The Hellgate Static
February 2019

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

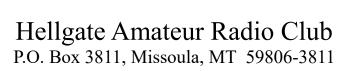## Inside this issue:

- Upcoming Events
- SOTA contacts and websites
- ISS Packet Radio is back in operation
- 7th Call Area QSO Party Info and Rules
- Handy Electronic Formula Wheel
- 2018 HARC VHF Net Check In Tally
- Classified Advertisements
- January 2019 Meeting Minutes

Upcoming Events

- 14 April – Grizzly Triathalon
- 27 April – Riverbank 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

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

Summits On The Air "SOTA" Contacts and Websites

From Vic W7VK's SOTA program.

- Montana Association AE7AP kingery713@gmail.com   K7VK k7vk@arrl.net
- www.sota.org.uk   - The main website about the SOTA program.
- www.sotawatch.org   - alerts, forum and registration to participate.
- http://database.sota.org.uk/   Log chasing and activating QSO's, register to enter QSO's.
- Http://www.on6zq.be/p/SOTA/AssociationMap.php?association=W7M   Mapping by state. (Montana is W7M, Idaho is W7I, et al)

ISS Packet Radio System is Back in Operation with New Equipment

The Amateur Radio on the International Space Station (**ARISS**) packet system is back on the air with new equipment. The replacement gear arrived last November and had been awaiting unpacking and installation. ARISS hardware team members on the ground were able to locate a functional duplicate of the old ISS packet TNC module that had been in operation for 17 years and had become intermittent. Crew members installed the new module on February 2; the RF gear remains the same.

The ISS packet system, located in the ISS *Columbus* module, went down in July 2017, but it unexpectedly came back to life the following summer. The packet system operates on 145.825 MHz. ARISS is an official back-up system for astronauts to talk with Mission Control in the unlikely failure of the station's primary communication systems.

In 2017, hams relayed nearly 89,000 packet messages via the ISS; response to its recent return has been enthusiastic, ARISS said.

7th Call Area QSO Party -- May 4-5, 2019

The 2019 7th Area QSO Party will be May 4-5.

The updated rules are attached.

Rule changes:
- 4 points for digital QSOs
- suggested frequencies for digital QSOs.
- No more 6m or 2m.

FT8 does not yet support the 7QP. It only supports four contests, all with shorter exchanges. If or when it does, FT8 will be an accepted digital mode in the 7QP.

Dick Frey, K4XU
7QP contest manager

2019 7th Call area QSO Party Rules:

1300 UTC Saturday to 0700 UTC Sunday (6 AM to midnight PDT the first Saturday in May). 7th call area stations work everyone, others work 7th area stations only. Work stations once per band/mode. 7th area mobiles (and those participating in other concurrent QSO parties or contests) may be worked again as they enter new counties. Rule changes are shown in ***bold italic***.

Entry categories:

- Single-op: high-power, low-power <150W, QRP <5W; CW, Phone, Digital, Mixed
- Single-op Assisted: high-power, low-power, QRP; CW, Phone, Digital, Mixed
- Multi-single: high-power, low-power
- Multi-multi. No differentiated mode or power levels
- 7th-area County Expedition (an operation from a temporary location using antennas installed for the contest period, using temporary supports or trees): either
    - single-county, county-line; single-op (unassisted), multi-single (including single-op assisted), multi-multi; or
    - open (anything else, including location changes)
- Mobile (station self-contained and capable of motion): single-op (unassisted -- performs all operating, logging and driving; for safety reasons, should operate only while parked), multi-single (any other mobile operation); high-power, low-power; CW, Phone, Mixed. Use of APRS (location and call only) is allowed.

Awards: Certificates will be awarded to the top three finishers in each category within and outside the 7th call area, plus the top finisher in each state/province and 7th area county; a 25-QSO minimum applies. See the website for a list of plaques to be awarded.

Exchange: 7th area stations send signal report plus 5-letter state/county code (e.g., ORDES; see list). County-line stations send multiple codes, e.g., UTRIC/IDBEA (state code needed only once, e.g., ORDES/JEF). Non-7th-area stations send signal report plus state/province/"DX" two-letter codes. Stations in other QSO parties send their appropriate exchange. The 13 "Provinces" are VE1-9, VO and VY0-2. County-line contacts may be logged with one entry showing all counties or with separate entries for each county.

Bands: 160, 80, 40, 20, 15 and 10m ***(no 6 or 2m)***. Suggested operating frequencies: 1815 and 40 kHz up on CW, except on 40m, where 7025-7035 is suggested (a window for mobiles to call CQ should be observed from 35 to 40 kHz up; others should not call CQ or run stations there); 1845, 3855, 7180, 14255, 21355 and 28455 on SSB; ***80 kHz up on PSK; 86 kHz up on RTTY***. Check 80m at 0500Z, 160m at 0530Z. All CW and Digital contacts must be in the CW/Data sub-bands.

Scoring: 2 points per SSB QSO, 3 points per CW QSO, ***4 points per Digital QSO***. County-line contacts count as multiple QSOs for both stations. 7th area stations multiply total QSO points by the total of states (50), provinces (13) and other DXCC entities (maximum of 10). Non-7th-area stations multiply total QSO points by 7th area counties worked (259).

Logs: ***All logs must be received by May 15***; logs containing more than 40 QSOs must be submitted electronically via email or floppy disk. Send logs to 7qplogs@codxc.org -- include the station callsign in the email "Subject" line. Cabrillo preferred (7QP details here) but any plain text format will be accepted. A web form is available for online Cabrillo log-file generation and submission. Be sure your entry includes name, address and/or email address, station callsign, entry category, location code(s) and operator callsigns *(if Cabrillo, they should appear within the Cabrillo attachment itself; the log processor ignores the rest of the*

message). Send paper logs with a completed summary sheet to 7th Call Area QSO Party, c/o CODXC, 61255 Ferguson Rd, Bend, OR 97702. Check to make sure your callsign, *with correct entry category*, appears on our website's Received Logs page -- normally within two days of receipt.

7th Call Area QSO Party Rules (continued)

Other: All equipment and antennas must lie within a 1000-foot diameter circle. County-line operations must be within 500 feet of the county line. Any computer-to-computer mode is considered digital. The same station may be worked on each band on CW, Phone, and Digital. All contacts must be made without using repeaters, digipeaters, satellites, etc. Only one entry per callsign (can't do, e.g., mobile and expedition entries).

Help: On the website at http://7qp.org are these complete rules; FAQs (*please read*); lists of county names and abbreviations: state/county maps; county sign-up sheet; summary sheet; state coordinators; logging-program info and configuration files; list of plaques and donors.

Here is a Handy Electronic Formula wheel

			Month/Year:				**XXX/2018**									**Location: Missoula, MT**	
		Date:	J	F	M	A	M	J	J	A	S	O	N	D	YR		
	Operator	Name:														**Updated: 9 Jan 2019**	
	Start	Time															
	CALL	Suffix														NAME	CITY
A	N7	ANU											1	1	Chris Holliday	Missoula
	KJ7	AVR									1			1	Dennis Toavs	Columbia Falls
B	KG7	BDD	2	1	1									4		
	KF7	BQ		1	3	3	3	1		5	2	2	3	23	Terry Cook	Missoula
	KI7	BUM					1	Moved out of State						1	John Updegraff	
C	KF7	COM	1	1		1								3	Ed	Corvallis
	N5	CY									1	2		3	Jim Hofmann	Missoula
D	K7	DDE	4	4	4	3	5	3	2	1	2	4	4	4	40	Dallas Erickson	Stevensville
	N7	DLP	5	2	2	2	5	3	1	4	1	5	4	3	37	Dean Pond	Missoula
	N7	DWB	1												1	Dan Boldra	Frenchtown
E																	
F	AG7	FH					1	3	2	1	3	1	1	12	Joe Geldrich	Missoula
G	N7	GE				1								1	Jerry Ehli	Missoula
	KF7	GZR	5	2	2	2	4	3	2	4	2	5	4	3	38	Sandra Pond	Missoula
H	KI7	HVG	1	1	1		2			1	1	1	4	12	Robert	Stevensville
I	KI7	IJP	1											1	Michael (Mike) Standon	Columbia Falls
	KC7	ILD	1											1	Joseph	Missoula
	K7	IMZ							1	1	2			4	Jerry Nelson	Missoula
	N7	IMC							1					1		
J	N7	JGS	5	4	4	4	3	3	4	5	4	5	4	4	49	Jerri Shuey	Missoula
K	N7	KOA		1	2		2	1		1	2			9	Steve Marshall	Missoula
	KG7	KGE							1					1	Louie	
L	KF7	LCC	1											1	Mike Fell	Superior
	KI7	LEX	3	1	3	2								9	Bill Campbell	Conner
	KI7	LMV		1	2		2	1		1	2	4	2	2	17	Bryce Rowe	Missoula
	N7	LT							1					1	Lydel	Kalispell
M																	
	K7	MSO										1	1	1	Mike Leary	Missoula
	K7	MTD	5	3	4	3	5	2	2	4	4	4	1	4	41	David Herzberg	Missoula
N	KC7	NYE		1										1	James Olson	Missoula
O	WB7	OTC					1	SK						1	Bruce McCloskey	Missoula
P	N7	PAS	5	4	4	4	3	3	4	5	4	5	4	4	49	Paul Shuey	Missoula
	KD0	PUI	2	1	2					1	5	3	2	16	James (Jim) B French	Whitefish
Q	KC0	QBH										1		1	Trent Smith	Missoula
	K7	QNZ	2	1	2	4	3		3	5	4	4	4	3	35	Rich Kingdon	Missoula
	KB7	QQ	2											2	Jerry Reynolds	Lolo
R	AF7	RQ	2		1		1				1			5	Bryce Nordgren	Alberton
	KD7	RQQ	1											1	Rudi Mauldin	Seeley Lake
S	NZ7	S	5	4	1	2	3	2	3	3	2	3	3	4	35	Eric Sedgwick	Missoula
T	KI7	THQ			4	2	2	1	1	3	3	5	2	3	26	Ernie	Hamilton
	W7	TYY							1					1	Ty Marbut	Missoula
	WA7	TZP	3	1	1	1	3	3	2					14	Bob Lankston	Missoula
U																	
V	K7	VK										1	1	2	Vick Applegate	Missoula
W	K7	WJP							1	2	2	3	8	Walt Pippo	Drummond
	KC5	WRA	1	1	1	1	1	1	1	2	1	1	1	1	13	Donna Pecastaing	Bonner
X	N7	XLB	5	4	2	4	5	2	4	4	4	3	4	4	45	Dale Carson	Missoula
	N0	XPO	2	1		1	3		1	2	2	2	3	1	18	Jim Brummit	Victor
	W7	XT	1	2	1									4	Dick Walton	Missoula
Y	W4	YMA	2	1		1	3	3	4	5	4	2	1	2	28	Bill Farrell	Missoula
	WA7	YYB	4											4	Chuck	Missoula
Z	KG7	ZGE	1		4	1	2	2	2					12	Louie (Richard Lewis)	Columbia Falls
	KG7	ZNG		2	1	1		1						5	Kent Fullerton	Moiese
															0		
Visitors	N7	PMS		1								1	2	Mike Standon	Columbia Falls
	KI7	UUY		1										1	Bruce Wann	Kalispell
	AF2	D			1						1			2	Thomas Brownlee	VA
	KB5	KN			1									1	Ken Binnie	TX
	K5	KTL				1								1	Katie Lehmann	TX
	KZ1	O				1								1	David Bushong	NH
	WA7	CHF				1								1	Tom Fields	WA
	KF5	ZFF				1								1	Mark Lehmann	TX
	KK6	RRP					1							1	Johnathan Farnsworth	Bigfork
	N0	ANN						1						1	Lewis Luke	IA
	KI4	AGD						1						1	Michael Matthews	FL
	KJ7	AVR						1						1	Dennis Toavs	Columbia Falls
	W7	PLM							1					1	Paul Matthews	OR
	WB7	OSG						1						1	John Rettenmayer	Missoula
	KF7	VQO								1				1	Gary Poberts	Whitefish
	KI7	MFB								1				1	Ben Hoesl	Charlo
	KJ7	CBJ									1	1		1	Paul Wisniewski	Missoula
Examples:																	
	Checked In		1	0			1	1								
	NO Check in															
	SUM		73	43	53	46	61	40	42	61	51	73	60	55	658	Monthy/YR Total	
	End	Time															

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

Free Ham Radio Magazines

From: Ken G Kopp

Sent: Friday, January 18, 2019 4:32 PM
To: Ken G Kopp
Subject: Excess Magazines

I have all of the major Ham magazines … several sets in some cases … including an almost complete set of QST. It saddens me to throw them in the trash. They're sorted into stationary boxes by publisher. I don't know if there is an E-Bay market for them and I don't have the "steam" to find out.

I'll give them to anyone interested … just come and get them … all or part.

Pass this message on to anyone you think might be interested.

Ken Kopp - K0PP
1-406-560-1555 (Verizon Cell)
1-406-797-3340 (Home)

January 2019 Attendance and Tentative Meeting Minutes

Attendance: Donna Pecasting KC5WRA, Terry Cook KF7BQ, Eric Sedgwick NZ7S, Paul Shuey N7PAS, Dan Somerlott, KI7HLW, Jerry Ehli N7GE, Rich Kingdon K7QNA, Tom McGinley K7QA, Mike Leary K7MSO, David Hooper KB1BED, Bryce Rowe KC7LMV, David Herzberg K7MTD, Paul Wisniewski KJ7CBT, Dick Walton W7XT, Vick Applegate K7VK.

License Exams: One candidate for Technician Class Passed with a score of 100%.

Refreshments: Donna provided pizza and soda-pop in appreciation of the members who assisted in the HF antenna raising at her home. Thank you Donna.

Monthly Program: Vic Applegate K7VK, presented an excellent multi-media program about an exciting amateur radio activity, "Summits On The Air." SOTA is an award scheme for radio amateurs that encourages portable operation in mountainous areas. Vic explained that the program is designed to make participation possible for all Radio Amateurs and Shortwave Listeners. There are awards for activators (those who ascend to the summits) and chasers (who either operate from home, a local hilltop or are activators on other summits).

Approval of last month's meeting minutes: Minutes were not taken at the Christmas Dinner.

Approval of Treasurer's Report: David K7MTD provided a report and will work up a re-cap of last year and prepare a budget for 2019. Treasurers report was approved on a motion by Donna and seconded by Paul.

Repeater Committee: Eric and Paul reported that the 147.04 repeater is experiencing some problems and suggested that the 146.90 repeater be used until the problem is resolved.

HF Committee: Dick Walton suggested that we consider alternate venues for this year's Field Day. We have used Fort Missoula in recent years but may want to look at returning to Blue Mountain, University Mountain or other location outside of the urban area. We will want to revisit this at the April Meeting.

Additional Business: Discussion about HARC affiliating with ARES, Amateur Radio Emergency Service, to allow us to better serve local officials in an emergency. This would require substantial investment in time for training and coordination. We will revisit this in the near future.

There was also some discussion about the possibility of members receiving Skywarn training. We may consider this in the future.

VHF Net Control Schedule:
January 1 – David K7MTD
January 23 – Paul N7PAS
January 30 – David K7MTD
February 6 – Donna KC5WRA
February 13 – Mike K7MSO

Meeting adjourned. The next meeting will be February 11th.