The January 8th club meeting was held on the air by club President Denney N6HV using the Sulphur Mountain Repeater, on 145.200 MHz with a minus offset and a PL of 127.3 Hz. A Zoom meeting followed the on-the-air net. Our president announced "Small Talk" as the topic and himself as the presenter. Please check our website, K6MEP.org, for any announcements.

The February 12th club meeting will be held on the air by club President Denney N6HV using the Sulphur Mountain Repeater, on 145.200 MHz with a minus offset and a PL of 127.3 Hz. A Zoom meeting will follow the on-the-air net. Our president will announce the topic and presenter. Please check our website, K6MEP.org, for any announcements.

Reese West KQ6TT has agreed to pen a "Thoughts from the West" column in our Keyer; this month's article is entitled "A Layman's View of the Universe". We are grateful to have a multi-patent inventor and ham operator share his insights with us.

Several members of the club got together for a Winter Outing Day (January 30) at Marina Park. Many thanks to Pedro KE6MIL for singlehandedly organizing the outing, setting up the equipment and providing water, hand sanitizer, wipes, etc. as well as his Icom 7300 transceiver, antennas, battery power, etc. Stewart KG6BOV brought his Go Box and assorted antennas, Clem KM6OKZ, brought his Go Box and showed a great spirit in walking through the grass to the station (with his knee still bandaged). A great time was had by all. Photos of the event are at the back of the Keyer.

Club Officers	And Keyer	Contributors
President	Denney Pistole	N6HV
Vice-President	Clem Alberts	KM6OKZ
Secretary	Open	
Treasurer	John Gartman	W6JPG
Board Member	Stewart Stone	KG6BOV
Board Member	Robert Shank	KM6RSS
Board Member	Richard Abbey	WB6AEW
Photographer	Denney Pistole	N6HV
Facilities	Richard Abbey	WB6AEW
Keyer Editor	Robert Shank	KM6RSS
Webmaster	Robert Shank	KM6RSS
Domain	Phil Cohen	WA6BUZ
Membership	Open	
License Trustee	Stewart Stone	KG6BOV
QSL Manager	Ben Holmes	K6QV
Safety Officer	Open	
Local Area Net	Wayne Woodhams	N6WIX
ACS/ARES	Rob Hanson	W6RH
SB Section	John Kitchens	NS6X

The Inside Story

The ***KEYER*** is published monthly by K6MEP, the Ventura County Amateur Radio Club, Inc. as a means of providing club members the minutes from K6MEP's monthly general membership meetings, the monthly board of directors' meetings, a calendar of events and articles of interest on amateur radio. Layout and logos are the property of The Ventura County Amateur Radio Club, K6MEP. The stories printed in this journal remain the property of the writers, without whom we would not have a publication. Permission to reprint articles should be obtained from the authors. Articles and photos from the ARRL are reproduced with permission. Material submitted for inclusion is encouraged. Submit material by email to KM6RSS@gmail.com. Our club mailing address is **K6MEP, PO Box 2103 Oxnard, CA 93034-2103**K6MEP holds general membership meetings at 7:30 PM on the 2nd Friday of each month (except December). Dues are $20 per year.

Message from the President

The Prez Sez,

In the last Monday night net someone asked what is the proper way to sign off, is it 73 or 73s.

The answer is either. I had to butt in and relate that 73 was part of the old telegraph alphabetic code. (see; http://www.civilwarsignals.org/pages/tele/wurules1866/92code.html). 73 stood for Best Regards and is in an 1859 list from Western Union. The codes were in use before the Western Union document. Western union was formed from two different telegraph companies trying to build the transcontinental telegraph line. Telegraph operators, very quickly, figured out how to shorten messages. Telegraphers' paralysis was a common problem and we call this carpel tunnel syndrome today. Another short cut was to send u for you. Kids think they are so modern for sending c for see in a text message and don't realize that it was common to do this over a hundred and sixty years ago, before the civil war. Most of the old telegraphic alphabetic codes now have Q signals that mean the same thing and are used instead. Q signals are an international standard where the short hand telegraph signals could be unique to the telegraph company. The Google site leaves out a bunch of the codes, like, what did 72 mean? By the way, there were strict instructions that the short hand aberrations were never to reach the recipient of the telegram.

To start an argument, just tell someone that OK is from Oll Kerrect (it's a Bulgarian term and means all right (correct)) and was used by American telegraph operators before 1840 as part of the procedural signals, the signals sent between operators. This signal is part of what we would call a check sum. The sending operator would send the number of words at the start of a message and the receiving operator would send a procedural signal back that the number of words he copied matched.

The early telegraph system did not have amplifiers. It used what we now call electromagnetic relays; the relays supplied power from local batteries to send the power from the local batteries down the next section of line. A telegraph signal could travel a couple of hundred miles on a dry day. The relays only allowed a signal to travel one way.

If the receiving operator wanted to send a signal back to the operator that sent the message, he sent a procedural signal and a man or boy at each relay point or telegraph office between the **(Cont. on page 3)**

Message from the President

(Cont. from page 2)

two operators would throw a switch and allow the signal to go the other way. Imagine standing for 10 to 12 hours (eight hours work days did not become law until the 1920s) throwing a knife switch when you heard a particular signal.

Thomas Edison developed the Quadruplex telegraph that allowed the sending of messages both ways, without the need for a switch boy. He made a fortune with that invention and used the money to set up his lab at Menlo Park.

So much for the history lesson. There will be a test in the next newsletter.

The sun started out cycle 25 with a bunch of activity, but for the last 12 days (as I write this) the sun has been quiet. The experts are auguring whether we will have a very active cycle with lots of sun spots or if this solar cycle will have a low sun spot count. The sun going quiet at the start of a solar cycle in not unusual. I say, we don't know what will happen next, but work them while you can.

There has been several Coronal Mass Ejections (CMEs) in the last couple of weeks, but they missed the earth. These CMEs could enhance propagation or wipe it out (at least for a short while). The CMEs made for some great pictures on https://www.solarham.net/.

Paul Strauss has been hard at work on the new repeater for South Mountain. You may have heard him testing it when he used it to check-in to the club's Monday night two meter net.

The club needs someone to step forward and volunteer to be the club's secretary. Please contact the club's board at k6mep@qsl.net if you're interested.

73 Denney N6HV

K6MEP Monday Night Net by Denney N6HV

The following hams won the 2020 Monday Night Net contest:

Name	#check-ins	Award	Notes
Dave AI6VX	48	($100/2)	Donated back to club for needy hams
Robert KM6RSS	48	($100/2)	Donated back to club for needy hams
Burt KA6BJA	46	$50	
Rod KA6GSU	45	$25/3	
Stewart KG6BOV	45	$25/3	Donated back to club for needy hams
Clem KM6OKZ	45	$25/3	Donated back to club for needy hams

73, Denney N6HV

VCARC 01/08/21 On-The-Air Club Meeting

Minutes of the K6MEP on-the-air club meeting 1-8-2021

The check-ins started at 19:00 and there were 18 check-ins.

No old or new business was raised by the members in attendance

As we went through the round table where those who check-in gets to talk about what they have been up to we got to talking about leaks in reverse osmosis machines. I have had problems with install the plastic water lines too. It seems that everything is tight and not leaking, but a few minutes later the leaks start again. One of the better suggestions was from Pedro KEMIL, he said to get the cutter from PEX, the manufactures of the plastic pipe. Using a knife or razor blade can crush the pipe and leave an uneven end on the pipe

A new ham had a question about emergency services. Stewart jumped in and provided some information on ARES. We are hard at work generating a new member/new ham packet that will contain information on this and other subjects. If you have any questions about emergency services please email k6mep@qsl.net and you may become a beta reader for our handout.

I find it amazing that club members are constantly stepping forward to help new hams and existing members. Remember if you are having problems with getting on the air, your equipment or other ham related problems you can ask your questions at the Monday night net, at the club meetings or email k6mep.org.

Near the end of the round table Paul WD6EBY gave an overview of digital and emergency communications capability of repeater in the area. I have concerns that the Oxnard plain is surrounded by mountains and there are no line of sight paths out of the plain, we have to depend on repeaters to contact Los Angeles and beyond.

Paul explained that there are 144 MHz and 223 MHz packet links in place. There's also Winlink servers and store and forward boxes at the repeater sites. Soon there will be Winlink Vara link at South Mountain site.

We also had a discussion about NBEMS, a system I'm not familiar with. If you have a computer and a radio you do not need a modem or other equipment. You just hold the microphone from your radio to the speaker of the computer to send a message. I later found out that NBEMS is also called MT-65. Information on NBEMS can be found at n6nnw.net & www.scirainc.org.

73, Denney N6HV

Selected February Contests & Special Events

The following contests and special events caught your editor's eye. This is by no means a complete listing. Please see QST or the ARRL website (www.arrl.org) for any details and QSL information.

School Club Roundup

About School Club Roundup

Overview –

- **Dates**

There are two School Club Roundups during each school year in October and February. Each 5-day event runs Monday through Friday from 1300 UTC Monday through 2359 UTC Friday. A station may operate no more than 6 hours in a 24-hour period, and a maximum of 24 hours of the 107 hour event.
October Session: The third full school week of October.
February Session: The second full school week of February.

February Session: February 08-12, 2021

(Cont. on page 6)

Selected February Contests & Special Events (Cont. from page 5)

International DX-CW

About

Contest Objective: To encourage W/VE stations to expand knowledge of DX propagation on the HF and MF bands, improve operating skills, and improve station capability by creating a competition in which DX stations may only contact W/VE stations. One contest period is CW-only and one is Phone-only. Use only the 160, 80, 40, 20, 15, and 10 meter bands.

W/VE amateurs: Work as many DX stations in as many DXCC entities as possible.

DX stations: Work as many W/VE stations in as many of the 48 contiguous states and provinces as possible.

Dates:

CW: Third full weekend in February (**February 20-21, 2021**).

Phone: First full weekend in March (**March 6-7, 2021**).

Contest Period: Begins 0000 UTC Saturday and runs through 2359 UTC Sunday.

Contest rules are now maintained as a single downloadable document (see "Full Contest Rules" below).

For contest information contact contests@arrl.org or (860) 594-0232

Contest Objective: To encourage W/VE stations to expand knowledge of DX propagation on the HF and MF bands, improve operating skills, and improve station capability by creating a competition in which DX stations may only contact W/VE stations. One contest period is CW-only and one is Phone-only. Use only the 160, 80, 40, 20, 15, and 10 meter bands.
W/VE amateurs: Work as many DX stations in as many DXCC entities as possible.
DX stations: Work as many W/VE stations in as many of the 48 contiguous states and provinces as possible.
Dates:
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Contest Period: Begins 0000 UTC Saturday and runs through 2359 UTC Sunday.
Contest rules are now maintained as a single downloadable document (see "Full Contest Rules" below).

For contest information contact **contests@arrl.org** or (860) 594-0232

02/01/2021 | JY1 Special Event Memorial Station 2021
Feb 1-Feb 28, 0000Z-2359Z, N9SES, Lake Station, IN. ArabQrz Club. 14.250 14.030 7.185 7.030. QSL. Ayman Azar, 2861 Decatur St, Lake Station, IN 46405. (**Cont. on page 7)**

February Contests & Special Events **(Cont. from page 6)**

See website for participating stations from other countries. All HF/VHF/UHF, All Modes. Hamsphere Users can also participate in the event www.n9ses.com/?**(**

02/06/2021 | 100th Anniversary
Feb 6-Feb 27, 1800Z-2359Z, W6UW, San Jose, CA. Santa Clara County Amateur Radio Association. 21.320 14.250 7.250. Certificate. Don Village, K6PBQ, 3290 Woody Lane, San Jose, CA 95132. w6uw@arrl.net or www.qsl.net/sccara

02/06/2021 | Ground Hog Day Special Event
Feb 6, 0900Z-1500Z, K3HWJ, Punxsutawney, PA. Punxsutawney Amateur Radio Club. all modes, all bands. Certificate. Stephen Waltman, KB3FPN, 37 Clark St., Brookville, PA 15825. SASE for certificate. www.punxyclub.com

02/06/2021 | Shuttle Columbia Special Event
Feb 6-Feb 7, 1400Z-2359Z, K5C, Nacogdoches, TX. Nacogdoches ARC. 7.216 14.260 21.350 28.350. QSL. Army Curtis, 167 CR 2093, Nacogdoches, TX 75965. All contacts will be confirmed via LOTW. https://w5nac.com

02/07/2021 | Commemorating Howard E. Anthony, Father of Heathkit
Feb 7, 1200Z-2359Z, KD2FSI, Randolph, NJ. KD2FSI. 21.300 14.300 7.300 3.900. QSL. David R. Hackett, 3 High Ridge Road, Randolph, NJ 07869. On Sunday February 7, 2021 from 1200Z - 2359Z, Amateur Radio Station KD2FSI will operate as a special event station using a variety of vintage Heathkit gear to commemorate the life and legacy of Howard E. Anthony, the father of the Heathkit brand of electronic kits. Starting in the morning with 75 meter SSB, we will work our way up to the 40, 20, 15 and 10 meter bands and then back down again towards the evening. I will post additional information on my public Facebook page as the event draws near and the actual selected
operating frequencies and modes in real time the day off. We hope all amateur radio operators with any type of equipment (new or old) will join us as we commemorate Mr. Anthony, the person responsible for starting Heathkit, the finest electronic kit company ever. 73, Dave Hackett KD2FSI davehackett@cs.com https://www.facebook.com/dave.hackett.9085

02/13/2021 | George Washington's Birthday at his Boyhood Home, Ferry Farm VA
Feb 13, 1400Z-2000Z, W4B, Fredericksburg, VA. Stafford Amateur Radio Association (SARA). 14.225 7.195 447.275. QSL. Stafford Amateur Radio Association (SARA), PO Box 6331, Fredericksburg, VA 22403. SASE required for return of a QSL card. https://www.ws4va.org

02/13/2021 | George Washington's Birthday at Mount Vernon **(Cont. on page 8)**

February Contests & Special Events **(Cont. from page 7)**

Feb 13-Feb 14, 0800Z-1400Z, K4US, Alexandria, VA. Mount Vernon Amateur Radio Club. 14.260 14.074 7.040. QSL. MVARC, P.O. Box 7234, Alexandria, VA 22307. MVARC will be hosting a modified special event station to commemorate our first president's 289th birthday. Members will be operating remote stations this year due to COVID, with many broadcasting from the original grounds of the former plantation of George Washington and his wife, Martha Washington. k4us@mvarc.org

02/13/2021 | I ❤ Pluto Special Event

Feb 13-Feb 21, 0000Z-2359Z, W7P, Flagstaff, AZ. Northern Arizona DX Association. 14.290 21.290 7.290 14.090. Certificate & QSL. W7P - I ❤ Pluto Special Event, % Bob Wertz, NF7E, 6315 Townsend Winona Rd., Flagstaff, AZ 86004-1493. This will be an annual countdown S. E. to the 100th anniversary of the discovery of PLUTO, held every February, up to and including 2030. We are celebrating this historic discovery of Pluto, in 1930, by Clyde Tombaugh, at Lowell Observatory in Flagstaff, Arizona. Please note the frequencies will be + or- 10, as to not interfere with any nets operating during that time period. www.nadxa.com
02/13/2021 | Ice-olation Station WØJH

Feb 13-Feb 15, 1400Z-2355Z, W0JH, Stillwater, MN. Stillwater, MN Amateur Radio Association. 21.360 14.260 7.260 3.860. Certificate. Shel Mann, N0DRX, 1618 Pine St West, Stillwater, MN 55082. We will have multiple stations simultaneously operating on different bands and different modes. In keeping with COVID-19 social distancing protocols, we will operate from our individual QTHs this year. In a meager attempt to drive away the remainder of Minnesota winter, the Stillwater Amateur Radio Association will be generating as much RF as possible over the President's Day long weekend. Certificates will ONLY be sent via email in PDF format. (Send requests with standard QSL confirmation info via email to: Ice2021@radioham.org). There is no need to send a QSL card. Info: WØJH at www.QRZ.com & www.radioham.org. www.radioham.org

02/13/2021 | USS Midway Museum Ship Special Event: Raising Mt Suribachi Flag

Feb 13, 1700Z-2359Z, NI6IW, San Diego, CA. USS Midway (CV-41) Museum Ship. 7.250 14.320 14.070 (PSK31) DSTAR via PapaSystem repeaters. QSL. USS Midway CV-41 COMEDTRA NI6IW, 910 N Harbor Dr, San Diego, CA 92101. SASE please. www.qrz.com/db/ni6iw

02/20/2021 | George Washington's Birthday

Feb 20-Feb 22, 2000Z-2000Z, WS7G**,** George, WA. Columbia Basin DX Club. 14.322 7.222 3.855. QSL. Brian Nielson, 11650 Road 1 SE, Moses Lake, WA 98837. We will be commemorating George Washington's Birthday from the city of George, in the state of Washington. In February of 2021, our special event station will operate Saturday, February 20th, from 2000 Zulu through Monday, February 22nd at 2000 Zulu. You can find us on 14.322/14.255, 7.222/7.260, AND 3.855/3.960 plus/minus QRM. cbn.homestead.com/WS7G.HTML **(Cont. on page 9)**

February Contests & Special Events **(Cont. from page 8)**

02/27/2021 | 17th Annual "Freeze Your Keys" Winter Operating Event
Feb 27, 1400Z-2200Z, W0EBB, Leavenworth, KS. Kickapoo QRP Amateur Radio Club. 14.058 7.035 14.325 7.240. QSL. Gary Auchard, 34058 167th Street, Leavenworth, KS 66048. SASE please for return QSL cards. w0mna74@gmail.com or www.qrz.com/db/w0ebb

Bruce Draper, AA5B, aa5b.corral@gmail.com

Contest Corral — February 2021

Check for updates and a downloadable PDF version online at **www.arrl.org/contest-calendar**.
Refer to the contest websites for full rules, scoring information, operating periods or time limits, and log submission information.

Start - Finish Date-Time		Date-Time		Bands	Contest Name	Mode	Exchange	Sponsor's Website
1	0000	1	0100	3.5-14	K1USN Slow Speed Test	CW	Name, SPC, 20 WPM max	www.k1usn.com/sst.html
1	2000	1	2130	3.5	RSGB 80-Meter Club Championship, SSB	Ph	RS, serial	www.rsgbcc.org/hf
2	0100	2	0159	1.8-50	Worldwide Sideband Activity Contest	Ph	RS, age group (OM, YL, or youth)	wwsac.com/rules.html
2	0200	2	0400	3.5-28	ARS Spartan Sprint	CW	RST, SPC, power	arsqrp.blogspot.com
2	1700	2	1900	3.5-14	RTTY OPS Weeksprint	Dig	Other station's call, your call, serial, name	rttyops.wordpress.com
3	1300	3	1400	1.8-28	CWops Mini-CWT Test	CW	Name, mbr or SPC	cwops.org/cwops-tests
3	1700	3	2000	144	VHF-UHF FT8 Activity Contest	Dig	4-char grid square	ft8activity.eu/index.php/en
3	1900	3	2000	1.8-28	CWops Mini-CWT Test	CW	Name, mbr or SPC	cwops.org/cwops-tests
3	2000	3	2100	3.5	UKEICC 80-Meter Contest	Ph	6-char grid square	ukeicc.com/80m-rules.php
4	0300	4	0400	1.8-28	CWops Mini-CWT Test	CW	Name, mbr or SPC	cwops.org/cwops-tests
4	1800	4	2200	28	NRAU 10-Meter Activity Contest	CW Ph Dig	RS(T), 6-char grid square	nrrlcontest.no/index.php
4	2000	4	2200	1.8-50	SKCC Sprint Europe	CW	RST, SPC, name, mbr or "none"	www.skccgroup.com
5	0145	5	0215	1.8-21	NCCC RTTY Sprint	Dig	Serial, name, QTH	www.nccsprint.com
5	0230	5	0300	1.8-21	NCCC Sprint	CW	Serial, name, QTH	www.nccsprint.com
6	0000	7	2359	1.8-UHF	Vermont QSO Party	CW Ph Dig	RS(T), county or SPC	www.ranv.org/vtqso.html
6	0001	7	2359	28	10-10 International Winter Contest, SSB	Ph	Name, mbr or "0," SPC	www.ten-ten.org
6	0900	6	1200	1.8-28	EurAsia HF Championship	CW Ph	RS(T), 6-char grid square	www.eurasia-contest.com
6	1200	7	1200	1.8	KCJ Topband Contest	CW	RST, JA Prefecture/District or continent	www.kcj-cw.com/e_index.htm
6	1200	7	1200	3.5-28, 144	F9AA Cup, CW	CW	RST, serial	www.site.urc.asso.fr
6	1200	7	2359	3.5-28	Mexico RTTY International Contest	Dig	RST, XE state or serial	www.rtty.fmre.mx
6	1400	6	2359	1.8-28	Minnesota QSO Party	CW Ph Dig	Name, county or SPC	www.w0aa.org/mnqp-rules
6	1400	6	2359	1.8-28	FYBO Winter QRP Sprint	CW Ph Dig	RS(T), SPC, name, power, temperature	arizonascqrpions.apps-1and1.com
6	1600	6	1800	3.5-28	FISTS Saturday Sprint	CW	RST, SPC, name, mbr or "0"	fistsna.org
6	1600	6	1900	3.5	AGCW Straight Key Party	CW	RST, serial, class, name, age	altagcw.de/index.php/en
6	1600	7	2359	1.8-28	British Columbia QSO Party	CW Ph Dig	RS(T), VE7 District or SPC	orcadxcc.org/bcqp_rules.html
6	2300	7	0300	3.5-14	North American Sprint, CW	CW	Other station's call, your call, serial, name, SPC	ncjweb.com
8	1300	12	2359	All, no WARC	ARRL School Club Roundup	CW Ph	RS(T), class (I/C/S), SPC	www.arrl.org/school-club-roundup
10	0130	10	0330	3.5-14	NAQCC CW Sprint	CW	RST, SPC, mbr or power	naqcc.info
10	1700	10	2000	432	VHF-UHF FT8 Activity Contest	Dig	4-char grid square	ft8activity.eu/index.php/en
10	2000	10	2130	3.5	RSGB 80-Meter Club Championship, Data	Dig	RST, serial	www.rsgbcc.org/hf
13	0000	14	2359	3.5-28	CQ WW RTTY WPX Contest	Dig	RST, serial	www.cqwpxrtty.com
13	1000	14	1000	1.8-28	SARL Field Day Contest	CW Ph Dig	RS(T), # of transmitters, category, QTH	www.sarl.org.za
13	1100	13	1300	7, 14	Asia-Pacific Spring Sprint, CW	CW	RST, serial	jsfc.org/apsprint/aprule.txt
13	1200	14	1200	1.8-28	Dutch PACC Contest	CW Ph	RS(T), province or serial	pacc.veron.nl
13	1200	14	2359	1.8-50	SKCC Weekend Sprintathon	CW	RST, SPC, name, mbr or "none"	www.skccgroup.com
13	1400	15	0200	All	YLRL YL-OM Contest	CW Ph Dig	Serial, RS(T), SPC	ylrl.org/wp/yl-om-contest
13	1500	14	1500	1.8-28	OMISS QSO Party	Ph	RS, SPC, mbr or "none"	omiss.net/Facelift/qsoparty.php
13	1900	13	2059	1.8-28	Feld Hell Sprint	Dig	RST, name, mbr, QTH, grid	sites.google.com/site/feldhellclub
13	1900	13	2300	1.8	RSGB 1.8-MHz Contest	CW	RST, serial, district code (if UK/EI)	www.rsgbcc.org/hf
13	2300	14	2300	1.8-14	AWA AM QSO Party	Ph	Name, SPC	antiquewireless.org/homepage
14	0000	14	2359	1.8-7	PODXS 070 Club Valentine Sprint	Dig	Name, OM/YL, SPC	www.podxs070.com
14	1300	14	1700	3.5, 7	Balkan HF Contest	CW Ph	RS(T), serial	arabih.ba
15	0100	15	0259	3.5-14	CQC Winter QSO Party	CW	RST, SPC	coloradoqrpclub.org/contests
15	0100	15	0300	1.8-28	4 States QRP Group Second Sunday Sprint	CW Ph	RS(T), SPC, mbr or power	www.4sqrp.com
15	2000	15	2130	3.5	RSGB FT4 Contest Series	Dig	4-char grid square	www.rsgbcc.org/hf
17	1900	17	2030	3.5	AGCW Semi-Automatic Key Evening	CW	RST, serial, 2-digit year first used a bug	altagcw.de/index.php/en
20	0000	21	2359	1.8-28	ARRL International DX Contest, CW	CW	W/VE: RST, SP. Non-W/VE: RST, power	www.arrl.org/arrl-dx
20	1200	21	1159	1.8-28	Russian PSK WW Contest	Dig	RST, oblast or serial	www.rdrclub.ru
21	2100	21	2300	3.5-28	FISTS Sunday Sprint	CW	RST, SPC, name, mbr or "0"	fistsna.org
21	2300	22	0100	1.8-28	Run for the Bacon QRP Contest	CW	RST, SPC, mbr or power	qrpcontest.com/pigrun
24	0000	24	0200	1.8-50	SKCC Sprint	CW	RST, SPC, name, mbr or "none"	www.skccgroup.com
24	2000	24	2100	3.5	UKEICC 80-Meter Contest	CW	6-char grid square	ukeicc.com/80m-rules.php
25	2000	25	2130	3.5	RSGB 80-Meter Club Championship, CW	CW	RST, serial	www.rsgbcc.org/hf
26	2200	28	2200	1.8	CQ 160-Meter Contest, SSB	Ph	W/VE: RS, SP DX: RS, CQ Zone	www.cq160.com
27	0600	28	1800	3.5-28	REF Contest, SSB	Ph	RS, department or serial	concours.r-e-f.org/reglements
27	1200	28	1200	3.5-28	FTn DX Contest	Dig	RST, SP or serial	europeanft8club.wordpress.com
27	1300	28	1300	3.5-28	UBA DX Contest, CW	CW	RST, serial, province (if ON)	www.uba.be/en
27	1500	28	0159	1.8-50	South Carolina QSO Party	CW Ph Dig	RS(T), county or SPC	scqso.com
27	1800	28	0559	3.5-28	North American QSO Party, RTTY	Dig	Name, SPC	www.ncjweb.com
27	1800	28	0559	3.5-28	NA Collegiate Championship, RTTY	Dig	Name, SPC	www.w9smc.com/nacc
28	1400	3	0800	1.8-144	Classic Exchange, CW	CW	Name, RST, SPC, rig manuf/model	www.classicexchange.org
28	1400	28	1700	3.5-28	High Speed Club CW Contest	CW	RST, mbr or "NM"	www.highspeedclub.org
28	1500	1	0059	3.5-144	North Carolina QSO Party	CW Ph Dig	County or SPC	ncqsoparty.org/rules

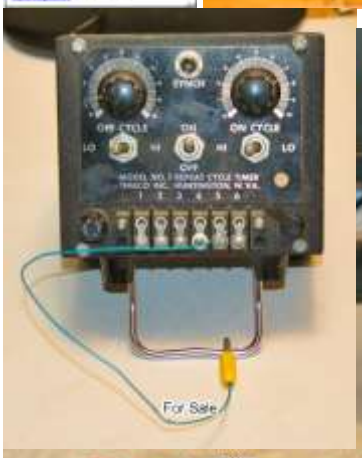
There are a number of weekly contests not included in the table above. For more info, visit: **www.qrpfoxhunt.org**, **www.nccsprint.com**, and **www.cwops.org**.
All dates refer to UTC and may be different from calendar dates in North America. Contests are not conducted on the 60-, 30-, 17-, or 12-meter bands.
Mbr = Membership number. Serial = Sequential number of the contact. SPC = State, Province, DXCC Entity. XE = Mexican state. Listings in blue indicate contests sponsored by ARRL or *NCJ*. The latest time to make a valid contest QSO is the minute listed in the "Finish Time" column. *Data for Contest Corral is maintained on the WA7BNM Contest Calendar at* **www.contestcalendar.com** *and is extracted for publication in QST 2 months prior to the month of the contest. ARRL gratefully acknowledges the support of Bruce Horn, WA7BNM, in providing this service.*

Want and For Sale Ads

Jeff, KH6O@ARRL.net: Would like to purchase a heavy duty antenna spring and ball mount (to be used for an HF mobile antenna).

Denney N6HV: One roll, 250 feet 14/2 clear speaker wire $30.00, [new, still in wrapper, old stock]. Various rolls of wire, big rolls; 8 gauge, shielded single pair and other gauges, good prices. Three-quarter-inch wide, flat, heavy, copper-braid, $1.00/ft; great for grounding.

Items Given to the Club for Donations: Multimeter, Micronta brand $5.00. HP 1706A oscilloscope, as is, $50. Various lengths of Ethernet cables, $0.25 each. Radio Shack Power Supply, 13.8 volt at 3 amps, $3.00. Swing arm desk lamp includes light bulb and other various items; $5.00 to $25.00. Vacuum tubes donated by Scott Vilander with delivery by Dave AI6VX. Kenwood TL-922A Linear Amplifier AS IS: All items as shown below: Contact Denney for price.



(Cont. on page 12)

Want and For Sale Ads (Cont. from page 11)

Denney N6HV

(Cont. on page 13)

Want and For Sale Ads (Cont. from page 12)

(Cont. on page 14)

Want and For Sale Ads (Cont. from page 13)

(Cont. on page 15)

Want and For Sale Ads (Cont. from page 14)

(Cont. on page 16)

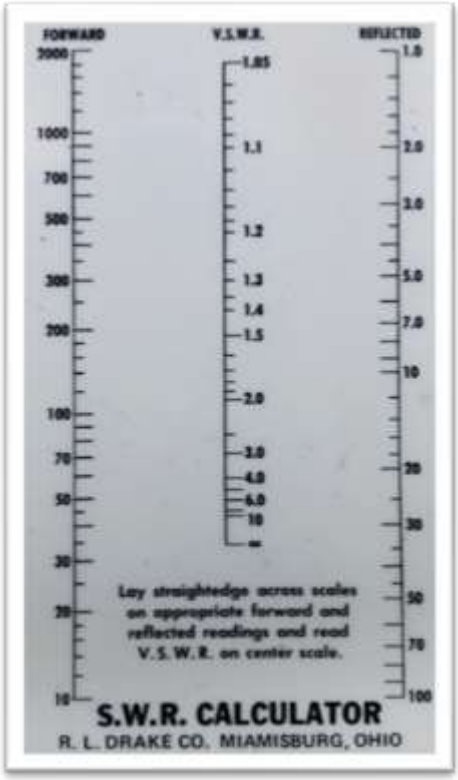
Want and For Sale Ads (Cont. from page 15)

For sale by Orv – W6BI – orv.beach@gmail.com
2 brand-new, never used 12V 8Ah batteries - $30 for both

Kenwood SP-230 Speaker - $50 **(Cont. on page 17)**

Want and For Sale Ads (Cont. from page 16)

Drake W-4 Wattmeter – includes Drake SWR Calculator - $40



TenTec Omni VI Plus HF Transceiver 160 through 10 with 1.8 kHz, 500 and 250 Hz filters – works fine, receiver recently aligned. With power cable - $450

(Cont. on page 18)

Want and For Sale Ads (Cont. from page 17)

Heathkit HM-102 SWR Bridge - $25

Scott McComas N6ZAI (SK)

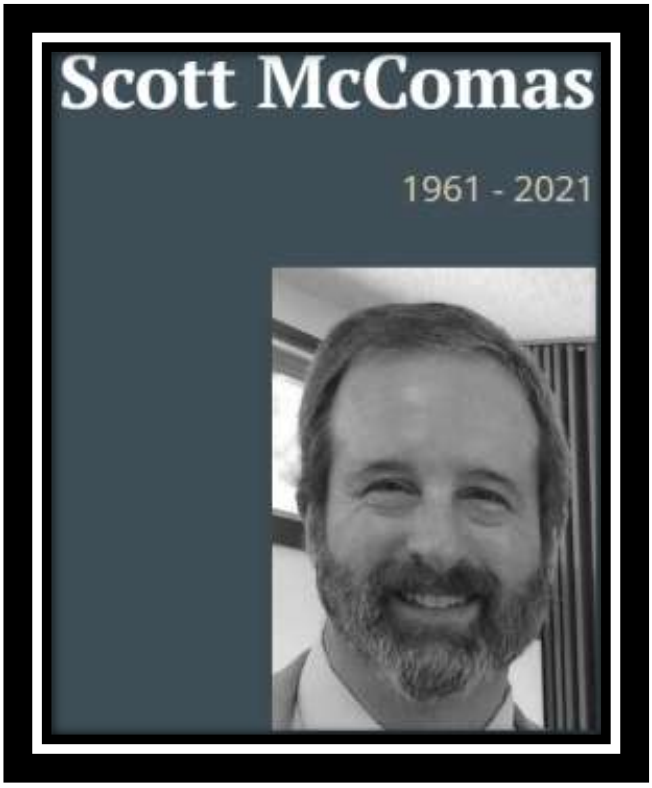
Oxnard - Scott Andrew McComas, 59 of Oxnard, passed away on January 22nd, 2021 at home surrounded by his family after a courageous battle with a lengthy illness. He was a beloved husband, father, son, brother, uncle and friend; a deeply loved man of integrity.

Scott was born in Encino and was raised in Camarillo. Scott graduated from Camarillo High School in 1979 and received an AS degree from Ventura College. After they wed in 1987, Scott and Annette moved to Oxnard where they raised their kids. He worked as an Electrical Technician at International Paper for 26 years and was preparing for retirement.

Scott loved being a huge part of his Church Grace Lutheran in Ventura where he was head Elder and was a Liaison for the Boy Scout Troop. He was an avid licensed HAM radio operator with an Amateur Extra Certification, and loved to scuba dive and travel. Scott was a member of VCARC since November, 2019.

Scott is survived by his loving wife of 33 years Annette, son Clayton and daughter Kira of Oxnard, and mother Marg McComas and sister Jo Ellen Swanson, both of Weatherford OK. Scott was preceded in death by his father Jerry McComas of Alamogordo, NM.

A memorial service is being planned for a later date.

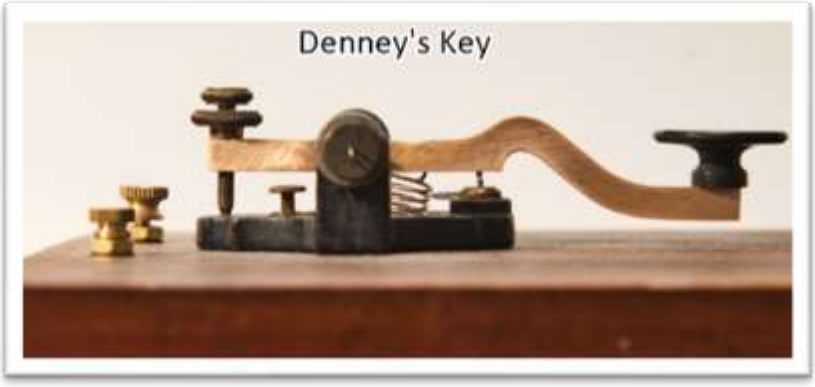


Upcoming FCC Exam Session Preparation Sites

Manhattan Beach CA 90266

LICENSING CLASS

02/20/2021
Start/End Dates: 02/20/2021 - 02/27/2021
Times: 8:00-5:00
# of Sessions: 2
Class level: Technician
Morse code offered: No
Pre register required: Yes
Fee: 0
Pre Study required: Yes
Class Type: Weekend/One Day
Exam offered: No
Sponsoring Club/Organization: Hughes Amateur Radio Club
Instructor: N6MDV
Contact: Michael Vahey N6MDV
Phone: (424) 262-3262
Email: w6haclass@w6ha.com
Location: Virtual Class Via Zoom
1601 N Valley Drive
Manhattan Beach, CA 90266
Additional Information: Free class on two Saturdays; half the material covered the first week and the rest the material covered the second week. Register by sending an email to w6haclass@w6ha.com. We'll cover all the material you need for technician license with slides and demos. Class will be conducted via Zoom as a virtual class.



ON EXAM DAY BRING THE FOLLOWING ITEMS (When COVID restrictions are lifted):

1. A legal photo ID (driver's license, passport).
2. When no photo ID is available, two forms of identification must be presented: a. non-photo ID/driver's license (some states still have them) b. birth certificate (must have the appropriate seal) c. social security card d. library card e. utility bill, bank statement or other business correspondence that specifically names the person; or a postmarked envelope addressed to the person at his or her current mailing address as it appears on the Form 605.
3. Students may bring any of the above items and/or a school ID, minor's work permit, report card, or a legal guardian may present a photo ID.
4. Bring your Social Security Number (SSN) or your FCC issued Federal Registration Number (FRN). VEC's are required by FCC to submit either your SSN or your FRN number with your license application form. If you prefer not to give your SSN, then you may use
5. Your FCC issued FRN, if you have one. For instructions on how to register your SSN with the FCC and receive a FRN, visit the FCC's FAQ page and the FCC's registration instructions page.
6. If applicable, bring the original and a photocopy of your current Amateur Radio license and any Certificates of Successful Completion of Examination (CSCE) you may hold from previous exam sessions. The photocopy(s) will not be returned.
7. Two number two pencils with erasers and a pen.
8. 7. A calculator with the memory erased and formulas cleared is allowed. You may not bring any written notes or calculations into the exam session. Slide rules and logarithmic tables are acceptable, as long as they're free of notes and formulas. Cell phone must be silenced or turned off during the exam session. The phones' calculator function may not be used.
9. Bring a check, a money order or cash to cover the exam session fee(s). Check the ARRL VEC's current exam fee. The fee is normally $15.00 for ARRL-sponsored tests.

Upcoming FCC Exam Test (Due to the Coronavirus outbreak, please **verify** with your **VE** team that the exam session is being held.**)**

GLAARG is offering remote testing; see https://glaarg.org/remote-sessions/ for details)

Torrance CA 90504-1031

EXAM SESSION

02/03/2021
Sponsor: Baldwin Hills ARC
Date: Feb 03 2021
Time: 7:00 PM (Walk-ins allowed)
Contact: Edward L. Walker
(323) 295-4817
Email: EDLWALKER@PACBELL.NET
VEC: ARRL/VEC
Location: Round Table Pizza
4330 Redondo Beach Blvd
www.barc.us
Torrance CA 90504-1031

Pine Mountain Club CA 93222

EXAM SESSION

02/06/2021
Sponsor: Pine Mountain ARC
Date: Feb 06 2021
Time: 12:00 PM (No Walk-ins / Register or Call ahead)
Contact: Donald Quick
(818) 383-2624
Email: clearskies001@gmail.com
VEC: ARRL/VEC
Location: Pine Mountain Club
2524 Beechwood Way
Pre-Register
Pine Mountain Club CA 93222

Ridgecrest CA 93555

EXAM SESSION

02/13/2021
Sponsor: Sierra ARC
Date: Feb 13 2021
Time: 9:00 AM (No Walk-ins / Register or Call ahead)
Contact: Michael D. Herr
(760) 375-5324
Email: wa6ara@gmail.com
VEC: ARRL/VEC
Location: Due to COVID TBD
Pre-Register Required
Ridgecrest CA 93555

Trivia for February 2021

Did you know???

1. A perfect 300 bowling score odds are 11,500 @ 1.
2. The words Auld Lang Syne translation is Good Old Days.
3. An old Scottish song, Auld Lang Syne was made popular in about 1929 New Year's party by Guy Lombardo.

73s, Dana KG6WXE

Calendar February 2020

1: K6MEP Monday Night Net and Zoom Meeting
2: ACS/ARES Tuesday Night Net (Simplex)
8: K6MEP Monday Night Net and Zoom Meeting
9: ACS/ARES Tuesday Night Net
12: K6MEP Monthly Meeting at 1900 (held on the Sulphur Mountain repeater, on 145.200 MHz with a minus offset and a PL of 127.3 Hz). Zoom video meeting at 19:30.
14: Valentine's Day
15: K6MEP Monday Night Net and Zoom Meeting (President's Day)
16: ACS/ARES Tuesday Night Net
22: K6MEP Monday Night Net and Zoom Meeting
23: ACS/ARES Tuesday Night Net

(Repeated from the CVARC website). The wildly successful "Auxiliary Bored Meetings" will continue on a new schedule beginning Monday, June 29, 2020. The informal nets have been running four times daily on the Bozo repeater. Over 7,500 calls from 275 unique hams have been logged on the nets. Under the new schedule, the net will be called to order at 9 A.M. Monday through Saturday. The Saturday morning net will run 9 A.M. to noon with a swap and the repeater will linked with Paul Strauss' (WD6EBY) repeater network for full Ventura County coverage. Starting July 11, 2020, there will be a second Saturday net at 9 P.M.

The Bozo Repeater operates with the following settings:

Frequency: 147.885 MHz
Offset: –
PL: 127.3

Stu AG6AG

http://www.cvarc.org/event/auxiliary-bored-meetings-on-bozo-2/all/

K6MEP Monday Night Net Script

QST- QST- QST. This is _____(Name)_____(Call Sign), with the Ventura County Amateur Radio Club Net. If there is any station with EMERGENCY or PRIORITY Traffic that needs the immediate use of this frequency, please come now.

Hearing none, the following is a QST. This is _____(Name) _____ (Call Sign), tonight's net control station for the Ventura County Amateur Radio Club Net. If, at any time, during tonight's net, anyone needs this frequency for emergency or priority traffic, please call net control, and we will respond appropriately.

This is a directed net, open to all amateur radio operators and is sponsored by K6MEP, the call sign for VCARC. This net begins each Monday evening at 20:00 local time on the WD6EBY linked repeater system.

The primary frequency of this net is 145.200 MHz with a minus offset and a PL of 127.3 Hz. If the repeater should fail for any reason, we can use South Mtn. repeater on 146.385 MHz with a positive offset and a PL of 127.3 Hz as backup.
All amateurs are welcome to check in after the following announcements.
A roundtable will follow the check-ins. A rag chew session may follow the formal net.

K6MEP, the Ventura County Amateur Radio Club, meets at 19:30 hours on the second Friday of each month at The Dudley House, 197 N Ashwood Ave, Ventura, CA. However, due to government health restrictions, we meet "virtually" on 145.200 MHz with a minus offset and a PL of 127.3 Hz followed by a Zoom meeting afterwards. The next virtual meeting date is Friday _____ (insert date). We urge any non-members interested in the VCARC to contact us at K6MEP@qsl.net. Non-members interested in amateur radio are welcome to attend our meetings.
When you check-in, please give your call sign, name and if you are a VCARC member. If you are not a member of the club, please include your QTH or location.

(Check-ins completed): Hearing no other check-ins, we will now begin with our Roundtable
****

Any last comments? ******** Any late, missed, or visitor check-ins?
Please check-in now.

Hearing no new check-ins does anyone have anything else they would like to add to tonight's net? Hearing none;
(Closing): This concludes the VCARC weekly net at _____hours. Thank you for your interest and participation. Also thanks to Paul Strauss, WD6EBY, for the use of the repeater for our K6MEP net. 73, this is _____ call sign), tonight's VCARC net control, signing off.

Eric Casey, KC2ERC, ecasey@arrl.org; www.arrl.org/hamfests-and-conventions-calendar

Convention and Hamfest Calendar

A = AUCTION
D = DEALERS / VENDORS
F = FLEA MARKET
H = HANDICAP ACCESS
Q = FIELD CHECKING OF QSL CARDS
R = REFRESHMENTS
S = SEMINARS / PRESENTATIONS
T = TAILGATING
V = VE SESSIONS

Abbreviations

Spr = Sponsor
TI = Talk-in frequency
Adm = Admission

Florida (Brooksville) — Feb. 20 D H R T V
8 AM – 4 PM. *Spr:* Hernando County ARA. Sand Hill Scout Reservation, 11210 Cortez Blvd. (Hwy. 50). *TI:* 146.715. *Adm:* $6, $5 with coupon. **www.hcara.org**

Florida (Punta Gorda) — Mar. 6 F H R T
7:30 AM – 1 PM. *Spr:* Peace River Radio Assn. Punta Gorda Boat Club, 802 W. Retta Esplanade. *TI:* 147.255. *Adm:* $6. **www.prra.club**

7th ANNUAL TECHCON
February 26 – 27, Winter Haven, FL
Fri. 1 – 5 PM. Sat. 9 AM – 5 PM. *Spr:* ARRL West Central Florida Section, Polk County Emergency Operations Center, 1890 Jim Keene Blvd. *TI:* 146.985, 443.9, 444.625, 444.95 (127.3 Hz). *Adm:* Free. **www.arrlwcf.org/wcf-special-events/wcftechconference**

Georgia (Dalton) — Feb. 27 D F H R S T V
8 AM – 2 PM. *Spr:* Dalton ARC. North Georgia Agricultural Fairgrounds, 500 Legion Dr. *TI:* 145.230 (PL 141.3 Hz). *Adm:* $5. **www.facebook.com/events/624779201744768**

Kentucky (Cave City) — Mar. 6 D F H Q R T V
7:30 AM – 3 PM. *Spr:* Mammoth Cave ARC. Cave City Convention Center, 502 Mammoth Cave St. *TI:* 146.94. *Adm:* $6. **www.ky4x.org**

Minnesota (St. Cloud) — Feb. 13 D H R S V
9 AM – 1 PM. *Spr:* St. Cloud ARC. Eagles Aerie #662, 730 41st Ave. N. *TI:* 147.015 (100 Hz). *Adm:* $10. **www.w0sv.club/hamfest**

Ohio (Elyria) — Mar. 7 D H R
8 AM – noon. *Spr:* Northern Ohio ARS. Lorain County Community College, 1005 N. Abbe Rd. *TI:* 146.7 (110.9 Hz). *Adm:* $7.

Oklahoma (Elk City) — Mar. 6 D F H V
8:30 AM. *Spr:* West Central OK ARC. Gathering Place, 916 S. Main St. *TI:* 146.76 (88.5 Hz). *Adm:* $5. **www.sites.google.com/view/wcoarc**

To All Event Sponsors

Before making a final decision on a date for your event, you are encouraged to check the Hamfest and Convention Database (**www.arrl.org/hamfests-and-conventions-calendar**) for events that may already be scheduled in your area on that date. You are also encouraged to register your event with HQ as far in advance as your planning permits. See **www.arrl.org/hamfest-convention-application** for an online registration form. Dates may be recorded up to 2 years in advance.

Events that are sanctioned by ARRL receive special benefits, including an announcement in these listings and online. Sanctioned conventions are also listed in *The ARRL Letter*. In addition, events receive donated ARRL prize certificates and handouts. Once the form has been submitted, your ARRL Director will decide whether to approve the date and provide ARRL sanction.

The deadline for receipt of items for this column is the **1st of the second month preceding publication date**. For example, your information must arrive at HQ by **March** 1 to be listed in the **May** issue. Information in this column is accurate as of our deadline; contact the sponsor or check the sponsor's website for possible late changes, driving directions, and other event details. Please note that postal regulations prohibit mention in *QST* of games of chance, such as raffles or bingo.

Promoting your event is guaranteed to increase attendance. As an approved event sponsor, you are entitled to special discounted rates on *QST* display advertising and ARRL web banner advertising. Call ARRL's toll-free number at 1-800-243-7768, or email **ads@arrl.org**.

Emergency and Volunteer Training

Some excellent emergency and volunteer training is available through the American Red Cross of Ventura County, FEMA and the American Radio Relay League.

Red Cross Courses

The following is a list of locally available Red Cross courses and a current schedule of classes over the next two months. Enroll by calling the Red Cross Chapter House at 805-987-1514 Ext 320 leaving your name, course code and telephone number. If you are interested in a class not currently scheduled call to be placed on a waiting list for the next scheduled date.

Note: The classes **Fulfilling Our Mission** and **Introduction to Disaster Services** are required for all Red Cross classes if you are not currently registered as a Red Cross Volunteer.

For training class registration, call: 805-987-1514 Ext 320.

Course schedule and descriptions:

http://www.arcventura.org/DSCourseDescriptions.html

http://www.arcventura.org/contact_us.html

COLLABORATING TO ENSURE EFFECTIVE SERVICE DELIVERY(ARC3089-4)
COMMUNITY SERVICES OVERVIEW (ARC 3068-1)
DISASTER ASSESSMENT (ARC 3067-1)
DISASTER HEALTH SERVICES: OVERVIEW (3076-1F)
DISASTER HEALTH SERVICES SIMULATION (ARC 3076-2F)
DISASTER MENTAL HEALTH SERVICES (ARC 3077-1F)
DISASTER MENTAL HEALTH: AN OVERVIEW (ARC 3077-2)
DISASTER WELFARE INQ.:CONNECTING YOUR COMMUNITY(ARC 3085-1)
DISASTER WELFARE INQUIRY SIMULATION (ARC 3085-2)
EMERGENCY OPS CENTER/INCIDENT COMMAND LIAISON (ARC 3089-5)
ERVs: READY, SET, ROLL (ARC 3068-4)
FAMILY SERVICES: PROVIDING EMERGENCY ASSISTANCE (ARC 3072-1)
FINANCIAL STATISTICAL INFORMATION MANAGEMENT (ARC 3078-2)
HUMAN RESOURCES IN DISASTER (ARC 3087-3F)
LOGISTICS: AN OVERVIEW (ARC 3087-1)
LOGISTICS SIMULATION (ARC 3071-2)
MANAGING TOTAL DIVERSITY
MASS CASUALTY DISASTER (ARC 3079 1F)
PUBLIC AFFAIRS IN DISASTER 1 (ARC 3080 1F)
SAFE FOOD HANDLING WORKSHOP
SHELTER OPERATIONS (ARC 3068-11)
SHELTER SIMULATIONS (ARC 3068-12)
WORKING WITH TOTAL DIVERSITY

Scheduled Red Cross Classes

For training class registration, call: 805-987-1514
Please try to register for classes a week before the class is being offered

The following free **FEMA Independent Study Courses** are recommended. There are several other FEMA courses available; see the other courses at http://training.fema.gov/is

IS-5.a **An Introduction to Hazardous Materials** - (10/31/2013)
IS-10.a **Animals in Disasters: Awareness and Preparedness** - (10/2/2015)
IS-11.a **Animals in Disasters: Community Planning** - (10/2/2015)
IS-15.b **Special Events Contingency Planning for Public Safety Agencies** - (10/31/2013)
IS-20.19 **Diversity Awareness Course 2019 - (1/30/2019)**
IS-21.17 **Civil Rights and FEMA Disaster Assistance** - (1/25/2017))
IS-26 **Guide to Points of Distribution** - (8/11/2010)
IS-27 **Orientation to FEMA Logistics** - (10/31/2013)
IS-29 **Public Information Officer Awareness** - (10/31/2013)
IS-33.19 **FEMA Initial Ethics Orientation 2019** - (1/30/2019)
IS-35.19 FEMA Safety Orientation 2019 - (1/30/2019)IS-36 **Multi-hazard Planning for Childcare** - (10/31/2013)
IS-42 **Social Media in Emergency Management** - (10/31/2013)
IS-75 **Military Resources in Emergency Management** - (2/25/2011)
IS-100.b **Introduction to Incident Command System, ICS-100** - (10/31/2013)
IS-111.a **Livestock in Disasters** - (10/31/2013)
IS-144 **Telecommunicators Emergency Response Taskforce (TERT) Basic Course** - (10/31/2013)
IS-162 **Hazard Mitigation Floodplain Management in Disaster Operations** - (11/16/2016)
IS-200.b **ICS for Single Resources and Initial Action Incidents** - (10/31/2013)
IS-230.d **Fundamentals of Emergency Management** - (12/16/2013)
IS-235.c **Emergency Planning** - (12/15/2015)
IS-240.b **Leadership and Influence** - (6/16/2014)
IS-241.b **Decision Making and Problem Solving** - (3/31/2014)
IS-242.b **Effective Communication** - (3/31/2014)
IS-244.b **Developing and Managing Volunteers** - (3/29/2013)
IS-250.a **Emergency Support Function 15 (ESF15) External Affairs: A New Approach to Emergency Communication and Information Distribution** - (5/7/2012)
IS-271.a **Anticipating Hazardous Weather & Community Risk**, 2nd Edition - (10/31/2013)
IS-288.a **The Role of Voluntary Organizations in Emergency Management** - (2/12/2015)
IS-315 **CERT Supplemental Training: The Incident Command System** - (8/13/2013)
IS-317 **Introduction to Community Emergency Response Teams** - (6/26/2014)
IS-320 **Wildfire Mitigation Basics for Mitigation Staff** - (10/31/2013)
IS-322 **Flood Mitigation Basics for Mitigation Staff** - (10/31/2013)
IS-323 **Earthquake Mitigation Basics for Mitigation Staff** - (10/31/2013)
IS-325 **Earthquake Basics: Science, Risk, and Mitigation** - (10/31/2013)
IS-326 **Community Tsunami Preparedness** - (10/31/2013)
IS-366.a **Planning for the Needs of Children in Disasters** - (12/9/2015)
IS-368 **Including People With Disabilities & Others With Access & Functional Needs in Disaster Operations** - (2/20/2014)
IS-393.a **Introduction to Hazard Mitigation** - (10/31/2013)
IS-405 **Overview of Mass Care/Emergency Assistance** - (12/10/2013)
IS-454 **Fundamentals of Risk Management** - (10/31/2013)
IS-546.a **Continuity of Operations Awareness Course** - (10/31/2013)
IS-547.a **Introduction to Continuity of Operations** - (10/31/2013)
IS-559 **Local Damage Assessment** - (10/31/2013)
IS-700.b **An Introduction to the National Incident Management System** - (6/25/2018)
IS-775 **EOC Management and Operations** - (8/6/2008)
IS-800.b **National Response Framework, An Introduction** - (1/20/2017)
IS-815 **ABCs of Temporary Emergency Power** - (12/27/2016)
IS-906 **Workplace Security Awareness** - (10/31/2013)
IS-907 **Active Shooter: What You Can Do** - (12/28/2015)
IS-909 **Community Preparedness: Implementing Simple Activities for Everyone** - (10/31/2013)
IS-910.a **Emergency Management Preparedness Fundamentals** - (10/19/2012)
IS-915 **Protecting Critical Infrastructure Against Insider Threats** - (7/10/2013)
IS-916 **Critical Infrastructure Security: Theft and Diversion – What You Can Do** - (10/31/2013)
IS-922 **Applications of GIS for Emergency Management** - (10/31/2013)
IS-951 **DHS Radio Interoperability** - (9/22/2016)
IS-2200: **Basic Emergency Operations Center Functions - (5/17/2019)**
IS-2500 **National Prevention Framework, an Introduction** - (3/27/2018)
IS-2600 **National Protection Framework, An Introduction** - (3/27/2018)
IS-2700 **National Mitigation Framework, an Introduction** - (3/27/2018)
IS-2900.a **National Disaster Recovery Framework (NDRF) Overview** - (7/11/2018)

The **ARRL** offers several on-line courses. The courses listed here are recommended for those involved in disaster and emergency service. See these and other courses at the ARRL web site.

Introduction to Emergency Communication EC-001
HF Digital Communications EC-005
PR-101: ARRL Public Relations (EC-015)
Public Service and Emergency Communications Management for Radio Amateurs- EC-016

There are some costs with the ARRL courses but discounts and occasional scholarships are available to ARRL members. See ***www.ARRL.org*** for details and enrollment.

ARES-ACS Frequency Updates

The Tuesday night Ventura County ARES/ACS Net is held on the WD6EBY Sulphur Mt. Repeater. Local nets are 7:00 to 7:30 PM; County Net starts at 7:30 on WD6EBY Sulphur Mt. Repeater 145.200 (-) PL 127.3 / 445.560 Mhz(-) PL 141.3

Good Frequencies to have pre-programmed into your radios...

Area 1 Simi Valley – K6ERN 146.805 Mhz (-) PL 100.0
Area 2 Conejo Valley, T. Oaks, Newbury Park – N6JMI 147.885 Mhz (-) PL127.3 BOZO
Area 3 Camarillo, Somis,– K6ERN 147.915 Mhz (-) PL 127.3
Area 4 Oxnard, Port Hueneme, NBVC – WB6YQN 146.970 Mhz (-) PL 127.3
Area 5 Ojai Valley – N6FL 145.400 Mhz (-) PL 114.8
Area 6 Ventura City – WA6ZSN 146.385 Mhz (+) PL 127.3
Area 7 Santa Paula, Fillmore, Piru – WA6ZSN 146.385 Mhz (+) PL 127.3
Area 8 Moorpark, Santa Rosa Valley – K6ERN 145.460 Mhz (-) PL 127.3
County-Wide – WD6EBY 145.200 (-) PL 127.3
ACS Portable – VCACS/p 144.930/147.585 Mhz PL 127.3

WD6EBY SP 145.420 Mhz (-) PL 127.3
WD6EBY 447.480 (-) PL 156.7 Hz South Mtn.
K4NGL 145.360 Mnz (-) PL 156.7 Kimberly Peak

Other Good Area Frequencies ...

AA6DP 147.090 Mhz (+) No PL Catalina
K0AKS 147.150 Mhz(-) PL127.3 TOaks
K6CPT DCS 145.300 Mhz (-) PL100.0 LA DCS
K6CPT DCS 147.270 Mhz (-) PL100.0 LA DCS
K6DCS DCS22 147.225 Mhz (+) PL 94.8 LA DCS
K6ERN 146.880 Mhz (-) PL 127.3 SMRA Red Mt.
K6ERN 147.765 Mhz (-) PL 127.3 Olivas Park / SMRA
K6TZ 146.790 Mhz (-)PL131.8 SBARC
KB6C 147.735 Mhz (-) PL 100.0 Oat Mt / MMRA
N6EVC 146.850 Mhz (-) PL 94.8 Rasnow
N6FDR 145.260 Mhz (-) PL 100.0 Malibu
W6AAX 147.180 Mhz (+) PL 186.2 Verdugo Peak
W6GRG 146.940 Mhz (-) PL 127.3 Simi DSW Repeater
W6YJO 145.180 Mhz (-) PL 131.8 Sta Ynez
WA6FGK 146.640 Mhz (-) PL 127.3 Simi Valley
WA6PPS 147.300 Mhz (-) PL 110.9 L.A.City ACS
WB6OBB 147.000 Mhz (+) PL 131.8 Sta Barbara
WD6EBY 145.240 MHz (-) PL 127.3 Chatsworth Pk

Due to assignment and coordination of several D-Star Repeaters, TASMA, the southern California Two meter amateur frequency coordination body, has had to re-align several frequencies. Among these changes are the channelization (15 KHz spacing) of the 145.5 - 145.6 simplex allocation and reassignment of several frequencies from simplex to other uses.

None of the local Ventura County repeaters are directly affected; however several previous simplex frequencies are now in use either as repeater inputs or outputs. **New County ARES Packet frequency is 145.050 Mhz**;

Ventura County ARES-ACS simplex frequencies have been re-assigned as follows:

Area 1 Simi Valley – 145.510 Mhz (S)
Area 2 Conejo Valley, T.O., Newbury Pk – 146.445 Mhz (S)
Area 3 Camarillo, Somis – 146.550Mhz (S)
Area 4 Oxnard, Port Hueneme, NBVC – 146.595Mhz (S)
Area 5 Ojai Valley – 145.555Mhz (S)
Area 6 Ventura City – 147.510Mhz (S)
Area 7 Santa Paula, Fillmore, Piru – 145.540 Mhz (S)
Area 8 Moorpark – 146.535Mhz (S)
County ARES Simplex – 145.615 Mhz (S)
National Simplex – 146.520Mhz(S)

Ventura County ARES / ACS Emergency Coordinators

ACS RO/ARES DEC: Rob Hanson, W6RH, Email: w6rh@arrl.net
Assist ACS RO/Deputy DEC: Rick Tate, KQ6NO Email: kq6no@arrl.net

Area 1 Simi Valley EC: Steve King, KE6WEZ Email: ke6wez@gmail.com
Area 2 TO, Conejo Valley EC: Zack Cohen, N6PK , Email: n6pk@arrl.net
Area 3 Camarillo, Somis EC: Avi Carmi, K6AVI Email: avi@carmi.us
Area 4 Oxnard, Hueneme, Mugu EC:Hovan Salibian, KI6BQL Email: ki6bql@arrl.net
Area 5 Ojai EC: Wayne Francis, W6OEU Email: w6oeu@arrl.net
Area 6 City of Ventura EC (acting): **James (Jim) Aguirre** KM6GUE Email: KM6GUE@gmail.com
Area 7 Santa Paula, Fillmore, Piru EC: **James (Jim) Aguirre** KM6GUE Email: KM6GUE@gmail.com
Area 8 Moorpark, Santa Rosa Valley EC: Marc Hanley KM6B, Email: km6b@arrl.net

ACS/ARES Training and News

Rob Hanson Ventura County ACS Radio Officer, Ventura County ARES District Emergency Coordinator

FCC ENFORCEMENT ADVISORY

WARNING: AMATEUR AND PERSONAL RADIO SERVICES LICENSEES AND OPERATORS MAY NOT USE RADIO EQUIPMENT TO COMMIT OR FACILITATE CRIMINAL ACTS

The Enforcement Bureau (Bureau) of the Federal Communications Commission issues this Enforcement Advisory to remind licensees in the Amateur Radio Service, as well as licensees and operators in the Personal Radio Services, that the Commission prohibits the use of radios in those services to commit or facilitate criminal acts.

The Bureau has become aware of discussions on social media platforms suggesting that certain radio services regulated by the Commission may be an alternative to social media platforms for groups to communicate and coordinate future activities. The Bureau recognizes that these services can be used for a wide range of permitted purposes, including speech that is protected under the First Amendment of the U.S. Constitution. Amateur and Personal Radio Services, however, may not be used to commit or facilitate crimes.

Specifically, the Bureau reminds amateur licensees that they are prohibited from transmitting "communications intended to facilitate a criminal act" or "messages encoded for the purpose of obscuring their meaning." 47 CFR § 97.113(a)(4).

Likewise, individuals operating radios in the Personal Radio Services, a category that includes Citizens Band radios, Family Radio Service walkie-talkies, and General Mobile Radio Service, are prohibited from using those radios "in connection with any activity which is against Federal, State or local law." 47 CFR § 95.333(a).

Individuals using radios in the Amateur or Personal Radio Services in this manner may be subject to severe penalties, including significant fines, seizure of the offending equipment, and, in some cases, criminal prosecution. 47 U.S.C. §§ 401, 501, 503, 510.

Media inquiries should be directed to 202-418-0500 or MediaRelations@fcc.gov.

To file a complaint with the FCC, visit https://consumercomplaints.fcc.gov or call 1-888-CALL-FCC. To report a crime, contact your local law enforcement office or the FBI.

To request materials in accessible formats for people with disabilities (Braille, large print, electronic files, audio format), send an e-mail to fcc504@fcc.gov or call the Consumer & Governmental Affairs Bureau at (202) 418-0530 (voice), (202) 418-0432 (TTY).

Issued by: Chief, Enforcement Bureau **(Cont. on page 30)**

ACS/ARES Training and News (Cont. from page 29)

From: main@vc-acs.groups.io [mailto:main@vc-acs.groups.io] On Behalf Of Hanson, Robert - W6RH
Sent: Wednesday, January 13, 2021 10:24 PM
Subject: [vc-acs] Portable digital Gateway

For those who do not want to spend $300 on an open spot and another $200 for a digital radio there's always Droid-star.

Droid-star is a free app for Android users and it allows you to talk around the world on Yaesu Fusion, P25, DMR, and other digital modes.

You do need a DMR ID and a pi-star self-care password. Here is a link to a page I wrote to get those parameters.
http://www.bflocks.com/kg6fbm/bmpw/

I gave a lecture on DMR to explain the basics. You are more than welcome to view it here:
http://www.bflocks.com/kg6fbm/w6sddmr

73,
Bernard – KG6FBM)

FCC to Require Email Address on Applications Starting on June 29, 2021

To all radio amateurs

SB QST ARL ARLB002
ARLB002 FCC to Require Email Address on Applications Starting on June 29, 2021

Effective on June 29, 2021, amateur radio licensees and candidates must provide the FCC with an email address on all applications. If no email address is included, the FCC may dismiss the application as "defective."

On September 16, the FCC adopted a Report and Order (R&O) in WT Docket 19-212 on "Completing the Transition to Electronic Filing, Licenses and Authorizations, and Correspondence in the Wireless Radio Services." The R&O was published on December 29 in the Federal Register. The FCC has already begun strongly encouraging applicants to provide an email address. Once an email address is provided, the FCC will email a link to an official electronic copy of the license grant. An official copy will also be available at any time by accessing the licensee's password-protected Universal Licensing System (ULS) account.

The R&O is available online in PDF format at, https://www.fcc.gov/document/fcc-adopts-electronic-licensing-report-and-order Licensees can log into the ULS License Manager System with their FRN and password at any time and update anything in their **(Cont. on page 31)**

ACS/ARES Training and News (Cont. from page 30)

FCC license record, including adding an email address. For questions or password issues, call the CORES/FRN Help Line, (877) 480-3201 (Monday - Friday, 1300 - 2300 UTC) or reset the password on the FCC website.

The only way to refrain from providing an email address on an application would be to submit a request to waive the new rule, providing justification for the request. (The FCC would not be obliged to grant such a request.)

Under Section 97.21 of the new rules, a person holding a valid amateur radio station license "must apply to the FCC for a modification of the license grant as necessary to show the correct mailing and email address, licensee name, club name, license trustee name, or license custodian name." For a club or military recreation station license, the application must be presented in document form to a club station call sign administrator who must submit the information to the FCC in an electronic batch file.

Under new Section 97.23, each license must show the grantee's correct name, mailing address, and email address. "The email address must be an address where the grantee can receive electronic correspondence," the amended rule will state. "Revocation of the station license or suspension of the operator license may result when correspondence from the FCC is returned as undeliverable because the grantee failed to provide the correct email address."

ARRL offers online training for hams who want to participate in the Amateur Radio Emergency Service.

The time for training is before a disaster...not during one.

The former Amateur Radio Emergency Communications (AREC) series of three training courses has been reconfigured into two courses: An introductory course and a course for leaders and managers.

Introduction to Emergency Communication (#EC-001)

Revised in 2018, this is an update of the former Level 1 course. It is designed to provide basic knowledge and tools for hams who want to serve as a Public Service volunteer. It provides an opportunity for non-hams who rely on communications in emergency situations to learn about Amateur Radio and its unique role in emergencies.

For start dates, registration deadlines and more visit www.arrl.org/online-course-catalog

Public Service and Emergency Communications Management for Radio Amateurs (#EC-016)

Launched in 2010, this course is designed for Amateur Radio operators who will be in leadership and managerial roles, organizing other volunteers to support public service activities and communications emergencies. Participants will learn how radio amateurs prepare to support local community events and, when working in coordination with governmental and emergency response organizations, how to deploy their services. This is a self-study course. For more information and to register visit www.arrl.org/online-course-catalog.

PR-101: ARRL Public Relations (EC-015)

This is a basic training course for PIOs and anyone interacting with the media and promoting Amateur Radio.

This course is designed to give hams a quick overview in public relations activities. It uses the skills of experts in various aspects of public relations to provide volunteer Public Information Officers with the basic skills and expectations that a PIO needs to know to be effective in their home region.

PR-101 covers everything from the basic news release to Web sites and video work.

This course is available--free! – on-line, or can be purchased in CD format from the ARRL store.

Local Area Radio Weekly Nets by Wayne Woodhams, N6WIX

Monday

Cuckoo Net 146.790 MHz (-) 131.8 Hz PL and 145.180 MHz (-) 131.8 Hz PL MTWThF from 08:00 Hrs

Auxiliary Bored Meeting: MTWThF at 09:00 and on Saturday at 21:00 Hrs : Bozo Repeater Frequency: 147.885 MHz Offset: -PL: 127.3

California Rescue ARES Net 7.25 MHz MTWThF 08:30 Hrs

Santa Barbara South County ARES net 19:30 Hrs on 146.79 MHz (-) PL 131.8.

Southwest ACS Nets Every Monday at 18:30 Hrs, on a local station on the Cactus Intertye Network. Check-in by roll call. 4th Monday "grid test" 20:30 Hrs.

LA DCS-22 Net – 19:30 Hrs - K6DCS - 147.225 MHz (+) then on 7.2353 MHz LSB

K6MEP Net -20:00 Hrs 145.200 MHz (-) 127.3 PL

CESN (California Emergency Services Net) at 20:00 Hrs Primary frequency - 3992 kHz, Backup frequency - 3960 kHz. All free to listen, check-in by membership only.

LA Section ARES Net - HF Every Monday following the VHF/UHF net (21:30 Hrs) 1st. 3rd and 4th Monday - 75 meters 3.995 MHz (± 45 kHz) / 2nd Monday -10 meters 28.495 MHz

Tuesday

Cuckoo Net 146.790 MHz (-) 131.8 Hz PL and 145.180 MHz (-) 131.8 Hz PL MTWThF from 08:00 Hrs

California Rescue ARES Net 7.250 MHz MTWThF 08:30 Hrs

Ventura County ARES-ACS 6 Meter Net - between 18:45 Hrs to 19:00 Hrs K6SMR 52.980 MHz (-) PL 82.5 SMRA Red Mt

Ventura County ARES-ACS Simplex Net - 18:30 Hrs on 147.510 MHz Simplex ORT schedule only!

Ventura County ARES-ACS HF Net - between 18:30 Hrs to 19:00 Hrs 40M on 7.235 MHz LSB +/-

Ventura County ARES/ACS Nets between 19:00 and 20:00 Hrs. The County-wide net starts at 19:30 Hrs and normally finishes by 20:00 Hrs on WD6EBY 145.200 MHz (-) /127.3 PL

SBARC Swap Net 146.790 MHz (-) / 131.8 Hz PL and 145.180 MHz (-) / 131.8 Hz PL 19:30-20:00 Hrs

West SB ARES HF Net (1" Tuesday, Monthly) 3822 kHz LSB 20:30 Hrs

6-Meter Roundtable - 50.125 MHz USB First Tuesday of each month 20:00 Hrs

ATV Net 20:30 Hrs 148.790 MHz (-) / 131.8 Hz PL RITZ repeater

SBARC Digital Communications Net 146.790 MHz (-) / 131.8 Hz PL and 145.180 MHz (-) / 131.8 Hz PI 8:00 - 10:00 PM

Wednesday

Cuckoo Net 146.790 MHz (-) 131.8 Hz PL and 145.180 MHz (-) 131.8 Hz PL MTWThF from 08:00 Hrs

California Rescue ARES Net 7.25 MHz MTWThF 08:30 Hrs

CESN (California Emergency Services Net 10:00 Hours, Primary frequency 7192 kHz, Backup frequency - 7230 kHz All free to listen, check-in by membership only.

SMRA Tech Net 146.880 MHz (-) / 127.3 PL (SMRA Red Mt) 20:00 Hrs

SBARC Swap Net 146.790 MHz (-) / 131.8 Hz PL K872 20:00 Hrs

Teamtalk Voice Net.20:00 Hrs k6pvr-svr.local.mesh server http://www.pvarc.club/mesh/mesh-applications/

Thursday

Cuckoo Net 146.790 MHz (-) 131.8 Hz PL and 145.180 MHz (-) 131.8 Hz PL MTWThF from 08:00 Hrs

California Rescue ARES Net 7.25 MHz MTWThF 08:30 Hrs

So Cal 6 meter net. 51.940 MHz - pl 82.5. 19:00-20:00 Hrs

Southern Calif 6M SSB Technical Roundtable Net 20:00 Hrs on 50.2 MHz USB SSB

SBARC / K6TZ Technical Mentoring Net 20:00-21:00 Hrs 146.790 MHz (-) / 131.8 Hz PL and 224.08 MHz (-) 131.8 PL (linked)

Friday

Cuckoo Net 146.790 MHz (-) 131.8 Hz PL and 145.180 MHz (-) 131.8 Hz PL MTWThF from 08:00 Hrs

California Rescue ARES Net 7.250 MHz MTWThF 08:30 Hrs

Saturday

Military Radio Collector Net 18:00 Hrs 3985 kHz AM vavw.mrcuwestord/mrca-radio-nets/

Sunday

ARRL Southwestern Division Net 08:00 Hrs 3965 MHz. ARRL Officers check in first. All visitors welcome at end of that net

Newbie Net 19:00-19:30 Hrs Bozo Repeater 147.885 MHz (-) PL127.3

Rabbit Net 19:00 Hrs Linked Rabbit repeater.

NEWS FROM PVARC

PVARC Repeater News

Paul WD6EBY was at the Camarillo Hills repeater site on January 22nd. He cleaned the battery system and installed a second bank of batteries, recently acquired from N6VI.

Camarillo now has the same capacity at Chatsworth Peak. The plus for Camarillo is the solar system and a small 5 amp float charger.

He's going to let the battery banks equalize with each other for a few days. Then the next step is to turn on the 24v to 110v inverter to power the Ubiquiti network switch. When that's done both the network equipment and the repeater will be on battery power. **(Cont. on page 35)**

NEWS FROM PVARC (Cont. from page 34)

(Cont. on page 36)

NEWS FROM PVARC (Cont. from page 35)

On January 24th Paul returned to the Camarillo Hills site. Several more projects were completed:

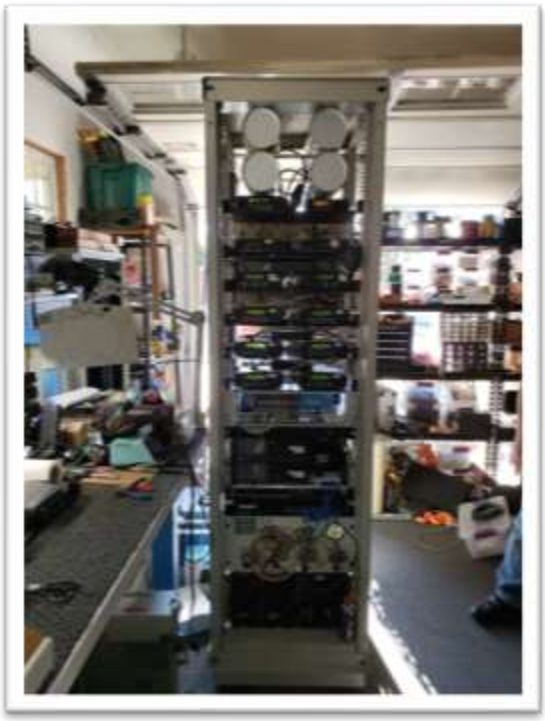
- Checked the antenna VSWRs - all were as they should be.

- In preparation for the new South Mountain system the 420MHz link antenna from Sulphur Mountain was reoriented to the South Mountain site. A new 5 GHz dish antenna was installed, pointing to South Mountain. The corresponding 5 GHz dish at South Mountain will be installed on a future visit.

- Added the remote monitor unit for the Morning Star MTTP-30 charge controller. With the latest firmware release from Morning Star this interface is now working as it should.

(Cont. on page 37)

NEWS FROM PVARC (Cont. from page 36)



(Cont. on page 38)

NEWS FROM PVARC (Cont. from page 37)

Work continues on the new South Mountain site project. Paul has preinstalled most of the equipment in the new rack. Here's a photo of the front of it (and Paul's foot) almost finished. A view of the back would show almost the same equipment density! Its tentative installation date is at least several weeks away. Once in place, most services will be transitioned from the old South Mountain site to the new one.

PVARC Network News

The network has been fairly stable recently. There's been no high-level expansion of the network recently, due mostly to lack of available sites.

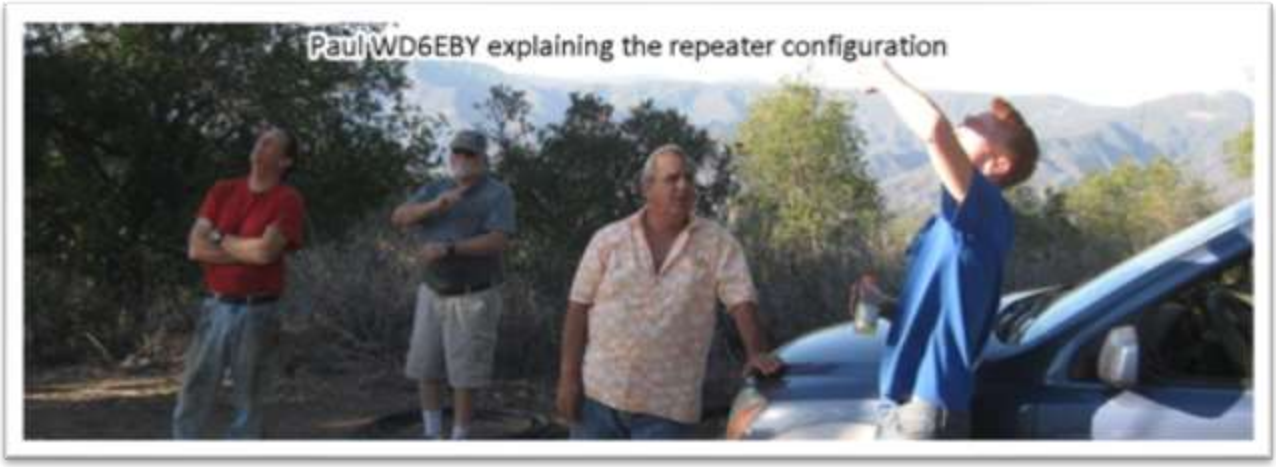
At last inventory (done every month at mid-month), there were about 740 nodes on the network visible to KG6WXC's network mapper. Quite a few of them are not local, but rather linked via Internet tunnels from elsewhere. A bit over 400 are in Southern California, from Santa Barbara to the Mexican border, and halfway east to Nevada.

Work continues on linking the various VOIP PBXes in the area together. While being able to talk to someone a hundred miles away via a ham radio network isn't vital for local emergencies, it lets us test our EmComm abilities a bit more.

We recently enabled a Winlink Post Office on the mesh network. It's located on Sulphur Mountain but may move to the new South Mountain site in the future. Moving Winlink traffic via the mesh network is fast and easy.

73

Orv W6BI



ARRL Santa Barbara Section Mgr. John Kitchens NS6X

(repeated from the last six months as John still has positions to fill)

Hello all,

I have been trying to fill Section volunteer positions for a while. I am giving another push. I am pleased to let you know that our Section Emergency Coordinator is Richard Tate, KQ6NO from Santa Paula. (Congratulations and thanks to Rick for taking on this position in addition to his ACS/ARES assignment as Assistant ACS Radio Officer/ARES Assistant DEC.

Richard will be contacting you to see how each county operates emergency communications, and to see how the ARES SEC role will be able to assist and coordinate between the 3 counties in the Section. I have been the SEC for about 3 years. I should not be both the Section Manager and SEC. We need to have more focus on each position.

I am looking forward to spending more time on being SM. One of the tasks that I have passed off to Rick, among others, is the EmComm and volunteer hours reporting to ARRL headquarters.

Additionally, Andy Ludlum, K6AGL, member of the Conejo Valley Amateur Radio Club, has been appointed as the first Assistant Section Manager in the Santa Barbara Section. The SM position will be a club liaison for me, the Section Manager, to have a person in the know hopefully at each club. I really have little to no secret ARRL information, but when I am aware of issues, successes, opportunities, we can work together to accomplish our goals.

There are many volunteer positions to fill in the Section. The one that I am focusing on right now is the Section Traffic Manager. The STM will manage the Section's involvement in the National Traffic System. We need to work on and develop the NTS in the Section. There is quite a bit of work to do, but there are several dedicated volunteers in the Section, working within the NTS, who will make the system work.

Let me know if you would like to volunteer for the STM position, or any volunteer position. I'll be talking about specific positions in the coming months.

Santa Barbara Section Volunteers

Right now, we have 2 Section email systems. That is partly why we need volunteers to help rectify (electrical term) this issue. To make sure that everyone is getting the information, I will be sending emails through both systems. This email is for hams registered at the ARRL website as being in the Santa Barbara Section.

So, what do you get for being a volunteer? A special name/callsign badge and a certificate. And the satisfaction of helping ham radio in many aspects. I am still looking for volunteers to fill the remaining Section Leadership positions. The jobs are: **(Cont. on page 40)**

ARRL SB Section Mgr. John Kitchens NS6X (Cont. from page 39)

Assistant Section Manager (essentially a club liaison - one from each club, preferably)
Local Government Liaison (a person to be the contact for the local government, could be a city or county - to understand the local issues. Not to be a political operative or community organizer, but to be a positive contact for the local government, answer the government leader's questions, be aware of whom the players are)
Traffic manager - (the traffic system in the Section runs well, but needs a bit of coordination throughout the Section, and most importantly, finding new bodies to join the traffic system. Maybe the various Morse groups could provide people to be trained as traffic messengers).
Public Information Coordinators - (We have an excellent PIO, but each club should have someone who handles public information contacts, such as social media, print media, video (television, cable, YouTube etc.) media and more.)
Section Youth Coordinator (Doesn't need to be a teenager, but it could be. Someone who will focus ham radio toward the youth - schools, makers etc. Someone to help clubs do so, if they are so inclined.)
Club Coordinator (help get clubs active, motivated and working in the general support for ham radio. Some other type of groups will bring in a speaker to talk at all clubs for a reduced cost. We would like to have a Santa Barbara Section conference again. Need someone to help make it happen - just a small conference/Hamfest - look at the Yuma Arizona Hamfest.
Technical Specialist (working with the Technical Coordinator, maybe have experts "Elmers" for various aspects and specialties. How to get on FT8 (why won't my computer key my KX3; I can decode signals, just not key the radio), contesting, setting up a station, RFI solutions, use of chokes and why, homebrewing, how to solder - or crimping - how to install a coax connector, what is DMR/etc. and how to make my radio work - what is a hotspot, and more. We could use a dozen or more people.
Webmaster (I am not a web guy. Who is, or what groups of people are, who could help us? We need a Section website)
Special Event coordinator (We have a small Section budget that can cover some costs such as website hosting). The following clubs are ARRL affiliated:
Conejo Valley ARC (Andy Ludlum, K6AGL Assistant Section Manager)
Ventura County ARC (K6MEP)
Ventura County ARS
Simi Settlers ARC
Santa Barbara ARC
UC Santa Barbara ARC
Paso Robles ARC
Cal Poly San Luis Obispo ARC
Satellite ARC
And hopefully Pleasant Valley ARC soon.
(Cont. on page 41)

ARRL SB Section Mgr. John Kitchens NS6X (Cont. from page 40)

There are more groups and clubs, which should not be ignored, but these are the "affiliated" clubs. The Section includes the counties of San Luis Obispo, Santa Barbara and Ventura. More schools, middle, high, community college and college/university should have a radio club.

Let me know if you would like to help, or get more information. Get one of those pretty, special color ARRL badges. No membership is required.

Subject: Re: [K6MEP] Learning Code

The Conejo Valley ARC has a morse group that has a 10 meter weekly code training net. Info can be found at:
http://www.cvarc.org/morse-group/
There are Morse groups throughout the country. It really isn't difficult to learn or increase speed.

John, NS6X

John Kitchens, NS6X
PO Box 178
Somis, CA 93066
805.216.2569
NS6X@ARRL.org
NS6X@ARRL.net

Meeting Location Maps (meetings may be on-the-air, please check K6MEP.org)

K6MEP Membership Application. Dues are due in October. Please mail the completed form (see below) or the one on K6MEP.org.

To join the Ventura County Amateur Radio Club, Inc. (also known as VCARC or K6MEP), complete and send form, along with $20 annual dues, to VCARC P.O. Box 2103 Oxnard CA 93034-2103

Checks can be written to either Ventura County Amateur Radio Club, Inc. or VCARC

Pro-rate dues as follows based on our calendar year ending October 31 (Oct-Dec = $20, Jan-Mar = $15, Apr-Jun=$10, Jul-Sep=$5). Existing members should renew every October =$20.

Name (Last, First)_____ Call sign_____ License Type_____

Address Street_____ City, State Zip_____

Email_____ Telephone_____ Date of Application_____

Y/N for the following: New Member _____ Renewing _____ Member of ARRL?_____

I'd Like To See/Do....

TOPIC	YOUR INTEREST LEVEL			COMMENTS
	Meh	Ok	Yayy!	
All about coax cables				
Amateur Radio Satellites				
Antenna construction project				
Antenna ordinances				
ARES, ACS, CERT, RACES, MARS, SkyWarn				
Assembling a Go-Box				
Assembling a test lab				
Best bands to get on & what to expect				
Construction projects, like_____				
Ferrites, and demonstrations of.				
Field Day – Strategies, Tactics and Techniques				
FRS & GMRS - what are those?				
Ham Radio projects for Arduinos & Raspberry Pi				
VHF Digital Modes: D-Star, Packet, APRS				
HF Digital Modes: RTTY,JT65,WSPR,PSK31,PACTOR,FT8				
How to use an oscilloscope				
Local Repeaters You Can Hit				
MESH				
Moonbounce				
More social events, picnics, etc.				
NVIS for regional HF communications				
QSLs, QSL cards, ARRL LOTW, eQSL				
SDR - Software Defined Radios				
Compact HF antennas				
Soldering				
Sulphur Mountain Repeater Association				
SWR, Meaning and Measurement.				
Troubleshooting				
Vacuum Tubes				
VHF and Above Contesting				
What's DTMF, CTCSS, and PL?				
Power amplifiers and receiver preamplifiers				
Assembling Emergency Supplies				
The Love of Morse Code. Keys, Paddles & Bugs.				
The HF Reverse Beacon Network				
ARRL American Radio Relay League topics				

I can give a presentation on:	

ARRL News (all photos and icons from ARRL.org or other specified sources)

COVID-19 Information from ARRL

For more ARRL COVID-19 information see http://www.arrl.org/arrl-news-coronavirus-covid-19

A Message for ARRL Member Volunteers for Responding to COVID-19

Dear Member Volunteer,

The ARRL staff team has received many inquiries from our members seeking guidance or offering suggestions during the current crisis. We hope everyone is adhering to CDC and local health department guidelines by staying home, maintaining safe distances when around people, and following sanitary practices. Many radio clubs have canceled upcoming meetings, exam sessions, hamfests & conventions. ARRL has established a web page with news, information, cancellations, and resources of interest to ARRL members and our global amateur radio community. Visit www.arrl.org/COVID-19.

With many radio amateurs staying home there are opportunities to get on the air and call CQ or meet on the local repeater. We certainly don't need a reason to get on the air; after all, that's what hams do.

In terms of ham radio preparedness, this current crisis has not disrupted communications on a national scale. We know many of our members practice and train for a personal radio communication capability that can be called on when disaster strikes. Amateur Radio Emergency Service® (ARES) volunteers and our partners in providing emergency communications already routinely monitor the information and requests from Emergency Coordinators and the like. Station and skills readiness are tenets of the Amateur Radio Service – and this current crisis hasn't changed this.

If you are a radio amateur serving your community through ARES or by volunteering with any of our partners in providing public service communications, thank you. ARES members routinely monitor the information and requests from their ARES Emergency Coordinators. We are grateful for all the ways you stand-ready to support the emergency service personnel in your communities when disaster strikes.

Again, we encourage all member volunteers to remain safe, and to follow the guidelines and requests of your national and local government officials and public health leaders. For those members who are healthy and safe at home, we can encourage you to get on the air:

Get on the air. As online fatigue and a feeling of isolation will inevitably creep into our "new normal," being on-air will introduce variety into our communication practices. As many of us are now homebound or working and studying from home, turning on a radio to connect with your ham radio peers will be welcome respite! **(Cont. on page 45)**

COVID-19 Information from ARRL **(Cont. from page 44)**

Radio Clubs. Think of this current challenge as an opportunity to encourage our club's members to get on the air. Move (short) meetings to the club's repeater, and encourage check-ins. Organize skeds, nets, and challenges. Try different bands (HF, VHF, UHF…) and modes. This will also help new radio amateurs gain practical operating experience.

Readiness. Station and skills readiness are tenets of the Amateur Radio Service. Any time we spend on the air will contribute to developing and practicing our personal radio communication capability. Every day, we draw inspiration from members who share our passion for radio communications. We are grateful to support radio amateurs in our common pursuit of skill, service, and discovery. ARRL remains steadfast in serving you.

Thank you. We hope that you and your loved ones remain safe.

ARRL the national association for amateur radio®

ARRL on the Purpose of Amateur Radio

For over 100 years amateur radio and ARRL — the National Association for Amateur Radio® — have stood for the development of the science and art of communications, public service, and the enhancement of international goodwill. Amateur Radio's long history and service to the public has solidified the well-earned reputation that "Amateur Radio saves lives."

Amateur Radio Operators, due to their history of public service, their training, and the requirement that they be licensed by the FCC have earned their status as a component of critical communications infrastructure and as a reliable resource "when all else fails."

Amateur Radio is about development of communications and responsible public service. Its misuse is inconsistent with its history of service and its statutory charter. ARRL does not support its misuse for purposes inconsistent with these values and purposes.

ABOUT THIS EMAIL
This message was sent to ARRL members. If you have an ARRL user account, you can manage your email preferences at www.arrl.org/myarrl.

ARRL, the national association for Amateur Radio®
225 Main Street, Newington CT, 06111-1400 USA
860-594-0200

www.arrl.org

(**Cont. on page 46)**

ARRL News **(Cont. from page 45)**

Eastern Iowans Rely On Ham Radio When Severe Weather Strikes

A derecho with winds of 80 to 100 MPH struck eastern Iowa last August, disrupting power and telecommunications for some 400,000 residents. But, as ARRL member and Amateur Radio Emergency Service (ARES®) volunteer Scott Haney, N0GUD, recently explained to *The Gazette* in Cedar Rapids, that's when amateur radio shines.

Haney, the president of the Cedar Valley Amateur Radio Club (**CVARC**), was the focus of the January 19 feature, "2nd-largest per-capita group of amateur radio operators in the world calls Eastern Iowa home," by Molly Rossiter.

"For some people, [amateur radio is] merely a hobby, but for a lot of us, it's much more than that," Haney said. "Ham radio operators are involved in emergency management, in large event management, in a large variety of things. A lot of times people don't know we're there, but we're actually a large part of planning and carrying out many events and gatherings," he said. "People don't realize, especially in weather events like hurricanes, [that] amateur radio is a huge part of getting people in and out of dangerous areas. We've been doing that for decades."

As the article notes, the fact that Collins Aerospace (formerly Collins Radio and Rockwell Collins) calls Cedar Rapids home is believed to be the reason for the second-highest population density of hams in the world in Eastern Iowa.

Haney retired in 2019, after 30 years with Rockwell Collins and Collins Aerospace. He's been licensed for more than 40 years.

Orlando HamCation Online Event and QSO Party Set

Orlando HamCation has announced it will sponsor the **HamCation QSO Party** over the February 13 – 14 weekend (UTC), "to create a fun way for amateurs to celebrate the Orlando HamCation experience over the air."

The HamCation QSO Party will be a 12-hour event on HamCation weekend. HamCation 2021 was to host the ARRL National Convention, which now will take place in 2022.

"The QSO party will replicate the camaraderie and social experience of attending HamCation and provide a way to have fun on the radio, since HamCation 2021 will not be held due to COVID-19," the HamCation QSO Party Committee said. The HamCation QSO Party will run from 1500 UTC on February 13 until 0300 UTC on February 14. It will be a CW and SSB operating event on 80, 40, 20, 15, and 10 meters. Any station may work any other station.

Categories will be High Power (more than 100 W output), Low Power (100 W output or less, but greater than 5 W), and QRP (5 W output or less). All participants will be single operators; there is no multi-operator category. The exchange will be your name and state/province/country, and the outside temperature at your location. "We are including temperature at your QTH as a way of highlighting Orlando's mild February weather," the committee said.**(Cont. on page 47)**

ARRL News (**Cont. from page 46)**

Nine HamCation special event stations with 1 × 1 call signs will be on the air with combined suffixes spelling out HamCation (e.g., K4**H**, W4**A**, K4**M**, etc). Each contact will count as one point, and stations may be worked once on each band and mode. Entrants will report their scores on **www.3830Scores.com**; no logs are required. Final results will be based on the information submitted to the website.
Station guest operators must use their own call signs and submit their scores individually. Plaques and certificates will be awarded.

Virtual HamCation Set

The **Orlando HamCation** Special Edition online event over the February 13 – 14 weekend will take the place of what would have been the HamCation 2021 in-person show.
The online event will include youth, technology, contesting, and vendor **webinar tracks**. ARRL will also present two webinars on Saturday, February 13.
ARRL Member Forum at 1 PM EST, moderated by ARRL Southeastern Division Director Mickey Baker, N4MB.
Amateur Radio Emergency Service (ARES®) presentation at 3 PM EST, moderated by ARRL Director of Emergency Management Paul Gilbert, KE5ZW. The ARES presentation will include panelists from ARRL Section Emergency Coordinators in Florida. Live, online prize drawings also are scheduled during the HamCation Special Edition online event.

New Amateur VLF Transatlantic Record Set

Very low frequency (VLF) enthusiast Joe Craig, VO1NA, reports that Stefan Schaefer, DK7FC, copied his 50-character message transmitted from Newfoundland on 8.271 kHz, with a radiated power of 10 mW.

"This is a new record for amateur transatlantic VLF," Craig told ARRL. "The mode used was EbNaut by Paul Nicholson. EbNaut is a synchronous coherent BPSK mode for use at VLF and low LF. Craig's tower supports a VLF RL (rotated L) 10-meter (33 feet) average height and 100 meters (328 feet) long. VLF is the ITU designation for radio spectrum in the range of 3 – 30 kHz, corresponding to wavelengths from 100 to 10 kilometers, respectively.
"Since VLF waves can penetrate at least 40 meters (131 feet) into saltwater, they are used for military communication with submarines," Craig noted. **(Cont. on page 48)**

ARRL News (Cont. from page 47)

Dayton Hamvention Cancels 2021 Show

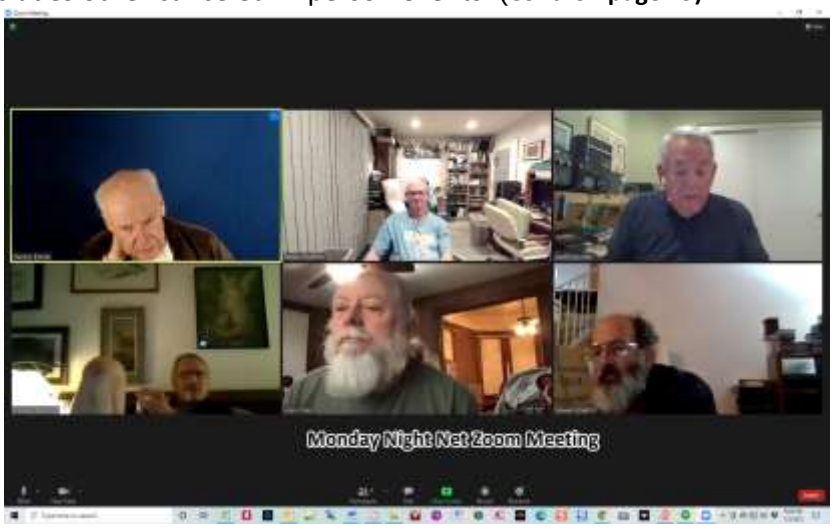
Dayton Hamvention® will not take place for the second year.

"Unfortunately, several setbacks in the recovery from the COVID-19 pandemic make necessary the difficult decision to cancel Hamvention 2021," a January 11 announcement from the Hamvention Executive Committee said. Sponsored by the Dayton Amateur Radio Association (**DARA**), Hamvention was set to take place May 21 – 23 in Xenia, Ohio.

"Hundreds of volunteers have been working to do everything necessary to bring this Hamvention to the many amateur radio enthusiasts and vendors who support the Dayton Hamvention. Vaccine distribution both in the United States and around the world is lagging behind what was planned. In addition, the emergence of a more communicable form of the COVID-19 virus increases the potential for further public health problems in the next few months. We make this difficult decision for the safety of our guests and vendors. Those who had their tickets deferred last year will be deferred again."

The committee said the show would return in 2022 and hinted at a QSO party for Hamvention weekend. In November, Hamvention had announced that "The Gathering" would be the theme for the 2021 show.

Hamvention is the largest annual amateur radio gathering in the US and was host of the ARRL National Convention in 2019. The ARRL **Hamfest and Convention Calendar** includes a searchable database that includes other canceled in-person events. (**Cont. on page 49**)



ARRL News (Cont. from page 48)

Seven US Schools Move Forward in ARISS Selection Process

Amateur Radio on the International Space Station (ARISS) has announced that seven schools or host organizations selected for the July – December 2021 contact window have moved forward planning process to host a scheduled amateur radio contact with a space station crew member. ARISS' primary goal is to engage young people in science, technology, engineering, arts, and math (STEAM) activities and raise their awareness of space communications, radio communication, space exploration, and related areas of study and career possibilities.

ARISS is now working with hosts to complete acceptable equipment plans that demonstrate their ability to carry out the ham radio contact. Once their equipment plan is approved by the ARISS Technical Mentors, the final list of host schools/organizations will be scheduled as their availability and flexibility match up with contact opportunities offered by NASA. The schools/organizations are:

Monroe Carell Jr. Children's Hospital at Vanderbilt University in Nashville, Tennessee
Tarwater Elementary School in Chandler, Arizona
Museum of Science & Technology in Syracuse, New York
SpaceKids Global and Girl Scouts of Citrus in Winter Park, Florida
Illinois Wing Civil Air Patrol in St. Charles, Illinois
Children's National Hospital in Washington, DC
Savannah River Academy in Grovetown, Georgia.

This year, ARISS is celebrating 20 years of continuous amateur radio operations on the ISS.

(Cont. on page 50)

ARRL Asks FCC to Allow 3.4 GHz Operation Until Spectrum is Occupied

In comments to the FCC, ARRL has argued that radio amateurs be allowed to continue shared operation in the 3.4 GHz band until 5G licensees who purchase the spectrum when the FCC puts it up for auction initiate incompatible operations. In its *Further Notice of Proposed Rulemaking* (*FNPRM*) in WT Docket 19-348, the FCC had proposed to sunset the band for amateur radio in two phases, governed by when new licenses are issued rather than when the new licensees begin to use the spectrum. In the *FNPRM*, the FCC solicited comments on whether alternatives exist to its proposal.

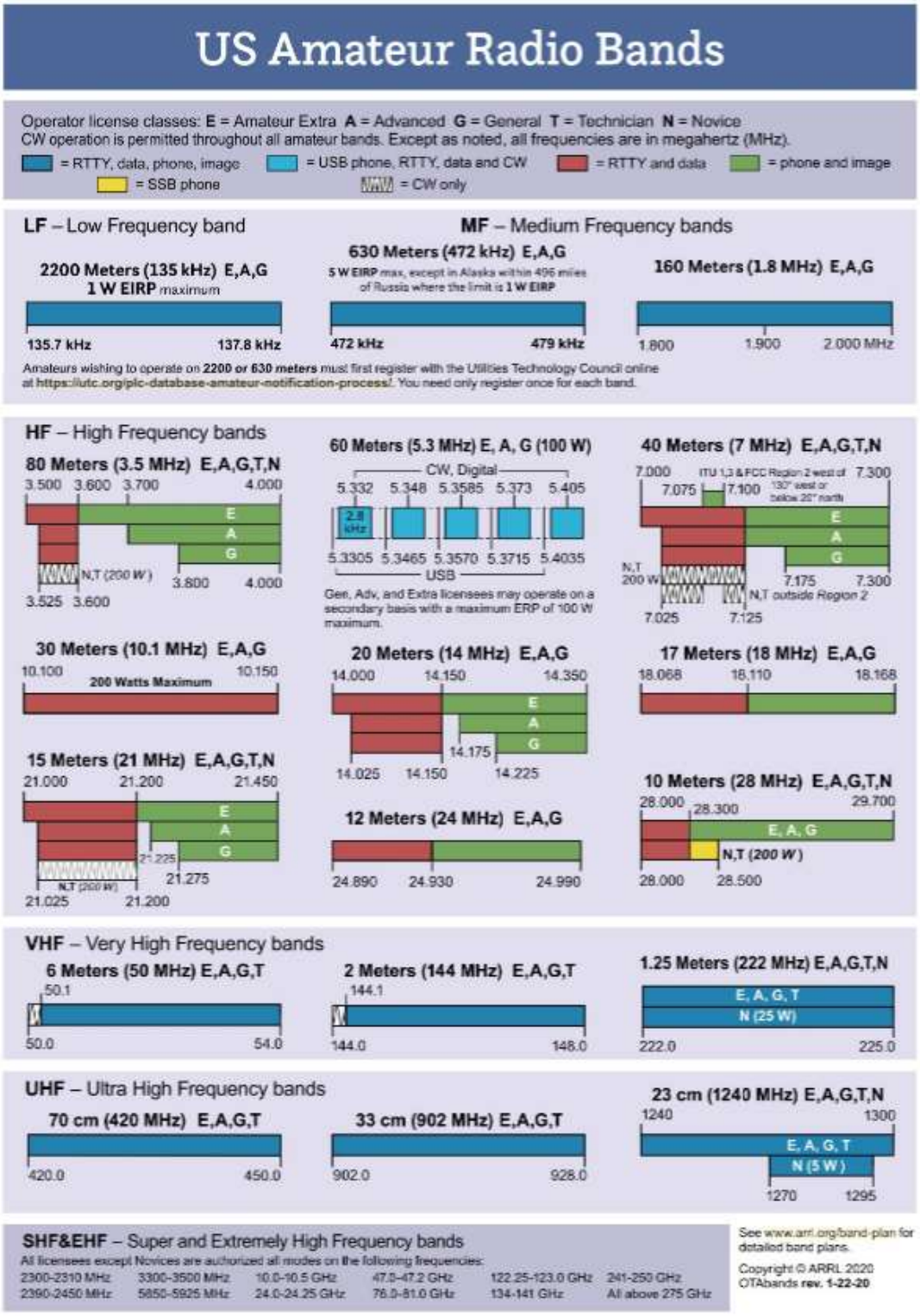
"Amateur activities further the public interest and should be permitted to continue on a secondary basis unless and until a new primary licensee is ready to occupy the spectrum in a preclusive manner," ARRL told the FCC. "At a minimum, amateur operations should be permitted to continue indefinitely in the 3.3 – 3.45 GHz spectrum, where no new flexible licenses are under immediate consideration. The Commission could consider whether a registration or other mechanism similar to that found in §97.303(g) would facilitate avoiding interference." §97.303(g) contains specific frequency-sharing requirements for the 2200- and 630-meter amateur bands.

"Amateurs often select the 3.4 GHz spectrum precisely because other spectrum choices are sub-optimum or simply not available. Amateurs also are only secondary users on most of the other spectrum suitable for similar purposes," ARRL said. "Links must be carefully engineered because of that secondary status, which applies to most of the 2.4 and all of the 5.8 GHz bands available to amateurs." ARRL emphasized the importance of allowing amateurs to continue to use the 3.4 – 3.45 GHz portion in particular.

ARRL pointed out that in many geographic areas it could be years before the 3 GHz spectrum is actually put into use by commercial users, and argued that amateur radio should be allowed to continue to operations on a secondary, non-interference basis as it has done for decades with federal primary users, until new uses actually begin, rather than when licenses are issued.

ARRL petitioned the FCC last November to reconsider its order removing the secondary amateur allocation at 3.3 – 3.5 GHz and requiring that amateur operations in the 3.450 – 3.500 GHz band cease "on a date consistent with the first possible grant of flexible use authorizations to new users."

(Cont. on page 51)



(Cont. on page 52)

W1AW Schedule

PAC	MTN	CENT	EAST	UTC	MON	TUE	WED	THU	FRI
6 AM	7 AM	8 AM	9 AM	1400		FAST CODE	SLOW CODE	FAST CODE	SLOW CODE
7 AM-1 PM	8 AM-2 PM	9 AM-3 PM	10 AM-4 PM	1500-1700 1800-2045	VISITING OPERATOR TIME (12 PM-1 PM CLOSED FOR LUNCH)				
1 PM	2 PM	3 PM	4 PM	2100	FAST CODE	SLOW CODE	FAST CODE	SLOW CODE	FAST CODE
2 PM	3 PM	4 PM	5 PM	2200	CODE BULLETIN				
3 PM	4 PM	5 PM	6 PM	2300	DIGITAL BULLETIN				
4 PM	5 PM	6 PM	7 PM	0000	SLOW CODE	FAST CODE	SLOW CODE	FAST CODE	SLOW CODE
5 PM	6 PM	7 PM	8 PM	0100	CODE BULLETIN				
6 PM	7 PM	8 PM	9 PM	0200	DIGITAL BULLETIN				
6:45 PM	7:45 PM	8:45 PM	9:45 PM	0245	VOICE BULLETIN				
7 PM	8 PM	9 PM	10 PM	0300	FAST CODE	SLOW CODE	FAST CODE	SLOW CODE	FAST CODE
8 PM	9 PM	10 PM	11 PM	0400	CODE BULLETIN				

W1AW's schedule is at the same local time throughout the year. From the second Sunday in March to the first Sunday in November, UTC = Eastern US time + 4 hours. For the rest of the year, UTC = Eastern US time + 5 hours.

♦ Morse code transmissions: Frequencies are 1.8025, 3.5815, 7.0475, 14.0475, 18.0975, 21.0675, 28.0675, 50.350, and 147.555 MHz.

Slow Code = practice sent at 5, 7½, 10, 13, and 15 WPM.

Fast Code = practice sent at 35, 30, 25, 20, 15, 13, and 10 WPM.

Code bulletins are sent at 18 WPM.

For more information, visit us at
www.arrl.org/w1aw

♦ W1AW Qualifying Runs are sent on the same frequencies as the Morse code transmissions. West Coast qualifying runs are transmitted by various West Coast stations on CW frequencies that are normally used by W1AW, in addition to 3590 kHz, at various times. Underline 1 minute of the highest speed you copied, certify that your copy was made without aid, and send it to ARRL for grading. Please include your name, call sign (if any), and complete mailing address. Fees: $10 for a certificate, $7.50 for endorsements.

♦ Digital transmissions: Frequencies are 3.5975, 7.095, 14.095, 18.1025, 21.095, 28.095, 50.350, and 147.555 MHz.

Bulletins are sent using 45.45-baud Baudot, PSK31 in BPSK mode, and MFSK16 on a daily revolving schedule.

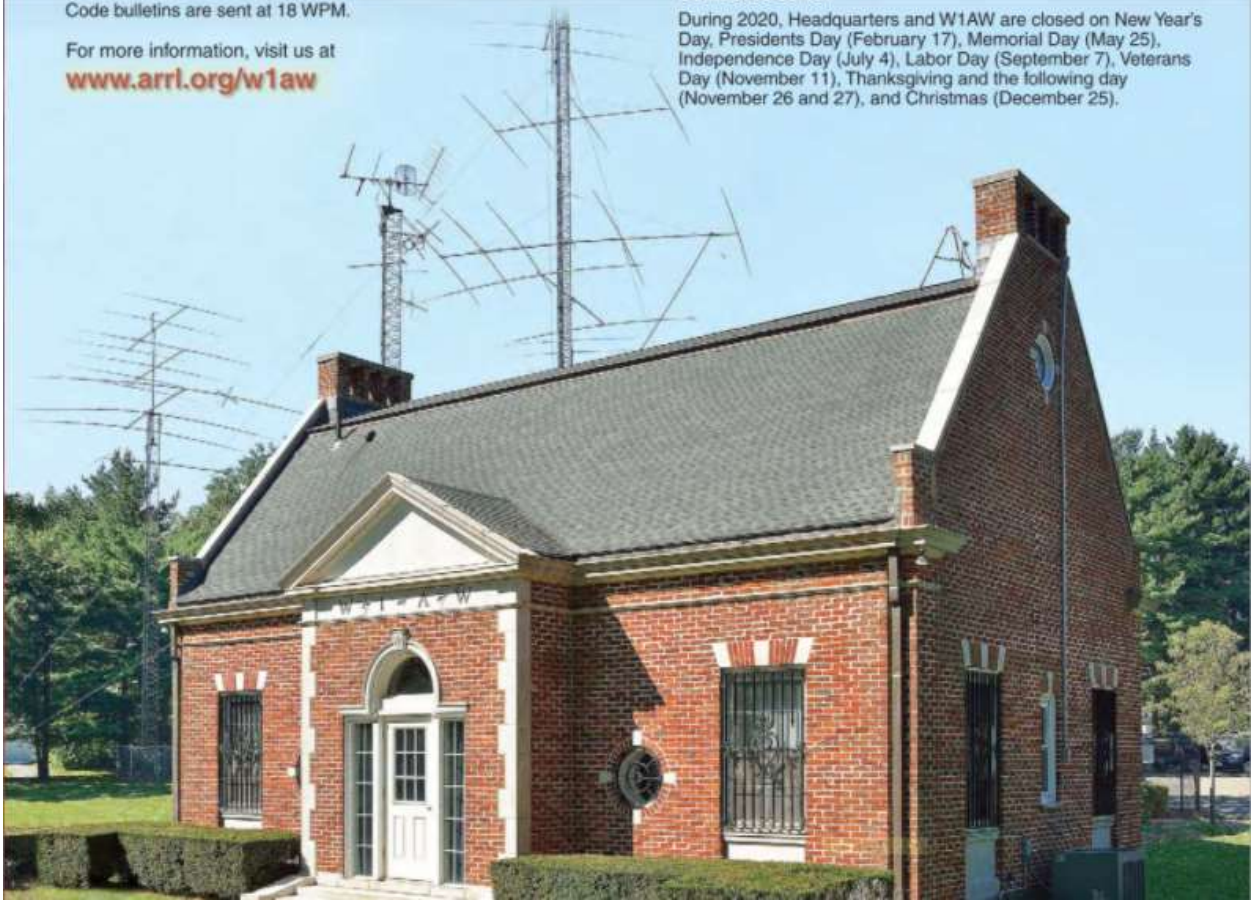
Keplerian elements for many amateur satellites will be sent on the regular digital frequencies on Tuesdays and Fridays at 6:30 PM Eastern time using Baudot and PSK31.

♦ Voice transmissions: Frequencies are 1.855, 3.99, 7.29, 14.29, 18.16, 21.39, 28.59, 50.350, and 147.555 MHz. Voice transmissions on 7.290 MHz are in AM double sideband, full carrier.

♦ Notes: On Fridays, UTC, a DX bulletin replaces the regular bulletins. W1AW is open to visitors 10 AM to noon and 1 PM to 3:45 PM Monday through Friday. FCC-licensed amateurs may operate the station during that time. Be sure to bring your current FCC amateur license or a photocopy. In a communication emergency, monitor W1AW for special bulletins as follows: voice on the hour, teleprinter at 15 minutes past the hour, and CW on the half hour.

W1AW code practice and CW/digital/phone bulletin transmission audio is also available real-time via the *EchoLink Conference Server* W1AWBDCT. The conference server runs concurrently with the regularly scheduled station transmissions. The W1AW Qualifying Run texts can also be copied via the EchoLink Conference Server.

During 2020, Headquarters and W1AW are closed on New Year's Day, Presidents Day (February 17), Memorial Day (May 25), Independence Day (July 4), Labor Day (September 7), Veterans Day (November 11), Thanksgiving and the following day (November 26 and 27), and Christmas (December 25).



A LAYMAN'S VIEW OF THE UNIVERSE by Reese West KQ6TT

(Editor's note) Reese has been asked to share a "stream of thought" article on any topic that catches his interest. He has graciously agreed to allow the publication of various topics that he wants to explore.

When beginning a difficult problem, it is best to only read data and experiment's results, and do not read other people's conclusions from that data. Watson and Crick worked out the structure of DNA from other people's experiments and never did any experimental work themselves. The intent here is to examine the structure of our universe from the view point of a resident in it. I feel free to use any data or experimental results as I see fit.

The universal problem in observing the universe is caused by time. Everyone can understand that time continues from the present and that it existed for some duration in the past. We need to find out how it started. This is the beginning point for all religions. We also look at the stars and ask how far we can go in any direction. We are also constrained to view things from a four dimension frame of reference, three dimensions being space and add time, because that is what we observe. Let us begin at the beginning. There is no time in existence.

If there is no time, there is also no space because it takes time to go from one place in space to another. Now we have lost both time and space. This is the beginning. Our space-time system came from an original system where there is/was no time or space. There is no way out of that problem. Did the new space-time replace the original system or does it still exist. This is the next step. The original system could contain some form of energy. Our Leader, Einstein, showed that it may be possible to change back and forth between energy and matter. Let us accept that. We have nothing else.

There have been experiments to try to find how light propagates. The experiments tried to find how light traveled through our space-time existence. The view was that it traveled in something that existed in our space-time. They looked for an aether or "fifth element" or something that existed in our four-space at every point. The experiments didn't get the answer hoped for. We are all looking at wave propagation. Let us go a little deeper into wave propagation.

Light waves are electric waves. Our electric waves propagate in metals, not in the bulk of the metals. Due to skin effect they propagate at the interface of the metal and **(Cont. on page 54)**

A LAYMAN'S VIEW OF THE UNIVERSE (Cont. from page 53)

our free space. I will take this as a start, and hypothesize that light propagates at the interface between our four-space and the original no-space.

According to theories I have seen, light from a far star gets here in no time through no space, but we see it as propagating through our four-space. Since we started out assuming a no-time, no-space before our space-time existed, we have found it: the original. The origin then still exists and interfaces with every point in our space-time, but the origin does not have any time or space. The waves propagate in an interface between two different existences. What waves do that in our space-time? How about the water/air surface in the Pacific Ocean where the velocity is sometimes controlled by the depth of the ocean? What about the wave velocity of propagation of a wave between fresh and salt water in the fjords in Norway, or the propagation deep in the oceans of waves between regions of different temperature.

One must be careful with the choice of words to describe things because it affects the way the brain processes thought. When you use words to describe something, word-thought processes tend to limit thinking. I will stick with interface anyway.

The next problem in how big is our universe. It cannot be infinite, because infinity is not a number. It is a process. It also cannot have a finite space-time size, because what is beyond the edge. We are happy with a Kline bottle with only one surface. Let us be happy with what we have. We live in a volume that has no surface. We also know that what we perceive as straight lines can be curved. Therefore, we can travel in what we perceive as a straight line, but we will be curved away from the nonexistent surface of our universe. If we travel long enough will we come back to our starting point? The answer is 'no' because that would imply a finite size to our universe. Is there an answer? Yes. If you travel long enough, your starting place will have ceased to exist. Therefore, all our existence is a space/time, no space-no time, oscillator.

Let us go back and pick up our light wave photon happily propagating along and we want to measure it. Mathematically, the transform or an infinitely high waveform of zero time but finite size has a shape with a little precursor in time of a sine wave shape building up in size from zero, then decreasing to zero. It is propagating at the interface of our two systems described above. When we measure it by forcing it to interact with our space time, we force it to change. If we test it as a particle, it appears to be a particle **(Cont. on page 55)**

A LAYMAN'S VIEW OF THE UNIVERSE **(Cont. from page 54)**

If we test it as a wave, it appears to be a wave. There is also one other happening. Where was it when it interacted? In tuned electric circuits, the transfer of power from one part of a filter depends upon the frequency and phase of the waves involved. The transfer of energy from a propagating wave in a coax transmission line to a tuned circuit depends on impedance match at a given frequency. The transfer of photon energy to an atom depends up phase and frequency also. Which atom? Which partial cycle of the oscillating photon? We then get into not being able to determine location and time of the interaction. Let us assume that the interaction occurs on some part of the oscillation of the photon. It is apparently several wavelengths long. What is really interesting is that the equations of probability of electrons tunneling through a barrier and equations of impedance matching of coaxial transmission lines have the same structure with just changing the names of variables.

The Casimir Effect is one of electrons and positrons appearing from somewhere and causing a force in our space time that can move solid material. The existence of the effect is some conformation of what was written above about the interfacing of two systems. Here is the big jump. Gravity is not an attracting force between masses. It is the result our space time mass disrupting the no time, no space, and original existence that then causes a physical force to cause the masses to be forced together. This explains why no one has been able to develop the 'complete' field theory in physics. That result is why one should study experiments and results, and not start with other people's analysis-if possible.

January 29, 2021
Laurice J. West

The probability of interaction between a photon and an atom is controlled by the phase, frequency, polarity, and band width of both the photon and the atom. (Heisenberg Uncertainty Principle). Band-width seems to be neglected in most writings.

In the two slit photon experiments, where are the data that include: polarity, series slits, crossed slits, circular slits, timed switched opening and closing of slits, mirrored and partial mirrored reflection paths, etc.? I will give one example of a good experiment. Build the two slit model and place a partially silvered mirror after one of the slits. Do some photons go through as if there was no mirror? Do some bounce off the mirror and then go back and through the other slit? Change the distance to the mirror as one of the variables. **(Cont. on page 56)**

A LAYMAN'S VIEW OF THE UNIVERSE **(Cont. from page 55)**

In mathematics where time and distance are both zero, they can be equated because the dimensions on both sides of the equations in original 'space' do not have to match.

Time is spread out over several seconds, but we perceive it as a single moment. . Precognition of some events is real a few second before the apparent happening. To the reader: Don't fixate on this in order to take exception to other statements.

The Big Bang probability did not happen. The idea originated from trying to explain the red shift of light from stars by using the Doppler Effect. We now know that light has such wide variability that other explanation is more viable. I have seen writings where the universe was the size of a walnut before the big bang. And if it was the size of a walnut, creation had already happened to have a space around the walnut. That would be after the original creation of the walnut.

Laurice J. West
January 31, 2021

Do atoms, with the spherical shape, radiate circular or linear wave fronts? We sorta accept that photon and molecules have some kinda wave characteristics. Poor choice of words-so what- proceed anyway.

As a wave in the ocean approaches a breakwater with two opening, we get propagation through the openings, which then continue, and they add and subtract each other at a distance. For the photon, how does it get through the barrier with the two slits? Does some of the energy get reflected back off the structure, or be absorbed on it like the water wave? Does the wave go through both slits at the same time as a broken wave and reconstitute itself on the far side? Does it hang together and start through both slots and then by holding together one side pulls the other part of the wave through one slot as if it is a connected string? After half a century of work, are there answers to these questions? There should be. Remember that the final interaction with our reality in the test is as a particle---the dot. The distribution of the dots is what leads to the supposed wave characteristic. **(Cont. on page 57)**

A LAYMAN'S VIEW OF THE UNIVERSE (Cont. from page 56)

What does the photon looks like as a wave as it propagates? Try to visualize it. It is spread out in width by several wavelengths. It is spread out in 'height' by the magnitude of energy, and it is spread out in time or the third dimension. . There is also a spread in bandwidth which is almost never mentioned. It turns out that single atoms in the two slot experiments behave in the same manner as single photons. Here is where I get off the bus. This is my stop. I think that the slit studies have been neglected for decades.

The whole big bang theory has never satisfied me because of the basic red shift-Doppler effect basis that started it. The speed of light and time are functions of velocity, gravity, materials, energy, time, and damn near anything you can think of. There is a slight difference in time between your head and your feet. Why did the authorities choose a specific four space phenomenon to explain something from a no-time, no-space region? They were led there by their mathematics that they know. To start with the mathematics is wrong. Our math probably won't work at all on the other side of the interface.

Laurice J. West
February 2, 2021

Winter Outing Day at Marina Park

Participants

11:00-12 Burt Auerbach KA6BJA

12:00-1 Robert Shank KM6RSS

1:00-2 Mark Swaney KD6ASL

2:00-3 John Gartman W6JPG

3:00-4 Clement Alberts KM6OKZ

4:00-5 Pedro Morillas KE6MIL

Mark Vodon KI6PTE

James Norton KN6MUI and Gabriel


Winter Outing Day 01/30/21 at Marina Park


Winter Outing Day 01/30/21 at Marina Park


Clem KM6OKZ's Go Box


Winter Outing Day 01/30/21 at Marina Park


Burt KA6BJA, smiles as he makes a contact with Portland, OR


Mark KD6ASL, makes a secret entry to his log