



September 2019

(www.k7id.org)

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

REGULAR CLUB MEETINGS:

Monday, Sep 9, 7:00 p.m.
Search & Rescue Bldg
10865 N Ramsey Rd.
Hayden, Idaho
Topic: ???
Presenter: ???
Refreshments: ???

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

Monday, Oct 14, 7:00 p.m.
Search & Rescue Bldg
10865 N Ramsey Rd.
Hayden, Idaho
Topic: ???
Presenters: ???
Refreshments: ???

VE Testing
Monday, Oct 14, 5:30 a.m.
Search & Rescue Bldg
10865 N Ramsey Rd.
Hayden, Idaho

Upcoming Events

**Spokane Hamfest and Wash-
ington State Convention**
Sept 28, 2019
University High School
32nd & Pines,
Spokane Valley, Washington

"Fishin' for Hams"

As I sit here writing this month's column, the Friday night group from KARS has just relieved Larry, K6SPP, and me from our morning shift at the North Idaho State Fair. It was a warm day and as the sun crested over the front of our pop up booth around 1300, we began to fade somewhat in the heat. It was easy to fall into a sleepy trance as people walked by, tempting us with ice cream cones and corndogs, some seemingly unaware of the magnificence of the hobby we were displaying before them! They just didn't "get it"...

Then, up walks a couple. He used to be a ham but hasn't operated in years and was unaware we have a club meeting 1/2 mile from his home. Another ham tells us he lost all his gear in a house fire. "My dad was a ham" becomes a common response we heard. More hams stroll by and before we knew it...we had several new friends taking our club flyer and promising to investigate. Up walks "Douglas"...an 11 year old with the eyes, maturity and interest of a 30-something year old man. "What is this?" he asks. I explain the HF radio and some fun QSOs I have had. "What does it take to learn it?" he probes. I steer him to a couple of resources and he responds, "I'll check it out". This is a young man with a bright future. I hope ham radio is a part of that.

Fair "booth time" is a rich harvest field where we can plant the seeds of a great hobby into both young and old alike and bring back to life those hams who have been out of touch for many years. We have a golden opportunity to share what we know with many in our North Idaho community. We also deepen the friendships within our own club as we sit, visit and get to know one another...and represent our radio club to our area at the same time! A real win-win!

I hope you keep your eyes and ears open for opportunities to share what you enjoy about our hobby with anyone you meet...you'd be very surprised how easy it is to help someone find or rekindle a lifelong avocation. I look forward to hearing your stories!

Frank Krug, KD7FK
president@K7ID.org

No minutes to publish due to no meeting in August.

144 – 146 MHz Removed from French Proposal for Additional Aeronautical Applications

The 144 - 146 MHz Amateur Radio segment has been removed from a French proposal to study spectrum additional for Aeronautical Mobile Service (AMS) applications. France had included the band, which comprises the entire 2 meter band in ITU Region 1, for consideration as a European Conference of Telecommunications and Postal Administrations (CEPT) position for World Radiocommunication Conference 2019 (WRC-19). Heading into a just-ended CEPT Conference Preparatory Group (CPG) meeting in Turkey this past week, France was holding firm on the proposal to have AMS share 144 - 146 MHz with Amateur Radio. The CPG meeting considered CEPT ECC positions on this and other issues for WRC-19.

The International Amateur Radio Union (IARU) had called the French proposal for 144 - 146 MHz “unsound” and contended that sharing of the current amateur allocation with AMS radio systems would not be possible “without a significant likelihood of mutual interference.”

The French spectrum study proposal would have had to gain approval from at least 10 CEPT countries at the CPG meeting - with not more than 6 opposing - to appear on the agendas of WRC-19 and WRC-23, where a final decision would be made.

Also at the CEPT meeting, at the insistence of the European Commission, a WRC-23 agenda item was considered necessary to address world-wide protection of Regional Navigational Satellite Systems (RNSS) from amateur emissions in the 23 centimeter band, 1240 - 1300 MHz. Delegates agreed to a draft WRC Resolution that stresses the importance of the band to the Amateur Service and explicitly excludes the removal of existing allocations as part of the proposed agenda item. The issue stems from reported incidents of interference to the Galileo GPS E6 signal on 1278.750 MHz.

Other Amateur Radio-related issues addressed at the CEPT CPG included:

- Agreement to a European Common Proposal (ECP) on allocating 50 - 52 MHz to the Amateur Service in Region 1 (Europe, Africa, and the Middle East) on a secondary basis, with a footnote listing those countries where the Amateur Service will have a primary allocation in the band 50 - 50.5 MHz (WRC-19 Agenda Item 1.1).

- Agreement to an ECP on spectrum to be considered for International Mobile Telecommunications (IMT), which does not now include the primary Amateur Radio band at 47 – 47.2 GHz (WRC Agenda Item 1.13).
- Agreement to an ECP that retains the current regulatory position in the 5725 – 5850 MHz band that includes secondary Amateur Radio and Amateur Satellite allocations (WRC Agenda Item 1.16).
- No change to an already agreed upon CEPT position on wireless power transmission (WRC Agenda item 9.1.6). This calls for no change in the *Radio Regulations* to address the question of operating frequency for wireless power transmission for electric vehicle charging (WPT-EV), but leaves open the question of spurious emissions from WPT-EV.

IARU Region 1 President Don Beattie, G3BJ, said that the IARU team at Ankara - the only representatives of the Amateur Service at the meeting - had presented clear and convincing arguments for Amateur Radio positions and that he was pleased that regulators had recognized the strength of the amateur case. He expressed his thanks to everyone who contributed to the outcome at CPG.

CEPT is one of the six regional telecommunications organizations but viewed as the most influential. The issues now move to WRC-19 in Egypt this fall for final resolution. IARU will be represented at the international gathering, which gets under way in late October. —
Thanks to IARU (ARRL News)

ARRL Contest and DXCC Rules Now Prohibit Automated Contacts

Following the direction of the ARRL Board of Directors, ARRL has incorporated changes to the rules for all ARRL-sponsored contests and DXCC, prohibiting automated contacts. These changes also apply to the Worked All States (including Triple Play and 5-Band WAS), VHF/UHF Century Club, and Fred Fish, W5FF, Memorial awards. The changes are effective immediately.

A resolution at the July ARRL Board of Directors meeting pointed to “growing concern over fully automated contacts being made and claimed” for contest and DXCC credit. The rules now require that each claimed contact include contemporaneous direct initiation by the operator on both sides of the contact. Initiation of a contact may be either local or remote. (ARRL News)



her father, Martin and he thought it was a great idea. Martin got the itch and had his Tech license before Shelia.

It was in 2015 that Shelia got her Technician ticket and aspires to get her General. Her first contact is still fresh in her mind. She was in the parking lot of her Veterinarian where she was going take her cat. Shelia worked KG7LRV, Martin, her father on 2-meter simplex. She commented. "It was a successful, loud, and clear transmission."

Shelia likes 2-meters and 70 centimeters since those are two of the bands within the Technician class license.

"Meeting hams in person after I've talked to them on the radio is a lot of fun," said Shelia. She enjoys being part of the ham community and the camaraderie that comes with it. Shelia has made some very good friends that she would not have met otherwise. "I've also become a net control operator on the North West Traffic Net and Kootenai ARES."

There is a good chance that if you hear Shelia on the air, she may be pedestrian mobile. She is an avid hiker. When you hear KG7SAA, give her a call, it will be a great contact!



by Larry Telles, K6SPP

Spotlight this month is on:
Shelia Waller, KG7SAA

Shelia got her ham license in a round about way. Friends of hers got their licenses and was telling her how much fun it was in amateur radio. After hearing about it for a while Shelia decided to give it a try. One day early on she mentioned it to

ARRL Foundation Scholarship Program Application Window Opens on September 1

Applications for the 2020 ARRL Foundation Scholarship Program will be accepted between *September 1 and December 31, 2019*. All applicants must be FCC-licensed radio amateurs, and many scholarships have other specific requirements, such as intended area of study, residence within a particular ARRL Division, Section or state, and license class. Applicants should review the scholarships and check off the ones for which they are eligible.

If you complete an online application, you must also [email](#) a PDF of academic transcripts from your most-recently completed school year by *January 13, 2020*. Applications not accompanied by transcripts will not be considered. The ARRL Foundation Scholarship Committee will review all applicants for eligibility and award decisions. Scholarship recipients will be notified in May 2020 via USPS mail and email.

For more information, visit the [ARRL Foundation Scholarship Program](#) page. (ARRL News)

Newsline Honors Young Ham of the Year Dhruv Rebba
KC9ZJX

PAUL/ANCHOR: Our top story this week is all about Amateur Radio Newsline's Young Ham of the Year, honored this month at the Huntsville Alabama, Hamfest. Here's Don Wilbanks AE5DW:

DON: "Let me tell you about this year's Young Ham Of The Year. His name is Dhruv Rebba and his callsign is Kilo Charlie 9 Zulu Juliet X-ray."

With those words the 2019 presentation of the Bill Pasternak WA6ITF Memorial Young Ham Of The Year Award was on. There is not enough time to tell you all of 15 year old Dhruv's accomplishments as the nominating packet was 35 pages long. Take my word, Dhruv Rebba is an amazing young radio amateur. He's also quite humble and a person of few words.

DHRUV: "I'd like to thank the Huntsville Hamfest and Amateur Radio Newsline for the award. And I would especially like to thank my parents and everyone who has supported me on my journey so far. Thank you."

DON: And what a journey! CQ editor and award judge Rich Moseson W2VU with some of his remarks about what made Dhruv stand out.

RICH: "This year was particularly difficult and such a pleasure because we have had so many nominees who are so very clearly qualified, each one of them, it was a very difficult choice for all of us on the committee to make. Dhruv stood out, to me at least, not only for what he's done but the breadth of it. Not only has he facilitated one Amateur Radio On The International Space Station contact, but two. Not only has he promoted Amateur Radio to young people here in the United States, but in India as well. And now he's looking to go even farther, to go to the moon with the Gateway Project. Those of you who are old enough to remember the movie "2001: A Space Odyssey," the opening scene of that movie is a bunch of people on a transit station in orbit around the moon waiting for space ships to come pick them up to go to other places including the moon. That's what the Gateway Project really is in real life, a small space station orbiting the moon as a transit point, and ham radio is going to be part of that.

Dhruv is part of the effort to make that happen."

DON: Our other corporate sponsors including Yaesu, Heil Sound and RadioWavz joined us on stage to sing

Dhruv's praises and present him with tokens of their appreciation. GigaParts joined us there for the first time as well. Time does not permit me to have them all here but you can listen to the awards presentation in its entirety as a Newsline extra on our website, arnewsline.org.

Bill Pasternak's passion was youth in Amateur Radio and education. We're keeping his legacy alive with the Bill Pasternak WA6ITF Amateur Radio Newsline Young Ham Of The Year and soon the Amateur Radio Newsline presenters radio club will be organizing some on-the-air activities.

Again, the entire ceremony is up on our EXTRA page at arnewsline.org.

Congratulations to Dhruv Rebba KC9ZJX and thank you so much to the Huntsville Hamfest, WTWW Shortwave and W5KUB.com and everyone who supports what we do with the Amateur Radio Newsline Young Ham Of The Year Award. We'll do this all over again next August.

For Amateur Radio Newsline I'm Don Wilbanks, AE5DW.

Report: California Earthquakes Disrupted HF Propagation on West Coast

British Columbia radio amateur Alex Schwarz, VE7DXW, said that an Independence Day magnitude 6.4 earthquake in California's Mojave Desert and multiple aftershocks negatively affected HF propagation on the US west coast. Schwarz, who maintains the "RF Seismograph" and has drawn a correlation between earthquake activity and HF band conditions, said the radio disruption began at around 1600 UTC on July 4, and continued into July 5. He said that on July 4, the blackout was total except for 20 meters, where conditions were "severely attenuated," Schwarz said. The RF Seismograph also detected the magnitude 7.1 earthquake on July 6 in the same vicinity, Schwarz reported. The distance between the monitoring station in Vancouver, British Columbia, and that quake's epicenter is 1,240 miles.

"Things are back to normal after the strong quake, as far as the ionosphere is concerned, but the unrest has not stopped yet," Schwarz told ARRL on July 8. "There were over 7,000 mostly small quakes, and these do not seem to have the energy to affect the ionosphere. We all hope that this will settle down soon." Schwarz said the RF

Seismometer detected a magnitude 6.9 earthquake in Indonesia.

Over the holiday weekend, Schwarz had reported “a massive short-wave radio blackout” on the west coast. “It is not caused by the sun (the sun is quiet), but the field lines of the ‘quakes themselves,” he said. A magnitude 6.2 earthquake took place off Vancouver Island, British Columbia, on July 4.

On July 6, Schwarz said, the RF Seismograph showed an increase in noise on 80 meters some 13 hours beforehand, as well as some propagation changes on 40 and 30 meters - low before the quake and increasing in its wake. Increases in noise on 15 and 10 meters were detected some 10 hours before the earthquake, diminishing about 3 hours afterward. In addition, noise level and propagation changes on 20 meters some 3 hours before the earthquake.

Schwarz said larger quakes spur longer periods of 80-meter noise which cross the day/night boundary. “The difficulty is the 80 meter noise difference between day and night, which is hard to subtract from the graphs,” he added. With earthquakes of lesser magnitude (4.0 to 5.9), the RF Seismograph displays the rise and fall typically within daytime or nighttime propagation, making it more obvious. “The measurement on the other bands is more consistent, and the quake can have either an amplifying or attenuating effect on propagation,” Schwarz told ARRL.

All of the earthquakes of the past few days occurred within a 4-square-mile area in and around Ridgecrest in Kern County. Several injuries were reported, along with property damage. ARES and the Sierra Amateur Radio Club (SARC) have actively supported communications during the earthquake swarm and magnitude 7.1 quake in and around Ridgecrest, in the Mojave Desert. “Many club members are busy collecting information, running an emergency net, as well as staffing a back-up communication van,” Mike Herr, WA6ARA, told ARRL on July 7.

The RF Seismograph propagation tool employs an omnidirectional multiband antenna to monitor JT65

frequencies (± 10 kHz) on 80, 40, 30, 20, 15, and 10 meters. Recorders monitor the background noise and display the result in six color-coded, long-duration graphs displaying 6 hours of scans. When signals are present on a band, its graph trace starts to resemble a series of vertical bars.

The RF Seismograph recorded the magnitude 7.5 earthquake in Ecuador on February 22. Schwarz [recounted](#) that noise on 15 meters began to be visible about 1 hour before the quake; then, 2 hours after the quake released, 15 meters started to recover. It did not affect 80 meters. “The earthquakes show up as RF noise because of the electric field lines, now scientifically confirmed to change the way the ionosphere reflects RF,” Schwarz said.

Schwarz has cited an article in the October 2018 edition of *Scientific American*, which, he says, explains the phenomenon. (See Erik Vance’s “[Earthquakes in the sky](#),” *Scientific American*, October 2018, p. 44.)

The *Scientific American* article explores measurements in Japan and how earthquakes can create electric field lines that extend into the atmosphere. Schwarz said 171 earthquakes - all magnitude 6.0 events or greater - were studied, and only 15 of them had no RF noise associated with them.

RF Seismograph is now a [project](#) on Scistarter.com, facilitated through Arizona State University. Contact [Schwarz](#) for additional information. (ARRL News)

Reminder: World Wide Digi DX Contest Debuts on August 31

The inaugural [World Wide Digi DX Contest](#) is set for August 31 - September 2, sponsored by the World Wide Radio Operators Foundation ([WWROF](#)), in collaboration with the Slovenia Contest Club ([SCC](#)). Sponsors hope the WW Digi will become an annual event. The new contest will embrace the use of both FT4 and FT8 protocols of the [WSTJ-X](#) version 2.1.0 software suite on 160, 80, 40, 20, 15, and 10 meters.

Participants earn points based on the distance between grid square centers of the two stations in a given contact.

Each new two-character grid field contacted on each band will be a multiplier. The final score will be the product of total contact points and grid *field* contacts. Single-operator and multioperator entries are welcome. Plaques will be awarded to top scorers. Additional resources: “Using [DigiRite](#) with [WriteLog](#) in the WW Digi Contest” and “Operating WW Digi with [NIMM+](#).” (ARRL News)

Reminder: The Hiram Percy Maxim Birthday Celebration Begins on August 31

The [Hiram Percy Maxim Birthday Celebration](#) gets under way on Saturday, August 31, and wraps up on Monday, September 8. The 9-day operating event commemorates the 150th anniversary of the birth of ARRL cofounder and first president Hiram Percy Maxim, W1AW (HPM) - born on September 2, 1869 - and is open to all radio amateurs. The objective is to work as many participating stations as possible. W1AW and *all* ARRL members will append “/150” to their call signs during this event (DX operators who are ARRL members may operate as *<call sign>/150*, if permitted by their country of license.)

Stations will exchange a signal report and [ARRL/RAC Section](#). A total of 84 multipliers are available. DX stations will send a signal report and “DX.” All Amateur Radio bands except 60, 30, 17, and 12 meters are available. Contacts may be made on CW, phone, and digital modes. Incentives are available for using different modes, operating portable, and using social media, among others. Logs will be scored, and downloadable certificates will be available.

An [announcement and complete rules](#) also appear in the September issue of *QST*, p. 86. (ARRL News)

New Chinese Amateur Radio Satellite Launched

The spherical Chinese CAS-7B (BP-1B) Amateur Radio satellite carrying an FM transponder launched on July 25 at 0500 UTC. Signals from both the FM transponder and the telemetry beacon have been received. The satellite was launched on Hyperbola-1 from Jiuquan into a 300 kilometer, 42.7° inclination orbit.

CAS-7B is expected to have a lifetime of about a month before reentry.

The CW telemetry beacon transmits on 435.715 MHz; the V/U FM transponder downlink is 435.690 MHz (16 kHz passband), and the V/U FM transponder uplink is 145.900 MHz. Further information is available from [Alan Kung, BA1DU](#), at CAMSAT.

QST Now Listing Code Proficiency Award Recipients

Starting with the August issue, *QST* will list the recipients of W1AW [Code Proficiency](#) certificates. Key manufacturer [Vibroplex](#) now is sponsoring the certificates, which debut a new design. The Code Proficiency program has been an ARRL staple for decades. Participants who copy a [W1AW qualifying run](#) and submit 1 minute of legible solid copy and the \$10 certificate fee can qualify.

Send submissions to W1AW Qualifying Run, 225 Main St, Newington, CT USA 06111. These are checked directly against the official W1AW text, and those demonstrating solid copy will receive an initial Code Proficiency certificate. Endorsement stickers, which cost \$7.50, are issued for speeds up to 40 WPM.

The W1AW Code Proficiency Program is open to hams and non-hams alike. Those seeking to attain a Code Proficiency certificate can listen to W1AW daily code practice sessions, in which the text is taken directly from *QST*, as announced before each practice run. (ARRL News)

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: _____

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:

