



May 2021

(www.k7id.org)

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

REGULAR CLUB MEETINGS:

MAY 10, 2021
Hybrid Meeting
7:00 – 8:30PM
Program: Practice Field
Day Exercise - Hands on
Logging Program
Presenter: Many

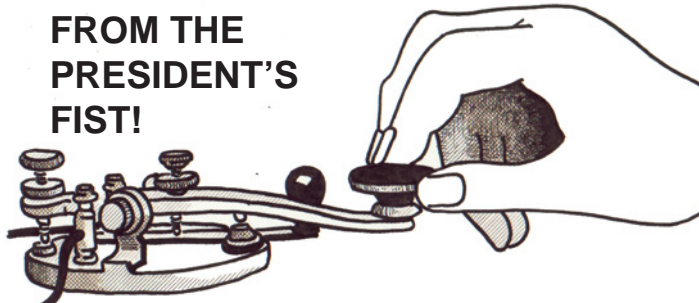
JUNE 14, 2021
Hybrid Meeting
7:00 – 8:30PM
Program: Antennas for
Field Day
Presenter: Ethan Gollenhon
KE7DUX

JULY 12, 2021
Hybrid Meeting
7:00 – 8:30PM
Program: Preparation for
Field Day
Presenter: Many

A Zoom Meeting Link will
be sent out to your email
before the meeting.

Refreshments: You are on
your own.

FROM THE PRESIDENT'S FIST!



President's Message May 2021

Dear Club Members and Friends,

As mentioned in some of the previous newsletters, we had been struggling with the "Hybrid Meeting" concept, because we didn't give enough attention to the Zoom attendees. We think we came around the corner during the April Club meeting, because we "employed" (actually pressured him into it) a "Zoom DJ", Club member Andrew (KF7HSH). Andrew was pressed into the job on very short notice because Past President Frank (KD7FK) (the intended DJ) came down with a serious cold and wasn't available. Anyway, Andrew was joined by Club Member Ethan (KE7DUX) and through the magic of younger minds and modern electronics an excellent communication path was established for Zoom attendees. Yours truly was delighted when checking email after the meeting and had several reports of "felt like I was in the room!". We still have some work to do, next we will tackle recording of votes from Zoom attendees.

During the April Club meeting we discussed what resources will be needed to support our Field Day station this year. "Individualized" sign-up sheets were distributed to all in house attendees, and it looks like we are on the way to developing a nice Field Day station. In case you were not able to attend the April meeting, the most important resource requirement is Operators and Loggers. After all, you cannot run a multiple-transmitter radio station without people to work as the operators. To that end, we will be doing a hands-on practice/training event during the May meeting so that participants can get the feel of what it's like with a lot of QRM (other people talking) while trying

to operate “your” station and log the contacts you made. Zoom attendees are welcome to participate as well, as explained in a separate article in this newsletter.

It turns out the annual KARS Hamfest will be a Field-Fest again this year because Post Falls School District no longer allows “outside organizations” to use their school property on weekends. The tentative date chosen is August 7, that gives us time to get publicity in QST Magazine.

Last, we sadly announce the recent passing of former KARS Club member Jim Miller (N8BNI) of Rathdrum, ID, at age 89. Jim graciously gifted all of his ham equipment (including three towers) to the KARS Club. We hope to get all the electronics cleaned up to be available for sale during the above-mentioned Field-Fest.

Be Safe! And 73, Ed Stuckey (AI7H)
KARS Club President

THE RECENT KARS MEETING MINUTES



**Kootenai Amateur Radio Society
(KARS)**

Minutes of the April 2021 Meeting

The April 12, 2020 KARS meeting was held at the Kootenai County Search & Rescue Building located at 10865 N Ramsey Rd. Hayden, Idaho. The meeting was called to order at 7:00 pm by Club President Ed Stuckey (AI7H). The Pledge of Allegiance was led by Michael Glauser (AI7MG). This month the Club introduced the concept of “Zoom Disc Jockey” to help manage communications with Zoom attendees. Andrew Esselbach (KF7HSH) volunteered as Zoom DJ and was assisted by Ethan Gollehan (KE7DUX). Meeting attendance

included 23 in-house and 16 via Zoom.

Two first-time attendees were welcomed to the Club meeting. Fifteen people took Amateur Radio exams prior to the Club meeting. A total of fourteen passed their tests, including eight Technician, three General, and three Extra Class.

