



November 2013

(www.k7id.org)

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

## **REGULAR CLUB MEETINGS:**

**Monday, Nov. 11, 7:00 p.m.**  
**Search & Rescue Bldg,**  
**Hayden, Idaho**  
**Topic: Raspberry Pi**  
**Presenter: Randy Carlson,**  
**KB6YAV; Frank Ten Thy,**  
**KG7CUI; Larry Telles, K6SPP**  
**Refreshments: Daneel**  
**Wilkins, KE7UYQ**

**Monday, Nov. 11, 5:30 p.m.**  
**ARRL VE Test Session**  
**Same Location As Above**

**Monday, Dec. 9, 7:00 p.m.**  
**1250 W. Lancaster Rd**  
**Shrine Club of CdA Event**  
**Center**  
**Hayden, Idaho**  
**Topic: Christmas Potluck**  
**Presenter: KARS**  
**Refreshments: Everyone**

**Monday, Dec. 9, 5:30 p.m.**  
**ARRL VE Test Session**  
**Search & Rescue Bldg,**  
**Hayden, Idaho**

### **Upcoming Events**

**Idaho QSO Party**  
**March 8-9, 2014**

**Mike And Key Hamfest**  
**March 8, 2014**  
**Puyallup, Washington**

### **PRESIDENT'S COLUMN**

Where has the time gone? It is already the first of November. The holidays will be here soon and then a new year. Hope you have had time to complete all your outdoor projects, including the antenna maintenance and upgrades.

I would like to thank Allan, KE7DFT, for conducting the October meeting and presenting the program. That gave Pat and I a chance to venture to Southern Idaho for a few days. We went to Sun Valley for the annual Jazz Jamboree. We heard a lot of great music. The trees were beautiful in all their fall colors and the air was quite crisp in the mornings. We also saw the largest herd of elk either one of us had ever seen. Assume the closeness to civilization was due to the extreme loss of habitat during the summer fires. It was fun to be gone, but it is nice to be home.

Work is progressing on our new repeater systems. The UHF antenna has been mounted on the new tower platform at Canfield Mountain. The various radios and controllers were ordered and received. A slight problem occurred with the new radios, we received units that wouldn't work on the ham bands. Having discovered that glitch, new radios were ordered and have arrived. The controllers and radios have been rack mounted and are being tested. It is hoped that the weather will hold and the installation on Canfield can take place on Saturday, November 2. The following weekend, November 9, good weather continuing, the new system will be installed on Mica. Since prep work has already been accomplished at Mica the installation should go quickly as long as Murphy doesn't show up. We have been working with the frequency coordinator to get our UHF links approved and into the system. Let's hope that the weather cooperates.

Remember November is election month for KARS. The slate of new officers is detailed elsewhere in this newsletter. If you have decided you would like to run for one of the offices, it is not too late to submit your name. Nominations from the floor may be made the night of the meeting. Please plan to attend and vote for the candidates of your choice. We need to show the new officers our support.

In December we will have our annual Christmas Party. Bring your families and food to share. Remember to bring a serving utensil for your shared dish. Note the new location, the Coeur d'Alene Shrine Event Center in Hayden, located on Lancaster Road. It is a beautiful new building. Our thanks to Ted, K7TED, for making this opportunity available to our club. As has become our tradition, we will pass the "basket" during the potluck and the donations will be given to a local charity. Mark your calendar for Dec. 9 at 6:30 PM.

Let me be the first to wish you and your families a Happy Thanksgiving. If you will be traveling out of the area, have a safe journey.

See you at the November meeting so we can all learn about Raspberry Pi. Here I thought Randy was giving a baking class, but apparently it is a one circuit board computer. Guess I have a lot to learn about Raspberry Pi.

73,  
Bonnie

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## KARS 2014 Nominating Committee Report

The Nominating Committee is pleased to present the qualified candidates listed below, as the proposed slate of officers for the 2014 term. The nominees are as follows:

President – Dave Boss (KF7YWR)  
Vice President – Jim Monroe (N7ESU)  
Secretary – Dwight Sederholm (KF7TFH)  
Treasurer – Bob Bluhm (W6CRA)  
Executive Director – Scott Howard (KF7USV)

During the November Club meeting, other Members who wish to serve as a Club officer may be nominated from the floor. If there are nominees from the floor, there will be a run-off election between the floor nominees and those listed above, according to rules set forth in the Club Constitution. Submitted by the nominating committee: Allan Campbell (KE7DFT); Ed Stuckey (AI7H); and Dave Boss (KF7YWR).

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## KARS Holiday Potluck Dec. 9, 2013

Where: Coeur d'Alene Shrine Club  
1250 W. Lancaster Road  
Hayden, Idaho

Time: 6:30 PM  
Bring your family and your  
favorite potluck dish.

Kootenai Amateur Radio Society  
Monthly Membership Meeting Notes  
October 14, 2013

The meeting was called to order by Vice President Alan Campbell as President Bonnie was out of town.  
**New Hams or Upgrades:** Tina Peterson, KG7GBB, Tech; David Clark, KG7DUY, Extra; George Schwimmer, KG7DUO, General; and Earl White, KG7GBA, Tech.  
**Guests:** Bob Peterson, KE7RAP, Spokane Valley; Dan Croskrey, NV2Z, Otis Orchards; and Tina Peterson from Coeur d'Alene.

**New Member:** David Clark, KG7DUY, Post Falls.  
Welcome to KARS and congratulations on the Extra.

**Program:** The program for the meeting was presented by Alan Campbell, KE7DFT. Alan told us about modern methods for constructing circuit boards for ham projects. Two of the sources Alan cited for boards and information were [www.farcircuits.net](http://www.farcircuits.net) and [www.expresspcb.com](http://www.expresspcb.com). The expresspcb.com site has the free design software.

**Break:** After the presentation there was a short break for refreshments which were provided by Randy Carlson – KB6YAV (and most likely assisted by Jean-KD7RVY) Excellent as usual.

**Business Meeting:** The meeting resumed with our monthly drawings. The 50-50, \$14, was won by Gabby, KE7ADN. The Membership drawing was won by KF7OFD, Robert Gains who was not at the meeting. Too bad Bob, only \$454!

The **minutes** of the September meeting were approved as published in the newsletter.

The **Treasurer's Report** was given by Secretary Tom, NI7W, on behalf of the missing Treasurer Pat, W7SGS, who was also out of town. The club has \$8,787.01 in the bank.

The **Nomination Committee** chairman/spokesperson Ed, AI7H, reports that they have a full slate of officers with the possibility of actual contests in a couple of positions. The names will be published in the next Newsletter and we will vote at the November meeting.

**Thursday Morning Coffee** will continue as usual thanks to the efforts of Golden Spike resident Tim Ryan.

**Repeater Progress Report** – Neither Dale, KE7VMN, nor Gary, N7DHL, were present so no official update was available.

**Christmas Holiday Party** A motion was made/seconded and approved to allocate \$300 toward expenses, over and above the rent, for the party. The party will be held on December 9 at the Shrine Event Center on Lancaster Road just west of Highway 95. December 9, 2013 **VE testing** will be available for 1 hour starting at 5:30 pm at the regular KARS meeting place in the Search and Rescue building.

**NW Traffic Net:** Manager, Gabby Perry, KE7ADN, reported that the net had 539 check ins for September. She needs a net control station for the nights of the KARS meetings. Gabby currently has 7 operators with 4 subs. Good job to Gabby and all the rest of the ops.

Submitted by: NI7W, KARS Secretary

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### **ARRL Executive Committee Okays Filing Symbol Rate Rule Modernization Petition**

The ARRL Executive Committee has authorized ARRL General Counsel Chris Imlay, W3KD, to file a *Petition for Rule Making* on the League's behalf calling for the deletion of symbol rate references for data emissions in the HF bands. The League will be unable to file its *Petition*, however, until the partial federal government shutdown ends, and the FCC reopens. The EC met October 5 in Aurora, Colorado.

The League's *Petition*, still in the final stages of preparation, would substitute an authorized bandwidth of 2.8 kHz for all data emissions in the bands below 30 MHz. Current FCC rules limit data emissions to a symbol rate of 300 baud below 28 MHz and to 1200 baud on 10 meters. The current limits date to 1980, when US amateurs first were authorized to use ASCII, reflecting the state of the art back then, which, the League points out, has been overtaken by technology. After discussing alternatives to the 2.8 kHz limit, the EC okayed filing the petition as drafted, subject to any final editorial changes.

At its July meeting, the ARRL Board of Directors, on the **recommendation** of the Ad Hoc Symbol Rate Rule Modernization Committee, directed Imlay to draft a *Petition for Rule Making* with the FCC seeking to modify §97.307(f) of the Amateur Service rules to delete all references to symbol rate. The *Petition* would ask the FCC "to apply to all amateur data emissions below 29.7

MHz the existing bandwidth limit, per §97.303(h), of 2.8 kHz." In digital systems "symbol rate" refers to the number of times per second that a change of state occurs. The ARRL chose the 2.8 kHz bandwidth, since the FCC already has applied it to emissions on the channelized 60 meter band and because it's slightly wider than the data mode bandwidths currently in use by amateurs on HF.

The Ad Hoc Committee had determined that the current symbol rate restrictions in §97.307(f) "no longer reflect the state of the art of digital telecommunications technology," and that the proposed rule change would "encourage both flexibility and efficiency in the employment of digital emissions by amateur stations." ARRL Chief Executive Officer David Sumner, K1ZZ, discussed the symbol rate issue in detail in his September 2013 *QST* "**It Seems to Us**" editorial. "The guiding principle for our use of the spectrum allocations to the Amateur Radio Service is cooperation in the sharing of access to a limited resource," Sumner wrote.

On another FCC-related matter, Imlay noted that while reply comments in ET Docket 13-84, the FCC's **reexamination** of its RF exposure rules, are due November 1, the League will not be able to complete its review of filed comments until the FCC reopens. Once the review has been completed the League will determine whether any of the comments require an ARRL response.

Imlay further noted that the FCC has yet to take action in **ET Docket 12-338** to formally reflect the *Final Acts* of the 2007 World Radiocommunication Conference in its rules. Comment deadlines were more than 6 months ago. The Commission also has taken no action on the ARRL's November 2012 petition to implement a 472-479 kHz allocation, which stemmed from WRC 2012. Imlay said the subject may be considered in a *Further Notice of Proposed Rule Making* in the proceeding.

Imlay told the EC that FCC action is expected soon on **WT Docket 12-283** and WT Docket 90-209, which contain several proposals to amend rules governing the administration of Amateur Radio examinations. The League has argued against a proposal to reduce the number of volunteer examiners required at an exam session from three to two.

The EC reviewed a draft FCC filing prepared by ARRL Chief Technology Officer Brennan Price, N4QX, that supports recommendations approved last month by the FCC Advisory Committee for **World Radiocommunication Conference 2015**. The EC authorized Price to file the comments, subject to any final editorial changes.



# A Reminder

## Handheld Radios Available for Member Usage

Attention new Technicians. Now that you have your ham license in hand, have you had a chance to get on the air? Can't decide what kind of radio to buy?

KARS now has handheld radios available for loan to new technicians who are members of KARS. Hams under 21 are given priority. Hams under 21 may use the radios for 90 days. Hams under 18 will have to have a responsible adult sign as Guarantee. Hams 21 and over may use the radios for 60 days.

The radios must be returned in good working order at the end of the usage period or the borrower will pay KARS the cost of replacing the radio.

All the radios have been programmed for our local repeaters. Interested in borrowing one? Please contact a board member for further information.

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## Army MARS Seeks Partnership with ARRL, ARES

Representatives of the US Army Military Auxiliary Radio Service (**MARS**) met with ARRL staff at League Headquarters October 2 to discuss ways the two organizations might collaborate in emergency response activities. Army MARS Region 1 Director Bob Mims, WA1O EZ, headed the delegation. Mims, who is also manager of the Army MARS National Net, said most of the discussion centered on how ARRL Headquarters and the Amateur Radio Emergency Service (**ARES**) could interact with MARS during its national-level test of backup communications set for early November, and going forward.

“For the exercise the ARRL Headquarters expressed interest in activating their MARS station at W1AW — AAN1ARL,” Mims said. Discussions are still underway regarding the role AAN1ARL and ARES would play in the November exercise. Army MARS has invited Air Force and Navy-Marine Corps MARS to take part in the joint national communication exercise that will measure the auxiliary force's capabilities, should normal communication systems be disrupted throughout North America.

Joining Mims were MARS Southern New England Emergency Operations Officer John Weinland, N1ATB, and MARS members Jon Perelstein, WB2RYV, and Matt Hackman, KB1FUP. The MARS contingent met with ARRL Emergency Preparedness Manager Mike Corey, KI1U, ARRL Emergency Preparedness Assistant Ken Bailey, K1FUG, and W1AW Station Manager Joe Carcia, NJ1Q.

Mims relayed to **Army MARS Headquarters** at Fort Huachuca, Arizona, Corey's suggestion that local ARES nets could provide assistance during the November

exercise by generating and relaying messages. Army MARS says the exercise is aimed at demonstrating conventional traffic-handling abilities. The test will run November 3-5, and a joint Army/Air Force/Navy-Marine Corps team responsible to the US Department of Defense for homeland security will monitor the 48 hour exercise.

Army MARS Program Manager Paul English, WD8DBY, says that while Army MARS is the lead service in the exercise, it is looking forward to participation from the other MARS services as well as from the Canadian Forces Affiliate Radio System (**CFARS**).

“In order to properly evaluate our ability to provide this coverage,” English explained, “there will be a series of messages sent from DOD and the Army MARS Headquarters, Network Enterprise Technology Command (NETCOM), to MARS members requesting various pieces of information such as weather observation reports from airports around the country, requesting local news items of interest from areas around the country, and also requesting information on the status of utilities around the area.”

The exercise would culminate a year-long series of escalating preparations by Army MARS for responding to complex emergencies — a natural disaster or terrorist attack — that might crash or compromise the Internet, telephone, and national news and media networks across the US.

ARRL has asked the MARS contingent to provide points of contact at least within each of the FEMA regions or possibly a couple of different contacts in the various MARS groups.

Subsequent to the meeting at League Headquarters, ARRL Southwestern Division Vice Director Marty Woll, N6VI, paid a visit on October 8 to Army MARS Headquarters in Fort Huachuca, Arizona. Woll says he enjoyed an extended conversation with Army MARS Chief of Operations David McGinnis, K7UXO.

“David was very complimentary of the radio amateurs who work at the station,” Woll said, “and he expressed great interest in opportunities for MARS and ARRL to work more closely together.”

Woll points out that the MARS HQ station can handle nearly a dozen simultaneous HF links, “and we employed one of them to hold an impromptu 18 MHz contact with W1AW,” he added. He arranged the contact via more conventional means — the telephone — adding that he and W1AW Station Manager Joe Carcia, NJ1Q, enjoyed a brief conversation on the air as the staff looked on. Woll said McGinnis expressed interest in possibly arranging such contacts on a periodic basis and said he'd like to better acquaint the amateur community with the role and functions of Army MARS.

McGinnis recounted that he and Woll discussed conducting regular checks with W1AW, using both Amateur Radio and MARS circuits, and quarterly drills on

both circuits. Woll, who's also an ARES assistant District Emergency Coordinator, was in Arizona to speak to the Cochise Amateur Radio Association (**CARA**).

MARS is a US Department of Defense-sponsored program with **Army**, **Navy**, and **Air Force** branches. The program consists of Amateur Radio operators who are interested backing up the US Department of Defense's communication requirements when normal channels are disrupted in disasters or emergencies. [ARRL News]

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## IARU Region 2 Publishes New Band Plan

International Amateur Radio Union (**IARU**) **Region 2** (the Americas) has published a revised **IARU Region 2 Band Plan** (<http://www.iaru-r2.org/documents/explorer/files/Plan%20de%20bandas%20%7C%20Band-plan/R2%20Band%20Plan%202013.pdf>) for all allocations from 137 kHz to 250 GHz, effective September 27, 2013. The member-societies of IARU Region 2 adopted the new plan during their triennial General Assembly in Cancun, Mexico, in late September. Delegates from 18 national Amateur Radio associations attended. Representing the ARRL were President Kay Craigie, N3KN, as the voting delegate; First Vice President Rick Roderick, K5UR; Chief Executive Officer David Sumner, K1ZZ, and Technical Relations Specialist Jonathan Siverling, WB3ERA.

"For the first time in Region 2, band plans for the VHF, UHF, and microwave bands were adopted to guide development of these bands," Sumner said. "HF band plans were reviewed with the objective of improving terminology and aligning them more closely with those of the other regions, particularly Region 1 (Europe, Africa, the Middle East, and the former Soviet Union)." The revised document designates a new segment for the Amateur-Satellite Service from **144.000 to 144.025 MHz**.

As it states in its introduction, "The IARU Region 2 has established this band plan as the way to better organize the use of our bands efficiently. To the extent possible, this band plan is harmonized with those of the other regions. It is suggested that member-societies, in coordination with the authorities, incorporate it in their regulations and promote it widely with their radio amateur communities."

For the first time the band plan includes definitions "to organize the concepts used in the band plan, as well as the proposed use of spectrum for the bands between 6 meters and 1 millimeter," says IARU R2 News Editor Joaquín Solana, XE1R.

The new band plan references near space stations (NSS) in its definitions section. According to the band plan, "Equipment located in temporary Near Space Stations (such as those carried by high-altitude balloons) can transmit carefully on any frequency; exceptions are the segments with 'exclusive' usage where 'NSS' are not applied. NSS must follow the BW [bandwidth] and mode

restrictions of the segment and observe carefully the usual occupation of the band on the related region to avoid harmful interference. For longer missions and NSS crossing international and regional boundaries, extra care must be observed in harmonization of different allocations." [ARRL News]

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## Elk Antennas and Daysaver Power Systems to Merge

DaySaver Power Systems is merging with Elk Antennas. DaySaver products will continue to be offered by Elk, which says that the transition from DaySaver Power Systems to Elk Antennas should be seamless, with no interruption in order fulfillment or warranties.

Currently, the DaySaver.com website will continue to operate, but in the future the link will likely take you to the Elk Antennas site at ElkAntennas.com for an expanded array of products with the DaySaver name.

According to Elk Antenna's Jim Siemons, AF6PU, the merger helps fulfill Elk's goal of expanding its product line for portable, remote and emergency communications. Both companies service the Amateur, Commercial, Military and Public Safety Radio Services. (Press Release)

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## Ham Radio Volunteers in India, Philippines Wrap Up Disaster Responses

India's National Coordinator for Disaster Communication Jayu Bhide, VU2JAU, has expressed appreciation to the Amateur Radio community for keeping 7145 kHz clear so that ham radio volunteers could pass emergency traffic in the wake of a cyclone. Teams of radio amateurs responded October 13 to assist in the aftermath of powerful Cyclone Phailin, which came ashore at Odisha and Andhra Pradesh in the Bay of Bengal. The storm generated gusting winds and heavy rain, forcing the advance evacuation of some 500,000 residents.

"The main effect of the wind was seen in coastal areas, which were evacuated before the cyclone," Bhide said. "In spite of wind speed, all the telephone lines and mobile towers were working, and communication was not affected as we thought earlier." Bhide had asked that 7145 kHz be kept clear, as Dilip, VU2DPI; Mithilesh, VU3BHI, and Sameer, VU2AOR worked around the clock, passing essential messages and doing what they could to help.

The latest cyclone revived memories of a monster storm that hit the same region 14 years ago, killing 10,000 people. Better preparation and early evacuations kept the death toll to 21 this time. Thousands took shelter in public buildings ahead of the cyclone. Many mud homes and farms were destroyed, and uprooted trees blocked roads. Agricultural activity was expected to take a long time to recover.

Power remained out this week in the Ganjam District of Odisha, where the entire power system reportedly was blown away. The power outage has caused an acute water shortage.

Two days later in the Philippines a 7.2 magnitude earthquake struck the islands of Bohol and Cebu, causing casualties and severe infrastructure damage. Philippine Amateur Radio Association volunteers responded. Ramon Anquilan, DU1UGZ, said the earthquake occurred just as work crews were about to clean up the debris left by Typhoon Santi. He asked that 7095 kHz be kept clear for emergency traffic.

According to messages via HF, on 2 meters and via EchoLink, many buildings were damaged, bridges collapsed, power knocked out and schools closed. Hams also passed reports on weather conditions and aftershocks. The earthquake hit on a national holiday in the Philippines, at the beginning of the Muslim festival of Eid al-Adha. Media accounts reported landslides in some areas, with more than 8500 homes destroyed. The death toll topped 180 by week's end. — *Jim Linton, VK3PC, IARU Region 3 Disaster Communications Committee chair; media reports* [ARRL News]

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### What Comes Out of the Top of a Thunderstorm?

In recent decades researchers have discovered some strange things happening in the cloud tops. High above ordinary lightning, exotic forms known as red sprites and blue elves shoot toward the heavens, as often as 500 times a day, Earth briefly mimics a supernova, producing a powerful blast of gamma-rays known as a Terrestrial Gamma-ray Flash or TGF.

No one knows exactly how these phenomena are related either to each other or to the lightning down below. A new experiment called "Firestation" on board the ISS aims to find out. Firestation is a package of sensors designed to explore the links between TGFs, ordinary lightning, and sprites.

The space station's orbit will carry Firestation directly above thousands of active thunderstorms during the one-year lifetime of the experiment. Unlike previous experiments in upper atmospheric lightning, Firestation has the unique ability to observe thunderstorms at multiple wavelengths simultaneously. It can record the radio static from lightning, measure its optical glow (including the red and blue light of sprites and elves), and detect the gamma-rays and electrons associated with TGFs and antimatter events. [Southgate News]

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### Bushfire response gets WICEN help

As numerous bushfires burn in the Blue Mountains in New South Wales (NSW) Australia the latest to join the

fight has been WICEN members activated to help with their communications knowledge.

WICEN NSW President Compton Allen said the official activation has begun, drawing on the resources of the emergency communications group.

The activation is "to support the declared State of Emergency with manpower in the Lithgow area to the West of Sydney in the Blue Mountains," said Compton.

Already 200 homes have been lost. A State of Emergency has been declared for the area.

The NSW Rural Fire Services fear that up to four separate blazes could potentially come together to form a huge fire front in the next day or so.

Evacuations of tens of thousands of people are possible as hotter weather conditions combine with fire fronts already burning.

*Jim Linton VK3PC*

Chairman IARU Region 3 Disaster Communications Committee

[http://www.southgatearc.org/news/oct...wicen\\_help.htm](http://www.southgatearc.org/news/oct...wicen_help.htm)

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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: 146.98  
100 PL

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 \_\_\_\_\_

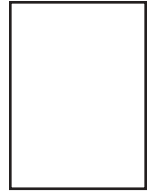
Signature \_\_\_\_\_

### Internal Use Only

Cash	<input type="checkbox"/>	Check	_____	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.

## **2013 CLUB OFFICERS**

President: Bonnie Patterson, KG6QQM  
president@k7id.org

Vice-President: Allan Campbell, KE7DFT  
vicepresident@k7id.org

Exec. Director: Jacob Cord, K7AJC  
excdirector@k7id.org

Secretary: Tom Richmond, NI7W  
secretary@k7id.org

Treasurer: Pat Patterson, W7SGS  
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: Jim Monroe, N7ESU  
208 687-2251 n7esu@arrl.net

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

Past President:

## **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 repeater on 146.98 and a packet repeater on 145.510 Mhz.

Anyone interested in Amateur Radio is welcome to join. Dues are \$12.00 (individual) and \$18.00 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.