

FOUNDED 1947

WEST PARK PADIOPS









Web: http://www.westparkradiops.org

Email: w8vm-<at>-arrl.net

SKCC #12111

Our Nets 147.36 Mondays 9 p.m. local

Feb. - Mar. VOL. LIII

2018 No. 2

2018 CLUB OFFICERS

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N8WB

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AF8C

WA8NVW

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FIELD EVENTS COMMITTEE

PUBLIC SERVICE OPEN

License Trustee N8WB



ARRL VE'S AF8C, N8CX, N8WB, W8MET, N8OWS

ARTICLES THIS TIME N8WB

ANTENNA GURU W8PN

CLUB AWARDS MGR W8IDM

CONTESTS, SATELLITES N8WS, W8IDM

DX REPORTER N8WS

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

EDITOR, WEBMASTER AF8C

LABELS DATABASE N8CX

WEST PARK EVENTS

*Subject to change

Feb. 2 - BUSINESS MEETING/FIXIT NIGHT*

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

Feb. 16 - PROGRAM NIGHT*

It's time to start planning for the 2018 ARRL Field Day. Where? What class? How many transmtters. What do we want to accomplish this year?

Mar. 2 - BUSINESS MEETING/FIXIT NIGHT*

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

Mar. 16 - PROGRAM NIGHT*

We talk about a topic of major interest currently happening in amateur radio

IN THIS ISSUE

Page 2: Field Day Past

Club Nets Public Service

Parity Act H.B. 555

Page 3:

ARRL News Numbers Stations Fox-1D Earth Photos ZD8Z Emergency Page 4:

Upcoming DX
Past Famous Hams

Page 5:

Electromagnetic Waves & Antennas

CONTESTS AND EVENTS

- de WA7BNM & ARRL

Feb 4	North Am. Sprint,	CW
Feb 10	CQ WW RTTY WPX	

Feb 10 SKCC Weekend Sprint Feb 17 ARRL Inter. DX CW

Feb 24 North Am. QSO, RTTY

Mar 3 ARRL Inter. DX SSB

Mar 10 Stew Perry Challenge Mar 10 SKCC Weekend Sprint

Mar 17 BARTG HF RTTY

Mar 24 CQ WW WPX Contest, SSB

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 two LCAC food drive events in late fall. The December event is on the 16th.

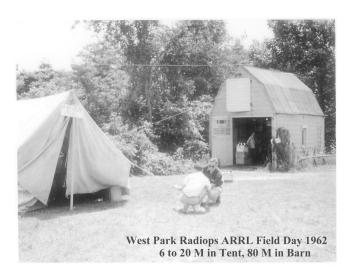
Our Monday night nets have moved to the 147.36+ (107.2 PL) repeater at 9 p.m. Listen or check in. Join the fun.

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 MEMORIES...

It's time to discuss ARRL Field Day planning for 2018. Perhaps the following images will prompt some new planning.

Otherwise, it's entertaining to see what the club used to do.



The following image is from 1964. Can you name the participants as shown here.



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 at 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.

PARITY ACT...

Summary:: The Amateur Radio Parity Act of 2017 House Bill 555

(Sec. 3) This bill directs the Federal Communications Commission (FCC) to amend station antenna structure regulations to prohibit a private land use restriction from applying to amateur radio stations if the restriction:

- precludes communications in an amateur radio service.
- fails to permit a licensee of amateur radio service to install and maintain an effective outdoor antenna on property under its exclusive use or control, or
- is not the minimum practicable restriction to accomplish the lawful purposes of a community association seeking to enforce the restriction.

Before installing an outdoor antenna, however, an amateur radio licensee must obtain a community association's prior approval. A community association may: (1) prohibit installations on common property not under the exclusive control of the licensee, and (2) establish installation rules for amateur radio antennas and support structures.

West Park Radiops LOG

NUMBERS STATIONS...

(per ARRL News pages on Web)

01/22/2018

Secretive "Numbers Stations" Persist on HF

For many years, unidentified radio broadcasts have been transmitting coded messages, using numbers, such as "6-7-9-2-6. 5-6-9-9-0." Even today, tuning across the HF spectrum typically will yield a "numbers station," a mechanical-sounding voice (male or female) methodically announcing groups of single-digit numbers for minutes on end. According to Radio World, you may have tuned into a spy agency's numbers station transmitting coded instructions to their minions worldwide. Shades of "The Americans" TV spy drama, where characters routinely receive coded messages via radio.

Numbers station transmissions typically consist of a voice "reading out strings of seemingly random numbers," explained Lewis Bush, author of Shadows of the State, a new history of numbers stations. "These are sometimes accompanied by music, tones or other sound effects," he said. Paul Beaumont, an associate editor of Eye Spy Intelligence Magazine, a publication dedicated to espionage and intelligence, is quoted in the Radio World article as saying, "Voice (numbers) stations are known to be spy messages."

The article said that one of the best-known numbers stations was "The Lincolnshire Poacher," so called due to its use of "The Lincolnshire Poacher" folk song played on a pipe organ as an identifier. Radio amateurs used direction-finding equipment to pin down the station's eventual location to an RAF base on Cyprus, the article said.

FOX-1D PHOTOS OF EARTH...

(per ARRL News pages on Web) 01/17/2018

Camera Aboard Fox-1D Satellite Returns Photos of Earth

The Virginia Tech experimental camera payload on the Fox-1D satellite (AO-92), launched on January 12, has returned some very clear photos of our planet as seen from low-Earth orbit.

Earthbound followers of the newly launched satellite can use the FoxTelem software (v 1.05), with the source set to "Auto" to receive either high-speed frames carrying camera payloads or data under voice (DUV) frames when the satellite is in Safe Mode or Transponder Mode. The camera is not active at all times. If using an external audio source

for FoxTelem, set a minimum bandwidth of 20 kHz to receive the high-speed data. AMSAT reports the Fox-1D Amateur Radio transponder works very well.

ZD8Z EMERGENCY...

(per ARRL News pages on Web) 01/08/2018

ZS8Z on Marion Island Off the Air, Science Team in Survival Mode

David Hartzenberg, ZS1BCE, on his second tour at a Marion Island research station as part of the South African National Antarctic Program for more than a year now, reports that he has been off the air as ZS8Z since last November, when generator fuel at the Transvaal Cove base was restricted to essential purposes, and he doesn't expect to get back on the air before departing in May.

Food also is in short supply, just one functioning generator remains, and the satellite system is down most of the time. "Surviving now is our biggest challenge," Hartzenberg said.

The South African Sunday Times reported on January 7 that the Department of Environmental Affairs told the 20+ member science team the government could not afford to send a supply ship, and counseled the researchers to tough it out at emergency quarters.

The situation has led to frayed tempers, the newspaper reported, with one team member turning violent. An Indian relief ship is reported to be on the way with food and fuel.

The newspaper said the Department of Environmental Affairs played down the seriousness of the situation, claiming the reported unhinged team member was "suffering strain," and that the provisioning calamity was an inventory error that resulted in canned food going out of date. A vessel from South Africa is expected in April for the crew change-over. — Thanks to Southgate Amateur Radio News via Tom Morgan, ZS1AFS, and to The Daily DX

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UPCOMING DX FOR YOU...

(Courtesy of the NG3K website)

Call, Start Date, End Date, DXCC Entity

3B7A,2018 Apr05,2018 Apr17,Agalega & St Brandon 3B8XF,2018 Mar10,2018 Mar11,Mauritius

3D2EU,2018 Feb23,2018 Mar16,Rotuma

3Y0Z,2018 Jan25,2018 Mar14,Bouvet I

4B4B,2018 Mar01,2018 Mar15,Revilla Gigedo

6W,2018 Feb01,2018 Feb28,Senegal

7Q7EI,2018 Mar21,2018 Apr03,Malawi

8P9CA,2018 Jan18,2018 Feb05,Barbados

9M0W,2018 Mar10,2018 Mar20,Spratly Is

C5DX,2018 Feb09,2018 Feb16,Gambia C6A,2018 Mar06,2018 Mar13,Bahamas

C6AGU,2018 Mar06,2018 Mar13,Bahamas

C8T,2018 May02,2018 May15,Mozambique

C9,2018 Jan28,2018 Feb05, Mozambique

C96RRC,2018 Apr29,2018 May03,Mozambique

C98RRC,2018 May05,2018 May09,Mozambique

CN2,2018 Feb13,2018 Feb20,Morocco

CU8FN,2018 Jan22,2018 Feb16,Azores

CY9C,2018 Aug01,2018 Aug09,St Paul I

D68I,2018 Jan28,2018 Feb10,Comoros

DU1,2018 Mar13,2018 Mar18,Philippines

FG,2018 Jan29,2018 Mar15,Guadeloupe

FJ,2018 Apr18,2018 Apr27,St Barthelemy FK,2018 Feb17,2018 Feb27,New Caledonia

FM,2018 Feb18,2018 Feb28,Martinique

H40,2018 Apr22,2018 Apr25, Solomon Is

H40,2018 Apr29,2018 May03,Temotu

H40YM,2018 Feb27,2018 Mar13,Temotu

H44YM,2018 Feb24,2018 Feb27,Solomon Is

H44YM,2018 Mar13,2018 Mar17,Solomon Is

H7DX,2018 Feb26,2018 Mar06,Nicaragua

HB0,2018 Apr24,2018 Apr28,Liechtenstein

HC1MD,2018 Jan20,2018 Feb10,Ecuador

HP8,2018 Feb01,2018 Feb15,Panama

J3,2018 Jun13,2018 Jun27,Grenada J68HZ,2018 Jan20,2018 Feb03,St Lucia

JD1BNA,2018 Feb02,2018 Feb05,Ogasawara

JW8DW,2018 May26,2018 May29,Svalbard

KH0,2018 Feb21,2018 Feb28,Mariana Is

KH1,2018 Jun01,2018 Jun30,Baker I

KH6,2018 Mar01,2018 Mar08, Hawaii

KH8,2018 Oct02,2018 Oct29,American Samoa

MT0IXD,2018 Feb09,2018 Feb12,Isle of Man

OJ0,2018 Jun27,2018 Jun29,Market Reef

P29VXG,2018 Feb01,2018 Feb07, Papua New Guinea

PJ2,2018 Jan16,2018 Feb08, Curacao

PJ2,2018 Mar14,2018 Mar27,Curacao

PJ4,2018 Feb10,2018 Feb24,Bonaire

PJ7AA,2018 Mar05,2018 Apr04,Sint Maarten

PY0,2018 Jan27,2018 Feb01, Fernando de Noronha

T8,2018 Apr17,2018 Apr25,Palau

T8,2018 Feb13,2018 Feb21,Palau

T88UW,2018 Apr13,2018 Apr19,Palau T88XS,2018 Feb01,2018 Feb05,Palau TG9,2018 Jan24,2018 Feb19,Guatemala TN5R,2018 Mar09,2018 Mar19,Congo

TX5X,2018 Mar10,2018 Mar17, French Polynesia

TY,2018 Mar07,2018 Mar18,Benin

TY1TT,2018 Feb20,2018 Feb28,Benin

V31GX,2018 Mar07,2018 Mar16,Belize

V31JZ/p,2018 Feb08,2018 Feb14,Belize

V31VP,2018 Feb08,2018 Feb12,Belize

V47JA,2018 Feb13,2018 Mar16,St Kitts & Nevis

V47UR,2018 Jan29,2018 Feb12,St Kitts & Nevis

VP26PE,2018 Feb13,2018 Feb27,Antigua

VP2EGO,2018 Mar17,2018 Mar24,Anguilla

VP5,2018 Jun13,2018 Jun25, Turks & Caicos

VP6D.2018 Oct20.2018 Nov03.Ducie I

XR0YD.2018 Mar02.2018 Mar15.Easter I

XT2MAX,2018 Mar23,2018 Apr02,Burina Faso

XV9HL,2018 Feb26,2018 Mar06, Vietnam

XX9B,2018 Mar09,2018 Mar17,Macao

YJ0AG,2018 Apr17,2018 Apr29,Vanuatu

Z2LA,2018 Mar02,2018 Mar11,Zimbabwe

Z60A,2018 Jan21,2018 Feb04,Kosovo

Bold faced lines are some of the entities listed in the top of the Club Log most wanted list.

PAST FAMOUS AMATEUR OPS...

(from < http://www.qsl.net/w5www/famous.html">http://www.qsl.com/famous-ham-radio-operators.html > &http://www.dx-qsl.com/famous-ham-radio-operators.html >

KB2GSD Walter Cronkite WB4KCG Ronnie Milsap

K4LIB Arthur Godfrey WD4LZC Larnelle Harris

KD4WUJ Patty Loveless K4ZVZ Paul W. Tibbets

KA6HVA Burl Ives WB6ACU Joe Walsh

K6DUE Roy Neal

W6EZV Gen. Curtis LeMay

N6KGB Stewart Granger WB6RER Andy Devine

K7UGA Barry Goldwater FO5GJ Marlon Brando N6YOS Priscilla Presley WD4LZC Larnell Harris

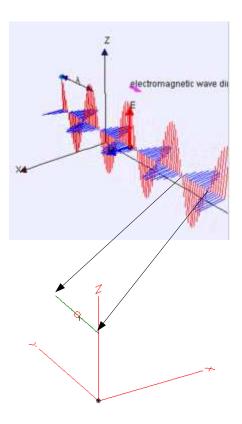
W5LFL Howard Hughes

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ELECTROMAGNETIC WAVES...

(some diagrams from Wikipedia[TM])

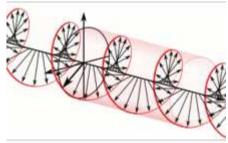
It's helpful to visualize the shape of electromagnetic (EM) waves over time as they propagate in a straight line from the source.



A dipole antenna (using EZNEC) with source in the middle of the wire (i.e. power from transmission line comes from the transmitter). A half-wave dipole must "fit" the size of half the wave, allowing for propagation time in the media of the antenna. Usually that time is considered to be nearly the speed of light: about 300,000 kilometers per second. Thus 300,000,000 meters per second on 14 megaHertz is 21.4 meters per cycle, which we call "twenty meters". (Divide 300,000,000 by 14,000,000.)

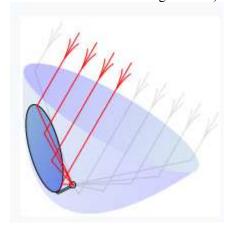
Note that a source of EM waves that is a long way from the receiver will appear to have a large number of these waves that are all in synchronization, and thus will resemble a nearly flat "plane" surface of wavefronts moving toward the receiver. Common names for "polarization" apply to where the electric field (E) component (for example) is either vertical or horizontal as it moves along (as in the diagram to

the left). However there can be rotation of the E field from the antenna that is screw shaped as in the diagram below.



This example is "circular" polarization and it can be either left hand rotation or right hand rotation. An antenna that is receiving circularly polarized waves must match the left- or right-ness of the waveform in order to capture the energy from the wavefront.

Below is an example of a parabolic reflecting surface of a satellite dish antenna reflecting the plane wavefronts into the tiny receiving horn where coaxial or tubular transmission line carries the waveform into the electronic detection circuitry. (This is named a "gregorian reflector" named after astronomer James Gregory in the 17th century, for the target of the focused waveforms being off center from the collecting surface.)





Radio telescope at Green Bank Observatory in WV.

WEST PARK RADIOPS



PUBLISHED BI-MONTHLY BY WEST PARK RADIOPS AMATEUR RADIO CLUB, INC. ---A NON-PROFIT SCIENTIFIC AND EDUCATIONAL CORPORATION, FAIRVIEW PARK, OHIO.
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.

http://www.westparkradiops.org mailto:w8vm<at>arrl.net