Announcements:

We will continue with Hybrid meetings in the future. This allows folks who live out-of-area and/or have situations that prevent in-person attendance to join the KARS meetings.

The Club will offer “PayPal” as an online alternative for submitting membership dues, possibly beginning in May 2021.

As discussed in past meetings, we are preparing to replace the Mt. Canfield UHF repeater antenna. The antenna is on hand, climbers have been located, and the KCSO has (sort of) agreed to an install date of 05/08/21.

As mentioned in March, the property previously owned by Rick VanLandingham (KI7I, SK) was sold to a non-ham as of 04/01/21. The new owner contacted Club president Ed about disposal of two towers on the property. As of the close of the April Club meeting two prospective buyers have been located. It’s a rather complicated deal because two prospective buyers (who will need a bucket truck for dis-assembly) and a non-ham seller are involved. An informal ham tailgate/swap party will be held in Spokane on Saturday 06/19. More details will be provided when available.

Old Business:

President Ed asked for a motion to approve the March Club Meeting Minutes (which were reported in the April Newsletter). It was so moved by Michael (AI7MG) and seconded by Bernie (W3OWP). Club members present approved by voice vote.

President Ed also asked for a motion to approve the February Financial Report (which were reported in the April Newsletter). It was so moved by Bernie (W3OWP) and seconded by Michael (AI7MG). Club members present approved by voice vote.

The March Financial Report was presented verbally by Treasurer Shannon Riley (K7MUA). President Ed asked for a motion to approve, and it was so moved by Jerry (W7KR) and seconded by Michael (AI7MG). Club members present approved by voice vote.

The Club Liability Insurance contract is due for renewal in May, at a cost of \$300. The KARS Club constitution requires a vote by membership to approve individual expenditures of over \$200. President Ed asked for a motion to approve, and it was so moved by Martin (KG7LRV) and seconded by Bernie (W3OWP). Club members present approved by voice vote.

New Business:

Club members were invited to continue the discussion about a “KARS Daytime Net”, presumably to be held on the KARS linked repeater system. One suggestion was that the concept of a “Net” might be too restrictive, and the format could be modified to “Round Table”. A consensus was NOT developed, and the subject was tabled until a future meeting.

After conclusion of the Business Meeting, Club members and guests enjoyed a brief break, with coffee brewed by an unknown brew-master and cookies provided by Maury Dahlen (KA7ETE). Special thanks to Maury and YL for the bountiful supply of cookies!

The evening presentation was about Club preparation for Field Day, which will take place on June 26-27. Two old QST magazine cover pages (Excellent cartoons about the fictitious “Podunk Hollow Radio Club”) were shown, the first showing preparation for Field Day 1956 with a prominent sign labeled “Visitors Welcome”. The second showed what actually happened, with kids playing baseball and swinging on antennas and guy wires; and the food truck and balloon salesman present. (to contrast with what happened during KARS Field Day 2020 at the Majestic Park in Rathdrum). The upshot of the presentation was that the most important aspect of an event like Field Day was PEOPLE, and individual “sign-up” sheets were passed out to inquire about human and material resources available to support KARS Field Day

2021. The idea of “leveling the playing field” was also discussed, concerning “bonus points” and “power level multipliers”. As announced in the April Newsletter sidebar, we will do “Operator and Logger” training in the May Club meeting, and we will have an Antenna presentation in the June meeting.

Upon conclusion of the presentation, a call was issued for motion to adjourn. Shannon (K7MUA) made the motion to adjourn, and it was seconded by Phil (KJ7MRJ). The adjournment was approved by voice vote, and the meeting adjourned at 8:30PM.

Minutes respectfully prepared by Ed Stuckey (AI7H)

HEADS UP!!! ALL AMATEURS SHOULD READ!

Changes in the FCC Universal License System (ULS)

If you have not already heard, the FCC is going paperless. They (for example) no longer send your new or renewed license in the mail. They also want ALL Amateur Radio licensees to provide their email address. You will add or update your email via the Universal License System (ULS). The ARRL has put together an excellent explanation of how this is to be accomplished on their website: <http://www.arrl.org/universal-licensing-system>

THIS NEWSLETTER BELONGS TO THE MEMBERSHIP. IT IS ALWAYS LOOKING FOR MATERIAL TO SHARE WITH THE MEMBERS OF KARS.

MATERIAL CAN BE SUBMITTED FOR PUBLICATION, AND THE DEADLINE FOR ARTICLES IS THE 25TH OF EACH MONTH FOR THE FOLLOWING MONTH. PLEASE CONTACT THE EDITOR...

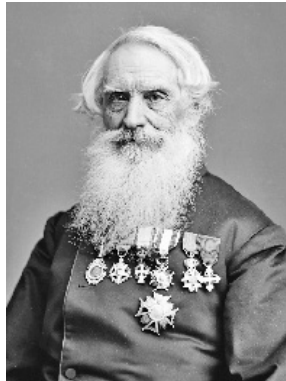
Do you have a simple project that you would like to share? If, let the editor know!!!

A SNAPSHOT FROM THE PAST



Samuel Morse

It was Samuel Morse (1791-1872) in 1832 who came up with the most practical and commercial operation for the telegraph. In the spring of 1837 Morse began to expand on his telegraph by sending a message through ten miles of wire. He takes on a partner for financial assistance. Shortly after the partnership began, the partner claims that he invented the telegraph. Morse takes him to court and wins. This would be the first of many court appearances.



On September 28, Morse files for a patent for his telegraph. January 1838, Morse makes a big change. He created a dot-and-dash code that used different combinations to represent letters of the English alphabet and the ten digits. This coding system was far superior since it didn't require coding or decoding, but could be "sound read" by operators.

Later in 1838, at an exhibition of his telegraph, Morse transmitted ten words per minute using the new Morse code that would become standard throughout the world. It wasn't until 1840 that Morse received his patent. October 1842 Morse tried underwater transmission between two islands in New York harbor, a distance of two miles. The demonstration was a big success. Progress on the Morse telegraph began on March 3, 1843 when Congress appropriated \$30,000 for an experimental

telegraph from Baltimore to Washington D.C. The cable that carried the signals was installed and placed in lead pipes underground several months earlier. May 24, 1844 Morse sent a message from the Capitol building in Washington, D.C., to the Railroad Depot in Baltimore. The message, "What Hath God Wrought?" The telegraph line was expanded in 1846 from Baltimore to Philadelphia. While Washington D.C., is connected to New York. New telegraph companies begin to materialize and Morse patent claim are threatened once again. In 1854 the U.S. Supreme Court upholds Morse's claims for his telegraph system. He must be paid when companies use his system.

With the common telegraph system up and running, inventors turned to wireless operation which will soon become a term called radio. [12] It appears that over the past centuries there have been several definitions of the meaning of "wireless telephony." If you were an observer in the sixteenth century you may have thought "sympathy" (an invisible force) existed between needles touched by the same magnet, and that deflection of one would cause a corresponding deflection of the other. This thought process came before, during and after the electro-magnet arrived on the scene.

**JOIN THE K7ID GANG EVERY
THURSDAY MORNING!**

**COFFEE
QSOs**

**GROSS DONUTS
1603 E. SELTICE
POST FALLS**



8 till 10

**HELP
SUPPORT
OUR REPEATERS**

NEWS FROM ACROSS THE BAND!

Sea-Pac 2021

Many KARS Members and friends like to attend an event called “Sea-Pac” (aka “the ARRL Northwest Division Convention”) on the first weekend in June – except when it’s closed down for Covid. Well, Sea-Pac will be running a “virtual convention” this year. It’s explained in the current issue of “Sea-Pac Waves” newsletter, and here is the link to that document: www.dropbox.com/s/fsz27fg3v1wk3fx/Apr%202021%20SEA-PAC%20Waves%20202.pdf?dl=0 (or if it’s too hard to wrangle the link, just Google Sea-Pac Waves).

RF Exposure Rules

The FCC recently announced that operators in ALL radio services must do a “RF Exposure Assessment”. (Real-life meaning: Don’t get too close to your antenna when you are talking on the radio). Several sources have attempted to supply correct information about this and some are wrong. We will get the true and correct info together and present on the www.k7id.org website and in a future edition of this newsletter.

Sunspots are Coming!!

This applies to all hams who currently use and/or plan to use the traditional “Short Wave” bands. There has been an excellent up-tick in the number of sunspots during the month of April, and this means that the 30- and 20-Meter Bands are often “open” well into the evening hours, and the 17- and 15 Meter Bands are experiencing daytime openings! This is the long-awaited beginning of Sunspot Cycle 25, predicted to “peak” in mid-2024. For newer operators, this is a good time to upgrade to General or Extra Class licenses.

Amateur Radio License Reminders

The FCC is trying to go paperless, so they want all Amateur Radio operators to include a valid

email address on their official FCC Record. Also, this is a good time to check and make sure your mailing address is correct (even though the FCC says they won’t mail anything to you). Adding your email and correcting your address are considered “administrative changes” and can be completed at no charge. HOWEVER, beginning in late June, New Licenses, Renewals, and Vanity Licenses will cost \$35. We’ll keep you informed on the exact date and cost in future editions of this newsletter.

Weather-Watchers Online Course

You can become a Registered National Weather Service (NWS) “Spotter” by attending a free online class. The next Basic class is on Tuesday 05/04 and the next Advanced class is on Tuesday 05/11. The classes begin at 6:30PM PDT. Find more information and register for one (or both) of the classes by visiting www.weather.gov/spokane then click on the first item below “News Headlines”

CIRCLE YOUR CALENDAR!

KARS Club 2021 Activity Plan

As of 03/18/21

Club Meetings – “Hybrid Meetings” (Both In-Person and via Zoom)

06/25 – 06/27 – Amateur Radio Field Day

July or August Date TBD – KARS Hamfest or “Field-Fest”

12/13 – KARS Christmas Party

Every Thursday – “Thursday Coffee & Donuts” (Note 1)

Proposed – Daytime KARS Net (VHF or Zoom or both?) (Note 2)

Notes:

1. Has attracted several new Club members.
2. Daytime KARS Net proposed for those who can’t make it to Coffee & Donuts.



Astron 20 Power Supply Single Meter
(Volts/Amps)

Heath HD 1410 electronic keyer

Heath 2140 HF SWR Meter
Heath 2141 VHF SWR Meter

AEA PK232MB Packet Decoder

Kenpro KR-600 Rotor and Controller

Ameritron Remote Control Coax
Switch 5 Positions

Yaesu G1000 Rotor Control Box
(Rotor on Tower)
CDE CD45 Rotor Control Box (Rotor
on Tower)

Eico 300C Clamp-on Ammeter

J-38 (fake) Key
Vibroplex Model D6 Bug

Railroad American Morse Sounder in
Sounder Box

Sigma SWR Meter
Olson SWR Meter

RF Concepts 2M/70CM Brick Model 2/70G

TripLite Line Stabilizer LC-1200A

Drake L7 Linear Amplifier and PS

Hard Cover 1975 Radio Amateur's Handbook

Hi-Tower Antenna Tower (older)
40' Crank-Up Tower Mfr Unk (Tilt Plate) with
Tri-Band Beam, Rotor

30' Rohn (Older Model)(Tilt Plate) with 6M
Beam, Rotor

Many Wall Warts
Miscellaneous Cable, especially RCA
Jumpers

More still on site!

Contact Ed, AI7H to make an offer. No
REASONABLE offer will be refused...

Equipment not sold will be taken to our Field
Fest later this year!

Cheap Cable Modem that has a Spectrum Analyzer Feature

During the April Club meeting, New Club member Jim (W7LS) asked to do a brief "Show and Tell". It was about a tiny (and cheap) cable modem that also has a "spectrum analyzer" mode. Jim sent along a link that shows a discussion between a group of techs who know how to use the analyzer (far above my pay grade!) Here's the link:

<https://www.dslreports.com/forum/r31563033-Broadcom-Chip-Spectrum-Analyzer>



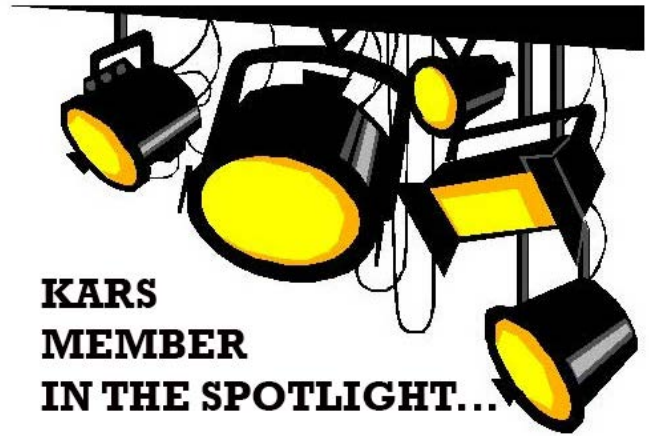
News On Ham Estate Sales Two 70-Foot Self Supporting Towers, Spirit Lake, ID

