



April 2018

([www.k7id.org](http://www.k7id.org))

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

## REGULAR CLUB MEETINGS:

**Monday, Apr 9, 7:00 p.m.**  
**Search & Rescue Bldg**  
**10865 N Ramsey Rd.**  
**Hayden, Idaho**  
**Topic: Antenna Roundtable**  
**Presenters: Ed, AI7H, Tom,**  
**W7UAT, and Mark, N7MA**  
**Refreshments: ???**

**VE Testing**  
**Monday, Apr 9, 5:30 p.m.**  
**10865 N Ramsey Rd.**  
**Hayden, Idaho**

**Monday, May 14, 7:00 p.m.**  
**Search & Rescue Bldg**  
**10865 N Ramsey Rd**  
**Hayden, Idaho**  
**Topic: Making QSL Cards**  
**Presenters: Larry, K6SPP**  
**Refreshments: ???**

**VE Testing**  
**Monday, May 14, 5:30 p.m.**  
**10865 N Ramsey Rd**  
**Hayden, Idaho**

### Upcoming Events

**Field Day June 23-24, 11 a.m.-**  
**11 a.m.**  
**Details to follow**

**Hamfest, July 14**  
**Details to follow**

### QRM FROM THE PRESIDENT

*Larry Telles, K6SPP*

Believe it or not, we are now entering the second quarter of 2018. The weather is getting better slowly, but better. Good weather is an excellent time to think about new or first time antennas. This goes especially for the new hams that have just received their license in the mail.

Jim Peterson, AD0AZ, our vice-president and I are trying to establish our monthly programs toward the new amateur regardless of his or her age. This month we have a panel of three of our members, Ed AI7H, Tom W7UAT, and Mark N7MA. The panel will lead a group discussion on: "Everything you wanted to know about antennas but didn't know who to ask!" They will take questions from those present who want to put up a certain antenna for a certain band, or which antenna is best? This is the best way to hear a lot of different opinions.

The good weather brings on a project that we participated in last year: that of STEM. What is it? STEM is a curriculum based on the idea of educating students in four specific disciplines - science, technology, engineering and mathematics - in an interdisciplinary and applied approach. Rather than teach the four disciplines as separate and discrete subjects, STEM integrates them into a cohesive learning paradigm based on real-world. Last year KARS put on a demonstration at NIC along with many other groups. The NIC organizers have invited us back again this year. The board is in the process of determining if we should do a demonstration again, or a particular presentation on Ham Radio.

Over the past week I received a very interesting request, one that doesn't come along every day. A North Idaho high school is launching an experimental satellite with a UHF/VHF transceiver. The submittal to the Federal Communications Commission was made as part of the protocol. The group needed a letter of support which I have submitted. It isn't every day that KARS gets a chance to help a local High School put a communications satellite in space. This is a project of the "North Idaho Stem Charter Academy", located in Rathdrum. The Charter Academy was apparently the only US school that qualified for a NASA grant, which turned out to be the "DaVinci Project" (DaVinci for short). DaVinci submitted their application for an experimental license about a year ago. FCC told them they had to get an endorsement from the International Amateur Radio Union (IARU). Our contact is Lorna Finman, who works at a small high-tech business in Post Falls, called LCF Enterprises. This satellite-based ham station they want to launch in 30 days. I hope to have more information of this one-of-a-kind project.

If there is any specific subject of category dealing with amateur radio that you would like us to present, please contact myself or Jim, AD0AZ. We would like to present programs that you want. I would like to get an unofficial head count at the next meeting on a special Saturday project the board has been thinking about. It

would be an upcoming Saturday where we would meet at a NIC campus and learn to solder in a hands-on environment. Free to members, but a small charge for non-members. Better yet if an amateur joins that day, the soldering class would be free. This about wraps this up for this month.

See you at our next meeting. Thanks for taking the time to read this. Jim and I also need your input.

73, Larry Telles, K6SPP  
p.s. 73 is singular, not plural.

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### Kootenai Amateur Radio Society (KARS) March 2018 Meeting Minutes

The March 12, 2018 KARS meeting was held at the Search & Rescue Building located at 10865 N Ramsey Rd. Hayden, Idaho.

The meeting was called to order at 7:06 pm by Club President Larry Telles (K6SPP). The Pledge of Allegiance was led by Rod Anderson (K7ZBE).

Attendance: Twenty seven members and six visitors were in attendance.

VE Testing: Six people tested and the results were as follows:

Passed Technician	2
Passed Technician and General	1
Passed Technician, General, and Extra	1
Attempted Technician	1
Attempted General	1

Minutes: Jim Petersen (AD0AZ) moved to approve the February 2018 minutes as printed in the newsletter; Dan Smith (N6HRT) seconded; the motion passed by member vote.

#### Treasurer's Report:

February 2018

Checking	\$3,066.42
Savings	\$2,427.06
Petty Cash	\$ 99.34
Drawing Change	\$ 20.00
TOTAL	\$5,612.82

Income: Savings interest (\$0.05), 50/50 Raffle (\$6.50), Memberships (\$238.00)

Expenses: Flowers – Mike Burton Funeral (\$81.20), Meeting refreshments (\$5.98)

Ed Stuckey (AI7H) moved to accept the Treasurer's report as read; Frank Ten Thy (KG7CUI) seconded; the

motion passed by member vote.

KARS Club Liability Insurance: Gary Roth (KE7IAT) moved that \$300 be used to pay for liability insurance for the KARS Club; Lindy Bryant (KE0AZD) seconded; the motion passed by member vote.

Idaho QSO Party: Ed Stuckey (AI7H) gave a report on the Idaho QSO Party that was held March 10-11. Sixty logs have been turned in. The Treasure Valley Radio Association will be sponsoring the Idaho QSO party next year.

Repeater Committee Report: Dave Boss (KF7YWR) reported that the Little Blacktail site is a go. Frequency coordination and equipment are still needed. More will be known at next month's meeting.

Bylaws Committee: The KARS bylaws committee members were announced and are as follows: Dave Boss (KF7YWR), Ed Stuckey (AI7H), Rod Anderson (K7ZBE), and Larry Telles (K6SPP). The committee plans to meet in April.

Kootenai County Fair: The Kootenai County Fair will be held August 22-26 this year. Many volunteers will be needed to staff the KARS booth. Costs associated with the fair booth are \$350.00 for registration and \$90.00 for extra tickets. With other incidentals, the total cost will be approximately \$500.00. Todd Silk (AD7VB) moved to appropriate the money to register the KARS Club for the fair; Dave Boss (KF7YWR) seconded; the motion passed by member vote.

KARS Trailer: Jim Petersen (AD0AZ) reported that he asked some RV Dealers if they had any equipment they would be willing to donate to the Club but found no takers. If anyone knows of someone with a trailer to donate, please contact the Club. The KARS Club is a 501c3 organization and donations are tax deductible.

#### Upcoming Events:

Hamfest: July 14<sup>th</sup>

Field Day: June 23-24. Starts at 11 AM on Saturday and end at 11 AM on Sunday. All hams are welcome to participate.

Girl Scout Jamboree: June 23<sup>rd</sup>

Gizmo: Rod Anderson (K7ZBE) and Larry Telles (K6SPP) will be visiting with the people who run the Gizmo organization to see if we can make a mutually beneficial arrangement with them to use classroom space Gizmo has acquired at North Idaho College's Hedlund Building. Our purpose in using the classroom space would

be for radio-related hands-on demonstrations (e.g. soldering).

Raffle Results: 50/50 \$6.00 Randy Porter, N7RLP (claimed)

Membership \$145.00 Bonnie Kesson, KE7FPA (not claimed)

Evening Presentation: A DVD presentation on a DXpedition to the South Orkney Islands was shown.

Jim Petersen (AD0AZ) moved to adjourn; Dan Smith (N6HRT) seconded. The motion passed by member vote and the meeting was adjourned at 9:01 pm.

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### Chinese Lunar-Orbit Amateur Radio Payload Could Launch this Spring

China's twin-launch Chang'e 4 mission to the far side of the moon will place a pair of microsatellites in lunar orbit this spring "to test low-frequency radio astronomy and space-based interferometry." The two satellites, unofficially called *DSLWP-A1* and *DSLWP-A2* (*DSLWP* = Discovering the Sky at Longest Wavelengths Pathfinder), could launch this spring. The pair represent the first phase of the Chang'e 4 mission, which involves placing a relay satellite in a halo orbit to facilitate communication with the Chang'e 4 lander and rover, which will be sent to the far side of the moon in December. Because the moon's far side never faces Earth, the satellite is needed to serve as an Earth-moon relay. The Chang'e 4 mission will be the first-ever attempt at a soft-landing on the far side of the moon.

The two spacecraft also will carry Amateur Radio and educational payloads, but not a transponder. Developed by students at the Harbin Institute of Technology, the Amateur Radio payload on *DSLWP-A1* will provide a telecommand uplink and a telemetry and digital image downlink. Radio amateurs will be able to transmit commands that allow them to send commands to take and download an image.

The satellites will piggyback on the Chang'e 4 relay package and will deploy themselves into a 200 × 9,000 kilometer lunar orbits. The 50 × 50 × 40 centimeter spacecrafts each weigh about 45 kilograms and are three-axis stabilized. Two linear polarization antennas are mounted along and normal to the flight direction. The satellites will use the moon to shield them from radio emissions from Earth.

The Harbin Institute of Technology team has proposed downlinks for A1 on 435.425 MHz and 436.425 MHz. Downlinks for A2 would be 435.400 MHz and 436.400

MHz using 10K0F1DCN or 10K0F1DEN (10-kHz wide FM single-channel data) 250 bps GMSK with concatenated codes or JT65B.

Equipped with low-frequency antennas and receivers, the astronomy objectives of *DSLWP-A1* and *-A2* will be to observe the sky at the lower end of the electromagnetic spectrum - 1 MHz to 30 MHz - with the aim of learning about energetic phenomena from celestial sources.

The launch is anticipated for May or June on a CZ-4C vehicle, putting the satellites' deployment about 6 months ahead of the launch of the Chang'e 4 lander and rover. (ARRL News)

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### FCC Seizes Equipment from Pirate Broadcasters in Boston

The FCC reports that it seized transmission equipment from two pirate radio stations in Boston on March 26. According to court documents, the seizures involved an illegal broadcaster that identified as "Big City" on various FM channels from Dorchester, Massachusetts (with a studio in Roxbury) and pirate "B87.7 FM," which operated on 87.7 FM from Dorchester. Both unlicensed stations had been issued multiple warnings but continued to operate. Pursuant to federal forfeiture statutes, authorities seized equipment operated by each radio station. The forfeiture actions came in the wake of complaints to the FCC - including one from a licensed broadcaster - about interference, the FCC said.

"When pirate radio stations refuse to cease operations, despite multiple warnings, action must be taken," US Attorney Andrew E. Lelling said. "It is a public safety hazard for illegal radio stations to broadcast, potentially interfering with critical radio communications. We will work in conjunction with the FCC's Enforcement Bureau to identify violators of federal communications law."

Over past year, the FCC has significantly ramped up its enforcement activity against unlicensed broadcasters, netting at least two Amateur Radio licensees alleged to be involved in pirate broadcasting.

Enforcement Bureau Chief Rosemary Harold said the FCC has been "pursuing multiple legal routes to stop pirate broadcasters," and that the seizure action in Boston is just one of them. The Communications Act of 1934 prohibits the operation of radio broadcasting equipment above certain low-intensity thresholds (under FCC Part 15) without an FCC license. The Act authorizes the seizure and forfeiture of any electronic or radio frequency equipment used to broadcast without an FCC license.

The US Marshals Service and Boston Police Department provided assistance with the seizure operations. - *FCC News Release*

## German Amateur's Call For Help Goes Global

NEIL/ANCHOR: This next story is about a disabled radio operator and his cries for help that were heard - quite literally - around the world. Here's Ed Durrant DD5LP.

ED'S REPORT: Erding Radio Club member Lothar Fröhlich, whose call signs are DK8LRF and HK3JCL, was on the air from his QTH in Colombia, South America recently talking to friends in New York and Germany, when he heard a voice call out repeatedly. At first he thought it was someone was trying to break into the QSO but then he realized it was a ham in distress. He recognized the voice - this was an amateur in Dingden on the German-Dutch border, a ham with whom he enjoys ragchews often.

The ham, who is disabled and relies on a wheelchair, had fallen and was home alone. His radio was on, fortunately with the transmitter in "VOX" mode so his cries activated the microphone Lothar called for any German hams who could copy him, asking them to please notify local police. Then, using EchoLink, he reached a repeater in Isen, east of Munich. A ham in Eichstätt in Bavaria responded and also called police who responded immediately.

Ham radio had made distance vanish. The ham in distress was 5 metres from the microphone but his call went through anyway — and those who assisted astounded the police by the fact that the call was started by a ham in Colombia on the other side of the world. For Amateur Radio Newline I'm Ed Durrant, DD5LP. (Amateur Radio Newline)

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## Hospital Ship Crew Members Get Amateur Radio Training at Sea

On February 21, US Army civilian contractor Tim Millea, AJ7UU, and MARS Volunteer Doug Smith, W7KF, embarked on the hospital ship USNS *Mercy* from San Diego to Hawaii to begin its deployment for "Pacific Partnership 2018" (PP18), a humanitarian assistance exercise that will include several Pacific stops. Their mission during the first leg of the voyage was to conduct Technician and General Amateur Radio classes for more than a dozen military and civilian personnel crewing the Military Sealift Command hospital ship, and to provide training in military HF communication procedures.

The pair provided two or three training classes a day for the crew, who took the classes following their work shifts. Classroom training was interspersed with on-air activities in the ship's Amateur Radio room. The *Mercy* is

utilizing the Weak Signal Propagation Reporting (WSPR) tool under K6MRC.

On March 3, the *Mercy* docked in Hawaii, where a group of local Volunteer Examiners (VEs), headed by ARRL Pacific Section Manager Joe Speroni, AH0A, administered Technician and General licensing exams to the students.

"The ARRL VE Team in Honolulu was fantastic to work with," Smith told ARRL. "Due to spotty internet connectivity while at sea and strict base access and security issues in port, the VEs in Hawaii had to exhibit extraordinary patience and persistence to administer the exams aboard *Mercy*." Smith singled out ARRL VEC Manager Maria Somma, AB1FM, for being "super helpful throughout this endeavor."

More than 18 sailors and civilians assigned to the USNS *Mercy* passed their Amateur Radio exams, administered on March 3 in Pearl Harbor. The successful candidates had their new call signs or upgraded tickets by March 5.

Among those upgrading was Captain David Bretz, WH6FIR, the PP18 Mission Commander. "I am very excited to host the trainers on *Mercy*," Bretz said. "We will be researching the effectiveness of using Amateur Radio aboard the *Mercy* for the duration of PP18. Amateur Radio operators have played a huge role throughout history assisting in humanitarian and disaster relief efforts. I am looking forward to gathering research on how this older technology can still be relevant in current humanitarian and disaster relief missions, such as PP18." The *Mercy* arrived in Guam this week.

PP18 has a Facebook page. - *Thanks to Doug Smith, W7KF, and Robert Mims, WA1O EZ, Region 1 US Army MARS Director*

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## Wind-Up Radio Inventor Trevor Baylis Dead at 80

Inventor and Honorary Radio Society of Great Britain (RSGB) Member, Trevor Baylis of London, died March 5 after a long illness. His wind-up radio made communication available to people across Africa who had no access to electricity. When Baylis learned of the spread of AIDS in Africa in 1991, he set about developing his spring-powered wind-up radio that did not require batteries or other power sources.

His first working prototype ran for 14 minutes. The following year, BayGen Power Industries was set up in Cape Town, South Africa, employing disabled workers to manufacture the freeplay wind-up radio. A newer model, which debuted in 1997, was designed especially for the

western consumer market and could run for up to an hour after only 20 seconds of winding. That radio included a solar panel.

Baylis was awarded Officer of the Most Excellent Order of the British Empire in 1997, and then Commander of the Most Excellent Order of the British Empire in 2015. (ARRL News)

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#### Wake Island Operation to Make Rare Grid Available

Starting in April, Philip Gairson, N7NVK, will begin working on Wake Island, which is in grid RK39 for those participating in the 2018 ARRL International Grid Chase (IGC). His schedule calls for 3 months on the island, and then 1 month off - a pattern that will repeat over the course of about a year. Wake is 12 hours ahead of UTC.

Gairson does not yet know what days or times he will be on the air, but he plans to post his availability on his QRZ.com profile page and notify ARRL to include it in its DX bulletin. Contacting him could prove challenging. He's taking along an Elecraft KX3 along with a G5RV or Buddipole for an antenna, running low power. He will operate split, and he asks for patience because he's not used to being the focus of a pileup. Internet connectivity on Wake will be limited, but he plans to use LoTW. -

*Thanks to The Daily DX*

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#### History-Related Events Will Operate from Rare Grid in Cape Cod National Seashore

It is mere coincidence that the *Titanic* disaster in 1912 - one of the worst maritime disasters in history - and the birth of Guglielmo Marconi in 1874 - the developer of the wireless gear onboard the ill-fated ship - both occurred in April. Marconi Wireless Company radio operators onboard the *Titanic* transmitted the distress signal after the gigantic vessel struck an iceberg in the North Atlantic on its maiden voyage. Co-located Amateur Radio special events in April will commemorate both events.

ARRL International Grid Chase 2018 (IGC) enthusiasts take note: The special event operations will take place from FN51, a rare grid square that includes just a sliver of land along the Atlantic side of Cape Cod's lower arm; most of FN51 is water. Both events will be held at the Nauset Coast Guard Station in Eastham, Massachusetts.

The *Titanic*/Marconi Memorial Radio Association of Cape Cod operation will use W1MGY, in recognition of the *Titanic*'s MGY call sign. Operation will begin on Thursday, April 12, at 9 AM ET and continue until Sunday, April 15, at 1:27 AM ET (0527 UTC) - the time when the *Virginian* heard *Titanic*'s last radio message

106 years ago. The *Titanic* disaster claimed some 1,500 lives. The W1MGY operation will be open to the public only on April 14, 10 AM until 3 PM ET. According to W1MGY trustee Barry Hutchinson, KB1TLR, plans call for coverage on all bands, mostly within the General-class subbands, on CW and SSB. Two stations are planned.

Marconi's wireless station in Wellfleet on Cape Cod played a role in the rescue of 740 survivors from the *Titanic*. Marconi's wireless operator onboard the rescue ship *Carpathia* contacted the *Titanic* that fateful night to inform the wireless operator that the Cape Cod station was transmitting messages to the ill-fated ship. The *Titanic*'s Marconi wireless operator promptly replied, "Come at once. We have struck a berg," initiating the rescue of survivors.

Today, the Wellfleet station site is listed as a National Landmark on the National Register of Historic Places (1975) and is now part of Cape Cod National Seashore.

The Saturday, April 21, International Marconi Day (IMD) operation by the Marconi Cape Cod Radio Club will use the call sign KM1CC, which recognizes the former WCC shore station on Cape Cod. Operation will be on CW, SSB, and digital modes.

KM1CC will be among many stations participating in IMD activities on April 21. The 24-hour event is typically held on the Saturday closest to Marconi's birth date. During IMD, Amateur Radio enthusiasts around the world will attempt to make contact with various historic Marconi sites using communication techniques similar to those that Marconi used. Registered stations must operate from a site with some connection to Marconi.

Stations may register for International Marconi Day 2018 via e-mail. The list of stations already signed up for the 2018 IMD, along with their operating sites, is posted on the Cornish Radio Amateur Club website. (ARRL News)

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#### Radio Amateurs Pitch In to Help as "Hat Trick" of Major Coastal Storms Hit Northeast

Amateur Radio volunteers with WX1BOX at the National Weather Service in Taunton, Massachusetts, and various ARES groups had their hands full during March, as Mother Nature's hat trick of nor'easters brought severe weather conditions and a lot of snow to the northeastern US. The storms caused the Cape Cod ARES team to extend activations for SKYWARN, WX1BOX, and regional shelter operations.

"This has been a very active period of significant severe weather for the region after a relatively quiet stretch from late January through the end of February," observed Rob

Macedo, KD1CY, the Eastern Massachusetts Assistant Section Emergency Coordinator for SKYWARN.

The first in the trio of nor'easters - on March 2 and 3 - brought mostly heavy rain and wet snow to parts of Massachusetts, Connecticut, eastern New York, and northern New England. Strong to damaging winds swept central and southern New England, with hurricane-force gusts across southeastern New England and Cape Cod and the Islands. The storm caused severe coastal flooding across multiple high-tide cycles.

WX1BOX volunteers were active for 17 hours straight, and afterward, some continued to monitor high tides and strong winds, which persisted into the weekend. The volunteers handled more than 1,000 reports of wind damage, wind gusts measured 40 MPH or higher, localized road flooding from heavy rainfall, and coastal flooding. At the height of the storm, nearly a half million customers in Massachusetts alone lost electrical power. Macedo said Amateur Radio nets were active on repeaters, and on the New England reflector on EchoLink® conference node 9123/\*NEW-ENG3\*/IRLP 9123 system.

“Some of the highest astronomical tides of the year coupled with wind gusts of more than 70 MPH - and as high as 93 MPH at the Barnstable County, Massachusetts, emergency operations center (EOC) - to trigger some of the worst coastal flooding in decades,” Macedo recounted.

Eastern Massachusetts ARES was on stand-by, and Cape Cod ARES was active for several days with a regional sheltering operation until power was largely restored to Cape Cod. “Marc Stern, WA1R, guarded the HF net on 75 meters during the nor'easter,” Eastern Massachusetts Section Emergency Coordinator Marek Kozubal, KB1NCG, reported. WC1MAB at the Massachusetts Emergency Management Agency Region 2 Headquarters was also active through the efforts of Mike “Sparky” Leger, N1YLQ.

Only a few days later, a second nor'easter brought heavier snowfall to southern New England, although winds and coastal flooding were not as severe as in the first storm. In the interior of southern New England, temperatures hovering around freezing meant heavy wet snow, sparking another round of downed trees and power lines and nearly a half-million customers without power in Massachusetts and Connecticut. Eastern Massachusetts ARES was on standby during the storm and for several days afterward until most power was restored. (ARRL News)

Theoretical Physics Meets Real Radio - Maybe?

PAUL/ANCHOR: Finally - we ask - Wouldn't we all like to work only one day a year? Well, Newsline's April 1st roving correspondent Pierre Pullinmyleg has that dream job - with us! Here he is again this year. Pierre?

PIERRE's REPORT: Among zee many unpublished papers left behind by the late Stephen Hawking was a groundbreaking document describing his little-known discoveries in radio. Ziss theoretical physicist believed in Parallel Universes but not many realize he had also discovered Parallel Radio Frequencies. Now sources have said to me, “Pierre Pullinmyleg - because zat is my name! - Stephen Hawking believed that at the time ziss universe of ours was born, multiple universes actually came into being and with them - and ziss explosion, she created all kinds of amateur radio bands. But zey are, you see, all parallel. So now to operate QRP in ziss parallel world, you simply operate barefoot at 1 kilowatt. Ah, but zee real superpowers of the ham world, their signal steps on everyone else when zey turn on their linear de-amplifiers and key their mic with their ear-splitting super power of 1 mW. And to use CW? In zee code created by the famous Manuel Zorse, you send zee dots as dashes and zee dashes as zee dots. Zere is no need to have a good fist for sending zee code, you simply sit on your straight key and send your message with your - excuse my French - DERRIERE. Antennas? Mais non, chéri!! So unneeded, so passe. Just sink a grounding rod, hook up and tune up, no SWR to worry about! So you see? Thanks to theoretical physics, parallel bands will create a Big Bang of sorts for all of us. You go first.

For Amateur Radio Newsline, this is Pierre Pullinmyleg in zee world of Parallel Frequencies saying “37” for now.

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

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



**Community Mtg Rm**  
**Silver Lake Mall**  
**Coeur d'Alene**

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

Bring a writing instrument **Community Mtg Rm**  
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 (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.

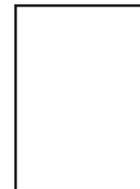
Name: \_\_\_\_\_ Call: \_\_\_\_\_ Class: \_\_\_\_\_

*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:	

**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.

## **2017 CLUB OFFICERS**

President: Larry Telles, K6SPP  
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## **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 \$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 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.