



The Hellgate Static

May 2019



Hellgate Amateur Radio Club
P.O. Box 3811, Missoula, MT 59806-3811

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Officers:

President: Mike Leary, K7MSO

Vice-President: Eric Sedgwick, NZ7S

Treasurer: David Herzberg, K7MTD

Secretary: Donna Pecastaing, KC5WRA

Standing Committees:

Emergency Coordinator: Jerry Ehli, N7GE

QSLs, Awards: Bob Henderson, N7MSU

Webmaster: Mike Leary, K7MSO

Static Editor: Terry Cook, KF7BQ

Radio License Exams Contact VE:

Paul Shuey, N7PAS

Repeater Advisory Committee:

Eric Sedgwick NZ7S (Chair)

David Herzberg, K7MTD

Tom Mc Ginley, K7QA

Tom Hellem, K0SN

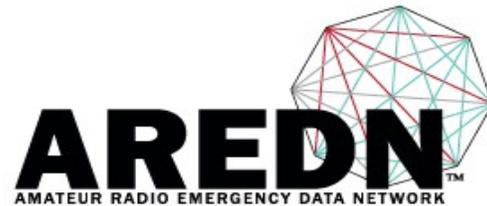
Paul Shuey, N7PAS

Upcoming Events

8 June Trail Rail Run

- 22-23 June – Field Day
- 30 June – Missoula Marathon
- 4 July – W7PX Special Event Station
- 18 -19 October – Boy Scout Jamboree on the Air
- 6-7 December – Skywarn Recognition Day
- 9 December – Christmas Dinner

May Meeting Program



This interesting program looks at the future of amateur radio public safety disaster communications.

Mesh technology has been around for over ten years. Over the past two years developers on the AREDN™ team have advanced the art by porting Broadband-Hamnet's extremely popular mesh firmware to the Ubiquiti airMAX line of commercial Wireless ISP routers. This has literally changed the complexion of mesh implementations from an experimental, hobby-oriented, novelty into a viable alternative network suitable for restoring some degree of Inter/intra-net connectivity "when all else fails."

More recently, the developers of this software have kicked-off a new project, AREDN, focused on taking this technology to the next level in EMCOMM communications

Grizzly Triathlon

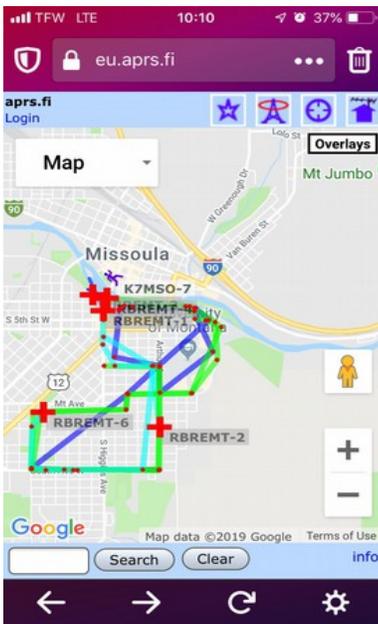


Mike K7MSO chilling at net control

HARC members were once again invited to help with the Grizzly Triathlon at locations scattered across Hellgate Canyon, from the University area to almost near the Bonner Truck Stop. There were 236 participants this year, down 20% from last year's event. Heat one started swimming in the Grizzly Pool at 8:00 a.m. and the last runner finished around 12:45 p.m.

No injuries were reported to HARC net control, which is unusual for this event. Only one flat tire was reported, but the rider apparently fixed it and continued on.

A sufficient number of HARC members (7) volunteered to cover the run. HARC volunteers got together at Five Guys for hamburgers, fries, lots of conversations and laughter. Many thanks go to Bryce KI7LMV, Bryce AF7RQ, Terry KF7BQ, Jerry N7GE, Rich K7QNZ, David KB1BED, and Mike K7MSO.



YMCA Riverbank Run

Eight HARC volunteers were invited to help with the 47th Annual YMCA Riverbank Run. The 10k started at 9:00 a.m., and the last event, the 1 mile Fun Run, finished around 12:00 p.m. Bryce AF7RQ attached trackers to the Ski Patrol bikes and the Tail-End-Charlie bike so that net control could get a better picture of the event.

No safety issues were reported to net control and some of the ham volunteers met afterwards at Bridge Pizza on South Brooks for some eyeball QSOs and much deserved pizza! Many thanks to Vick K7VK, Bryce KI7LMV, Bryce AF7RQ, Donna KC5WRA, Eric NZ7S, Wyatt KJ7FON, Rich K7QNZ and Mike K7MSO.

New area DMR Repeaters

Several area DMR repeaters are now listed on the DMR-Montana website.

Stevensville, MT KD7HP
449.425 MHz, offset -5MHz
DMR Admission: Color code 1
DMR ID: 310875

Mac Donald Pass Site VHF DMR WR7HLN
147.1 MHz, plus 600 KHz offset
DMR admission: Color Code 1
DMR Radio ID: 310264

Additionally, a 70cm DMR repeater is in the works for the Great Falls area. The Mac Pass Repeater Group expects to have it in operation late this Summer.

Amateur Radio in Space Pioneer Astronaut Owen Garriott, W5LFL, SK

04/15/2019 The US astronaut who pioneered the use of Amateur Radio to make contacts from space — Owen K. Garriott, W5LFL — died April 15 at his home in Huntsville, Alabama. He was 88. Garriott's ham radio activity ushered in the formal establishment of Amateur Radio in space, first as SAREX — the Shuttle Amateur Radio Experiment, and later as ARISS — Amateur Radio on the International Space Station.

“Owen Garriott was a good friend and an incredible astronaut,” fellow astronaut Buzz Aldrin tweeted. “I have a great sadness as I learn of his passing today. Godspeed Owen.”

An Oklahoma native, Garriott — an electrical engineer — spent 2 months aboard the *Skylab* space station in 1973 and 10 days aboard *Spacelab-1* during a 1983 Space Shuttle *Columbia* mission. It was during the latter mission that Garriott thrilled radio amateurs around the world by making the first contacts from space. Thousands of hams listened on 2-meter FM, hoping to hear him or to make a contact. Garriott ended up working stations around the globe, among them such notables as the late King Hussein, JY1, of Jordan, and the late US Senator Barry Goldwater, K7UGA. He also made the first CW contact from space. Garriott called hamming from space “a pleasant pastime.”

“I managed to do it in my off-duty hours, and it was a pleasure to get involved in it and to talk with people who are as interested in space as the 100,000 hams on the ground seemed to be,” he said in an interview published in the February 1984 edition of *QST*. “So, it was just a pleasant experience, the hamming in particular, all the way around.”

Although Garriott had planned to operate on ham radio during his 10 days in space, no special provisions were made on board the spacecraft in terms of equipment — unlike the situation today on the International Space Station. Garriott simply used a hand-held transceiver with its antenna in the window of *Spacelab-1*. His first pass was down the US West Coast.

“As I approached the US, I began to hear stations that were trying to reach me,” he told *QST*. “On my very first CQ, there were plenty of stations responding.” His first contact was with Lance Collister, WA1JXN, in Montana.

ARISS ARRL Representative Rosalie White, K1STO, met Garriott when he attended Hamvention, “both times, sitting next to him at Hamvention dinner banquets,” she recounted. “Once when he was a Special Achievement Award winner, and once with him and [his son] Richard when Richard won the 2009 Special Achievement Award. Owen was unassuming, very smart, kind, and up to date on the latest technology.” Garriott shared a Hamvention Special Achievement Award in 2002 with fellow Amateur Radio astronaut Tony England, W0ORE.

Richard Garriott, W5KWQ, was a private space traveler to the ISS, flown there by the Russian Federal Space Agency, and he also carried ham radio into space.

FCC Agrees to 90-Day Pause in Consideration of WT Docket 16-239

It has been almost six years since the ARRL requested the FCC to consider changes to the Amateur digital rules in 11-708 and almost three years since the ARRL filed comments in the resultant proceeding, identified by the FCC as 16-239.

The Commission's proposed changes differed from the ARRL's initial filing and caused the ARRL to be concerned about possible interference to current users resulting from the deletion of the ARRL's requested

2.8 MHz bandwidth limitation. Due to those concerns the League filed comments with the FCC opposing the deletion of the requested bandwidth.

Since the ARRL's initial filing many individuals and groups have commented to the FCC and publicly regarding issues and potential consequences they passionately believe are implicated by the FCC's proposals embodied in 16-239/11-708.

Additionally, in the six years since the initial filing of 11-708 new information has been presented by individuals and groups who support and oppose the FCC's proposed adoption of 16-239.

Due to the time that has elapsed since the ARRL's initial digital rules change request, the new information that has become available and the extent of both support and opposition to the proposed rules change, the ARRL asked the FCC to grant a delay in its consideration of the proposed rules change to provide the League the opportunity to clarify the issues and determine whether a consensus can be reached on some or all of the issues raised by the FCC's proceeding.

At the League's request, the FCC Staff has agreed to a 90-day pause in the consideration of WT Docket 16-239.

The FCC in WT Docket 16-239 proposed to revise the Part 97 rules to eliminate current baud rate limitations for data emissions, consistent with ARRL's *Petition*, but declined to propose a bandwidth limitation for MF and HF digital to replace current baud rate limitations. ARRL had asked the FCC to delete the symbol rate limits in §97.307(f) and replace them with a maximum bandwidth for data emissions of 2.8 kHz on amateur frequencies below 29.7 MHz.

Classified Advertisements

Collins HF 80xx Equipment for Sale

Selling Vietnam war era portable radio set container contents.

Included are two each: HF8054A receiver, HF-8014A transmitter, HF-8064B preselector, HF-8023 1 KW solid state amplifier, HF 8032 power supply, HF 8040A antenna coupler.

One each items: power control panel, jack field plug panel, monitor/switching panel, VOX/Control/Modem panel. set of 6 manuals.

Two antenna coupler control cables and other stuff are included

All transmitter and receiver functions and frequency selection can be controlled through an RS-232 port. I used a laptop computer and it worked great! The control codes are in the included manual set. The HF-8032 amplifier power supplies are for 3 phase. They also work just fine on single phase. This equipment is in Missoula, MT.

If you are interested, please make an offer.

Call Dave at 406 543-73niner fiver K7PGY

April 8th 2019 Tentative Meeting Minutes

Approval of March meeting minutes: A Corrections made, Bryce KI7LMV called the 27 March Wednesday night net. Corrected minutes were approved on a motion by Bryce AF7RQ, Seconded by Dean N7DLP.

Treasurer's Report: By David K7MTD, approved on a motion by Jerry N7GE, seconded by Tom K0SN.

Repeater Report: None

HF Committee Report: By Richard W7KT, 1.) Field day alternative sites. Mt. Sentinel has a use permit fee of \$120 to the State of Montana. The committee will go up and evaluate the site in May and report its findings to the club.

2.) Most items donated to the club by the W7ALW Estate have been moved to a storage location by Tom K7QA. Items will become club property after the club provides a receipt to the donor at a future date.

Additional discussions: 2019 budget. After some discussion, it was decided that the Treasurer will provide a prospective 2019 budget at the May meeting.

Program: Due to technical difficulties the scheduled program, AREDN (Amateur Radio Emergency Data Network) will be presented at the May meeting.

Wednesday night VHF net control assignments:

April 10 K7 MTD
17 NZ7S
24 K7MSO
May 1 KC5RWA

Next Meeting: Monday May 13th