

January 2008

(www.k7id.com)

P.O. Box 5222 Coeur d'Alene, ID 83816

REGULAR CLUB MEETINGS:

Monday, January 14

Sheprock Building

7:00 to 9:00 P.M.

Speaker: Chuck Green

Program: OSCAR Satellites

Refreshments: Renee Stuckey

Monday, February 11

Sheprock Building

7:00 to 9:00 P.M.

Speakers: Ron Hardin, K7BRH/

Darin Lehnort, KC7TIG

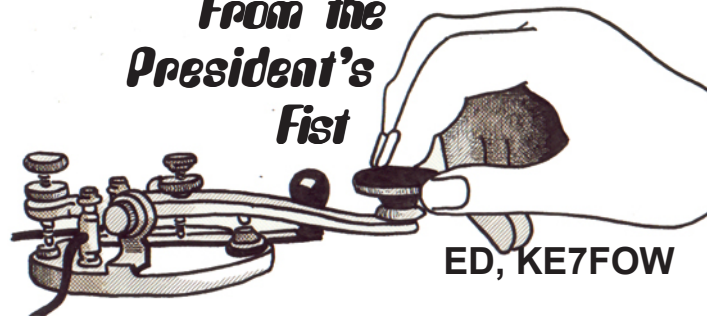
Program: IRLP Demonstration

Refreshments: Marilyn
Hannigan

IN THIS ISSUE

A Note from Bailey.....	Page 2
VE Program Report.....	Page 2
Our Guest Speaker.....	Page 3
KARS Repeater.....	Page 3
KARS Incorporation.....	Page 4
Digital Mode Sounds.....	Page 4
ARRL News.....	Page 5
Rescue Radio.....	Page 6
KARS Application.....	Page 7

From the President's Fist



Dear Club Members and Friends

The Christmas potluck on Dec. 10th was well attended by approx. 67 members and friends, but the icy roads probably kept a few of you home. The food was great and plentiful and I personally overate. Jim Linden (N7JIL) and his partner's (Phil, KE7IAU) generous gift of their window cleaning labor to cover the American Legion Hall rental fee was greatly appreciated. The new officers have decided to give them both a two-year membership to KARS to thank them for this act.

The New-Year will be here soon and the new group of officers will do their best to live up to the high standards set by the retiring officers. This year will also offer volunteer opportunities for all members allowing each one to become more involved, establish new friendships and share their unique interests in amateur radio.

Consider sharing your special interests at a future monthly meeting, there may be others with these interests or those who would like to develop these skills. The outgoing VP (John, N7JU) left us with a full calendar of speakers for the year, but things happen, and I would like backups who can fill in at the last moment. Let Jeff (KB7TIC) know if you would be willing to add your name to a backup list. If we get a large list of speakers / presenters we could have two meetings a month – just kidding.

The retiring and new officers have been busy during the month of Dec. and will share the clubs financial position, status of Incorporation and potential new meeting locations at the Jan meeting. Chuck Green (N0ADI) will share his involvement with satellites during his career at the next meeting so please plan on attending.

Consider sending Bailey Barrett (AD7IP) an encouraging email as his wife (Vreni) recovers from her first cancer surgery and prepares for a second one. They are in Bern, Switzerland, her hometown, and Bailey will answer your emails

(continued on page 2)

Merry Christmas to all and don't forget the reason for the season.

The other Ed, KE7FOW

From Bailey, AD7IP
December 25, 2007

Dear Friends

As I was getting ready to go by bus and train to Inselspital on Christmas Eve day (Dec 24), to spend the day with Vreni, I learned that Vreni would be coming "home" to Annegret's apartment in Belp that afternoon. When I arrived at Inselspital, I found Vreni starting to get ready to come home.

To say I was surprised would be very, very true. But then a second miracle happened.

The doctor who is the surgeon for the "second" surgery visited Vreni (and me) and said that after carefully examining the CT and PET scan disk (we brought from KMC in Idaho), his opinion was that the surgery could be done laparoscopically. This means they wouldn't have to open the sternum as in open heart surgery. And this has a huge impact on whether to even go ahead with the second surgery. The invasive impact to Vreni would be significantly reduced, and there is now a good chance of her full recovery from surgery.

So there you have it. May the good Lord be praised. And may God Bless you on this Christmas Day. Thank you all and Merry Christmas

Bailey

VE PROGRAM 2007 Report

First of all my thanks to a dependable and efficient crew of talented and competent Volunteer Examiners operating under the ARRL VEC program here in North Idaho. With VE Sessions conducted every month, for the past year, slightly over 100 licensing exams were administered with nearly a 96% pass rate. We also certified the automatic upgrade of 8 Technician Class licensees who had obtained their original license under the old rules prior to March 21, 1987. Before that date the exam for Technician Class was actually the General Class exam with no code. When the code requirement was dropped in February of 2007 many of these folks were able to upgrade to General Class by merely verifying their earlier licensing history before our VE team. ARRL members were waived for the processing fees. It was amazing, many didn't have their first license

document anywhere and the FCC doesn't maintain those records in Gettysburg. The only other place to prove licensing prior to that date was the old 1987 original *Call Book*. The *Call Book* web site supposedly has an active service to amateurs to verify this information. However after several attempts to use their "service" with not so much as a response, I abandoned the effort. So...in my fashion, let me recommend that when you need to verify a call letter use the ARRL or QRZ! I believe the *Call Book's* days may be about over...but it didn't need to be that way ...with a very desirable well intentioned effort gone amuck.

VE's serving our North Idaho VE Program via KARS, are: Larry Telles, K6SPP; Jerry Hooper, KA7RNX; Robert Kesson, K7CGA; Mike Dunn, N7SZY; Mitch Killebrew, KB7BYR; Roy O. Davis, KI7EP; Steven McQuiston, WO6LF; Philip Corlis, KI7ZY; Robert Halloch, K7TM and Frank Breidt, KB7RNV; and our newest VE appointment is Vic Bak, K3SHD. Our 2008 goal is also is to establish 2 regional teams one in Kellogg, under KA7RNX; and one to work with our partners, KE7ADU in Bonner and Boundary Counties as soon as we can round up a few more Extra Class licensees to serve. It was a good year for upgrades and new licensees welcoming them to our midst. We couldn't have done it without the dedication of the fellows listed above. Classes for Technician, General, and Extra Class may be a good project for 2008 if we can arrange for instructors and facilities. Please e-mail with your thoughts on the subject and maybe we can get something going. - N7JU VE & Team Leader, N7JU@arrl.net

The next **VE Session will be January 14th 2008 at 5:30 PM** prior to the regular KARS meeting at 7:00PM at the Airport CAP Building. **Call N7JU, John at 208-765-5470 or e-mail N7JU@arrl.net for reservations.**

SPOKANE, WA - Register to test in Spokane this month by calling **Mary, AA7RT** at 509-991-2192 or e-mail aa7rt@arrl.net for dates, locations and times.

QST to TV Viewers

The "Digital Changeover" for all TV stations in the United States will happen on February 17, 2009. In order to continue watching TV, you must have an "HDTV" receiver, keep your current TV and buy a "converter box". A rebate of \$40 will be available from the National Telecommunications and Information Administration (NTIA). Point your internet browser to <http://www.dtvanswers.com/> for details.

146.98 - Repeater Report

by

John Hollar, N7JU

. . . And Now, A Word About Our Guest Speaker, or Twinkle, Twinkle, Little Star

by

Jeff Wall, KB7TIC, 2008 VP/Programs

ECHO was the pre-launch name for the satellite now known as **AO-51**. This is the most recent satellite built by AMSAT. Chuck Green, N0ADI, will take you through the final preparation of this satellite and its transport to the launch site in central Kazakhstan.

Chuck moved to our area in 2006. He and his XYL, Cathy, N7JPE, promptly joined KARS and have been supporting our Club ever since. Chuck is a boomer, born in "42," and secured an EE degree at Cal. Poly. State, going on to study at Surry Satellite Technology in England. With military service out of the way (Army), it was on to IBM until he retired. Chuck started working with AMSAT on a small scale in the 80's participating in the design and construction of some of the prototypes for MicroSat and early Phase 3 satellites. His first really big project was designing the circuit boards for AO-27 while working on the launch campaign with French Guiana.

Many trips were made to Orlando, Florida and later Germany for the GPS experiment completed for P3D. Chuck also wound up being the Launch Director in 2000. But in 1997 he started serving as advisor to Arizona State University on their student satellite project. Since then, he has taught several groups of ASU students how to hand-solder surface mount components on PCBs at the quality level dictated by the satellite service.

Chuck has constructed computers, modems, mass-memory modules and other stuff for many satellite projects beyond that which was attributed to AMSAT. Some of his work was Top Secret and if he were to tell us about it he'd probably have to "kill us". But since returning from Kourou last October, he has not been on an airplane except for maybe that weekend in Denver where he held a meeting of about 20 AMSAT volunteers gathered to design the **next** AMSAT satellite (Eagle) and oh yes that quick trip to the University of New South Wales in VK-land, where he reviewed the design of their satellite project.

KARS is privileged to have Chuck join our group and relate the fascinating story behind the Amateur Radio Satellite Program first hand. A KARS Program doesn't get any better than this folks so come on out, and support the technology, rejoin the CLUB (Dues are due in January) and pave the way to perhaps starting a KARS AMSAT users group. I wonder if we can find some one to help us? Maybe Chuck would even autograph your copy of the January Propagation for posterity.

Starting early in 2008, Jerry Hooper, KA7RNX and K7ID Official FCC Trustee, will be installing the previously appointed volunteers as **Control Operators** whose official functions will be to assist KARS members and visitors in the use of the K7ID facilities for whatever occasion, including hamfests, scheduled events, field day, declared emergencies, and our club's ARES operations also with technical and operational matters related thereto. "Let me be quite clear at the onset" stated Jerry, "that the operations of FCC required control operations is crucial to proper operation of our facilities. Many repeater systems around the nation have been cited for lack of coordination and supervision. We intend to do everything we can to insure we are in compliance with these regulations."

Control Operators will not exercise censorship or OO (*Pink-slip*) functions. Rather, they will serve as advisors and trainers to assist newcomers to the facilities. However the primary responsibility will be to provide proper operation of the facilities insuring identification of transmissions and *positive control* in the unlikely event of a malfunction or perhaps someone attempting to cause some mischief with a stolen hand-held. Other band conditions anomalies may also have to be remedied with control commands as they arise such as skip conditions and the like. A crucial function of this group going forward will be to take over the functions of the *Excellence Committee* as a standing **Technical Committee** to explore enhancements contemplated for the future such as repeater linking, a cross-band voting receiver for low power coverage, autopatch capability, increased power output (to 60 Watts) from the main repeater (a project in process) and the development of a new UHF repeater pair perhaps interconnected with either Echolink or IRLP. Many really interesting projects require a wide range of expertise and volunteers. If you are interested in serving on the **KARS Technical Committee** please indicate your willingness to serve with Jim Monroe, N7ESU@arrl.net.

Control Operators assigned are: Jim Monroe, N7ESU; Jeff Wall Sr., KARS 2008 VP, KB7TIC; John Hollar, N7JU, Brad Kasper, KA5PER; Gabby Perry, KE7ADN; Lee Hopkins, AA7AF; Gary Roth, KARS 2008 Executive Director, KE7IAT; with Jerry Hooper, KA7RNX as the Trustee.

High Side Low Side Injection...So what!

I may have done another dumb thing. - (N7JU)
This time, after spending several weeks trying to find some answers (*You Want Answers... I want the Truth.... You can't Handle the Truth!*) on various *repeater builders*

(Continue on page 4)

sites and *threads* I joined a **Yahoo User Group** on repeater subjects and posted my question:

I've got several UHF/VHF MVP and GE Master II and Executive receiver strips that all look pretty much the same, except for a slight position change for the crystal oscillator board and the pugs. My plan is to replace a UHF receiver with a VHF receiver in a UHF MVP making a V to U cross band (voting "type" receiver) to work into our MCC RC-1000 logic board. When I attempted to retune a functioning commercial receiver to the two meter band the front-end was not able to tune to the input frequency. It appears these receivers come in two flavors. Lo band: VHF 137-150.8 MHz. and high band: VHF 150.8 to 174 MHz. units Naturally all my receivers are in the range of 150.8 to 175 MHz. which would explain why they don't tune down into the two meter band. A quick call to our repeater vendor indicated "it doesn't matter, they all will tune down to two meters" I was stumped.

It was on the **user group** in less than a day that Jim, W5ZIT, a long time repeater builder, came to the rescue with a crystal ordering trick of *high side injection* of the oscillator frequency to the commercial receivers. Normally since the IF (intermediate frequency) is **subtracted** from the operating (receive) frequency of 146.38 MHz. and then divided by 9, the crystal frequency would work out to be 15.02MHz. However, if the crystal injection frequency were simply moved to the **high side**, (Operating frequency 146.38 MHz. **plus** 11.2 MHz)/9 the crystal frequency would now be 17.088 MHz. fooling the receiver into believing (and yes, they are alive and sentient) it can receive a signal in the two meter band. Apparently this is how repeater builders have been doing things for all the years these receivers have been in the amateur service. A simple solution to a baffling problem. Oh, that dumb thing I did? I posted my e-mail address rather than to use a Yahoo assigned e-mail address and now my personal e-mail box is stuffed with 100's of "P-extension" emails. Opps.. I won't do that again. Fortunately Mozilla's *Seamonkey*, my e-mail client, has a "Junk" control switch that has whisked 95% of those pesky e-mails to the trash bin, reporting to the sender (probably in China) that it is an invalid address...now it's only a matter of time to see if they will all go away. Gees!!!! N7JU

For Sale: WiFi Hot Spot

Proxim Orinico AP-4000 Complete System: Supports 802.11 a/b/g. Includes wired router; transceiver; coax; lightning arrestor; outdoor antenna. All you need is broadband internet access and a 1 1/2 inch mast to mount the antenna. Asking \$500 for all. Contact Ed, AI7H ai7h@arrl.net

COFFEE & DONUTS EVERY WEDNESDAY MORNING



8:00 A.M.
TIL
10:00 A.M.

**RATHDRUM
SUPER ONE**

**All problems solved at the table on a
maximum of two napkins.**

KARS is Incorporated!

The Idaho Secretary of State has accepted the KARS application for incorporation as a non-profit organization, effective 12/13/07. Incorporation is important because it shields ("indemnifies") the officers and members of the organization in case a lawsuit against the Club should ever occur.

Submitted by Ed Stuckey, AI7H

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

You can pay your 2008 dues at our next meeting!!!

MP3's of Amateur Radio Data Modes

The **British Amateur Radio Teledata Group (BARTG)** has made available MP3s of the sounds of various Digital Modes.

With the proliferation of different Amateur Radio digital modes in recent years, it can be difficult for the newcomer to identify what they are listening to and the short sound clips provided by BARTG can be of great help.

Currently there are 25 MP3's on the BARTG website and they include ALE, DominoEX, Olivia and MT63.

The sound clips can be downloaded from:

<http://www.bartg.org.uk/Sound%20Files/soundlibrary.htm>

British Amateur Radio Teledata Group (BARTG)

<http://www.bartg.org.uk/>



LEAGUE BULLETINS FROM NEWINGTON

JANUARY 2008

Pacific Northwest Storms — ARES activated in Oregon and Washington for severe early winter storms, resulting in Oregon Governor Ted Kulongoski stating “I’m going to tell you who the heroes were from the very beginning of this — the ham radio operators. These people just came in and actually provided a tremendous communication link to us.” The Oregon Office of Emergency Management said radio operators were tireless in their efforts to keep systems connected. When even state police had difficulty reaching some of their own troops, ham radio worked, setting up networks so emergency officials could communicate and relay lists of supplies needed in stricken areas.

In Oregon, 60 ARES volunteers worked the storm, activating the District One Emergency Radio Network, which serves the northwest corner of the state. They worked with Red Cross as well as with major hospitals, Heartnet radio network and district-wide emergency managers, including the Oregon Office of Emergency Management in Salem. DEC David Kidd, KA7OZO, said, “The Red Cross set up two shelters in Tillamook County and four in Columbia County. The ham station was operational at the Vernonia Fire Department and had contact with Clatsop and Columbia Counties, relaying traffic as needed and supporting the Red Cross re-supply operation.”

Sally Jones, Administrator for the Columbia 9-1-1 Communications District, reported emergency phone calls were taken by Columbia 9-1-1 staff who relayed the information via Columbia and Clatsop County ARES to police, fire, and emergency medical dispatchers in Clatsop County. Clatsop County’s 9-1-1 service had gone down in the storm.

Western Washington Section Manager Jim Pace, K7CEX, said that in Pacific County ARES members staffed the

County Emergency Operations Center at South Bend “almost 24/7. Ham radio was the only reliable means of communications in the county since the landline and cell phones had been out of service.”

The Thurston County Department of Emergency Management activated ARES to support flood evacuation operations in the southwest portion of the county. The team staffed the County Emergency Operations Center’s radio room in Olympia and manned sites at the Rochester Fire Station, various evacuation centers as well as landing zones for the helicopter rescue teams. “They used Amateur Radio to coordinate resources and limited tactical traffic between sites,” Pace said. “Hams were also primary operators on several county radio systems.”

If you haven’t joined the ARRL yet, now is the time. We would like to be an ARRL Affiliated club again. There are a lot of benefits for you and the club.

From www.QRZ.com

New release of FDMDV - Amateur Radio Digital Voice

A new version (10a-Dec-07) of the Digital Voice mode FDMDV is now available from the N1SU.com website. This mode is remarkable in that it occupies a bandwidth of only 1.1 kHz as against the 2.4 kHz needed for an SSB signal.

The new version adds two main features - the ability to re-center the tx/rx frequency (QRG button) and enhanced AFC (also the FDMDV icon for the executable).

FDMDV page
<http://n1su.com/fdmdv/>

FDMDV Download also has Usage Documentation v1.1
<http://n1su.com/fdmdv/download.html>

melp_1400.dll
http://www.ku7pdx.com/files/melp_dll.zip

Refreshment Sign-Ups for the rest of the year:

01/14/08 - Renee Stuckey
02/11/08 - Marilyn Hannigan
03/10/08 - ???
04/14/08 - ???

RESCUE RADIO: AMERICAN RED CROSS PRAISES HAM RADIO

Some words of praise for ham radio in general and radio amateur in particular. This coming from the American Red Cross in the wake of the devastating storms that raked the Pacific Northwest two weeks ago. Amateur Radio Newline's Don Carlson, KQ6FM, reports:

The American Red Cross says that hard hitting disasters like the recent Northwest storms can knock communications for a loop. It says that in Oregon, thousands of homes and businesses were left without utilities, telephones or any lines of communication to outside help. But says the Red Cross, local residents in storm ravaged areas could depend on a handful of specially trained volunteers dedicated to an old-fashioned method of information sharing: Ham radio.

On the evening of Sunday, December 2nd, weather reports prompted Red Cross volunteer Scott Oerding, KE7PPM, to pack up his portable ham radio and overnight gear, and head to Tillamook to wait out the storm. A Portland resident of nearly 30 years and a seasoned volunteer with the Oregon Trail Chapter of the American Red Cross, Oerding met up with his crew of eight other volunteer ham radio operators. They then determined where along the storm path they should locate operations in hopes of keeping the emergency dialog going.

According to the Red Cross release, Oerding would end up relaying dozens of emergency calls to the Emergency Operations Center for Tillamook County. But it while taking a quick break that he became a ham radio hero.

KE7PPM was in the shelter's parking lot. A mud-spattered pick-up tore into the driveway. A woman in the vehicle told him about her injured neighbor. By Scott's account, the woman grew nervous and frustrated as she struggled to articulate just what had happened and who needed the medical help.

He managed to figure out that an elderly man the husband of the woman's close acquaintance had suffered a bad fall and required immediate medical attention. His condition was deteriorating rapidly. Scott reached for his hand-held radio, speak and relayed the call for help. Another unidentified ham operator answered the distress call. He told Oerding that he had a functioning telephone and could take the emergency traffic. Less than fifteen minutes passed before the ambulance raced past the shelter en route to the home of the injured man. Once on the scene, the EMTs trudged through mud and debris in the flooded home to stabilize the elderly gentleman before transporting him to a nearby medical facility. A bit later Oerding received word by radio that the man had shattered his hip and did indeed require the immediate medical attention he was able to summon.

The American Red Cross says that it anticipated that telephone lines, cell towers and Internet connections in rural communities could be severely impaired. So in collaboration with CERT and other partners the relief agency says that it pre-positioned ham radio operators in key locations. It then relied on them to deal with the multitude of storm related crises communications because Amateur radio equipment can be used in disaster areas even when power is out and phone lines and other communications systems are down. This is because these ham radio operators have the ability to run on their own battery or generator power.

For the Amateur Radio Newline, I'm Don Carlson, KQ6FM, in Reno.

Ham radio and the American Red Cross are on opposite sides of the fence when it comes to the need for background checks on Amateur Radio communications volunteers. That said, the two groups continue to work hand in hand when disaster strikes. (ARC Release)

ON THE AIR: SPAR WINTER FIELD DAY 2008

SPAR - the Society for the Preservation of Amateur Radio has set the January 26, 2008 at 1700 UTC as the start up for its Winter Field Day. The contest runs 24 hours. Points are given for each valid QSO, a multiplier based on the number of bands and modes worked, and bonus points for remote operation and emergency power. The contest exchange and scoring remain the same as last year. More is on-line at www.spar-hams.org (SPAR)

'Stealth' antenna made of gas is impervious to jamming

A new antenna made of **plasma** (a gas heated to the point that the electrons are ripped free of atoms and molecules) works just like conventional metal antennas, except that it vanishes when you turn it off.

You can read more on this at the Scientific Blogging website

http://www.scientificblogging.com/news_ac...jamming

Attention: Kootenai County ARES/RACES

Members! Don't forget! New meeting location for monthly KC ARES/RACES meetings, County Admin Bldg-451 Government Way, Room 1A, Coeur d'Alene. The start time remains 6:30 p.m.

Kootenai Amateur Radio Society (KARS) YEAR 2008 MEMBERSHIP APPLICATION

{ } New Member: \$12.00 { } Renewal: \$12.00 { } Family Membership: \$18.00

{ } Information Update Only

New! Two year membership Rates:

{ } New Member: \$22.00 { } Renewal: \$22.00 { } Family Membership: \$33.00

ARE YOU AN ARRL MEMBER? YES NO (Please Circle One)

CALLSIGN: _____ CLASS: _____ EXPIRATION: _____

FIRST NAME: _____ M.I. _____ LAST NAME: _____

ADDRESS1: _____

ADDRESS2: _____

CITY: _____ STATE: _____ ZIP: _____ - _____

PHONE NUMBER: (____) _____ OK TO PUBLISH? YES/NO (CIRCLE ONE)

EMAIL ADDRESS: _____ @ _____

OK TO PUBLISH EMAIL ADDRESS? YES NO (CIRCLE ONE, PLEASE)

**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: _____

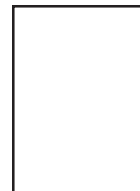
NAME: _____ CALL: _____ CLASS: _____

*RETURN THIS FORM WITH YOUR DUES, (CASH OR CHECK), TO THE KARS TREASURER OR, MAIL TO:
KARS TREASURER, P.O. BOX 5222, Coeur D'Alene, ID. 83816.*

(Office use only.) CK: __ CSH: __ Mbr Spreadsheet: __

PASS THIS ON TO A FRIEND!!!

KOOTENAI AMATEUR RADIO SOCIETY
P.O. Box 5222
Coeur d'Alene, ID 83816



DIRECTIONS TO KARS MEETING:

Take U.S. Highway 95 to Miles Avenue (Miles is about 1 mile North of Hayden Avenue). Go West on Miles to airport gate. Gate requires access code (call Ed, KARS President at area code 208 772-5767). Once past gate, bear left to the Shep Rock Building.

2008 CLUB OFFICERS

President: Ed Hannigan, KE7FOW
208 772-5767 naginnah@icehouse.net

Vice-President: Jeff Wall, KB7TIC
208 640-7455 KB7TIC@gmail.com

Executive Director: Gary Roth, KE7IAT
509 993-8468 KE7IAT@comcast.net

Secretary: Thomas Barrett, KD7JUS
208 818-2039 KD7JUS@arrl.net

Treasurer: Tom Richmond, NI7W
208 772-0907 NI7W@arrl.net

Newsletter Editor: Position Open

Repeater Tech: Jim Monroe, N7ESU
208 687-2251 n7esu@arrl.net

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

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.