As mentioned in a previous newsletter, there are two towers for sale (with Yagi antennas and rotors) at the estate of Rick Vanlandingham (KI7I, SK) in Spirit Lake, ID. The towers are Self-Supporting aluminum, triangular, with 30-inch spacing at the base. We know they are Universal Towers, and believe they are Model 7-70 or HD8-70. The current property owner is not a ham and wants the towers AND concrete bases removed! We have one KARS member lined up as a prospective buyer, and are looking for a second buyer, the idea being that buyers could share (ugh!) costs of removing antennas and rotors, bringing down the towers, and (ugh!) removing the bases (approximately 4' x 4' x 6' deep). If you are interested in a BIG self-supporting tower, please contact Ed (AI7H), email president@k7id.org

Two Towers and one Hy-Tower in Rathdrum, ID

As mentioned elsewhere in this newsletter, Jim Miller (N8BNI) became a silent key at the beginning of April, and he willed all his Amateur Radio equipment and towers to the KARS Club. The two towers are a 30-foot Rohn-25 with tilt plate and lowering apparatus, and a 30 or 40-foot unknown brand crank-up, also with tilt plate and lowering apparatus. The Hy-Tower is an older model and does not have a tilt plate. The executor of the estate is anxious to remove the towers to improve curb appeal of the house, which will go on the market soon. All of the "inside" ham gear will be cleaned up and tested, then offered for sale at the KARS Field-Fest in August. If you are interested in these towers, please contact Ed (AI7H), email president@k7id.org

**HELP
SUPPORT
OUR REPEATERS**



**KARS
MEMBER
IN THE SPOTLIGHT...**

by Larry Telles, K6SPP

Spotlight this Month is on:

Jon Allsup, KJ7PIY



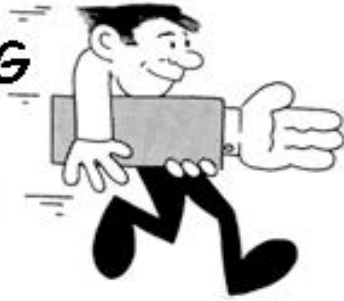
Jon is a brand new ham. He got his Tech license less than a year ago, and his General license a couple of months ago. He belonged to an organization that was looking for people to do communications work. So he studied and got his license.

Forty meters is Jon's choice of bands for general purpose operating. He said for him it was a good band to get into another state and possibly even farther at times. Jon said that he likes two meters also which gives him the ability to talk to local hams.

When asked about what he likes about ham radio. Jon hesitated then said, "I like the old fashion way of communicating. Cell phones represent the new high tech and Amateur Radio doesn't feel that way."

WANNA TRY DIGITAL?

WORKING
WITH
DIGITS



PART 2 PACKET RADIO

NECESSARY HARDWARE: (From last month)

Computer (Desktop or Laptop)...2 Meter Transceiver...Interface (or Rascal type)

FREE SOFTWARE: (on the Internet)...AGWPE...FLEXNET...WINPACK

IF YOU HAVE A PACKET TNC IT HAS ITS OWN SOFTWARE...THIS MATERIAL IS FOR A COMPUTER SOUND CARD SET UP!

Is it necessary to know and understand the PACKET theory? No but as a ham you should have an idea on how it works!!!

THE THREE (3) FRAMES (DATA IS SENT IN PACKETS, THUS THE NAME)

AN "I" FRAME CONTAINS USER DATA THAT IS BEING TRANSMITTED FROM ONE STATION TO ANOTHER.

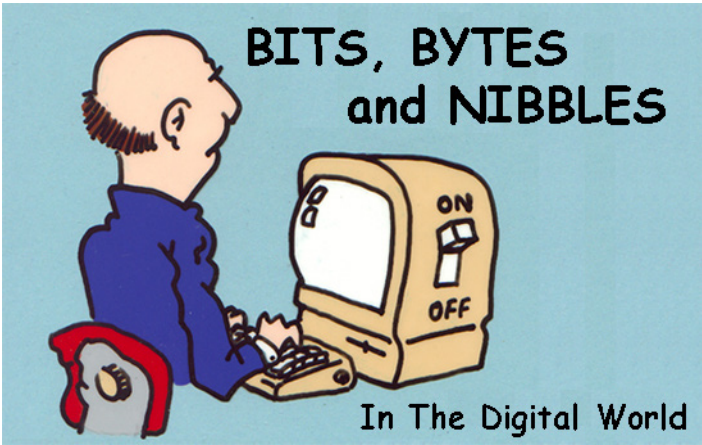
FIELD:	FLAG	ADDRESS	CONTROL	PID	INFORMATION	FCS	FLAG
LENGTH:	8 BITS	112-560 BITS	8 BITS	8 BITS	N X 8 BITS	16 BITS	8 BITS
CONTENTS:	01111110	CALL SIGNS & SSIDS OF DESTINATION, SOURCE, & DIGIPEATERS	FRAME TYPE	LAYER 3 PROTOCOL TYPE	USER DATA	CALCULATED VALUE	01111110

AN "S" FRAME PROVIDES CONTROL OF THE COMMUNICATIONS LINK. THE "S" FRAME ACKNOWLEDGES THE RECEIPT OF "I" FRAMES OR CAN REQUEST RETRANSMISSION OF "I" FRAMES.

FIELD:	FLAG	ADDRESS	CONTROL	PID	INFORMATION	FCS	FLAG
LENGTH:	8 BITS	112-560 BITS	8 BITS	8 BITS	N X 8 BITS	16 BITS	8 BITS
CONTENTS:	01111110	CALL SIGNS & SSIDS OF DESTINATION, SOURCE, & DIGIPEATERS	FRAME TYPE	LAYER 3 PROTOCOL TYPE	USER DATA	CALCULATED VALUE	01111110

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**KARS IS YOUR LOCAL
AMATEUR RADIO CLUB
HERE IN NORTHERN
IDAHO.**

**WHEN YOU SUPPORT THE CLUB
YOU ARE SUPPORTING OUR
REPEATERS!!!**

PROPAGATION is looking for stories, articles, etc., pertaining to Amateur radio. You don't need to write the material only produce the story (article) content!

PROPAGATION is looking for photo graphs of ham shacks, antennas, etc.

Propagation is published monthly, by the Kootenai Amateur Radio Society (KARS). The club is located in Hayden, 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 voice repeaters on 146.780 (Little Blacktail), 146.980 (Idaho Mica Peak) and 443.975 (Canfield Butte), and a packet repeater on 145.510.

Anyone interested in Amateur Radio is welcome to join. Dues are \$15.00 (individual) and \$23.00 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 party's 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.

2021 CLUB OFFICERS

- | | |
|--|--------|
| President: Ed Stuckey,
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| Vice-President: Gabbee Galino,
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| Newsletter Editor: | K6SPP |
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PROPAGATION

Issue: Vol. 69 No. 05

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

Organization: 501(c)3 - Donations are tax deductible.

Editor: Larry Telles, K6SPP, (208) 771-2633

Contributors: Ed Stuckey, AI7H

Kootenai Amateur Radio Society (KARS) MEMBERSHIP APPLICATION

One year membership Rates:

New Member: \$15.00 Renewal: \$15.00 Family Membership: \$23.00

Two year membership Rates:

New Member: \$28.00 Renewal: \$28.00 Family Membership: \$42.00

Lifetime membership:

Member: \$150.00

Information Update Only

Are You An ARRL Member? Yes / No (Please Circle One)

Callsign: _____ Class: _____ Expiration: _____

First Name: _____ M.I. _____ Last Name: _____

Nickname: _____

Address1: _____

Address2: _____

City: _____ State: _____ ZIP: _____ - _____

PHONE NUMBER: (____) _____

OK to publish phone number? Yes / No (Please Circle One)

EMAIL ADDRESS: _____

OK to publish Email address? Yes / No (Please Circle One)

Do you want to receive the emailed Newsletter? Yes / No (Please Circle One)

Note: If this is a family membership, (all members with the same address), please complete the following section for your family.

Name: _____ Call: _____ Class: _____

Name: _____ Call: _____ Class: _____

Name: _____ Call: _____ Class: _____

Name: _____ Call: _____ Class: _____

RETURN THIS FORM WITH YOUR DUES, (CASH OR CHECK), TO THE KARS TREASURER, OR, MAIL TO: KARS MEMBERSHIP, P.O. BOX 1765, Hayden, ID. 83835-1765.

(Office use only.)

Cash:		Check #:		Money Order:	
Membership Card:		Roster:		Newsletter:	

THE KARS PROPAGATION
is published once a month by the
Kootenai Amateur Radio Society

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www.k7id.org

**GIVE OUR WEBSITE A LOOK
CHECK IT OUT: WWW.K7ID.ORG**

KOOTENAI AMATEUR RADIO SOCIETY
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HAYDEN, IDAHO 83835-1765



TO: