



July 2015

(www.k7id.org)

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

REGULAR CLUB MEETINGS:

Monday, July 13, 7:00 p.m.
10865 N. Ramsey Rd.
Hayden, Idaho
Topic: ???
Presenter: ???
Refreshments: ???

VE Testing
5:30 p.m. to 7:00 p.m.
Monday, July 13
10865 N. Ramsey Rd.

Monday, Aug. 10, 7:00 p.m.
Search & Rescue Bldg.
10865 N. Ramsey Rd.
Hayden, Idaho
Topic:
Presenter:
Refreshments: ???

VE Testing
Monday, Aug. 10, 5:30 p.m.
10865 N. Ramsey Rd.
Hayden, Idaho

Upcoming Events

Letter From the President

Dave Boss KF7YWR
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With June, our busiest month, out of the way things should start to settle down a bit. Another Hamfest finished and put to bed and most of the equipment put away from Field day (*put away* is code for dropped on the Ham Shack floor) it looks like the remaining summer will be filled with projects to finish before the weather changes.

HAMFEST: Although the Hamfest did not seem to be as well fitted with gear as in previous years, I did find a couple items I had earmarked as “had to have”. I acquired a Kenwood SP-31 speaker to replace an ancient Radio Shack leftover. The SP-31 has some passive filters to help with audibility in addition it has two inputs allowing one speaker to service two radios which theoretically helps the clutter on the desk. My other find was a seriously cool home brew antenna tuner that was at least capable legal limit wattage if not more. Built with really nice variable caps (a matched set) and a unique method of replacing inductors for each band rather than a tapped coil. Sadly it contained just the parts I was lacking to finish a tuner that was in the “I need some more parts phase of life” sitting on my bench. While the craftsmanship of the tuner was great and the design innovative, cannibalism can be a wonderful thing at times. I seriously hope that the rest of you found gear that you were looking for, or stuff you just couldn’t live without. While Hamfests are few and far between in our necks of the woods I have floated the idea of having a Swap Meet for one of our meetings. Any feedback would be appreciated.

FIELD DAY: Majestic Park, the new location, in my humble opinion is a keeper. No trains, traffic or other annoying noises to interfere with the calls. Nice new pavilion facility, complete with range, BBQ, Fridge and hot and cold running water. The partially landscaped east side of the park allowed for several long wires, and plenty of parking area which allowed for the club’s tower trailer to sport a 6 m yagi and support yet another wire antenna. Fortunately the copper thieves were unaware of our location and all was well. Set-up on Friday was warm (OK, downright hot) and the rest of the weekend was very hot as well. The shady pavilion helped, but any way you cut it a hundred degrees is just plain miserable, and being reminded that it is a dry heat doesn’t help at all! Officially we ran two stations and a GOTA station. Perhaps next year we can expand on the number of stations as we continue to add new Hams. Rod Anderson and Frank

TenThy unpacked virgin radios (both Yaesus) and tried them out on the antenna farm and true to form for any manly Ham, never cracked the manual despite the overabundance of knobs and buttons and a myriad of menus. The potluck was well attended and we had a pretty decent breakfast to boot. The weekend parks and recreation guys appreciated the meals as well, it's always a plus to be on the good side of your hosts so that they will invite you back! I am not sure how we did as far as contacts (Ed, AI7H will surely update) as there seemed to be as much conversation behind the radios as there was behind the mics, the fellowship of friends in my book is worth far more than a tally of contacts on a sheet.
Dave KF7YWR

Weeds On Canfield

Now that Hamfest and Field Day are history we will need to attack the mountain. Hopefully we will get a break in the heat and be able to get up there soon. The sign-up sheet still has a few openings and we will call when we have a good day.

June Was a Busy Month!

About the KARS Hamfest

It was a “blast”, as seen from the Club resale table. (Your Club used car salesman SOLD OUT for the first time in several years – but Fresh Inventory is arriving so we can begin re-stocking for Hamfest next year). Thanks to all who donated pre-loved ham equipment, accessories, and parts, those items went to very happy new owners!

Amateur Radio Field Day

As this paragraph is being written, the K7ID operators and staff are anxiously waiting for the starting bell to ring. We will be physically challenged by the late June heat wave, and also technically challenged by a major “magnetic storm” caused by a series of ongoing Solar flares. (Magnetic storms often interrupt short-wave communications, making the radio bands “go dead”). Fingers crossed!

Setting the above aside, the objective of Field Day is for groups of Amateur Radio operators to practice setting up a simulated emergency communications station (with multiple radios and operators simultaneously on the air), “stressing” the station a bit by operating continuously over a 24-hour period, educating ourselves on how to do better next time, demonstrating the station to “civilians” (including prospective future hams), and to generally have a good time. We know that at least 1,527 Field Day stations from the US and Canada will be on the air in public places (like

us) this year. We'll keep careful notes and update you next month.

73,
Ed AI7H

Amateur Radio Newsline Co-Founder, Editor Bill Pasternak, WA6ITF, SK

A well-known voice in the Amateur Radio news media has gone silent. Bill Pasternak, WA6ITF, of Santa Clarita, California, died June 11 following a period of ill health. He was 73. Pasternak was co-founder (with Jim Hendershot, WA6VQP) of *Amateur Radio Newsline*TM (formerly *The Westlink Report*) ham radio news webcast and a frequent presence at Amateur Radio conventions. Pasternak served as *Newsline*'s managing editor and occasional newscaster for the program. Even while hospitalized earlier this year, he kept his ear to the ground for news from the Amateur Radio community, so he could pass it along to those who had taken over *Newsline* during his illness — discovered after he broke two ribs in a fall. ARRL Rocky Mountain Division Director Brian Milesosky, N5ZGT, got acquainted with Pasternak at the Albuquerque hamfest and in 1997 was named *Newsline*'s “Young Ham of the Year” (YHOTY).

“An incredible man, ham, and one of Amateur Radio's too-few giants, who woke up every day to make the hobby better for everyone, especially its legacy — youth,” Milesosky said. “I've enjoyed the energy he put into keeping hams informed via *Newsline*, and have been honored to give back to his *Newsline* Young Ham of the Year Award program, since being asked by him to sit on its judging panel well over a decade ago.”

ARRL Public Relations Committee Chair Katie Allen, WY7YL, said Pasternak would be missed by those within and outside the Amateur Radio community. “He truly was one of the good ones,” she remarked on [Pasternak's Facebook page](#). “Thank you for sharing your light with us, Bill.”

A Brooklyn, New York, native, Pasternak became a radio amateur in 1959 as WA2HVK and once was very active on 6 meters. “I love the hands-on approach to ham radio and built my very first transmitter using parts salvaged from an old Dumont television set,” Pasternak recounted in an online [biography](#). “It was a modification of a design by Bill Orr, W6SAI, published in his famous

Novice and Technician Handbook. A crystal-controlled, low-power 6 meter AM transmitter that doubled in the final, was screen grid modulated, and put out almost no output power.”

He eventually got into broadcasting and made his career in television engineering and production. He retired as a broadcast engineer with KTTV in Los Angeles in 2012 but continued as a broadcasting consultant.

Pasternak was the spark plug behind the all-volunteer *Amateur Radio Newslines* bulletin — which was relayed on repeaters around the US and elsewhere — as well as the creator and administrator of the annual YHOTY. He was the author of three books and served as a writer/producer on several educational films and videos, including the award-winning “Amateur Radio Today.” In earlier years, he wrote the “Looking West” column for *73 Amateur Radio Today Magazine* for 26 years and penned a “VHF, FM and Repeater” column for *WorldRadio*. He also contributed to broadcast trade publications as well as to *CQ*.

In addition to the ARRL, Pasternak belonged to the Radio Club of America and the Quarter Century Wireless Association. He also enjoyed flying, including stunts getting on the air from thousands of feet up.

He was the only person ever chosen to receive the Dayton Hamvention Special Achievement Award (1981) and Radio Amateur of the Year Award (1989). In 1995, the League presented him with an ARRL National Certificate of Merit in recognition of his contributions to the “furtherance of the goals of the Amateur Radio Service.”

Survivors include his wife of 43 years, Sharon, KD6EPW.

ARRL Hudson Division Director Mike Lisenco, N2YBB, remarked, “I wonder how you measure a person’s success in life. Some would say that you measure an individual by the amount of wealth they’ve acquired. I would say that the true measure of value of an individual is by the amount lives they’ve touched. If that is the case, then Bill died a very wealthy man.”

New World Distance Records Set on 2.3 and 3.4 GHz Ham Bands

Two California radio amateurs — one of them in Hawaii — have set new world distance records on the 2.3 and 3.4 GHz microwave amateur bands. Wayne Overbeck, N6NB, operating from a radio-equipped rental car on the big island of Hawaii, worked Gregory Campbell, W6IT, operating Overbeck’s own fixed station near Orange, California, on both bands — a distance of more than 4024 km (2495 miles). The contacts blew away records that had stood for more than 20 years and more than doubled the previous distance record for a two-way voice (SSB) contact at those frequencies, Overbeck said, adding that most previous microwave distance records have been set using CW.

“Ours was the first-ever SSB contact between Hawaii and the mainland on 2304,” Overbeck noted. He said Chip Angle, N6CA, and KH6HME (SK) made the first transpacific SSB contact on 3.4 GHz in the 1990s.

The record-setting contacts occurred on June 19 (June 18 in Hawaii) on 2.3 GHz at 0257 UTC and at on 3.4 GHz at 0300 UTC. W6IT was in grid square DM13cs, while N6NB/KH6 was in BK29hq. According to the [database](#) of distance records maintained by Al Ward, W5LUA, the old records were 3982 km, set on by N6CA and KH6ME on July 14, 1994, on 2.3 GHz (CW) and on July 28, 1991, on 3.4 GHz (SSB).

Overbeck flew to Hawaii carrying gear for all bands from 144 MHz through 10 GHz “in two large suitcases, plus a roll-aboard and a backpack” — weighing about 150 pounds in all. In Hawaii, he rented a small SUV and built a rover-style station that included a rotating roof platform constructed using parts obtained from a home improvement store.

Overbeck said that when a tropospheric duct formed that could convey signals thousands of miles across the Pacific, he drove around the slopes of Mauna Loa — 13,000 feet up — and selected several promising sites for long-haul DX, “not necessarily the highest possible sites,” he added. “By Thursday, June 18, the duct seemed to be peaking,” he said.

W6IT activated N6NB's fixed station and quickly worked N6NB/KH6 on six bands, including 2304 and 3456 MHz for world records. Overbeck said he also heard W6IT on 902 MHz and 5.7 GHz, but local, non-amateur interference in California — likely from Part 15 WiFi devices — prevented W6IT from hearing N6NB/KH6 on those bands.

A [video](#) of the record-setting 2304 GHz contact between N6NB/KH6 and W6IT (recorded from the Hawaii end of the circuit) is online.

FCC Invites Comments on Proposed Rules for New LF and MF Amateur Allocations

The FCC is inviting comments on its recent proposals to authorize Amateur Radio operation on two new bands — an LF allocation at 135.7 to 137.8 kHz (2200 meters), and an MF allocation at 472-479 kHz (630 meters). Amateur Radio would be secondary on both bands. Comments are due August 31. Reply comments — i.e., comments on comments filed — are due by September 30. The FCC allocated 135.7 to 137.8 kHz to the Amateur Service in accordance with the *Final Acts* of the 2007 World Radiocommunication Conference (WRC-07). The proposed new allocation at 472 to 479 kHz would implement decisions made at WRC-12.

“The Commission is proposing service rules for the Amateur Service in the 135.7-137.8 kHz and 472-479 kHz bands with the principal goal of enabling sharing of this spectrum among licensed amateur stations and unlicensed PLC systems,” the FCC said on April 27 in a 257-page [Report and Order, Order, and Notice of Proposed Rulemaking](#). The combined proceeding addresses three dockets — ET-12-338, ET-15-99, and IB-06-123 — affecting various radio services in addition to the Amateur Service. The [detailed proposals](#) appeared in *The Federal Register* on July 2.

Amateur Radio stations are not permitted in either band until the FCC adopts, on the basis of comments, specific technical and operational Part 97 rules. Power line carrier (PLC) systems operated by utilities to control the power grid already operate under Part 15 of the FCC rules in both frequency ranges, particularly the lower of the two.

With respect to the new 630 meter band, the FCC has concluded that Amateur Radio and PLC systems “can successfully coexist in the band,” and noted that there has been no reported interference to PLC operation resulting from experimental operations there. The FCC said PLC systems and anticipated Amateur Radio use of both 630 meters and 2200 meters “have characteristics that make coexistence possible.” In general, the FCC wants to hear from the public regarding power limits, antenna placement and height, and geographical limitations for operation in the proposed LF and MF allocations. The FCC has said that the “cornerstone” of the technical rules it’s proposing for both bands is “physical separation between amateur stations and the transmission lines” carrying PLC signals.

The FCC has said that if it concludes, after considering the record, that Amateur Radio and PLC systems cannot coexist on 135.7-137.8 kHz, it would “defer the adoption of service rules, and amateur users will have to continue to use the experimental licensing process to operate in the band.”

In 2012, the ARRL submitted a *Petition for Rule Making* asking the FCC to allocate 472-479 kHz to the Amateur Service on a secondary basis and to amend the Part 97 rules to provide for its use. Several countries, including Canada, already have access to the band.

In addition, the FCC has raised the secondary Amateur Service allocation at 1900 to 2000 kHz to primary, while providing for continued use by currently unlicensed commercial fishing vessels of radio buoys on the “open sea.” The Commission is seeking comment on technical requirements to govern operation of the Part 80 radio buoys.

**COFFEE & DONUTS
EVERY THURSDAY MORNING**

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



**IHOP
Coeur d'Alene**

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

Bring a Writing Instrument. **I. House Of Pancakes**
has the napkins for our breakfast table engineering!

Kootenai Amateur Radio Society



PO Box 1765, Hayden, Idaho 83835-1765

Please complete the entire form and return with your payment

Single Year membership

New member \$15.00 Renewing \$15.00 Family \$23.00 Info Update Only

Two Year Membership

New member \$28.00 Renewing \$28.00 Family \$42.00

Call Sign _____ Class _____ Expires _____

First Name & Initial _____ Last Name _____

If renewing, only fill in information below that has changed since last application, otherwise complete.

Address _____

City _____ State _____ Zip Code _____

Phone Number _____ E-Mail Address _____

ARRL Member _____ May we publish Limited information _____ (Y/N)

For Family Membership, Please complete an additional application and staple together.

Signature _____

K7ID.org Request Form

First and Last Name _____ Call Sign _____

Would you like your (call sign)@k7id.org email be forwarded to an existing email account or would you like to Access it through a web or post office protocol (POP) system?

Please Forward to my existing Email Webmail access POP Access
(Please complete the bottom & Sign) I wish to opt-out of K7ID.org

Please select a user name _____@K7ID.org

Please select a Password _____

For forward request only

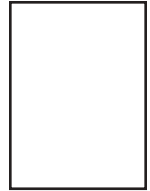
Email address _____

Signature _____

Internal Use Only

Cash	<input type="checkbox"/>	Check	<input type="checkbox"/>	Money Order	<input type="checkbox"/>
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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.

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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 \$20.00 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.