



FOUNDED 1947

WEST PARK RADIOS



LOG



Web: <http://www.westparkradiops.org>

Email: w8vm-<at>-arrl.net

SKCC #12111

Our Nets 147.36 Mondays 9 p.m. local

April – May
VOL. LIII

2018
No. 3

2018 CLUB OFFICERS

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COMMITTEES

FIELD EVENTS COMMITTEE

PUBLIC SERVICE OPEN	
License Trustee N8WB	
ARRL VE'S AF8C, N8CX, N8WB, W8MET, N8OWS	

ARTICLES THIS TIME

ANTENNA GURU

CLUB AWARDS MGR

CONTESTS, SATELLITES

DX REPORTER

8TH AREA BUREAU LETTER MGR. AF8C (8V)

EDITOR, WEBMASTER

LABELS DATABASE

WEST PARK EVENTS *

*Subject to change

Apr. 6 - BUSINESS MEETING/FIXIT NIGHT*

Bring your questions or answers to the radio problems of the day/week/month.

Apr. 20 - PROGRAM NIGHT*

David Mastny, the IT security leader at CCC, will do a talk on Internet security things to know for your own computer.

May 4 - BUSINESS MEETING/FIXIT NIGHT*

Bring your questions or answers to the radio problems of the day/week/month.

May 18 - PROGRAM NIGHT*

We talk about a topic of major interest currently happening in amateur radio. OR we might do some Field Day planning!

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CONTESTS AND EVENTS

- de WA7BNM & ARRL

- | | |
|-----------|-------------------------|
| Apr 7 | SKCC Weekend Sprint |
| Apr 14 | QRP ARCI Spring QSO |
| Apr 21 | Michigan QSO Party |
| Apr 28 | Florida QSO Party |
| Apr 28 | 10-10 Int. Spring Con |
| May 5 | FISTS Spring Slow Speed |
| May 12 | SKCC Weekend Sprint |
| May 18-20 | HAMVENTION® |
| May 26 | CQ WW WPX Contest, CW |
| Jun ? | ALL SCOUTS WEEKEND |

SOAPBOX

West Park Radiops technical interests include recent new amateur radio technologies, new antenna projects, contesting, and DX, to name a few.

For Public Service, we have the LCAC spring cleaning supplies delivery event on **May 12** and All Scouts Saturday on **June 9***.

Our Monday night nets have moved to the 147.36+ (107.2 PL) repeater at 9 p.m. Listen or check in. Join the fun.

This document was created using LibreOffice 5.4.3.2 and a PDF creator. Use of Microsoft products was limited to as few applications as possible.

FIELD DAY...

It's time to discuss Field Day 2018. Here's some earlier ones. I wonder if any of the guys in the bottom photo are in the top photo.

**1964 POSTAGE...**

(from Mystic Stamp Company writeup)

The U.S. postage stamp [in gray scale on page 1] honors the Amateur Radio Relay League for its important work during the devastating 1964 Alaska earthquake. In the aftermath of this natural disaster, amateur radio operators provided essential emergency communications, which greatly aided relief and rescue operations. Amateur radio operators, often referred to as "hams," continue to serve during emergency situations, especially in places with such sparsely populated areas as Alaska.

WEST PARK PUBLIC SERVICE...

For many years West Park Radiops volunteers have helped LCAC volunteers sort and deliver articles to the needy. As an ARRL Special Service Club, our members assist in this activity every year. **Our next LCAC opportunity will be on May 12.** We can also support other activities on short notice. In general, radio net activity provide virtual public service practice and keeps our radios in tested operation and weeds out problems.

RECENT NETS & TALK...

Club nets have switched over to only using 147.36+ (107.2 PL). Many interesting discussions occur and often with no prior planning. However, you must have a clear shot at the repeater's receiving antenna to use an HT. Please consider your 2m antenna systems and how they perform for the net. We are on 9 p.m. local Mondays.

FUTURE PROGRAMS...

The following topics are on the new list for programs: openSPOT, SharkRF, Dxpeditions, Propagation, FT8 and WSPR modes.

EXPANDING TECHNICIAN PRIVILEGES...

ARRL Requests Expanded HF Privileges for Technician Licensees 02/28/2018

The ARRL has asked the FCC to expand HF privileges for Technician licensees to include limited phone privileges on 75, 40, and 15 meters, plus RTTY and digital mode privileges on 80, 40, 15, and 10 meters. The FCC has not yet invited public comment on the proposals, which stem from recommendations put forth by the ARRL Board of Directors' Entry-Level License Committee, which explored various initiatives and gauged member opinions in 2016 and 2017.

"There has not been such a rebalancing in many years," ARRL said in its petition. "It is time to do that now." The FCC has not assessed entry-level operating privileges since 2005.

BYRD ANTARTICA KEY...

(per ARRL News pages on Web)

2/15/2018

ARRL has received from Lynn Burlingame, N7CFO, the donation of a Kilbourne & Clark Morse key that the late Howard Mason (1ID, 7BU, and K7QB) used to let the world know that Rear Admiral Richard Byrd and his crew had overflown the South Pole for the first time during Byrd's 1928 – 1930 Antarctic expedition. Mason and his 80 colleagues were awarded Congressional Gold Medals for their efforts in establishing the Antarctic outpost "Little America," the first of a series of bases bearing that name.

Mason was a lifelong radio amateur from Seattle who was an active ARRL National Traffic System participant and manager. In 1923, he relocated to Connecticut to serve as an editor of the ARRL's journal, QST. Mason's first polar experience was as a radio operator with the Wilkins-Detroit News Arctic expedition that traversed the North Pole by air in 1928. This led to his selection by Byrd to be a radio engineer with his first Antarctic expedition.



The Kilbourne & Clark Morse key that the late Howard Mason (1ID, 7BU, and K7QB) used to let the world know that Rear Admiral Richard Byrd and his crew had overflown the South Pole for the first time.

CLOSE X

Mason was co-operator of Little America's base radio station, WFA, used to keep in contact with the rest of the world. Mason continued to use the key in his ensuing and varied endeavors. Prior to his death in 1996, he gave the key to Burlingame of Bellevue, Washington, a collector and biographer who generously donated it to the ARRL Heritage Museum. The museum plans to display the key as part of an exhibition tentatively scheduled to open on April 15. The exhibition also will include a large wooden key, engraved with "WFA" and bearing the signatures of some expedition members.

Also on display will be a first edition of Admiral Byrd's book Little America: Aerial Exploration in the Antarctic, the Flight to the South Pole and an album of contemporary newspaper clippings, both part of the Burlingame donation. A complete narrative will be posted to the Heritage Museum Section of the ARRL website. The key and the Little America radio operators can be seen in action in an original film available on YouTube, which offers a first look of the towers erected there (at the 15:00 mark). — Thanks to Michael Marinaro, WN1M, ARRL Volunteer Staff Historian/Archivist



Howard Mason at the WFA radio station in "Little America."

CLOSE X

UPCOMING DX FOR YOU...

(Courtesy of the NG3K website)

Call,Start Date,End Date,DXCC Entity

3B7A,2018 Apr05,2018 Apr17,Agalega & St Brandon
 3B8MM,2018 Mar27,2018 Apr11,Mauritius
 3B8XF,2018 Mar06,2018 Mar23,Mauritius
 3C0W,2018 Mar10,2018 Mar28,Annobon I
 3D2EU,2018 Feb23,2018 Mar16,Rotuma
 3W9CI,2018 Mar18,2018 Mar27,Vietnam
 4V7R,2018 Oct19,2018 Oct29,Haiti
 6W,2018 Apr15,2018 Apr28,Senegal
 7Q7EI,2018 Mar21,2018 Apr03,Malawi
 8P6DR,2018 Mar20,2018 Apr29,Barbados
 8Q7WK,2018 Mar10,2018 Mar22,Maldives
 A52,2018 Apr29,2018 May05,Bhutan
 A5A,2018 Mar14,2018 Mar18,Bhutan
 BW,2018 Jun24,2018 Jun30,Taiwan
 C6,2018 Mar19,2018 Mar26,Bahamas
 C6AKT,2018 Mar08,2018 Mar17,Bahamas
 C8T,2018 May02,2018 May15,Mozambique
 C96RRC,2018 Apr29,2018 May03,Mozambique
 C98RRC,2018 May05,2018 May09,Mozambique
 CT9,2018 Mar08,2018 Apr05,Madeira
 CY9C,2018 Aug01,2018 Aug09,St Paul I
 D44KIT,2018 Mar09,2018 Mar25,Cape Verde Is
 DU1,2018 Mar13,2018 Mar18,Philippines
 E51BCP,2018 Apr15,2018 Apr20,South Cook Is
 EA8,2018 Apr01,2018 Apr28,Canary Is
 FG,2018 Mar02,2018 Mar20,Guadeloupe
 FG,2018 Mar06,2018 Mar20,Guadeloupe
 FJ,2018 Apr18,2018 Apr27,St Barthelemy
 FP,2018 Jul03,2018 Jul17,St Pierre & Miquelon
 FR,2018 Mar05,2018 Mar31,Reunion
 H40D,2018 Apr29,2018 May03,Temotu
 H44R,2018 Apr22,2018 Apr25,Solomon Is
 H44YM,2018 Mar13,2018 Mar17,Solomon Is
 HB0,2018 Apr24,2018 Apr28,Liechtenstein
 HC8,2018 Mar19,2018 Mar26,Galapagos
 HR9,2018 Mar13,2018 Mar18,Honduras
 J3,2018 Jun13,2018 Jun27,Grenada
 J68SL,2018 Mar13,2018 Mar22,St Lucia
 JD1,2018 Mar15,2018 Mar30,Minami Torishima
 JW,2018 Sep20,2018 Sep25,Svalbard
 JW8DW,2018 May26,2018 May29,Svalbard
 KH1,2018 Jun26,2018 Jul06,Baker I
 KH6,2018 May02,2018 Jun01,Hawaii
 KH8,2018 Oct02,2018 Oct29,American Samoa
 KH9,2018 Apr01,2018 Apr30,Wake I
 MJ5Z,2018 Mar16,2018 Mar18,Jersey
 OJ0Y,2018 Jun27,2018 Jun29,Market Reef
 PJ2,2018 Mar07,2018 Mar21,Curacao
 PJ2,2018 Mar13,2018 Mar28,Curacao
 PJ2,2018 Mar14,2018 Mar27,Curacao
 PJ5,2018 Mar13,2018 Mar27,Saba & St Eustatius
 PJ7AA,2018 Jun03,2018 Jun13,Sint Maarten

T2AR,2018 Apr08,2018 Apr15,Tuvalu
 T32AH,2018 Sep12,2018 Oct01,East Kiribati
 T32AZ,2018 Apr17,2018 Apr24,East Kiribati
 T8,2018 Apr17,2018 Apr25,Palau
 T88UW,2018 Apr13,2018 Apr19,Palau
 TJ2TT,2018 Mar15,2018 Mar29,Cameroon
 TN5R,2018 Mar09,2018 Mar19,Congo
 TX5X,2018 Mar10,2018 Mar17,French Polynesia
 TY7C,2018 Mar07,2018 Mar18,Benin
 V31FT,2018 Oct29,2018 Nov08,Belize
 V31GX,2018 Mar06,2018 Mar16,Belize
 V31GX,2018 Mar07,2018 Mar16,Belize
 V47JA,2018 Feb13,2018 Mar16,St Kitts & Nevis
 VK9,2018 Apr09,2018 Apr18,Australia
 VK9LI,2018 May11,2018 May18,Lord Howe I
 VP2EGO,2018 Mar17,2018 Mar24,Anguilla
 VP5,2018 Jun13,2018 Jun25,Turks & Caicos
 VP6D,2018 Oct20,2018 Nov03,Ducie I
 XT2AW,2018 Mar19,2018 Apr15,Burkina Faso
 XT2MAX,2018 Mar23,2018 Apr02,Burina Faso
 XX9B,2018 Mar09,2018 Mar17,Macao
 YJ0AG,2018 Apr17,2018 Apr29,Vanuatu
 YJ0CA,2018 Mar18,2018 Mar24,Vanuatu
 YJ0GA,2018 Jul18,2018 Jul25,Vanuatu
 Z66D,2018 Apr15,2018 Apr22,Kosovo
 ZF2,2018 Mar10,2018 Mar17,Cayman Is
 ZF2PG,2019 Jan12,2019 Jan20,Cayman Is

VARA MODE...

(found on QRZ, another digital mode)

Discussion in 'Amateur Radio News' started by KC9SGV, Feb 18, 2018.

VARA is a new Milspec digital mode adjusted for the U.S. HF (or VHF) ham bands [based on OFDM modulation]. It satisfies all the current FCC legal requirements for HF digital.

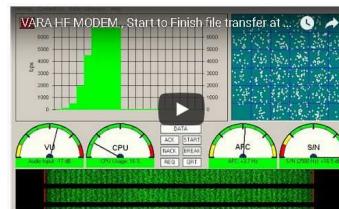
< 300 baud, < 2.4 KHz bandwidth.

52 Carriers in orthogonally spaced subcarriers.

Multiple OS platforms.

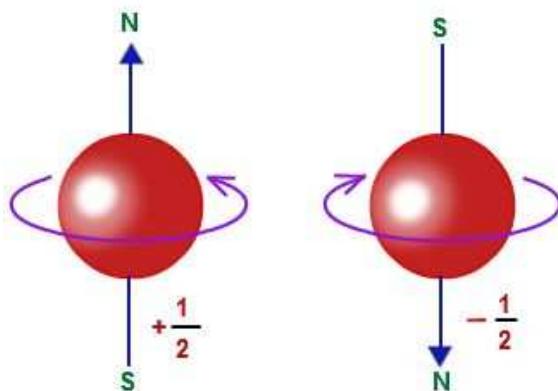
Thrput speeds comparable with P3.....

Full Winlink functionality using the Winlink Express radio email client in Telnet mode. "VARA is a High Performance HF modem based on OFDM modulation. VARA Modem, brings state of the art Military grade technology to new and existing HF data. Introduces a new standard of technology available for Amateur and Commercial use. Designed for operation within a SSB Bandwidth of 2400 Hz."

< <https://rosmodem.wordpress.com> >Bernie, KC9SGV < <https://www.sigidwiki.com/wiki/ROS> >

MAGNETIC FIELDS...

(some diagrams from Wikipedia® or from Internet scans by Google®)



NOTE: the following discussion is sort of a lay person's outline of real physics inside material objects. There is no intention here of telling a story that is accurate in every detail.

For atomic particles it's helpful to visualize as in the above image the "spin" of particles such as electrons in atoms. While it is NOT actually true that the particles are spinning in space, for the purpose of this discussion we can talk about something like that.

The spin is also described as a "quantized magnetic moment" that can have one of two values, either $-1/2$ or $+1/2$. If you have a particular material where all the billions of such particles that have somehow been treated so that all the magnetic moments line up in the plus direction, or in the minus direction, the net effect is that the outside of the material appears to have a virtual "current" around it, even though in actuality there is no current to be measured. (If there were a real current, with the material having resistance too, then Isquared-R heat would be occurring, without any source of energy, and that's impossible.)

However, by one of the results of Maxwell's Laws of Electromagnetism, the virtual current that would appear as a lot of electrons flowing in a circle would result in the whole mass having a magnetic field.

When current flows in a wire (or free electrons in space) the electrons are moving. Similarly, if a body is made up of coiled wire, and some of the electrons in the metal are "hopping" in the same direction through the metal (otherwise known as "current") then with all the magnetic

moments moving, Maxwell's Laws again predict a magnetic field.

In reverse, if an object has an observable magnetic field, the field is due either to a current of electrons flowing in the same direction or a virtual current within the body.

In free space, a real magnetic field cannot exist without that flowing current. Any attempt to stop the current will result in electric fields stopping the particles, and the faster the particles are stopped, the more the electric field (voltage). (And thus the spark coil, etc.)

Inside metals with virtual currents, there are actually four named types of magnetic materials. (Probably all elements fit into these lists. But I show only common metals.)

Ferromagnetic – Iron, Cobalt, and Nickel; LARGE

Anti-Ferromagnetic – Chromium; WEAK

Paramagnetic - Aluminum, Magnesium, Titanium; WEAK

Diamagnetic -- Silver, Copper, Cadmium, Tin; WEAK

What's a "Kessler Syndrome"?...

(Based on an item on 03/13/2018 by the ARRL)

In January 2018 with a launch of an amateur radio satellite from India, some extra .25U CubeSats called SpaceBEES went along with the ride. Those objects were from the U.S. and taking that ride, but they were not approved by the FCC. They were developed by Swarm Technologies Inc. of Los Altos, California. The FCC said the spacecraft were below the size threshold "at which detection by the Space Surveillance Network (SSN) can be considered routine."

In other words, unapproved tiny spacecraft might collide with a larger spacecraft being launched, because the small objects are too small to be noticed by the Space Surveillance Network. The implications also reflect on the theoretical problem that with more and more space "junk" floating around, more and more collisions of junk with working spacecraft could occur, turning into a domino effect chain reaction. That is the Kessler Syndrome.

WEST PARK RADIOPS



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MEETINGS: WEST PARK RADIOPS ARC meets the FIRST and THIRD Friday evenings each month at
Cuyahoga Community College West Campus in the Public Safety Training Center, 11000 Pleasant Valley Dr. at 7:30 PM sharp.

Dues \$15/yr. We welcome anyone interested in amateur radio to our meetings.

We operate Monday night nets on 147.36 MHz at 9:00 p.m. local time.

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