



July 2021

(www.k7id.org)

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

REGULAR CLUB MEETINGS:

July 12, 2021
7:00 – 8:30PM
Program: Preparation for
Field Day
Presenter: Many
Refreshments: Ed Stuckey
(AI7H)

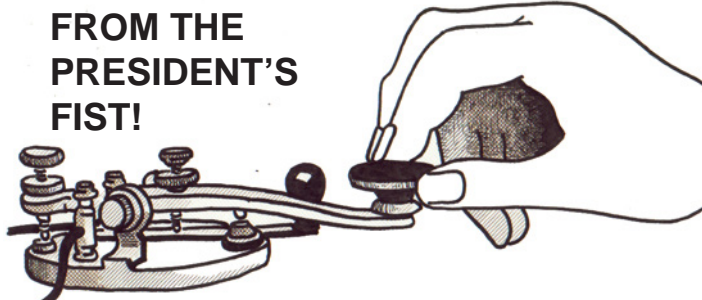
August 9, 2021
7:00 – 8:30PM
Program: Building Tour at
New Location
Presenter: Many
Refreshments: Larry Telles
(K6SPP)

September 13, 2021
7:00 – 8:30PM
Program: TBA
Presenter: Many

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

Refreshments: You are on
your own for Zoom atten
dance!

FROM THE PRESIDENT'S FIST!



Dear Club Members and Friends,

PLEASE – PLEASE – PLEASE

**Read the “KARS is Moving” article
located on page 2 in this newsletter!**

Looking into the past, we had an unfortunate happening at the June Club meeting. Although best intentions and technical apparatus were in place, we failed to get our ZOOM system working. Apologies to Club members who were inconvenienced by this situation.

By the time you read this note, we will have finished the first big Club Activity of the year, Amateur Radio Field Day. We hope the K7ID station was successful and will give a report at the July Club meeting. A big Thank You to Club Past President Frank Krug (KD7FK) and YL Kris for loaning their field and for their hospitality during the exercise. Also, thanks to all who volunteered to serve on the “K7ID Staff”.

The next Club Activity is the KARS Hamfest (aka “Field-Fest”), scheduled for Saturday, August 7, 9AM-2PM. Lot of planning and organization details are still on the plate, but in North Idaho lingo, “we’ll Get ‘er Done!”. If you do have some pre-loved Amateur Radio apparatus that you no longer use and might like to donate to the Club – We’re ALL EARS! Any donations (radios, antennas, “parts”) will be gratefully accepted and restored (if necessary) to have that “like new” look, for resale at the Field Fest from the Club table. All

proceeds flow to the Club Treasury.

We have noticed one small detail: the “Field Day” and “Field Fest” names can easily get confused and we may need to work on creative ideas to better differentiate the names and what happens during those events in the future.

As you will note from the June Club meeting minutes (located in this newsletter), the Club has chosen to take on a THIRD Club Activity. We will have a booth or tent at the Center Target Sports “Customer Appreciation Days” event on August 14, 9AM – 2PM. The Club has supported this event in past years, it provides an opportunity to “display” Amateur Radio to a receptive audience and does not require a lot of resources. Ten people indicated that they want to help, so we can have fairly short work-shifts. As an aside, our tent location is near the restrooms! Thanks, and a tip of the hat to Club member Steve Murphy (KG7UWB) for liaison with Center Target Sports.

We had hoped to have an electrical and gas safety demonstration by Avista for a Club meeting presentation during the warm summer months, but alas, they are busy doing other stuff and only run the presentations for large crowds. BUT we learned about still another event that will take place at Cabela’s on 09/11 and 09/12. It’s called “Dozer Days” and is a safety-oriented activity (especially for kids). They have arranged for various grading contractors to bring in heavy equipment and a large

pile of sand. Then younger kids (under supervision of operators) are allowed to climb on and possibly wiggle the controls on dozers, backhoes and the like. And Avista will have their line truck with safety demonstration there, as well. More information is available at www.ewni.dozerday.org

We have mentioned the “new” RF Exposure Safety guidelines a few times in newsletters and during Club meetings. The guidelines are not really new, they are “revised”. If you were concerned about this and already had your Amateur Radio license as of 05/01/21, good news! You don’t have to do anything until 05/01/23. Newer hams are expected to review the guidelines and make sure their station is safe, effective immediately. We plan to have a presentation on this at a future Club meeting.

And a last thought: Although there is no sign of precipitation over the next couple weeks, we should all be aware of possible thunderstorms and lightning safety. If you have a home rig and outside antenna, have a plan to disconnect your radio if a storm is approaching. Local TV channels are pretty good at alerting viewers about incoming weather, and another very cool source of info is this website: www.lightningmaps.org. Try it!

Club Members are welcome to contact me with questions or comments at any time. Email: president@k7id.org

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

KARS IS MOVING

Fellow Club Members,

On June 24 KARS received an email from the Kootenai County Sheriff’s Office (KCSO) that we will no longer be allowed to meet (effective immediately) in the “Search and Rescue” building, which is under KCSO jurisdiction.

Fortunately, we have had some previous discussion with Kootenai Office of Emergency Management (Kootenai OEM) about the possibility of moving our meetings to their location at some future time. Possibility changed to “Necessity”, and preliminary discussion is now “Negotiation”, but it appears that Kootenai OEM is receptive to KARS and the VE Testing group moving to their location for the July Club meeting and hopefully on a permanent basis.

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The Kootenai OEM building (known by some as the “Army Reserve Building”) is located at 1662 West Wyoming Ave., Hayden ID, 83835. The new location is ½ block North and ½ block West of the Search and Rescue building. If you are coming from CDA or Hayden, take US 95 to Wyoming Avenue (Ziggy’s is at that intersection). At the Wyoming traffic signal, proceed west (toward the CDA airport) about ½ mile. The OEM building is the last one on the left side of Wyoming before coming to the airport gate.

If you previously came to the SAR building via Ramsey Avenue, proceed ½ block past the SAR building to the stop sign at Wyoming Ave. Turn left and proceed ½ block, the OEM building is the only building on the left side.

If you have questions about our move, feel free to email president@K7ID.org

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...

THE RECENT KARS MEETING MINUTES



June 2021 Meeting

The June 2021 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 Steve Murphy (KG7UWB).

Unfortunately, our hybrid meeting (in-house and Zoom) plan did not work out for the June meeting. Apologies to those we were unable to reach via the Zoom channel. In house meeting attendance was 30.

Four first-time attendees were welcomed to the Club meeting. Twelve people took Amateur Radio exams prior to the Club meeting. ALL passed their tests, including seven Technician, four General, and one Extra Class. The VE Examiners have administered a total of 74 Amateur Radio licensing tests during the first six months of 2021.

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.

As announced in past meetings, two 70’ free standing towers are available in Spirit Lake. This is not Club Business per se, but we would like to see these resources continue life in the ham world. Also, one Rohn Tower donated to the Club by the estate of Jim Miller (N8BNI) is available. For information on the preceding, Contact Club President Ed (AI7H), email president@k7id.org

Club members were reminded of the upcoming Field DAY exercise coming up on June 26 and 27, and of the Field FEST event that will be held on August 7. Also it was noted that for Field DAY, an evening meal will be prepared for STAFF Only on Saturday evening, and breakfast for STAFF Only on Sunday morning. Staff crew members planning to participate in the Saturday evening meal should plan to “bring their own beef” (that will be placed in refrigerated storage). The Club has experienced difficulties in previous years with people that had nothing to do with Field DAY expecting to receive a free meal.

Regarding Field FEST, we have placed advertising in QST magazine (appeared in July issue), we will receive gift certificates from ARRL, a publishing company is sending six books, and we are scouting other sources for items that may be used as Raffle Prizes.

We have just learned of a new summer event called “Dozer Days” that will be held at Cabela’s in Post Falls on 09/11 and 09/12, 11AM – 4PM. The general concept is that event organizers will have heavy equipment on site and kids will be allowed to climb on (and possibly operate) dozers, graders, dump trucks, etc. under the supervision of the equipment operators. Ticket prices are listed as \$11 for kids under 12 and Seniors, and \$13 for adults. The reason for mentioning this – Avista will be on site with their “Safety Display”, conducted from a modified line truck. This is a very interesting electrical and natural gas safety presentation that takes about an hour. Google ewni.dozerday.org for more information.

Old Business:

President Ed asked for a motion to approve the May Club Meeting Minutes (which were reported in the May Newsletter). It was so moved by Bernie Schmitt (WA3OWP) and seconded by Shannon Riley (K7MUA). Club members present approved by voice vote.

The May Financial Report was presented by Treasurer Shannon Riley (K7MUA). President Ed asked for a motion to approve the Treasurers Report. It was so moved by Bernie Schmitt (WA3OWP) and

seconded by Gabbee Galindo (KE7ADN). Club members present approved by voice vote.

New Business:

Club VP Gabbee Galindo (KE7ADN) has received information regarding Club T-Shirts from the vendor (who happens to be a ham). Cost is \$25 per shirt (\$27 with pocket) and is available in sizes 0 to 6X for men and 0 to 6X for women. A handout was provided for those interested.

A new Club Activity opportunity was recently discovered, and a booth was tentatively reserved by Steve Murphy (KG7UWB). This is the annual Center Target Sports “Customer Appreciation Day” which is Saturday August 14, 9AM-2PM. The Club has participated in this before, attendees tend to be receptive to receiving information about Amateur Radio, and there is a very modest impact on Club resources. Members were asked for a show of hands if they could volunteer for the event, and participation handouts were passed out to those persons (a total of 11). Upon a call to approve adding this event to our calendar, Gabbee Galindo (KE7ADN) so moved, and the motion was seconded by Bernie Schmitt (WA3OWP). Club members present approved by unanimous voice vote. Steve was instructed to finalize our participation.

Club President Ed Stuckey (AI7H) discussed “profit centers” and “cost centers” for the upcoming Field FEST, the object being to achieve consensus on purchase of a “Hamfest Package” from HRO or DX Engineering. (a Hamfest Package is a group of items, typically a “grand prize” item and several smaller items suitable for raffle prizes). After considerable discussion, Club members felt that a maximum of \$1,000 for a Hamfest Package was reasonable. At this time a call for approval of this Maximum expenditure was issued, a motion to approve was made by Bear Paw Galindo (KE7ADT) and seconded by Rod Anderson (K7ZBE). The expenditure was approved by voice vote.

After conclusion of the Business Meeting, Club members and guests enjoyed a brief break with a bountiful supply of coffee and cookies.

During the break new Club member Randy Jones (N7CKJ) offered three ham items “discovered” dur-

ing his move to the local area: A Heathkit Digital Clock (with manual!) that works, a Larsen 2-Meter mobile antenna, and a 120V to 36V step down transformer. Also, Jim Hossack (W7LS) offered some helix coaxial cable (suitable for use on high UHF bands or repeaters. All items were gratefully accepted by president Ed and will be lovingly accepted into new homes.

The evening presentation was "About Field Day Antennas" by Ethan Gollehon (KE7DUX). Ethan gave a description of the type of antennas that are planned for use at the K7ID Field DAY site, with some commentary on construction details and strengths and weaknesses of the various antenna types. Some comments were also directed toward Field DAY situations when several stations are in a small area with the possibility of mutual interference.

After conclusion of the presentation phase of the meeting Club President Ed (AI7H) asked for a motion to adjourn the meeting. It was so moved, and Club members present approved by voice vote. The meeting was adjourned at 8:45PM

Minutes respectfully prepared and submitted 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>

CIRCLE YOUR 2021 CALENDAR!

August 7, 2021 – KARS Hamfest or "Field-Fest"

November 8, 2021 - Election of Officers

December 13, 2021 – KARS Christmas Party

Every Thursday 8 a.m. to 10 a.m. – "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.

JOIN THE K7ID GANG EVERY THURSDAY MORNING!

COFFEE

QSOs

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



8 till 10

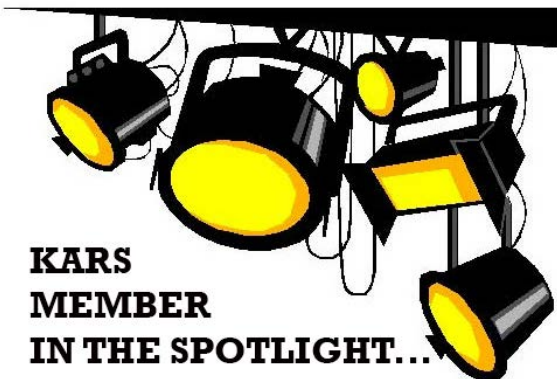
**HELP
SUPPORT
OUR REPEATERS**

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

FIELD FEST - 2021



CENTER TARGET - 2019



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

by Larry Telles, K6SPP

Spotlight this Month is on:
Hal Denison, WA7FIV

**The Center Target
2021 Appreciation Day
to be help
August 14, 2021**

**KARS will have a booth
and need members to help.
Free hot dogs and fun!**

**COME
JOIN US!!!**

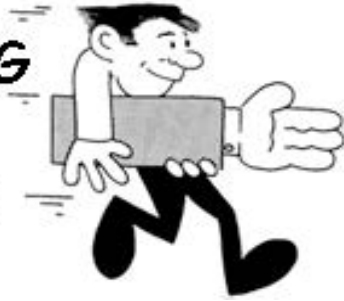
**HELP
SUPPORT
OUR REPEATERS**



(continue on page 9)

WANNA TRY DIGITAL?

WORKING
WITH
DIGITS



MORE DIGITAL...

PART 4- MULTIPSK

The following software program can decode many, many signals. The link to download is below. The best part is it's FREE!!! Below the link is the signal that this program decodes.

<https://multipsk.software.informer.com/download/>

- Phase Shift Keying modes:
 - BPSK: BPSK31-63-125-250 / CHIP (64/128) / PSK10 / PSKFEC31 / PSKAM10-31-50
 - BPSK with SSTV: PSK63 F - PSK220F + DIGISSTV "Run"
 - QPSK: QPSK31-63-125-250
 - 8PSK: VDL2
 - MPSK: MT63
 - PACKET BPSK1200-250-63-31 + APRS+ DIGISSTV "Run"
 - MIL-STD-188-110A - 4285
 - HF DL
 - EPIRB-ELT-PLB beacons
 - ARGOS (beacons/satellites)
 - AUTEX
 - ORBCOMM
 - AERO
 - EGC
 - M10/M20
 - LRPT
- On-Off Keying Modes: CW / NDB / CCW-OOK / CCW-FSK / QRSS

- Amplitude modulation mode: APT faxes (NOAA satellites)
- Frequency Shift Keying modes:
 - PACKET: 110-300-1200 bauds + APRS+ DIGISSTV "Run"
 - PACTOR 1 / AMTOR FEC-Navtex / AMTOR ARQ / SITOR A
 - ASCII / RTTY 45-50-75-100-110-150-200 / SYNOP + SHIP / IEC 870-5
 - 1382 / BIIS / GMDSS DSC / ATIS / ACARS (VHF) / DGPS / NWR SAME / ARQ-E / ARQ-E3
 - RS41(GFSK)
 - DFM06-09
 - LMS6
- Multi Frequency Shift Keying modes:
 - MFSK8 / MFSK16/32/64 (+SSTV)
 - OLIVIA / Contestia / RTTYM / VOICE
 - THROB/THROBX
 - DominoF / DominoEX / THOR
 - PAX / PAX2
 - Automatic Link Establishment (see <http://www.hfink.com>) MIL-STD-188-141A+ ARQ FAE / ALE400 + ARQ FAE
 - DTMF, SELCAL
 - JT65 (A B and C)
 - LENTUS
 - COQUELET
 - (RS ID / CALL ID / EM)
- Base band modes: POCSAG, AIS, Packet 9600 bauds (G3RUH)
- Hellschreiber modes: FELD HELL / FM HELL(105-245) / PSK HELL / HELL 80
- Graphic modes: HF FAX / SSTV / PSK SSTV modes (mentioned above) / MFSK16 SSTV (mentioned above)
- PPM (by positioned pulses) modes: mode S (ADS-B included)
- DSP modes: Filters / Analysis / Binaural CW reception
- RTTY, CW, BPSK31, BPSK63 and PSKFEC31 Panoramics
- Identifiers: Video ID / RS ID / Call ID
- TCP/IP digital modem
- Integered SdR demodulator/modulator

NEXT ISSUE MORE DIGITAL...

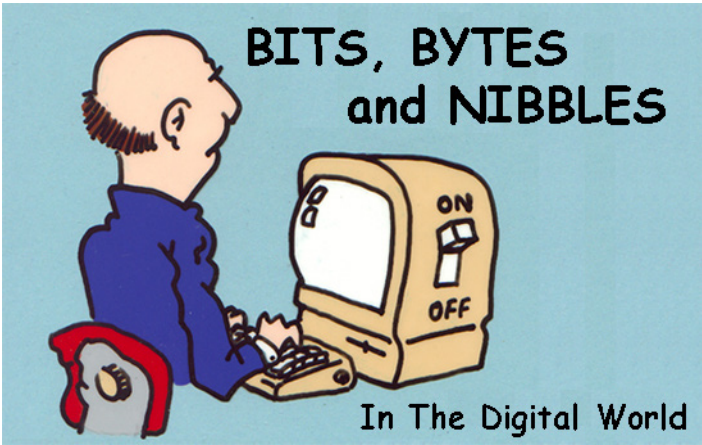
HAL Continue

Hal was in the Army near Okinowa in 1960s. He had a friend in high school whose father was a ham. So in 1965 (He can't find the actual date, possibly May). Hal took the test from the Special Services guys and passed the 13 words per minute and the

written test. He became WA7FIV at Mars Station KR6GM. The GM stood for Guided Missile. Hal left Okinowa and ended up in Missoula. However he was still waiting for his license to arrive. Hal believes it was around November when he got in touch with a clerk on Okinowa. He asked if there happen to be a letter from the FCC in his old in box. He was told yes there was. When asked why they didn't send it to him. They replied, "We thought it is was your orders for Viet Nam!"

He likes 80 meters since he is a member of the Oregon Emergency Net, but he does some operating on 40 as well. His modes are a lot of voice and some digital.

When Hal was asked why he likes ham radio he gave the answered that about 99% of hams I have interviewed say, comradely! He continued by saying, "if you meet a ham anywhere in the world you know him immediately! Name and call sign are the only thing required"



**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.

2021 CLUB OFFICERS

- | | |
|--|--------|
| President: Ed Stuckey,
president@k7id.org | AI7H |
| Vice-President: Gabbee Galino,
vicepresident@k7id.org | KE7ADN |
| Executive Director: Larry Telles,
execdir@k7id.org | K6SPP |
| Secretary: Kathy Kent,
secretary@k7id.org | KI7OVA |
| Treasurer: Shannon Riley,
treasurer@k7id.org | K7MUA |
| Past President: Frank Krug
pastpresident@k7id.org | KD7FK |
| Newsletter Editor: | K6SPP |
| Repeater Tech: Dale DuRee, | KE7VMN |
| Webmaster: Lenny Gemar,
webmaster@k7id.org | N7MOT |
| Repeater Trustee:
trustee@k7id.org | K6SPP |

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.

PROPAGATION

Issue: Vol. 69 No. 07

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

EDITOR: Larry Telles, K6SPP
CONTRIBUTORS: Ed Stuckey, AH7H
PHOTOGRAPHS: Frank Krg, KD7FK
www.k7id.org

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

KOOTENAI AMATEUR RADIO SOCIETY
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TO: