledge of Allegiance. VE Testing results: The VE's administered 11 examinations to which 10 received passing scores, so there are 2 new Extra Class Operators and 8 newly licensed Technicians waiting on call-signs.

The March Minutes were not approved due to the fact that the members of the club had not had the opportunity to review them. Jim Monroe, N7ESU, motioned to table the minutes until the May Meeting (motion passed by verbal club vote).

Pat Patterson, W7SGS, Club Treasurer reported the April balance on checking to be: \$1,960.42; savings: \$3,049.37; petty cash: \$80.82; for a total April balance of: \$5,090.61. The expenses for April were \$135.65. Ed Stuckey, AI7H, motioned that the treasurer's report be accepted as read (the motion passed by verbal club vote).

Old Business: Tom Macy, W7UAT, and Adam Crippen, N7ISP, of the Club's Fox Hunting Committee presented to the club a homebrewed 62dB Signal Attenuator built in an Altoids container by Tom, and Adam presented a homebrew 3-element 2-meter beam and a commercially built 2-meter/70-centimeter log periodic which can be used in direction finding. Adam and Tom are

looking for others interested in helping the Fox Hunting Committee. If interested please contact either Tom or Adam.

Jim Monroe, N7ESU, announced to the club that he has negotiated the prices for the KARS Hamfest to \$500 from Ham Radio Outlet.

Meeting Presentation: Larry Telles, K6SPP, conducted a presentation on both Slow- and Fast-Scan TV. Topics included computer interfaces, radios and basic operation and procedures. A very informative presentation and anyone interested in getting started in Slow- or Fast-Scan TV should contact Larry Telles.

Club President, Dave Boss, announced to the members in attendance that a number of club members have not paid their 2014 membership dues. If you have not paid your 2014 dues or if you are sure if you are paid-up, please contact Club Treasurer, Pat Patterson.

Club Secretary, Adam Crippen made a motion that the club pays Bearpaw Galindo, KE7ADT, 2014 membership dues. The motion was passed by verbal club vote.

Ed Stuckey, AI7H, conducted a presentation on the results of the Idaho QSO Party. Ed reported that the QSO Committee received 83 logs from all around the world with the farthest distance being one operator from the United Arab Emirates.

KARS Hamfest, Ed reported that the club has received a large donation of 100's of items which will be for sale at the Hamfest, and that anyone interested in making additional donations or wishing to reserving a table should contact the Hamfest Committee ASAP. Volunteers are also needed for cooking crews, set-up and clean-up teams, order takers, and other opportunities. If interested please sign up at the next KARS meeting.

KARS Field Day is scheduled to be held at the Rathdrum City Park this year. There is a Station signup sheet for those interested in helping out. Volunteers are needed to operate the radios, generate publicity, as well as other behind the scenes duties. Set-up will occur on June 27<sup>th</sup> with the official start of Field Day being June 28<sup>th</sup> at 11am and running for 24 straight hours.

ARRL Section Manager election time has come again and Ed wanted to say that he is running for re-election to the position and that anyone wishing to run against him should contact him so that he can give you some advice about the position. No one at the meeting appeared to be interested in running against him.

Raffle Drawing results: 50/50 Drawing was won by KF7SQL, Cheryl Banks, for a total \$9.

The meeting was adjourned at 8:35 pm.

## TOYOTA CONFIRMS COLLISION FREE CARS

Radio may help make the next generation of automobiles a lot safer than today's models.

Toyota Motor Corporation in Japan says that within the next two years it will introduce systems that will make it possible for cars to communicate with each other in order to avoid collisions.

According to a statement by the company, the system will use radio to gather data on the speed of other vehicles to keep a safe distance. Another system consisting of cameras, radar and control software will help a car maintain position in a lane on its own.

The system Toyota has developed incorporates technologies derived from its automated driving research and the carmaker has said it aims to create a virtual "co-pilot" in vehicles that helps drivers avert accidents.

Toyota also recently showcased a new pre-crash technology that can steer a vehicle moving at a high speed away from pedestrians when automatic braking alone cannot avoid a collision.

Toyota says that this new system will be available sometime after 2015. (WIA News)

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### Amateur Radio-Developed Software Assisting in Search for Missing Airliner

US Navy personnel helping to look for missing Malaysia Air Flight MH370 are using the signal-processing and analysis package *Spectrum Laboratory* by Wolf Buescher, DL4YHF, to analyze recently detected 37.5 kHz "pings" that may be from the missing plane's "black box." Some *Spectrum Laboratory* screen shots as seen aboard the Australian Defense Vessel *Ocean Shield* were shown on TV. The US Navy personnel are guests aboard the Australian ship. VLF experimenter Warren Ziegler, K2ORS, said the software is the same package Amateur Radio experimenters used recently to detect transatlantic signals on 29 kHz.

"Wolf's package is very first-rate software, and I know that there have been other professional uses, but this was quite an interesting one!" Ziegler said.

The software began as a simple DOS-based FFT program, but it is now a specialized audio analyzer, filter, frequency converter, hum filter, data logger and more, and it is available for download from DL4YHF's Amateur Radio Software site.

Buescher said he was skeptical about the initial "ping" detection by one of the search vessels, but now, he says,

“the spectrogram taken by the US team aboard *Ocean Shield* is convincing.” He said a screenshot from Australian TV clearly shows the “bip-bip-bip” ultrasonic bursts or pings, “just as they should look,” rather than a “just a wobbly carrier that comes and goes.”

“In slow-CW terms, it would be an ‘outstanding signal.’” Buescher said. “Now keeping fingers crossed that the [“black box”] batteries last a bit longer than specified. The experts say the pinger’s battery usually degrades slowly, instead of going QRT abruptly.” (ARRL)

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## HO100CANAL TO CELEBRATE 100 ANNIVERSARY OF THE PANAMA CANAL

On the air listen out for special event station HO100CANAL between April 19th and August 15<sup>th</sup> to celebrate the 100<sup>th</sup> anniversary of the Panama Canal. This operation is being sponsored by Radio Amateurs of the Republic of Panama with activity planned on 160 through 10 meters using CW, SSB, PSK and RTTY. The QSL manager for the operation is HP1AVS. For more information on the 100th anniversary of the Panama Canal, take your web browser to [micanaldepanama.com/](http://micanaldepanama.com/) centennial (Press release)

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## VIETNAM CONFIRMS HAM RADIO SPECTRUM EXPANSION

Some previously rumored news regarding spectrum expansion for hams in Vietnam is now official. Following the new national radio band plan published in november 2013 and now signed by the nations president, Vietnamese amateurs can now apply to operate between 7100 KHz and 7200 KHz on 40 meters. This in addition to 7000 to 7100 KHz that they already had.

But that’s not all. On 80 meters the band now runs from 3500 to 3900 KHz which is an increase of 100 KHz, and on 30 meters from 10.1 to 10.15 MHz. And more remarkably, the Vietnamese Amateur Radio Club says hams in that nation have also been officially granted access to 472 to 479 KHz on 600 meters in addition to 1800 to 2000 KHz on 160.

There’s only one caveat. To gain access to this new spectrum, hams in Vietnam must apply to use of each of these new or expanded band when they get or renew their license. More information is on the web at <http://varc.radioclub.asia> (VARC Radio Club of Asia, DXNL)

## Armed Forces Day 2014 Cross-Band Communication Test Set for May 10

The 2014 Armed Forces Day Cross-Band **Communication Test** will take place on Saturday, May 10. The US Army, Air Force, Navy, Marine Corps, and Coast Guard co-sponsor the annual Amateur Radio/US military communication test. The 64th Armed Forces Day officially takes place on May 17, but the Armed Forces Day event takes place a week earlier, on May 10, to avoid conflicting with **Dayton Hamvention®**. The on-the-air celebration features traditional military-to-Amateur Radio cross-band communication on both SSB and CW. Some activity will continue into the early hours of Sunday, May 11 (UTC). Most activity gets underway at 1200 UTC.

“These tests give Amateur Radio operators and Short Wave Listeners (SWLs) an opportunity to demonstrate their individual technical skills, and to receive recognition from the appropriate military radio station for their proven expertise,” the Armed Forces Day Cross-Band Communication Test announcement said. “QSL cards will be provided to those stations making contact with the military stations.”

More than 20 military stations representing all of the services and in various parts of the Continental US, as well as Hawaii (ABH), Okinawa (ADB) and Guam (NRV) are expected to be on the air, transmitting on military frequencies outside the Amateur Radio bands and listening for calls within Amateur Radio bands. Some military stations may not be on the air for the entire event, depending on propagation and station staffing.

Participating military stations will transmit on selected Military Auxiliary Radio Service (MARS) frequencies and listen for Amateur Radio stations in certain bands and frequencies, depending on the station. The military stations have asked that radio amateurs limit voice contacts to no longer than a couple of minutes. Some military stations will use CW. Much of the activity will involve frequencies outside the 80, 40, and 20 meter bands.

Participating US Army Stations will include WAR at the Pentagon, as well as AAZ, AAC, ABH, ADB, and WUG-23; US Air Force stations AIR, AGA2SY, AGA4AR, AGA5SC, and ARA9TR, and US Navy-Marine Corps stations NBL, NMC1, NMN, NNN0ASF, NNN0CQQ, NPD, NRV, NUW, NWKJ, and NWVC.

The annual event also includes the US Secretary of Defense message test, which will be transmitted in various digital modes. Stations will use RTTY, CW, PSK31, PACTOR, AMTOR (FEC), MT63, and other digital modes to transmit the message. A certificate is available for stations correctly copying the message.

Transcripts of the digital message from the US Secretary of Defense should be submitted "as received," with no attempt to correct possible transmission or reception errors. On the same sheet of paper containing the test message, stations should provide time, frequency and call sign of the military station copied, as well as the name, call sign, and address (including zip code) of the individual submitting the entry.

Stations receiving the message from AAZ, WAR, or AAC should send entries to Armed Forces Day Celebration, Commander Netcom, ATTN: NETC-ATD (MARS Station), Building 90549 Jim Avenue, Ft Huachuca, AZ 85613-7070. Stations copying the message from NBL, NNN0ASF, NNN0CQQ, NUW, NWKJ OR NWVC should send entries to Armed Forces Day Celebration, Chief, Navy-Marine Corps MARS, Cheatham Annex Building 117, 108 Sanda Ave, Williamsburg, VA 23185-5830. Stations copying the message from AGA2SY, AGA5SC, AGA9TR OR AFA4AR should send entries to Armed Forces Day Celebration, 38 Cyrs/Chief Air Force MARS, 203W Losey St, Room 1200, Scott AFB, IL 62225.

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## INTERNATIONAL SHORTWAVE BROADCASTING DISASTER TEST

Members of the amateur radio and shortwave listening communities are invited to take part as monitoring stations in the upcoming High Frequency Coordination Commission of the International Radio for Disaster Relief or IDAR project. This event will take place during the Media Summit on Climate Change, Information, Communication Technologies and Disaster Risk Reduction slated Jakarta, Indonesia on June 4th and 5th. The exercise will simulate a major disaster occurring in Southeast Asia, and multiple international broadcasters will be cooperating to support coordinated humanitarian coverage for the impacted region. As such, SWL reports will be very much welcome. More is on the web at [tinyurl.com/IDAR-2014](http://tinyurl.com/IDAR-2014). (ReliefAnalysis.com, WIA News)

## FCC GRANTS EXPERIMENTAL LICENSES IN 70 CM BAND

The FCC has issued its list of recently granted experimental licenses and there were a few that will likely be of interest to ham radio operators. Primarily those using the shared 420 to 450 MHz band.

Amateur radio operators in the area north of Denver, Colorado may eventually notice transmissions from Detect, Inc. on 449 MHz. This will be in connection with the testing of wind profiler radar and remote sensing technology operating mobile around the Longmont area.

And General Dynamics is using the same band for development of software-defined radios operating with Wide Networking Waveform mobile technology in Scottsdale, Arizona. The specific frequencies that General Dynamics will be using are 420 to 424 dot 75, 445 dot 75 to 450, 1370 to 1400 and 1755 to 1850 MHz.

The complete list of experimental license grants from January 1<sup>st</sup> through February 1<sup>st</sup> of this year has been made available in the FCC Public Notice Report No. 453 which is subtitled Experimental Actions. (TV Technology)

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**COFFEE & DONUTS**  
**EVERY THURSDAY MORNING**

8:00 A.M.  
To  
10:00 A.M.

The Golden Spike  
Community Center  
Rathdrum

**TALK-IN: 146.980, PL127.3  
443.975, PL136.5**

Bring a writing instrument. The Golden Spike has the napkins for our breakfast table engineering!

Deadline for submitting articles, stories, reports, etc., is the 25th of each month for the following month's newsletter.

# Kootenai Amateur Radio Society



PO Box 1765, Hayden, Idaho 83835-1765

Please complete the entire form and return with your payment

## Single Year membership

New member \$15.00     Renewing \$15.00     Family \$23.00     Info Update Only

## Two Year Membership

New member \$28.00     Renewing \$28.00     Family \$42.00

Call Sign \_\_\_\_\_ Class \_\_\_\_\_ Expires \_\_\_\_\_

First Name & Initial \_\_\_\_\_ Last Name \_\_\_\_\_

If renewing, only fill in information below that has changed since last application, otherwise complete.

Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip Code \_\_\_\_\_

Phone Number \_\_\_\_\_ E-Mail Address \_\_\_\_\_

ARRL Member \_\_\_\_\_ May we publish Limited information \_\_\_\_\_ (Y/N)

For Family Membership, Please complete an additional application and staple together.

Signature \_\_\_\_\_

## K7ID.org Request Form

First and Last Name \_\_\_\_\_ Call Sign \_\_\_\_\_

Would you like your (call sign )@k7id.org email be forwarded to an existing email account or would you like to Access it through a web or post office protocol (POP) system?

Please Forward to my existing Email     Webmail access     POP Access  
(Please complete the bottom & Sign)     I wish to opt-out of K7ID.org

Please select a user name \_\_\_\_\_@K7ID.org

Please select a Password \_\_\_\_\_

For forward request only

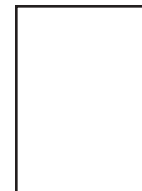
Email address \_\_\_\_\_

Signature \_\_\_\_\_

### Internal Use Only

Cash	<input type="checkbox"/>	Check	<input type="checkbox"/>	Money Order	<input type="checkbox"/>
Roster	<input type="checkbox"/>	Membership Card	<input type="checkbox"/>		

**KOOTENAI AMATEUR RADIO SOCIETY**  
**P.O. Box 1765**  
**Hayden, ID 83835-1765**



## **DIRECTIONS TO KARS MEETING:**

Take U.S. Highway 95 to Miles Avenue (Miles is about 1 mile North of Hayden Avenue). Instead of proceeding west from the corner of Miles and Ramsey, go north about ¼ mile, to the first building on the left (West) side of the road.

## **2014 CLUB OFFICERS**

President: Dave Boss, KF7YWR  
president@k7id.org

Vice-President: Jim Monroe, N7ESU  
vicepresident@k7id.org

Exec. Director: Scott Howard, KF7USV  
excdirector@k7id.org

Secretary: Open, due to illness  
secretary@k7id.org

Treasurer: Bob Bluhm, W6CRA  
treasurer@k7id.org

Newsletter Editor: Gary Roth, KE7IAT  
509 993-8468 ke7iat@comcast.net

Repeater Trustee: Rick Van Landingham,  
KI7I ki7i@arrl.net

Repeater Tech: Dale DuRee, KE7VMN

Webmaster: Larry Telles, K6SPP  
208 762-2548 ltelles@icehouse.net

Past President: Bonnie Patterson,  
KG6QQM

## **Notice**

Propagation is published monthly by the Kootenai Amateur Radio Society (KARS). The club is located in Coeur d' Alene, Idaho and serves the North Idaho and the Spokane, Washington areas.

All opinions expressed in this newsletter are those of the individual contributors and not the radio club as a whole.

KARS operates a voice repeaters on 146.980 and 443.975, and a packet repeater on 145.510 Mhz.

Anyone interested in Amateur Radio is welcome to join. Dues are \$15.00 (individual) and \$20.00 for a family membership. Contact the Treasurer if you wish to join.

If you know of anyone interested in joining KARS, you can notify the newsletter editor as to that parties' email address. A copy of this newsletter will be sent with no obligation to join.

Material can be submitted for publication in Propagation. The deadline for articles, etc., is the 25th of each month for the following month's issue.