



The Ventura County Amateur Radio Club, K6MEP will meet at 7:30 PM on Friday the 10<sup>th</sup> of May 2019 at historic **Dudley House** 197 N. Ashwood, Ventura 93003, at the corner of Loma Vista and Ashwood; 34d 16m 13.67s N 119d 14m 43.24s W; Grid square DM04jg; see map pg 18. Board Meeting precedes the General Meeting. Pete Heins, N6ZE, will be our guest speaker at the May 10 meeting. Pete will be speaking on VHF-and-Above Contesting Club Picnic/BBQ at Dudley House 4 May; ALS Ride 4 May; Red Cross Ride for the Red 18 May; Mountains to the Beach Marathon 26 May



K6MEP KEYER -- The VCARC Journal

First Class Mail

**HAM RADIO:**  
*It works when nothing else does!*

## **K6MEP Keyer – The Journal of the Ventura County Amateur Radio Club**

### **Ventura County Amateur Radio Club 2019 Officers and Chairs**

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Vice-President	Richard Abbey	WB6AEW (805) 947-7077
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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.

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Material submitted for inclusion is encouraged. Submit material on IBM(tm) PC diskettes, USB sticks, or by e-mail to kg6bov@arrl.net. MS Word, WordPerfect or ASCII is preferred. Send all submissions directly to the club mailing address at **K6MEP, PO Box 2103 Oxnard, CA 93034-2103** or deliver to the editor at any time mutually convenient.

K6MEP holds general membership meetings at 7:30 PM on the 2nd Friday of each month  
Dues are \$20 per year.

### **Message from the President**

#### **The Prez Sez,**

Beginning last November, I've been reviewing all of the club documentation and communicating with the board as well as our members to learn about how our club operates and what roles the current "office-holders and chair people" members hold, along with the description of what each role is expected to do. As part of that process, during April's meeting, we, as club members, discussed several club roles, if the club needed the specific activity (e.g. QSL manager) and if the position should be eliminated (several were, by club vote).

To determine what we, as your elected officers, can do to help make our club meet (and exceed) your needs and interests, we are reviewing and updating our club roll to ensure that the information is correct (names spelled correctly, call signs match the names, email addresses are valid, and dues are paid up). Phil (WA6BUZ), John (W6JPG), Steve (WA6EJO) and I are currently working through the data and will hopefully have it updated soon. To understand the interests of our members, Steve has created the survey of club presentations and activities and has collected 27 completed forms. He is contacting presenters who have content that matches our member's interests, which should result in increased attendance and enjoyment of our meetings. He is also asking the presenters to keep their topics within 20-45 minutes in length.

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### **Secretary's Column and Meeting Minutes**

#### **Ventura County Amateur Radio Club Inc. Club Meeting**

**Meeting Date :** 4/12/19

#### **GENERAL MEMBERSHIP MEETING MINUTES**

MEETING ADDRESS: Dudley Historical House, Ventura

ATTENDANCE: Listed on Roll Check-In Sheet

CALL TO ORDER 19:38

#### **ANNOUNCEMENTS**

#### **MEETING MINUTES**

Open meeting with Pledge of Allegiance

Introductions

#### **OLD BUSINESS**

Field day locations, email from Scott Brewer at Oxnard Fire; it is a go for Field Day at Oxnard College.

Clem KM6OKZ put out the word to various companies to act as sponsors.

Dana KG6WXE will get ready with the public announcements now that we have a location.

Responsibilities of the Field Day co-chair discussed.

Stewart KG6BOV showed the new filters for field day use in a magic box.

May 4<sup>th</sup> picnic at the Dudley House

(Cont pg 18)

## Selected May 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](http://www.arrl.org)) for any details and QSL information.

- 
- 04/20/2019 | Vermontville, MI, 78th Maple Syrup Festival**  
**Apr 20-May 4, 0100Z-0100Z, WK8H**, Vermontville, MI.  
QSL. Rev. Dr. Rodney L. Harmon, WK8H, 172 E. Second St., Vermontville, MI 49096. Enjoy the original Michigan Maple Syrup Festival on the Amateur Radio frequencies and IRLP node 4868. [srharmon1974@sbcglobal.net](mailto:srharmon1974@sbcglobal.net)
- 04/27/2019 | Commemorating the Louisiana Purchase**  
**Apr 27-May 5, 0000Z-2359Z, W5L**, West Monroe, LA.  
NorthEast Louisiana Amateur Radio Club. 18.150 14.275 7.225 3.850. QSL. Jim Ragsdale, W5LA, 111 Eagle Lake Dr., West Monroe, LA 71291. [www.nelarc.org/2019-W5L](http://www.nelarc.org/2019-W5L)
- 05/03/2019 | Old Timer's Day** **May 3-May 6, 1400Z-2000Z, W4T**, Dickson, TN. Dickson County Amateur Radio Club. 14.327 7.275. QSL. Vollie Miller, 1755 E Piney Rd, Dickson, TN 37055-3835. [WWW.WC4DC.ORG](http://WWW.WC4DC.ORG)
- 05/04/2019 | 100th Anniversary Mahoning Valley Amateur Radio Association** **May 4-May 5, 1300Z-0100Z, W8QLY**, Youngstown, OH. Mahoning Valley Amateur Radio Association. 3825 7.250 14.250. QSL. MAHONING VALLEY AMATEUR RADIO ASSOCIATION INC, 125 W McKinley Way, PO BOX 14141, Youngstown, OH 44512. Electronic QSLs will be sent for confirmed contacts--request form on QRZ page. [mvara.W8QLY@gmail.com](mailto:mvara.W8QLY@gmail.com) or [www.qrz.com/db/w8qly](http://www.qrz.com/db/w8qly)
- 05/04/2019 | COSI Big Science Celebration** **May 4, 1500Z-2000Z, W8LT**, Columbus, OH. Friends of W8LT. 14.250 14.070. QSL. W8LT c/o Larry Feth, 1080 Carmack Rd., Room 40 Bevis Hall, Columbus, OH 43210. For up-to-date information, go to [www.qrz.com/db/w8lt](http://www.qrz.com/db/w8lt)
- 05/04/2019 | Garretson Forge and Farm 300th Anniversary** **May 4, 1330Z-1930Z, W2G**, Fair Lawn, NJ. Fair Lawn Amateur Radio Club. 14.245 14.045 7.245 7.045. QSL. Fair Lawn Amateur Radio Club, 10-10 20th St., Fair Lawn, NJ 07010. [w2npt@arrl.net](mailto:w2npt@arrl.net) or [www.flarc.net](http://www.flarc.net)
- 05/04/2019 | Lewis & Clark 1804 Expedition Old Baldy (AKA) The Tower** **May 4-Oct 14, 0500Z-0500Z, N0HWJ**, Lynch, NE. N0HWJ. 14.325 14.245 3.970 3.950. QSL. Don Lallier, N0HWJ, P.O. Box 303, 610 Windom St., Orchard, NE 68764. I ran this last year from my Cabin about 200 yards from Old Baldy next to the Missouri River in Holt County. I am usually on during the weekends and some weekdays in the summer months. Lewis and Clark noted The Tower in their Journal and the finding of the Black Tailed Prairie dog that they captured and brought back alive to the president of the US. [donaldlallier@gmail.com](mailto:donaldlallier@gmail.com) or [www.qrz.com/db/n0hwj](http://www.qrz.com/db/n0hwj)
- 05/04/2019 | SPARC 5th Anniversary** **May 4, 1500Z-1900Z, NJ2SP**, South Plainfield, NJ. South Plainfield Amateur Radio Club. 14.265 14.060 7.280 7.030. QSL. Larry Makoski, Trustee, 327 Clinton Pl., South Plainfield, NJ 07080. Contact NJ2SP to celebrate the 5th Anniversary of the South Plainfield Amateur Radio Club's founding. QSL card will be sent to commemorate the contact, with an SASE. [www.qsl.net/nj2sp](http://www.qsl.net/nj2sp)
- 05/04/2019 | Texas Forestry Museum Special Event** **May 4, 1500Z-2200Z, K5F**, Lufkin, TX. Deep East Texas Amateur Radio Club Inc.. SSB: 21.365 18.145 14.245 7.245; CW: 7.035, 14.035, 18.085, 21.035; FT8 possible. QSL. W5IRP, DETARC Inc., 904 Sherwood Road, Please note K5F QSO, Lufkin, TX 75904. All QSOs will be uploaded to LoTW. A special picture QSL available via W5IRP address. SASE appreciated. See the K5F page on [QRZ.COM](http://QRZ.COM) . [www.detarc.net](http://www.detarc.net)
- 05/05/2019 | Cold War Museum / Francis Gary Powers Dedication** **May 5, 1200Z-1800Z, K4A**, Warrenton, VA. KC4AUF. 7.280 7.185 14.280 14.265. Certificate. Tony Day, 2620 Cartersville RD, Mineral, VA 23117. This Special Event Station is to commemorate the Cold War Museum located on the grounds of the WWII Vint Hill Farm Army Radio Listening Station. We are also remembering the anniversary of the shooting down of Francis Gary Powers and his U-2 Reconnaissance Aircraft over Russia on May 1s 1960. [coldwar.org](http://coldwar.org)
- 05/05/2019 | The INDYCAR Grand Prix** **May 5-May 12, 0400Z-0400Z, W9IMS**, Indianapolis, IN. The Indianapolis Motor Speedway Amateur Radio Club. 18.140 14.245 7.245 3.840. Certificate & QSL. Indianapolis Motor Speedway Amateur Radio Club, P.O. Box 30954, Indianapolis, IN 46230. [www.w9ims.org](http://www.w9ims.org)
- 05/08/2019 | Golden Spike 150th Celebration** **May 8-May 10, 1500Z-2300Z, W7G**, Roy, UT. Ogden Amateur Radio Club. 14.255 14.040 7.235 7.040. QSL. Robert Smith, 5879 S. 4250 W., Roy, UT 84067. To commemorate the anniversary of the driving of the Golden Spike to complete the Transcontinental Railroad 150 years ago. Broadcast will be coming from the actual site of the driving of the Golden Spike Trains and whistles may be heard from the background on all days. [robert2631@gmail.com](mailto:robert2631@gmail.com) or [www.w7g.org](http://www.w7g.org)
- 05/11/2019 | Centennial Celebration of San Antonio Radio Club** **May 11, 1500Z-2100Z, W5SC/100**, San Antonio, TX. San Antonio Radio Club. 14.260. QSL. SARC, PO Box 4263, San Antonio, TX 78265. SASE required. Club members may operate their own stations, signing "own-call/100" during 2019. Club station will operate from San Antonio Museum of Science and Technology ([www.samsat.org](http://www.samsat.org)). [www.w5sc.org](http://www.w5sc.org)
- 05/11/2019 | Russell Cave National Monument 58th Anniversary** **May 11, 1500Z-2100Z, K4R**, Bridgeport, AL. Jackson County Amateur Radio Club - K4SCO. 14.258 14.058 7.258 7.058. QSL. Brad Arnold, K4NHA, 207 Bingham St., Scottsboro, AL 35768. For full information and frequency/mode schedules, see <https://www.qrz.com/db/K4R> or <https://jcar.us/russellcave>
- 05/11/2019 | USS Midway Museum Ship Special Event: Operation Frequent Wind** **May 11, 1600Z-2300Z,**

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- N16IW**, San Diego, CA. USS Midway (CV-41) Museum Ship. 14.320 7.250; PSK31 on 14.070. QSL. USS Midway (CV-41) COMEDTRA, 910 N. Harbor Dr., San Diego, CA 92101.
- 05/11/2019 | W4LX 60th Anniversary of Fort Myers Amateur Radio Club May 11, 0900Z-1600Z, W4LX**, Fort Myers, FL. Fort Myers Amateur Radio Club. 28.240 21.240 14.240. Certificate & QSL. W4LX, P.O. Box 061183, Fort Myers, FL 33906. [fmarc.net](http://fmarc.net)
- 05/12/2019 | Landing Day Celebration May 11, 1400Z-2030Z, K4RC**, Jamestown, VA. Williamsburg Area Amateur Radio Club. 14.265 7.265. QSL. QSL Manager, P.O. Box 1470, Williamsburg, VA 23187. Celebrating the 412th anniversary of the oldest permanent English-speaking colony in North America. [www.k4rc.net](http://www.k4rc.net)
- 05/12/2019 | National Police Week 2019 May 12-May 19, 0000Z-2300Z, K7P**, Prineville, OR. Cops Contest Club. 28.450 21.325 14.275 7.205. QSL. Jerry Boyd, 6033 SE Riordan Rd., Prineville, OR 97754. SASE required for commemorative QSL [exasd@msn.com](mailto:exasd@msn.com)
- 05/17/2019 | EMS Week 2019 May 17-May 27, 0000Z-2359Z, W9A**, Wisconsin Rapids, WI. Wood County ARES/RACES. 14.275 7.275 3.975; WI WX Tac - Bramdmeister 31550. QSL. Wood County ARES, Attn: W9A, 3530 Bohn Dr., Wisconsin Rapids, WI 54494. QSL - SASE- #10 envelope Email [w9wca@winlink.org](mailto:w9wca@winlink.org) with questions. [w9wca.com](http://w9wca.com)
- 05/17/2019 | Memphis, TN Bicentennial Celebration May 17-May 31, 0000Z-2359Z, W4M**, Memphis, TN. Delta Amateur Radio Club. 146.820 14.240 7.255. Certificate. Delta Amateur Radio Club, P.O. Box 342768, Memphis, TN 38184-2768. <https://www.qrz.com/db/w4bs>
- 05/18/2019 | 3rd Annual William Becknell Heritage Days Special Event - Founder of the Santa Fe Trail May 18-May 19, 1400Z-2200Z, WB0SFT/KC0VYS**, Overland Park, KS. William Becknell Santa Fe Trail Heritage Days. 21.365 14.265 7.265 3.865 1.830 SSB/CW/FT8. Certificate & QSL. See website for, information on receiving, certificate. See website for information; certificate and QSL available via website after the event. [www.wb0sft.org](http://www.wb0sft.org)
- 05/18/2019 | American Airpower Museum Armed Forces Day May 18-May 19, 1430Z-1900Z, W2GSB**, Farmingdale, NY. Great South Bay Amateur Radio Club. 14.280 14.050 7.260 7.050. Certificate & QSL. Great South Bay ARC, P.O. Box 1356, West Babylon, NY 11704. Armed Forces Weekend celebration at American Airpower Museum at Republic Airport in Farmingdale, NY, [www.gsbarc.org](http://www.gsbarc.org)
- 05/20/2019 | The Indianapolis 500 May 20-May 27, 0400Z-0400Z, W9IMS**, Indianapolis, IN. The Indianapolis Motor Speedway Amateur Radio Club. 18.140 14.245 7.245 3.840. Certificate & QSL. Indianapolis Motor Speedway Amateur Radio Club, P.O. Box 30954, Indianapolis, IN 46230. [www.w9ims.org](http://www.w9ims.org)
- 05/20/2019 | W7K Special Event - Redefinition of the Kelvin May 20, 0000Z-2359Z, W7K**, American Fork, UT. K7FLK Fluke Lord Kelvin Amateur Radio Club. 3973.15 7273.15 14273.15; Echolink 762028. QSL. Frank Liebmann, 799 East Utah Valley Dr, American Fork, UT 84003. W7K celebrates the redefinition of the SI unit kelvin which will take place on May 20, 2019. This station will be operated from one of the most accurate temperature standards laboratories in the world in American Fork, Utah. Times of operation will be 00:00Z to 23:59Z. On 20 May 2019, the definition of the kelvin will be redefined. Historically, it has been defined as the triple-point of water being equal to 273.16 K. Starting May 20, the kelvin will be defined by assigning an exact numerical value to the Boltzmann constant. This redefinition will ensure a long-term stability and traceability of the unit for temperature by making it independent of any material substance. [tinyurl.com/w7kelvin](http://tinyurl.com/w7kelvin)
- 05/21/2019 | Lindbergh Flies Across the Atlantic May 21, 1330Z-2030Z, K2CAM**, Garden City, NY. Cradle of Aviation Museum/L.I. Mobile Amateur Radio Club. 21.340 14.240 7.240. QSL. Long Island Mobile Amateur Radio Club, P.O. Box 392, Levittown, NY 11756. Charles Lindbergh left Garden City, NY on May 20th, 1927. He arrived in Paris, France, late in the day on May 21st. Long Island, NY is referred to as the Cradle of Aviation, and LIMARC is pleased to support the Cradle of Aviation Museum in commemorating this event. [www.limarc.org](http://www.limarc.org)
- 05/22/2019 | MEMORIAL DAY 2019 May 22-May 28, 0000Z-0000Z, K1A**, Cleburne, TX. CLUB KC5NX. 14.225 14.045 7.225 7.045. QSL. CLUB KC5NX, 9200 Summit Court West, Cleburne, TX 76033-82. Club KC5NX is back on the air to help remember those who have given their lives in the service of the of the US Military. All QSLs, notes, letters answered. Special requests honored. An SASE would help us. Ours is a fine looking QSL! 73. [club.kc5nx@gmail.com](mailto:club.kc5nx@gmail.com) [www.qrz.com/db/kc5nx](http://www.qrz.com/db/kc5nx)
- 05/26/2019 | Poland Through the Ages May 26, 0300Z-1100Z, K3DN**, Warminster, PA. Warminster Amateur Radio Club. 14.225. Certificate. Warminster Amateur Radio Club, PO Box 113, Warminster, PA 18974. [www.k3dn.org](http://www.k3dn.org)

## Available Gear

### From the Bill Klope Sr. KW6PE donation:

4	ea.	Concrete mast bases price \$10 each
1	ea.	Cisco E 1200 Router
1	set	Gordon West Radio School Learn Morse Code cassette tapes
1	ea.	AT&T Cable Modem

Please contact Robert KM6RSS  
805-275-2256

### Yaesu FT-8 and accessories for sale

Please contact Ron KI6YAX  
[vccert1@gmail.com](mailto:vccert1@gmail.com)



### From the WT6JS Donation

Yaesu VX 3R, HT Dual Band 2m/440 whip antenna  
w/2 chargers, manual  
3 HT Dual Band 'Rubber Duck' antennas  
4" external speaker w/mag mount  
Mag mount system for large mobile HF antenna  
Arrow Handheld Yagi Dual Band Antenna

Please contact Stewart KG6BOV  
[Kg6bov@arrl.net](mailto:Kg6bov@arrl.net)

### Looking for Antenna Instructions and manuals

Looking for antenna instruction and manuals for pre-1995 VHF and UHF antennas. Hy-gain, Cushcraft, KLM are the big manufacturers, but there were dozen of little ones (K1FO, K2RIW, Tronna). Would like to start a repository of antenna manuals.

Manuals will be copied and originals will be returned. The copies will be posted on the web for use by everyone. Have needed the manuals for two 2 meter antennas recently and cannot find them.

Denney N6HV /  
[denney@denneypistole.com](mailto:denney@denneypistole.com)

### Equipment Tech and Operator Manuals

I have a large collection of radio tech manuals and operator manuals from Alinco / Icom / Kenwood / Yaesu and others. All are PDF format.

Stewart  
[KG6BOV@arrl.net](mailto:KG6BOV@arrl.net)

## **May Meeting Program**

Pete Heins, N6ZE, will be our guest speaker at the May 10 meeting. Pete will be speaking on VHF-and-Above Contesting, something that our club used to be very active in. Pete is perhaps the most active and experienced VHF contester in Ventura County, often as a “rover” visiting various grid squares. The ARRL sponsors the January VHF Contest, the June VHF Contest, the August 222 MHz and Above Distance Contest, the August and September 10 GHz and Above Contests, the September VHF Contest, plus a couple EME contests. In addition there are non-ARRL contests called VHF and Up Sprints. These are single band contests just a few hours long, including 6 meters, 2 meters, 220 MHz, 70 cm, and Microwave. CQ Magazine sponsors a VHF contest in July. And you can use FM and the national simplex frequencies like 146.52 and 223.5 for most of these contests. Central to these contests is the use of Grid Squares which Pete will fill us in on.

73, Steve WA6EJO  
VCARC Program Chairperson

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## **Prez Sez (cont from pg 2)**

Our club uses several forms of communication; our monthly meetings, our K6MEP.groups.io messaging website (which is the main communications platform to provide immediate information to and from members), and our “social media presence” web pages (the [www.qsl.net/k6mep/](http://www.qsl.net/k6mep/) web page, updated on a month-by-month basis, our Facebook page, which now accepts monetary donations, and our MeWe page). If you receive an email to join K6MEP.groups.io, please respond so that we can add you to our correspondence list.

Looking backward: At our April 12th club meeting, we had 29 in attendance, with 21 members and 8 guests. We announced the Science Fair winners. Clem KM6OKZ and Stewart KG6BOV discussed the Field Day Venue status, and on April 15<sup>th</sup>, Stewart announced that Oxford College has accepted our request to use Parking Lot B and the area known as the "Duck Pond" for our 2019 Field Day. Clem has volunteered to co-chair our Field Day with Stewart; many thanks to both of them for their service to our club! Our May 4th picnic and swap meet was discussed; Robert KM6RSS donated a new portable griddle and \$100 to the club for our May 4<sup>th</sup> picnic supplies and Mark KI6YLH agreed to maintain the griddle and store it as well as purchase some of the club picnic food. Robert will post a sign-up list on Groups.io to see who is planning on attending and what food and drink, as well as equipment and swap items, they will bring. Mark is planning, based on the attendee's information, how many hot dogs, hamburger patties, buns, cheese and condiments to purchase. Phil discussed the results of the K6MEP Monday Night Net Check-in contest (running from March 4th to December 9th, with the winner announced at the DecemberFest dinner on December 13th). Clem is in the lead (so far) with a perfect record of check-ins (7) from the contest start date of March 4th to April 15th. Matt Lechliter presented the Evolution of FM (two videos from the 60's) and details about the Gronk Network of Repeaters that covers an enormous area in California and other western states.

Looking Forward: At our next club meeting on May 10<sup>th</sup>, Pete Heins, N6ZE, will be our guest speaker.

I encourage all members to respond to the groups.io poll about the May 4th club picnic, scheduled to begin at 10:00 AM and complete by 4:00 PM, being held at the Dudley House, which also will be coupled with preparation for Field Day rig testing and swap meet. I am also looking forward to seeing you at the picnic!

### **Safety Share:**

May is National Electrical Safety Month. ESFi ([www.esfi.org](http://www.esfi.org)) has the following information concerning Home Safety:

1. Electricity is a major cause of home fires. As each year goes by, Americans continue to use more energy in their homes. At the same time, the electrical systems in many existing homes have become outdated, and are unable to handle the demands of today's electrical appliances and devices.
2. The statistics are staggering. According to the National Fire Protection Association (NFPA), electrical failures or malfunctions were factors in an estimated 46,500 home fires in 2010. These fires caused 420 deaths, 1,520 injuries, and \$1.5 billion in property damage. And fire is not the only danger. Thousands of children and adults are critically injured and electrocuted annually from electrical hazards in their own homes.
3. But now, new technology such as arc fault circuit interrupters (AFCIs) and tamper resistant receptacles (TRRs) are preventing tragedy before it ever occurs. In fact, these devices have proven so effective that the 2008 National Electrical Code (NEC) significantly increased requirements for AFCI and TRR protection in all new homes.

Incorporating recent advances in technology into your home can help reduce the risk of fires and electrocutions.

**K6MEP Keyer – The Journal of the Ventura County Amateur Radio Club**

See you all at the Friday the 10th of May club meeting at the Dudley House with your ideas, energy, and Ham Radio experiences!

73,  
Robert Shank KM6RSS  
President, VCARC

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## Upcoming FCC Exam Sessions

ON EXAM DAY BRING THE FOLLOWING ITEMS:

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 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.
5. 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.
6. Two number two pencils with erasers and a pen.
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.
8. Bring a check, a money order or cash to cover the exam session fee(s). Check the ARRL VEC's current exam fee.

## License Preparation and Sample Test Sites

<http://aa9pw.com/radio/>

<http://hamexam.org/>

<http://twit.tv/show/ham-nation> -- Weekly Webcast

<http://www.AmateurLogic.tv> -- Weekly Webcast

<http://www.eham.net/exams/>

<http://www.Facebook.com/HamStudy>

<http://www.hamradiolicenseexam.com> -- cost / on-line subscription

<http://www.hamstudy.org> (ICOM sponsored site) requires free registration

<http://www.qrz.com/ht/> -- requires free registration

<http://www.radioexam.org/>

## Upcoming FCC Exam Sessions

**05/02/2019** Time: 7:30 PM (Walk-ins allowed) Sponsor:

**Acton Agua Dulce ARC** VEC: [Greater LA VEC](#)

Contact: Gary Hebdon (661) 268-1162 Email:

[heb@thevine.net](mailto:heb@thevine.net) Location: **Acton Library Comm**

**Room** 33792 Crown Valley Rd Acton CA 93510-1763

**05/04/2019** 10:00 AM (Walk-ins allowed) Test 1st Saturday

Every Month Sponsor: **AA6WC/Ali Hassan** VEC:

ARRL/VEC Contact: Ali Hassan (323) 758-0565 Email:

[aa6wc@prodigy.net](mailto:aa6wc@prodigy.net) Location: **VE's Residence** 6043

3rd Avenue Los Angeles CA 90043-2618

**05/04/2019** Time: 11:00 AM (Walk-ins allowed) Sponsor:

**ARES LAX** VEC: ARRL/VEC Contact: James W. Laage

(818) 368-8710 Email: [cllaage@verizon.net](mailto:cllaage@verizon.net) Location:

**Valley Presbyterian Hospital (Health Education**

**Center)** 15107 Vanowen Street Van Nuys CA 91405-4542

**05/05/2019** Time: 7:30 AM (No Walk-ins / Call ahead)

Sponsor: **DCS 10/22 Lost Hills** VEC: Greater LA VEC

Contact: Norman M. Goodkin (818) 222-7893 Email:

[hamclass@goodkin.net](mailto:hamclass@goodkin.net) Location: **Lost Hills Sheriff's**

**Station (Assembly Room)** 27050 Agoura Rd Agoura

Hills CA 91301-5332

**05/06/2019** Time: 7:00 PM (Walk-ins allowed) Sponsor:

**AVARC** VEC: Greater LA VEC Contact: Adrienne J.

Sherwood (661) 264-1863 Email: [wa6yeo@arrl.net](mailto:wa6yeo@arrl.net)

Location: **Antelope Valley Christian Church** 1702 E

Avenue J Lancaster CA 93535-4474

**K6MEP Keyer – The Journal of the Ventura County Amateur Radio Club**

- 05/11/2019** 7:00 AM (No Walk-ins / Call ahead) Sponsor: **The PAPA system** VEC: Greater LA VEC Contact: Norman M. Goodkin (818) 403-5123 Email: [hamclass@goodkin.net](mailto:hamclass@goodkin.net) <http://papasys.org> Pre-registration required Location: **Spitfire Grill Restaurant** 3300 Airport Ave Santa Monica CA 90405-6130
- 05/11/2019** Time: 8:30 AM (No walk-ins) Sponsor: **Santa Barbara ARC** VEC: [ARRL/VEC](mailto:ARRL/VEC) Contact: Darryl Widman (805) 969-2326 Email: [kf6di@sbarc.org](mailto:kf6di@sbarc.org) Location: **Impulse Communications 1503 Cook Place, Ste C Goleta, CA 93117**
- 05/11/2019** Time: 8:30 AM (No walk-ins) Sponsor: **Santa Barbara ARC** VEC: [ARRL/VEC](mailto:ARRL/VEC) Contact: Darryl Widman (805) 969-2326 Email: [kf6di@sbarc.org](mailto:kf6di@sbarc.org) Location: **Impulse Communications 1503 Cook Place, Ste C Goleta, CA 93117**
- 05/11/2019** Time: 11:00 AM (Walk-ins allowed) Sponsor: **ARES LAX** VEC: [ARRL/VEC](mailto:ARRL/VEC) Contact: James R. Stoker (310) 775-5613 Email: [jstoker@it.ucla.edu](mailto:jstoker@it.ucla.edu) Location: **Huntington Hospital** 100 W California Blvd Pasadena CA 91105-3010 Wingate Bldg East conf. Room; Check in Booth E parking Lot [www.arrllax.org](http://www.arrllax.org)
- 05/11/2019** Time: 11:00 AM (Walk-ins allowed) Sponsor: **ARES LAX** VEC: [ARRL/VEC](mailto:ARRL/VEC) Contact: James R. Stoker (310) 775-5613 Email: [jstoker@it.ucla.edu](mailto:jstoker@it.ucla.edu) Location: **Huntington Hospital** 100 W California Blvd Pasadena CA 91105-3010 Wingate Bldg East conf. Room; Check in Booth E parking Lot [www.arrllax.org](http://www.arrllax.org)
- 05/12/2019** Time: 7:30 AM (No Walk-ins / Call ahead) Sponsor: **DCS 10/22 Lost Hills** VEC: Greater LA VEC Contact: Norman M. Goodkin (818) 222-7893 Email: [hamclass@goodkin.net](mailto:hamclass@goodkin.net) Location: **Lost Hills Sheriff's Station (Assembly Room)** 27050 Agoura Rd Agoura Hills CA 91301-5332
- 05/18/2019** Time: 8:00 AM (No walk-ins) Sponsor: **Santa Clarita ARC** VEC: Greater LA VEC Contact: Ronald B. Klein (661) 259-0948 Email: [rklein46@roadrunner.com](mailto:rklein46@roadrunner.com) Location: **Santa Clarita Valley Senior Center** 22900 Market St Santa Clarita CA 91321-3608
- 05/18/2019** Time: 9:00 AM (Walk-ins allowed) Sponsor: **ARALB-W6RO** VEC: [ARRL/VEC](mailto:ARRL/VEC) Contact: F Louise Chapman (562) 429-1355 Email: [n6elk@aol.com](mailto:n6elk@aol.com) Location: **American Red Cross** 3150 E 29th St Redondo & Temple Long Beach CA 90806-2319
- 05/18/2019** Time: 10:00 AM (Walk-ins allowed) Sponsor: **Palos Verdes ARC, K6PV** VEC: [ARRL/VEC](mailto:ARRL/VEC) Contact: David Scholler (310) 373-8166 Email: [jdavidscholler@hotmail.com](mailto:jdavidscholler@hotmail.com) Location: **Hesse Park Community Center** 29301 Hawthorne Blvd Rancho Palos Verdes CA 90275
- 05/25/2019** Time: 10:00 AM (Walk-ins allowed) Sponsor: **Crescent Bay VE Grp/W6TRW ARC** VEC: [ARRL/VEC](mailto:ARRL/VEC) Contact: Scott Swanson (310) 459-0337 Email: [k6pyp@arrl.net](mailto:k6pyp@arrl.net) Location: **Northrop Grumman** 1 Space Park Blvd (Bldg S Cafeteria) Parking lot off Marine Blvd Redondo Beach CA 90278-1001 (WEATHER PERMITTING DUE TO OUTDOOR PATIO LOCATION)
- 06/01/2019** Time: 11:00 AM (Walk-ins allowed) Sponsor: **ARES LAX** VEC: [ARRL/VEC](mailto:ARRL/VEC) Contact: James W. Laage (818) 368-8710 Email: [cllaage@verizon.net](mailto:cllaage@verizon.net) Location: **Valley Presbyterian Hospital (Health Education Center)** 15107 Vanowen Street Van Nuys CA 91405-4542
- 06/05/2019** 7:30 PM (Walk-ins allowed) Sponsor: **Baldwin Hills ARC** VEC: [ARRL/VEC](mailto:ARRL/VEC) Contact: Edward L. Walker (323) 394-1818 [www.barc.us](http://www.barc.us) Email: [EDLWALKER@PACBELL.NET](mailto:EDLWALKER@PACBELL.NET) Location: **Round Table Pizza** 4330 Redondo Beach Blvd Torrance CA 90504-1031
- 06/08/2019** Time: 7:00 AM (No Walk-ins / Call ahead) Sponsor: **PAPA** VEC: [Greater LA VEC](mailto:Greater LA VEC) Contact: Norman M. Goodkin (818) 222-7893 Email: [hamclass@goodkin.net](mailto:hamclass@goodkin.net) Location: **Lulu's Family Restaurant** 16900 Roscoe Blvd Van Nuys CA 91406-1101
- 06/08/2019** Time: 9:00 AM (Walk-ins allowed) Sponsor: **South Bay ARC** VEC: [ARRL/VEC](mailto:ARRL/VEC) Contact: Joseph M. Lanphen (310) 328-0817 Email: [janphen@ca.rr.com](mailto:janphen@ca.rr.com) [www.w6sba.org](http://www.w6sba.org) for details Location: **Torrance Memorial Med Center** 3330 Lomita Blvd Rm A, 2nd Flr, West Tower Torrance CA 90505-5002
- 06/08/2019** Time: 11:00 AM (Walk-ins allowed) Sponsor: **ARES LAX** VEC: [ARRL/VEC](mailto:ARRL/VEC) Contact: James R. Stoker (310) 775-5613 Email: [jstoker@it.ucla.edu](mailto:jstoker@it.ucla.edu) Location: **Huntington Hospital** 100 W California Blvd Pasadena CA 91105-3010 Wingate Bldg East conf. Room; Check in Booth E parking Lot [www.arrllax.org](http://www.arrllax.org)
- 06/09/2019** Time: 8:30 AM (Walk-ins allowed) Sponsor: **Conejo Valley ARC** VEC: [ARRL/VEC](mailto:ARRL/VEC) Contact: Jeffrey M. Reinhardt (818) 706-3853 Email: [jmreinhardt@sbcglobal.net](mailto:jmreinhardt@sbcglobal.net) Location: **Ventura County Sheriff's E County Station, Community Room** 2101 E Olsen Rd Thousand Oaks CA 91360-6861 Betw 23 Hwy & Reagan Library
- 06/15/2019** Time: 8:30 AM (Walk-ins allowed) Sponsor: **Downey ARC** VEC: [ARRL/VEC](mailto:ARRL/VEC) Contact: Steve J. Grudzinski (951) 674-4699 Email: [sgrudzinski1@verizon.net](mailto:sgrudzinski1@verizon.net) Location: **Fire Station #1** 12222 Paramount Blvd (1/2 Mile N Of Imperial Hwy) Downey CA 90242-3537
- 06/15/2019** Time: 8:30 AM (Walk-ins allowed) Sponsor: **Downey ARC** VEC: [ARRL/VEC](mailto:ARRL/VEC) Contact: Robert P. Reeder (562) 553-2811 Email: [paisley.reeder@gmail.com](mailto:paisley.reeder@gmail.com) Location: **First Baptist Church Downey** 8333 2nd St Room 114 North Firestone Blvd. Downey CA 90242-3537
- 06/15/2019** Time: 12:00 PM (Walk-ins allowed) Sponsor: **Pine Mountain ARC** VEC: [ARRL/VEC](mailto:ARRL/VEC) Contact: Irene M. Smith-Quick (661) 242-1345 Email: [irenequick@gmail.com](mailto:irenequick@gmail.com) Location: **Frazier Park Library** 3732 Park Dr
- 06/26/2019** Time: 11:00 AM (Walk-ins allowed) Sponsor: **ARES LAX** VEC: [ARRL/VEC](mailto:ARRL/VEC) Contact: James R. Stoker (310) 775-5613 Email: [jstoker@it.ucla.edu](mailto:jstoker@it.ucla.edu) Location: **Huntington Hospital** 100 W California Blvd Pasadena

**K6MEP Keyer May 2019**

[k6mep@qsl.net](mailto:k6mep@qsl.net) / [www.qsl.net/k6mep](http://www.qsl.net/k6mep)  
<https://groups.io/g/K6MEP>

## K6MEP Keyer – The Journal of the Ventura County Amateur Radio Club

- CA 91105-3010 Wingate Bldg East conf. Room; Check in Booth E parking Lot [www.arrlax.org](http://www.arrlax.org)
- 06/29/2019** Time: 9:00 AM (Walk-ins allowed) **Sponsor:** **ARALB-W6RO** VEC: ARRL/VEC Contact: F Louise Chapman (562) 429-1355 **Email:** [n6elk@aol.com](mailto:n6elk@aol.com) **Location:** **American Red Cross** 3150 E 29th St Redondo & Temple Long Beach CA 90806-2319
- 06/29/2019** Time: 10:00 AM (Walk-ins allowed) **Sponsor:** **Crescent Bay VE Grp/W6TRW ARC** VEC: ARRL/VEC Contact: Scott Swanson (310) 459-0337 **Email:** [k6pyp@arrl.net](mailto:k6pyp@arrl.net) **Location:** **Northrop Grumman** 1 Space Park Blvd (Bldg S Cafeteria) Parking lot off Marine Blvd Redondo Beach CA 90278-1001 (WEATHER PERMITTING DUE TO OUTDOOR PATIO LOCATION)
- 07/06/2019** Time: 11:00 AM (Walk-ins allowed) **Sponsor:** **ARES LAX** VEC: ARRL/VEC Contact: James W. Laage (818) 368-8710 **Email:** [cllaage@verizon.net](mailto:cllaage@verizon.net) **Location:** **Valley Presbyterian Hospital (Health Education Center)** 15107 Vanowen Street Van Nuys CA 91405-4542
- 07/13/2019** 7:00 AM (No Walk-ins / Call ahead) **Sponsor:** **The PAPA system** VEC: Greater LA VEC Contact: Norman M. Goodkin (818) 403-5123 **Email:** [hamclass@goodkin.net](mailto:hamclass@goodkin.net) <http://papasys.org> Pre-registration required **Location:** **Spitfire Grill Restaurant** 3300 Airport Ave Santa Monica CA 90405-6130
- 07/13/2019** Time: 8:30 AM (No walk-ins) **Sponsor:** Santa Barbara ARC **VEC:** **ARRL/VEC** **Contact:** Darryl Widman
- (805) 969-2326 **Email:** [kf6di@sbarc.org](mailto:kf6di@sbarc.org) **Location:** **Impulse Communications** 1503 Cook Place, Ste C Goleta, CA 93117
- 07/13/2019** Time: 11:00 AM (Walk-ins allowed) **Sponsor:** **ARES LAX** VEC: ARRL/VEC Contact: James R. Stoker (310) 775-5613 **Email:** [jstoker@it.ucla.edu](mailto:jstoker@it.ucla.edu) **Location:** **Huntington Hospital** 100 W California Blvd Pasadena CA 91105-3010 Wingate Bldg East conf. Room; Check in Booth E parking Lot [www.arrlax.org](http://www.arrlax.org)
- 07/20/2019** Time: 9:00 AM (Walk-ins allowed) **Sponsor:** **ARALB-W6RO** VEC: ARRL/VEC Contact: F Louise Chapman (562) 429-1355 **Email:** [n6elk@aol.com](mailto:n6elk@aol.com) **Location:** **American Red Cross** 3150 E 29th St Redondo & Temple Long Beach CA 90806-2319
- 07/21/2019** Time: 2:30 PM (No walk-ins) **Sponsor:** **Goodkin Ham Radio Classes** **VEC:** **Greater LA VEC** **Contact:** Norman M. Goodkin (818) 222-8793 **Email:** [hamclass@goodkin.net](mailto:hamclass@goodkin.net) **Location:** **Agoura Hills/Calabasas Community Center** 27040 Malibu Hills Rd Agoura Hills CA 91301-5332
- 07/27/2019** Time: 10:00 AM (Walk-ins allowed) **Sponsor:** **Crescent Bay VE Grp/W6TRW ARC** VEC: ARRL/VEC Contact: Scott Swanson (310) 459-0337 **Email:** [k6pyp@arrl.net](mailto:k6pyp@arrl.net) **Location:** **Northrop Grumman** 1 Space Park Blvd (Bldg S Cafeteria) Parking lot off Marine Blvd Redondo Beach CA 90278-1001 (WEATHER PERMITTING DUE TO OUTDOOR PATIO LOCATION)
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## Trivia for May 2019

### DID YOU KNOW?

1. August 1 1620 the Mayflower set sail with 102 soles. Aboard?
2. In the Civil War, 25%of casualties were unidentified. But at WWII that went to 2% with the use of dog tags.
3. Woodrow Wilson appears on the 100,000.00 dollar bill?

de Dana KG6WXE

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## Upcoming HamFests & Conventions

### West Coast MRCG 2019 Meet

May 3, 4 2019 West Coast MRCG 2019 Meet, Estrella Warbirds Museum, Paso Robles, CA The twenty fourth annual meeting of the West Coast Military Radio Collectors Group will be held at the Estrella Warbirds Museum at the Paso Robles Municipal Airport, Paso Robles CA, May 3-4, 2019. Coords: 35 Deg 39.83 N 120 Deg 37.19 W

<https://www.n6cc.com/west-coast-military-radio-collectors-group>

### Cochise Amateur Radio Association Hamfest

**Start Date:** 05/04/2019 **End Date:** 05/04/2019 **Location:** Green Acres 2756 Moson Road Sierra Vista, AZ 85635

**Website:** <http://k7rdg.org> **Sponsor:** Cochise Amateur Radio Association **Type:** ARRL Hamfest **Talk-In:** 146.760 (PL 162.2) **Public Contact:** Charles Campbell , K4AFN 5157 Calle Virada Sierra Vista, AZ 85635 Phone: 520-508-7087  
**Email:** [k4afn@arrl.net](mailto:k4afn@arrl.net)

### Arizona State Convention 2019, Prescott Hamfest

**Start Date:** 05/31/2019 **End Date:** 06/01/2019 **Location:** Embry Riddle Aeronautical University 3700 Willow Creek Road Prescott, AZ 86301 **Website:** <http://hamfest.w7yrc.org> **Sponsor:** Yavapai Amateur Radio Club, Eagle Amateur Radio Club **Type:** ARRL Convention **Talk-In:** 146.880- (PL 100) **Public Contact:** Don Bauer , WB7TPH 7150 East Acre Way Prescott Valley, AZ 86315 Phone: 928-775-4690 **Email:** [dbauer2250@aol.com](mailto:dbauer2250@aol.com)

### ANNUAL Santa Maria SWAPFEST AND BBQ

**June 15, 2019** Saturday of Father's Day Weekend Sorry, NO BBQ offered this year Please note the alternate location **Elk Lodge 1538, Santa Maria** 1309 N. Bradley Road, Santa Maria, CA 93454 GPS: 34° 57' 49" N, 120° 25' 16" .  
**Talk-in** 145.14 (neg offset) tone 131.8 Admission & Parking -- FREE . **Sellers** 6:00 AM , No selling or swapping before 7:30 AM, \$15 per seller, must provide own table and chairs, \$15 per tail-gate, Only 1 vehicle allowed , Fee's collected on site . **Public** 7:30 AM , No purchasing before 7:30 AM . **Prize Drawings** \$1 each at the fest , 12:00, Noon Main raffle prizes, winner need not be present, if ticket has name and contact info , Lesser raffle prizes, winner must be present . **Food & Drink** In the morning, coffee and donuts provided by West Santa Barbara County ARES as a fund raiser <http://www.satellitearc.com/>

### San Diego Hamfest and Preparedness

**Start Date:** 10/05/2019 **End Date:** 10/05/2019 **Location:** Lakeside Rodeo Grounds 12584 Mapleview Street Lakeside, CA 92040 **Website:** <http://www.lakesidearc.org/sdhamfest/sdhamfest.php> **Sponsor:** Lakeside Amateur Radio Club **Type:** ARRL Hamfest **Talk-In:** 146.55 **Public Contact:** Paul Rios , KC6QLS 12207 Valhalla Drive Lakeside, CA 92040 Phone: 619-593-9445 **Email:** [KC6QLS@cox.net](mailto:KC6QLS@cox.net)

### PACIFICON 2019

**Start Date:** 10/18/2019 **End Date:** 10/20/2019 **Location:** San Ramon Marriott 2600 Bishop Drive San Ramon, CA 94583 **Website:** <http://www.Pacificon.org> **Sponsor:** Mount Diablo Amateur Radio Club **Type:** ARRL Convention **Talk-In:** 147.060 (PL 100) **Public Contact:** Debbie Deeble , SWL P.O. Box 31372 Walnut Creek, CA 94598 Phone: 925-288-1730 **Email:** [info@pacificon.org](mailto:info@pacificon.org)

### CopaFest 2019

**Start Date:** 10/26/2019 **End Date:** 10/26/2019 **Location:** Ultrastar at Ak-Chin Circle 16000 North Maricopa Road Maricopa, AZ 85238 **Website:** <http://www.copafest.org> **Sponsor:** Maricopa Amateur Radio Association, inc. **Type:** ARRL Hamfest **Talk-In:** 449.125 (PL 136.5), 145.210 (PL 162.2) **Public Contact:** Bob Howard , W8RH 35881 West Catalan Street Maricopa, AZ 85138 Phone: 520-709-6176 **Email:** [w8rh@live.com](mailto:w8rh@live.com)

### Oro Valley Amateur Radio Club Hamfest

**Start Date:** 11/09/2019 **End Date:** 11/09/2019 **Location:** Marana Middle School 11285 West Grier Road Marana, AZ 85653 **Website:** <http://tucsonhamradio.org> **Sponsor:** Oro Valley Amateur Radio Club **Type:** ARRL Hamfest **Talk-In:** 146.62, 444.1, 147.32, 447.525 (PL 156.7) **Public Contact:** Steven Wood , W1SR 6219 N. Via de la Tortola Tucson, AZ 85718 Phone: 520-906-1204 **Email:** [W1SR@ARRL.NET](mailto:W1SR@ARRL.NET)

**K6MEP Net Script**

QST- QST- QST. This is <Name> <Callsign>, with the Ventura County Amateur Radio Club Net.

If there is there 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> <Callsign>, 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, open net for all amateur radio operators, 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. 146.385 plus offset and a PL of 127.3 as backup. All amateurs are welcome to check in after these announcements. A roundtable will follow the open check-in. 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 93003. The next meeting date is <say next meeting date from calendar>. We urge any non-members interested in VCARC to contact our Secretary, Phil Cohen, WA6BUZ email at [K6MEP@qsl.net](mailto:K6MEP@qsl.net).

As we continue with the check-in process, please give your call sign, name and if you are a VCARC member. If you are not a member of the VCARC, please include your QTH or location.

(Check-ins completed): We will now begin with our Roundtable \*\*\*\*\* Any last comments? \*\*\*\*\* Any late, missed, or visitor check-ins? Please check-in now.

(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 <Name> <Callsign>, tonight's VCARC net control, signing off.

**K6MEP CALENDAR**

**May 2019**

- 1: **May Day**
- 4: **K6MEP Spring Picnic/BBQFest at Dudley House**
- 5: **Cinco de mayo**
- 10: **Regular Monthly Club Meeting at 7:30pm.** K6MEP Board meeting precedes the club meeting at 7:00pm; Pete Heins, N6ZE VHF/UHF Contesting
- 12: **Mother's Day**
- 18: **Red Cross "Operation Ride for the Red"** multi-distance bike ride. – ARES Support. Contact Stewart KG6BOV [kg6bov@arrl.net](mailto:kg6bov@arrl.net)
- 26: **Mountains to the Beach Marathon**– ARES Support. Contact Rob W6RH at [w6rh@arrl.net](mailto:w6rh@arrl.net) or Kat K6VQN at [k6vqn@arrl.net](mailto:k6vqn@arrl.net)

**June 2019**

- 9: **Fathers' Day**
- 14: **Flag Day/ Regular Monthly Club Meeting at 7:30pm.** K6MEP Board meeting precedes the club meeting at 7:00pm Field Day Preps
- 22-23 **ARRL Amateur Radio Field Day** – Join us for Field Day at Oxnard College

**July 2019**

- 3: **Moorpark 3<sup>rd</sup> of July Fireworks** – ARES Support. Contact Marc KM6B [km6b@arrl.net](mailto:km6b@arrl.net)
- 4: **Independence Day – Celebrate Our Freedom**
- 12: **Regular Monthly Club Meeting at 7:30pm.** K6MEP Board meeting precedes the club meeting at 7:00pm

*To join Ventura Amateur Radio Club, Inc.  
send form, along with \$20.00 annual dues to P.O. Box 2103, Oxnard CA 93034-2103*

Pro Rate Dues as follows: Oct thru Dec = \$20.00, Jan thru Mar = \$15.00, Apr thru June = \$10.00, July thru Sept = \$5.00

Name \_\_\_\_\_ Call \_\_\_\_\_ E-mail \_\_\_\_\_

Street \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ ZIP \_\_\_\_\_

Date \_\_\_\_\_ New Member \_\_\_\_\_ Renewing \_\_\_\_\_ ARRL? yes \_\_\_ no \_\_\_ Telephone \_\_\_\_\_

Below line for club staff processing only.

Enter processing dates:

Treasurer \_\_\_\_\_ Secretary \_\_\_\_\_ Membership Chairman \_\_\_\_\_ Roster entry \_\_\_\_\_

Membership certificate \_\_\_\_\_ New member letter \_\_\_\_\_

## **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](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

## K6MEP Keyer – The Journal of the Ventura County Amateur Radio Club

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-35.17 **FEMA Safety Orientation 2017** - (1/25/2017)
- 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-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.a **National Incident Management System (NIMS) An Introduction** - (10/31/2013)
- 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-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](http://www.ARRL.org) for details and enrollment.

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## **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 BÖZO

**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

### **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

W6GGRG 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)

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### **Ventura County ARES / ACS Emergency Coordinators**

**ACS RO/ARES DEC:** Rob Hansen, W6RH, Email: [w6rh@arrl.net](mailto:w6rh@arrl.net)

**Assist ACS RO/Deputy DEC:** Rick Tate, KQ6NO Email: [kq6no@arrl.net](mailto:kq6no@arrl.net)

**Area 1 Simi Valley EC:** Steve King, KE6WEZ Email: [ke6wez@gmail.com](mailto:ke6wez@gmail.com)

**Area 2 TO, Conejo Valley EC:** Zack Cohen, N6PK, Email: [n6pk@arrl.net](mailto:n6pk@arrl.net)

**Area 3 Camarillo, Somis EC:** Avi Carmi, K6AVI Email: [avi@carmi.us](mailto:avi@carmi.us)

**Area 4 Oxnard, Hueneme, Mugu EC:** Stewart Stone, KG6BOV Email: [kg6bov@arrl.net](mailto:kg6bov@arrl.net)

**Area 5 Ojai EC:** Wayne Francis, W6OEU Email: [w6oEU@arrl.net](mailto:w6oEU@arrl.net)

**Area 6 City of Ventura EC (acting):** Grant Mohr, KG6SFW, E-mail [gmohr12@hotmail.com](mailto:gmohr12@hotmail.com)

**Area 7 Santa Paula, Fillmore, Piru EC:** Grant Mohr, KG6SFW, E-mail [gmohr12@hotmail.com](mailto:gmohr12@hotmail.com)

**Area 8 Moorpark, Santa Rosa Valley EC:** Marc Hanley KM6B, Email: [km6b@arrl.net](mailto:km6b@arrl.net)

**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](http://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](http://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.

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**Local Area Radio Nets  
Weekly Nets**

**Monday**

**Cuckoo Net 146.790 Mhz (-) / 131.8 Hz PL and 145.180 Mhz (-) / 131.8 Hz PL** every weekday morning from 8:00 AM to about 8:20 AM

**California Rescue ARES Net 7.25 Mhz** MTWThF 8:30 AM

**Santa Barbara South County ARES net** 7:30 p.m. on **146.79 Mhz (-) PL 131.8.**

**LA DCS-22 Net** -- 1930 Hrs. - **K6DCS - 147.225 MHz (+)** then on **7.235± MHz LSB**

**K6MEP / VCARC Club Net** -- **145.200 Mhz (-) / 127.3 PL (WD6EBY linked system)** 8:00 PM

**Southern California ACS NET** MONDAY AT 2000 HOURS LOCAL TIME ON **3992, 3960 KHz LSB**

**LA Section ARES Net** - HF Every Monday following the VHF/UHF net (~2130 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** every weekday morning from 8:00 AM to about 8:20 AM

**California Rescue ARES Net 7.250 Mhz** MTWThF 8:30 AM

**Ventura County ARES-ACS 6 Meter Net** -- between 6:45 PM to 7:00 PM K6SMR **52.980 Mhz (-) PL 82.5** SMRA Red Mt

**Ventura County ARES-ACS Simplex Net** -- 6:30pm on 147.510 Simplex

**Ventura County ARES-ACS HF Net** -- between 6:30 PM to 7:00 PM 40M on **7.235 Mhz LSB +/-** ;

**Ventura County ARES/ACS Nets** between 7:00 and 8:00 PM, the Ventura County Amateur Radio Emergency Service / Auxiliary Communications Service holds their local and County-wide nets. Local Nets are by area and normally run from 7:00 to 7:30 PM. The County-wide Net starts at 7:30 PM and normally finishes by 8:00 PM on **WD6EBY 145.200 (-) / 127.3 PL**

**SBARC Swap Net 146.790 Mhz (-) / 131.8 Hz PL and 145.180 Mhz (-) / 131.8 Hz PL** 7:30-8:00 PM

**West SB ARES HF Net** ( 1<sup>st</sup> Tuesday, Monthly) **3822 KHz LSB** 2030 / 8:30 PM

**6-Meter Roundtable - 50.125 Mhz USB** First Tuesday of each month 2000 / 8:00 PM

2030 **ATV Net 146.790 Mhz (-) / 131.8 Hz PL K6TZ** repeater

**SBARC Digital Communications Net 146.790 Mhz (-) / 131.8 Hz PL and 145.180 Mhz (-) / 131.8 Hz PL** 8:00 – 10:00 PM

**Wednesday --**

**Cuckoo Net 146.790 Mhz (-) / 131.8 Hz PL and 145.180 Mhz (-) / 131.8 Hz PL** every weekday morning from 8:00 AM to about 8:20 AM

**California Rescue ARES Net 7.25 Mhz** MTWThF 8:30 AM

**Southern California ACS NET** 1000 Hours, 40 Meter Net **7230 KHz**

**SMRA Tech Net 146.880 Mhz (-) / 127.3 PL** (SMRA Red Mt) 8:00 PM

**SBARC Swap Net 146.790 Mhz (-) / 131.8 Hz PL** K6TZ 2000

**Thursday**

**Cuckoo Net 146.790 Mhz (-) / 131.8 Hz PL and 145.180 Mhz (-) / 131.8 Hz PL** every weekday morning from 8:00 AM to about 8:20 AM

**California Rescue ARES Net 7.25 Mhz** MTWThF 8:30 AM

**So Cal 6 meter net, 51.940 Mhz – pl 82.5.** 1900-2000 local Thursdays.

**Southern Calif 6M SSB Technical Roundtable Net** Thursday night at 8:00 PM on **50.2 MHz USB SSB**

**SBARC / K6TZ Technical Mentoring Net** -- Thursday nights 8:00-9:00 PM **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** every weekday morning from 8:00 AM to about 8:20 AM

**California Rescue ARES Net 7.250 Mhz** MTWThF 8:30 AM

**Saturday**

**Military Radio Collector Net 1800 / 6:00PM 3985 Kc +/- AM** [www.mrcgwest.org/mrcg-radio-nets/](http://www.mrcgwest.org/mrcg-radio-nets/)

**Sunday**

**ARRL Southwestern Division Net** 0800 / 8:00 AM 3965 MHz.

**Newbie Net** 7:00-7:30 pm Sundays; Bozo Repeater **147.885 Mhz (-) / PL127.3**

**Rabbit Net** 7:00- ??? pm Sundays Linked Rabbit repeaters

## Meeting Minutes (Cont fm pg 2)

VCARC gave out 3 checks at the science fair. The projects were to be related to electromagnetic radiation; however all of the projects were very impressive.

Monday night net April 8 had 14 check ins. First net that counts for the award was March 4th.

### NEW BUSINESS

An announcement was made about the Mountains to the Beach Marathon is asking for operators for 13 aid stations and contact information provided in Groups.io.

Club positions: Discussed either filling club vacancies or deleting the position. Voted to remove Prize Chairman, Awards Mgr. QSL Manager, Historian, and Elmer Coordinator. ARRL Liaison Chris Dimond KJ6QOP was asked about his role, and, based on his response that he hasn't ever been provided a list of duties, was thanked for his service and released.

Stewart had a Red Cross event, Run for the Red, that is fully staffed however if someone wants to stand by let him know.

Lloyd KE6BBP has a loan pool of some ARRL books.

Ben K6QV has some misc. equipment for free or donation to the club.

QSL cards Design approved with the maximum cost not to exceed \$100. Ben volunteered to have the cards made.

BREAK 20:26

**GENERAL MEMBERSHIP MEETING** continued.

A very in depth presentation by Matt Lechliter W6KGB about the GRONK radio network and evolution of FM radio and mountain top repeaters was made. His presentation brought back some fond memories of VHF and UHF operations in the 70s using old commercial radio equipment.

Notes:

Roll Call            Total attendance: 29            Guests: 8

Dues paid by 1 person

Donations 3 people; \$5 for some of Ben's equipment and \$45 each for other equipment

Meeting adjourned 22:44

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### EXECUTIVE BOARD MEETING MINUTES

**MEETING ADDRESS:** Dudley Historical House, Ventura

#### OFFICER ATTENDEES

OFFICE	LAST	FIRST	CALL SIGN	PRESENT
PRESIDENT	SHANK	ROBERT	KM6RSS	X
VP	ABBEY	RICHARD	WB6AEW	X
TREASURER	GARTMAN	JOHN	W6JPG	
SECRETARY	COHEN	PHIL	WA6BUZ	X
BOARD	AUSTIN	ROD	KA6GSU	X
BOARD	STONE	STEWART	KG6BOV	X
BOARD	NOLL	STEVE	WA6EJO	X

**CALL TO ORDER** 19:00

Robert Shank KM6RSS calls brief meeting

Minutes Approved

#### MEETING MINUTES

**K6MEP Keyer May 2019**

[k6mep@qsl.net](mailto:k6mep@qsl.net) / [www.qsl.net/k6mep](http://www.qsl.net/k6mep)

<https://groups.io/g/K6MEP>

## ***K6MEP Keyer – The Journal of the Ventura County Amateur Radio Club***

Secretary report: Membership and business calendar items; need to file Form SI-100 by end of year, and before Mar. File 199N E postcard.

Treasurers report read by Phil WA6BUZ in John's W6JPG absence.

Need to pass membership list to Bob Brodie KJ6AAE so he can contact the people that have not renewed.

Treasurer needs to provide secretary with gross receipts amount for filing of the yearly 199N form. Due May 3

Sample QSL card passed around. Need to add County and Grid Square. Update card then bring to membership. Tabled until general meeting.

K6MEP call sign has been renewed and is valid until May 26, 2029

Stewart will obtain a password for the FCC website for the license. Two people will have access to the password; Stewart plus the secretary.

Robert created a Facebook page which accepts donations as well as a MeWe site to make the club better known on social networking.

Club positions: Talk about filling vacancies or deleting the position. Positions need to be defined; vote for deletions moved to the general meeting.

Field day chairman, Stewart can assist, will open for general membership.

Consideration for earlier meeting, tabled

52 Paid Members

### **Old Business**

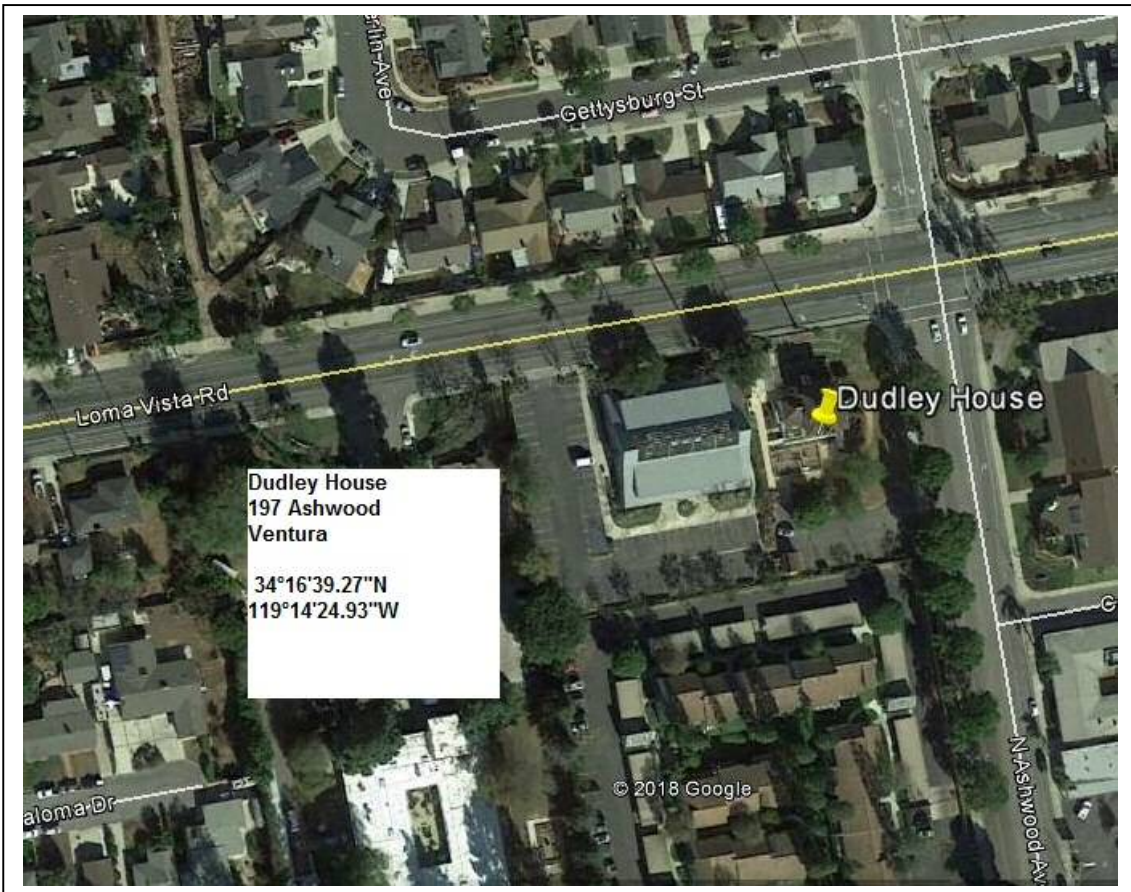
### **NEW BUSINESS**

### **COMMENTS**

### **BOARD ADJOURN 19:31**

Board meeting adjourned and proceed to General meeting.





## Petition for Rule Making Calls for “Amateur Digital Mode Transparency”

04/02/2019

The FCC is accepting comments on a *Petition for Rule Making* ([RM-11831](#)) seeking to amend FCC Part 97 rules that require all ham radio digital transmissions to use techniques “whose technical characteristics have been documented publicly.” The *Petition*, filed by Ron Kolarik, K0IDT, of Lincoln, Nebraska, expresses concerns that some currently used digital modes are not readily and freely able to be decoded, and it asks the FCC to require all digital codes to use protocols that “can be monitored in [their] entirety by third parties with freely available, open-source software,” per §97.113(a)(4).



Kolarik said his petition also aims to reduce levels of amateur-to-amateur interference from Automated Controlled Digital Stations (ACDS) on HF operating under §97.221(d)(2). Kolarik wants the FCC to delete §97.221(c), which permits automatic control of digital emissions provided the station “is responding to interrogation by a station under local or remote control, and [n]o transmission from the automatically controlled station occupies a bandwidth of more than 500 Hz.”

In his *Petition*, Kolarik maintains that interference from ACDS continues to be “a major problem on the amateur bands.” He suggested that an absence of formal complaints may be due to the fact that such stations are “difficult to identify.”

The *Petition* also proposes to amend §97.309(a)(4) to ease monitoring of certain digital transmissions. “Without open, over-the-air interception capability for all transmissions in the Amateur Radio spectrum, there is no way to determine if there is commercial or other prohibited, inappropriate content in ongoing communications...” Kolarik’s *Petition* asserts. He said problems arise when “protocols and devices used in commercial, government, and marine services are used in the Amateur Service with no adequate means to fully decode transmissions,” thwarting any efforts at self-policing of such transmissions. He said simplifying the language “would remove ambiguity about what constitutes ‘publicly documented technical characteristics’ by requiring any protocol to be freely decodable,” and lead to “amateur digital mode transparency, present and future.”

Kolarik contended in his petition that FCC action stemming from ARRL’s 2013 “symbol rate” *Petition for Rule Making* could increase congestion (i.e., interference) problems. In July 2016, the FCC in WT Docket 16-239 [proposed](#) to revise the Part 97 rules to eliminate current baud rate limitations for data emissions, consistent with ARRL’s *Petition*, but declined to propose a bandwidth limitation for MF and HF digital to replace current baud rate limitations. ARRL had asked the FCC to delete the symbol rate limits in §97.307(f) and replace them with a maximum bandwidth for data emissions of 2.8 kHz on amateur frequencies below 29.7 MHz.

**Editors Note – The WINLINK Organization posted a response to the above PRM**

### Fwd: Winlink need your help...

We the ARSFI (Winlink) have just submitted our response to a Rule Making the proposal that would shut Winlink down in the US Amateur bands if adopted. This is a fight for our lives. RM-11831 suggest that all digital modes be “open source,” and easily readable over the air by anyone listening (there was no mention of a rule for SSB Voice only using a language familiar to “all”).



RM-11831 also suggests that all unattended operations under 500 Hz be cramped into the FCC Part 97.221(b) sub-bands with the elimination of FCC Part 97.221(c). As an example, that would put all such operations within the current space example on 40 meters of only 5 KHz band space, and up to 15 KHz maximum for other Part 97.221 sub-bands. That would be for ALL such operations, and not just Winlink. With no space and only “open protocols,” it would also render these operations useless for US Amateurs.

Please assist in providing your Comments either endorsing our ARSFI (Winlink) efforts and/or provide your own comments, Please do not assume the “other guys” will take provide all that is required. We will be off the US ham bands if we all leave it up to the “other guy...” Unfortunately, that is what usually occurs with these Rule Making proceedings, at least for our proponents. For those who have Commented in other FCC Rule Makings, we thank you, and our job is still not done. Also, those agencies we serve off and on the ham bands will certainly be heavily impacted should this Ruling become law. If you have others that have an interest in EmComm or digital enabling technologies, please enlist their assistance as well.

Below is the URL on the Winlink WEBSITE that provides access to both our proposals, one to respond to the current RM-11831, and the other to ask that the Rule Making be dismissed.

[https://winlink.org/content/fcc\\_petition\\_rm\\_11831\\_threatens\\_amateur\\_digital\\_operations\\_winlink](https://winlink.org/content/fcc_petition_rm_11831_threatens_amateur_digital_operations_winlink)

Everything you need is there including our two responses to the Rule Making and talking points that will assist in understanding the issues.

Without ARQ point-to-point protocols used in our US Amateur spectrum, we will all be set back many years. In today's communications environment, digital data transfer is dominant in virtually every aspect of all communications as store and forward messaging. This is also true for Amateur radio, especially for Public and Emergency communications. We need your help to keep our US Amateur spectrum relevant. Many times in the last few years, the ARQ protocols used by Winlink have done much to provide real-life emergency communications for those who needed it. That is a proven fact. We do not want this to come to an end in the United States. Comment, please.

Please pass this on to others who may be of help...

Tom Lafleur, KA6IQA  
Winlink Development team  
San Diego, CA

## **Additional Amateur Radio-Related Petitions Now Open for Comment**

04/01/2019

The FCC has placed three Amateur Radio-related *Petitions for Rule Making (PRMs)* on public notice and has invited comments.

Jerry Oxendine, K4KWH, of Gastonia, North Carolina, wants the FCC to clarify that state and localities should have no authority to regulate Amateur Radio with respect to enacting "distracted driving" statutes. In his *Petition for Rule Making*, now designated as [RM-11833](#), Oxendine contends that such statutes violate FCC rules on scope and operation of equipment by licensees; violate the intent of the FCC and Congress with respect to Amateur Radio's role in disasters, and hinders emergency operations using mobile equipment.

"There is *no* evidence that the operation of two-way radio has but an insignificant impact on 'distracted driving,'" Oxendine stated.

Such distracted driving statutes usurp the authority of the FCC to regulate Amateur Radio, as well as Citizens Band and Part 90 Land Mobile Service users, Oxendine said in his *Petition*.

Edward C. Borghi, KB2E, of Farmington, New York, has submitted a *Petition*, now designated as [RM-11834](#), that would prohibit applicants from requesting a vanity call sign outside their call sign district. Exceptions would be made for call signs applied for under rules governing call signs previously held by family members.

"In some more populous areas, there are few of the most desirable vanity call signs available — the 2 and 6 regions for example," Borghi said. "I see no reason for a licensee to have to compete with out-of-area people for the few 1 × 2 or 2 × 1 or catchy 2 × 3 call signs available in their area of residence," Borghi told the FCC.

Jeffrey Bail, NT1K, of West Springfield, Massachusetts, has submitted a very similar *Petition*, now designated as [RM-11835](#), asking that the FCC give residential preference in competing applications to applicants whose listed FCC address is within the same district/region as the applied call sign. He cites limited availability and increased demand for 1 × 2 and 2 × 1 call signs.

"There are many times a call sign has been awarded to an individual/club who resides outside of the call sign district when there are other people who applied for the same call sign that reside within the district," he said in his brief petition.



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

04/05/2019

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

The Commission's proposed changes differed from the ARRL's initial filing and caused the ARRL to be concerned about possible interference to current users resulting from the deletion of the ARRL's requested 2.8 kHz bandwidth limitation. Due to those concerns the League filed comments with the FCC opposing the deletion of the requested bandwidth.

Since the ARRL's initial filing many individuals and groups have commented to the FCC and publicly regarding issues and potential consequences they passionately believe are implicated by the FCC's proposals embodied in 16-239/11-708. Additionally, in the six years since the initial filing of 11-708 new information has been presented by individuals and groups who support and oppose the FCC's proposed adoption of 16-239.



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

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

## **Solar Cycle 25 Predicted to be Similar to Cycle 24**

04/08/2019

Scientists charged with predicting the Sun's activity for Cycle 25 say it's likely to be much like that of current Cycle 24, which is declining and predicted to bottom out in 2019 or 2020. Solar Cycle 25 Prediction Panel experts said Cycle 25 may get off to a slow start but is anticipated to peak between 2023 and 2026 with a sunspot range of 95 to 130. This is well below the typical average of 140 to 220 sunspots per solar cycle. The panel expressed high confidence that the coming cycle should break the trend of weakening solar activity seen over the past four cycles. The Solar Cycle Prediction Panel forecasts the number of sunspots expected for solar maximum, along with the timing of the peak and minimum solar activity levels for the cycle. The outlook was presented on April 5 at the [2019 NOAA Space Weather Workshop](#) in Boulder, Colorado.

"We expect Solar Cycle 25 will be very similar to Cycle 24: Another fairly weak cycle, preceded by a long, deep minimum," said panel co-chair Lisa Upton, a solar physicist with Space Systems Research Corp. "The expectation that Cycle 25 will be comparable in size to Cycle 24 means that the steady decline in solar cycle amplitude, seen from cycles 21 – 24, has come to an end and that there is no indication that we are currently approaching a Maunder-type minimum in solar activity."

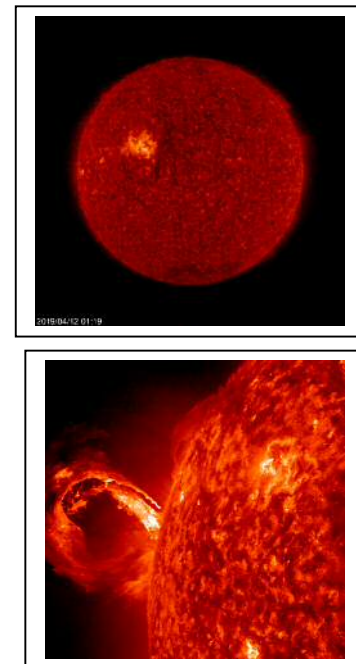
The solar cycle prediction gives a rough idea of the frequency of space weather storms of all types, from radio blackouts to geomagnetic storms and solar radiation storms. In addition to its effects on Amateur Radio signal propagation, space weather can affect power grids; critical military, airline, and shipping communications; satellites and GPS signals, and can even threaten astronauts through exposure to harmful radiation.

Solar Cycle 24 reached its maximum in April 2014 with a peak average of 82 sunspots. The Sun's Northern Hemisphere led the sunspot cycle, peaking more than 2 years ahead of the Southern Hemisphere sunspot peak. Given that the Sun takes 11 years to complete one solar cycle, this is only the fourth time that US scientists have issued a solar cycle prediction. The first panel convened in 1989 for Cycle 22.

For Solar Cycle 25, the panel hopes for the first time to predict the presence, amplitude, and timing of any differences between the northern and southern hemispheres on the Sun, known as hemispheric asymmetry. Later this year, the panel will release an official sunspot number curve showing the predicted number of sunspots during any given year and any expected asymmetry. The panel will also look into the possibility of providing a solar flare probability forecast.

"While we are not predicting a particularly active Solar Cycle 25, violent eruptions from the sun can occur at any time," said Doug Biesecker, panel co-chair and a solar physicist at NOAA's Space Weather Prediction Center ([SWPC](#)). An example of this occurred on July 23, 2012, when a powerful coronal mass ejection (CME) eruption missed Earth but enveloped NASA's STEREO-A satellite. A 2013 study estimated that the US would have suffered between \$600 billion and \$2.6 trillion in damages, particularly to electrical infrastructure, if the 2012 CME had been directed toward Earth. The strength of the 2012 eruption was comparable to the famous 1859 Carrington event that caused widespread damage to telegraph stations around the world and produced aurora displays as far south as the Caribbean.

[Visit](#) the SWPC to obtain the latest space weather forecast. – *Thanks to NOAA*



## **AMSAT Comments in FCC Orbital Debris Mitigation Proceeding**

04/09/2019

AMSAT [has told the FCC](#) that several proposed rule changes related to the mitigation of orbital debris would have an extremely detrimental effect on both the Amateur Satellite Service and AMSAT's ability to launch and operate new satellites, including AMSAT's upcoming GOLF satellites. AMSAT filed comments on April 5 on an FCC *Notice of Proposed Rule Making* ([NPRM](#)) in IB Docket 18-313. AMSAT argues that amateur satellites often have longer mission lifespans than other small satellites and that the FCC should take a mission duration of 5 to 10



years into account when determining whether or not an amateur satellite will meet the orbital debris regulations, either by transferring to a parking orbit or re-entering the atmosphere within 25 years of mission completion. Current practice is to assume a “zero-year” mission and to require that amateur satellites meet the debris regulations.

AMSAT also urged the Commission to consider alternatives to a proposed rule that would restrict to altitudes of 650 kilometers or less satellites in low-Earth orbit that plan to meet the orbital debris mitigation guidelines through atmospheric re-entry. AMSAT noted that, had this rule been in place, it would not have been permissible to deploy AO-85 and AO-91 in their current elliptical orbits with apogees of approximately 800 kilometers, even though both will re-enter within 25 years due to their low perigees.

Additionally, AMSAT noted that current plans for the GOLF-1 satellite are to meet orbital debris mitigation guidelines through atmospheric re-entry by deploying a drag device that will ensure re-entry within 25 years, despite deployment at an altitude higher than 1,000 kilometers. This proposed rule would prohibit GOLF-1’s deployment at that altitude.

The Commission’s proposed rules would further require that Amateur Satellite licensees indemnify the government against any claims made against the US due to the operation of a satellite. AMSAT believes this proposal would end the ability of AMSAT, or any other entity in the US, to launch and operate amateur satellites and urged the FCC to consider alternatives, such as establishing a fund to pay any such claims, noting that the likelihood of such a claim is low.

For amateur satellites with propulsion, the FCC has proposed requiring encryption of any command links as well as satellite telemetry. AMSAT called the proposed rule “unnecessary and counter to the spirit of the Amateur Service” and said open access to telemetry is expected of Amateur Radio satellites and critical to their educational component.

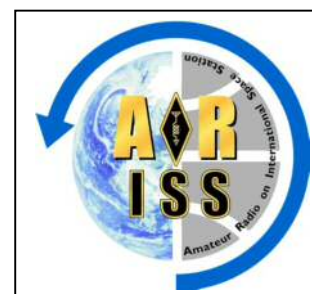
Interested parties may file reply comments by May 5 via the FCC Electronic Comment Filing Service ([ECFS](#)). – Thanks to AMSAT News Service

## AMSAT-India Successfully Launches APRS Satellite

04/09/2019

The Automatic Packet Reporting System (APRS) payload on [AMSAT-India](#)’s AISAT-1 satellite is operational on 145.825 MHz following a successful April 1 launch on the PSLV-C45 mission. The payload was powered up on schedule over Europe, and AMSAT-India announced that DK3WN [was able to digipeat](#) through the satellite. AMSAT-India requests that radio amateurs use the payload and SatGates to feed the traffic.

The fourth stage of the PSLV rocket (PS4) will become an [orbital platform](#) in a 485-kilometer orbit hosting the APRS digipeater, an Automatic Identification System (AIS) from India’s space agency, ISRO, and an ionospheric analyzer from the Indian Institute of Space Science and Technology (IIST). — Thanks to AMSAT News Service



## More ARISS SSTV Transmissions Scheduled

04/09/2019

ARISS-Russia is planning to transmit slow-scan television (SSTV) images from the International Space Station. Transmissions will begin on April 11 at approximately 1800 UTC and run continuously until approximately 1800 UTC on April 14, 2019. A computer in the ISS Russian Segment stores images that are then transmitted to Earth using the ARISS Amateur Radio station in the *Service Module*, which is equipped with a Kenwood TM D710E transceiver. The transmissions will be on 145.800 MHz using PD-120 SSTV mode. All are invited to [post received images](#).

On request, ARISS SSTV Award Manager Slawek Szymanowski, SQ300K, will provide an [ARISS SSTV Award](#) to anyone posting an image. SSTV events are dependent on other activities, schedules, and crew responsibilities on the ISS and subject to change at any time. The most current information is on the [AMSAT-NA](#) and [ARISS](#) websites, the [AMSAT BB](#), the ARISS Facebook page, and the ARISS Twitter feed, [@ARISS\\_status](#). — Thanks to Gaston Bertels, ON4WF

## Honda Portable Generators Recalled Due to Potential Fire Hazard

04/15/2019

American Honda has announced that it’s voluntarily recalling some 200,000 of its portable generators sold in the US due to a potential fire and burn hazard. The recall includes the EU2200i, EU2200i Companion, and EB2200i generators. The US Consumer Product Safety Commission



(CPSC) says the affected portable generators can leak gasoline from the fuel valve. Users should stop operating the recalled generator and contact an authorized Honda dealer for a free repair. Honda is also contacting users directly. For more information, [visit the CPSC website](#). A similar recall has been issued in Canada.

## **ARRL and FCC Sign Memorandum to Implement New Volunteer Monitor Program**

04/16/2019

ARRL and the FCC have signed a *Memorandum of Understanding (MOU)* that paves the way to implement the new and enhanced Volunteer Monitor program. The memorandum establishes the Volunteer Monitors as a replacement for the Official Observers (OO) program. Current OOs have been encouraged to participate in the new program.

“We are excited by the opportunity to codify our partnership with the FCC and to work together to achieve our mutual interests of protecting the integrity of our Amateur Radio bands,” said ARRL President Rick Roderick, K5UR. “This *Memorandum of Understanding* will serve as the foundation for a new level of partnership on this very important issue.”

ARRL has contracted with retired FCC special counsel and former Atlantic Division Vice Director Riley Hollingsworth, K4ZDH, to oversee the ARRL’s role in the development and implementation of the Volunteer Monitor program.

Approved by the ARRL Board of Directors at its July 2018 meeting, the new Volunteer Monitor program is a formal agreement between the FCC and ARRL in which volunteers trained and vetted by the ARRL will monitor the airwaves and collect evidence that can be used both to correct misconduct or recognize exemplary on-air operation. Cases of flagrant violations will be referred to the FCC by the ARRL for action in accordance with FCC guidelines.

The intent of this program is to re-energize enforcement efforts in the Amateur Radio bands. It was proposed by the FCC in the wake of several FCC regional office closures and a reduction in field staff.

“Under this program, the FCC will give enforcement priority to cases developed by the Volunteer Monitor program, without the delay of ARRL having to refer cases through the FCC online complaint process,” Hollingsworth said.

Hollingsworth has identified three phases to the program: Development, Solicitation and Training, and Implementation.

The Development phase will include drafting a mission statement, clearly defining the ARRL’s and FCC’s requirements and needs as part of the program, writing a job description for volunteer monitors, and developing a training manual for volunteers.

The Solicitation and Training phase will involve identifying the geographic locations where volunteer monitors will be most needed, soliciting applications and guidance from Section Managers in reviewing applicants. (Those currently volunteering as Official Observers are invited to apply for appointment as Volunteer Monitors.)

The Implementation phase will involve having the volunteers provide field reports to ARRL, with staff offering guidance to volunteers to ensure that the information collected meets requirements for FCC enforcement action.

Hollingsworth has committed to FCC and ARRL officials to ensure the adequacy of training for the new positions, to review the quality and utility of Volunteer Monitor submissions to the FCC for enforcement actions, and to advocate for rapid disposition of cases appropriately submitted to the FCC.

ARRL officials estimate that within 6 to 9 months the first Volunteer Monitors will be in place and ready to begin their duties.



## ARRL Field Day 2019 Rules

1. **Eligibility:** Field Day is open to all amateurs in the areas covered by the ARRL/RAC Field Organizations and countries within IARU Region 2. DX stations residing in other regions may be contacted for credit, and may submit entries as check-logs.
2. **Object:** To work as many stations as possible on any and all amateur bands (excluding the 60, 30, 17, and 12-meter bands) and in doing so to learn to operate in abnormal situations in less than optimal conditions. A premium is placed on developing skills to meet the challenges of emergency preparedness as well as to acquaint the general public with the capabilities of Amateur Radio.
3. **Date and Time Period:** Field Day 2019 will be held June 22-23. Field Day is ALWAYS the fourth full weekend, beginning at 1800 UTC Saturday and ending at 2059 UTC Sunday.
  - 3.1. Class A and B (see below) stations that do not begin setting up until 1800 UTC on Saturday may operate the entire 27-hour Field Day period.
  - 3.2. Stations who begin setting up before 1800 UTC Saturday may work only 24 consecutive hours, commencing when on-the-air operations begin.
  - 3.3. No class A or B station may begin its set-up earlier than 0000 UTC on the Friday (Thursday afternoon or evening local time) preceding the Field Day period. Cumulative set-up time shall not exceed a total of 24 hours.
4. **Entry Categories:** Field Day entries are classified according to the maximum number of simultaneously transmitted signals, followed by a designator indicating the nature of their individual or group participation. The minimum number of transmitters that must be claimed is one (1). Twenty (20) transmitters maximum are eligible for the purpose of calculating bonus points (2,000 points maximum). However, additional transmitters which may legitimately be used simultaneously will determine your entry category classification, but will not earn additional bonus points (i.e. 22 transmitters = 22A). The use of switching systems that allow for lock-outs in order to use multiple transmitters (i.e., an “octopus”) in an attempt to enter a lower-number-of-transmitters class are prohibited (i.e. using 2 transmitters that can transmit simultaneously, with two operators, and a lock-out system and entering class 1A). The use of simulcasting devices which allow a single operator to key and transmit on more than one transmitter at a time, is prohibited. Bonus stations, such as the GOTA station and satellite station do not count towards determining the number of transmitters for the class and do not qualify for transmitter bonus points.
  - 4.1. **(Class A) Club / non-club portable:** Club or a non-club group of three or more persons set up specifically for Field Day. Such stations must be located in places that are not regular station locations and must not use facilities installed for permanent station use, or use any structure installed permanently for Field Day. A single licensee or trustee for the entry is responsible for the group entry. All equipment (including antennas) must lie within a circle whose diameter does not exceed 300 meters (1000 feet). To be listed as Class A, all contacts must be made with transmitter(s) and receiver(s) operating independent of commercial power mains. Entrants whom for any reason operate a transmitter or receiver from a commercial main for one or more contacts will be listed separately as Class A-Commercial.
    - 4.1.1. **Get-On-The-Air (GOTA) Station.** Any Class A (or F) entry whose transmitter classification is two or more transmitters may also operate one additional station without changing its base entry category, known as the GET-ON-THE-AIR (GOTA) station. This GOTA station may operate on any Field Day band, HF or VHF, but is limited to one GOTA station transmitted signal at any time.
      - 4.1.1.1. This station must use a different callsign from the primary Field Day station. The GOTA station must use the same callsign for the duration of the event regardless if operators change. The GOTA station uses the same exchange as its parent.
      - 4.1.1.2. The GOTA station may be operated by any person licensed since the previous year’s Field Day, regardless of license class. It may also be operated by a generally inactive licensee. Non-licensed persons may participate under the direct supervision of an appropriate control operator. A list of operators and participants must be included on the required summary sheet to ARRL HQ.
      - 4.1.1.3. As per FCC rules, this station must have a valid control operator present at the control point if operating beyond the license privileges of the participant using the station.
      - 4.1.1.4. The maximum transmitter output power for the GOTA station shall be 150 watts. If the primary Field Day group is claiming the QRP multiplier level of 5, the maximum transmitter output power of the GOTA station may not exceed 5 watts.



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- 4.1.1.5. A maximum of 500 QSOs made by this station may be claimed for credit by its primary Field Day operation. In addition, bonus points may be earned by this station under rule 7.3.13.
- 4.1.1.6. The GOTA station may operate on any Field Day band. Only one transmitted signal is allowed from the GOTA station at any time.
- 4.1.1.7. The GOTA station does not affect the additional VHF/UHF station provided for under Field Day Rule 4.1.2. for Class A stations.
- 4.1.1.8. Participants are reminded that non-licensed participants working under the direction of a valid control operator may only communicate with other W/VE stations or with stations in countries with which the US has entered a third-party agreement.
- 4.1.1.9. The GOTA station does not qualify as an additional transmitter when determining the number of transmitters eligible for the 100-point emergency power bonus under Rule 7.3.1.4.1.2. Free VHF Station: All Class A entries may also operate one additional transmitter if it operates exclusively on any band or combination of bands above 50 MHz (VHF/UHF) without changing its basic entry classification. This station does not qualify for a 100-point bonus as an additional transmitter. This station may be operated for the clubs Field Day period and all contacts count for QSO credit. It is operated using the primary callsign and exchange of the main Field Day group and is separate and distinct from the GOTA station.

- 4.2. (Class A - Battery) Club / non-club portable:** Club or non-club group of three or more persons set up specifically for Field Day. All contacts must be made using an output power of 5 Watts or less and the power source must be something other than commercial power mains or motor-driven generator (e.g.: batteries, solar cells, water-driven generator). Other provisions are the same for regular Class A. Class AB is eligible for a GOTA station if GOTA requirements are met; however if a GOTA station is used in this class it must meet the 5-Watt or less power requirement of this category.
- 4.3. (Class B) One or two person portable:** A Field Day station set up and operated by no more than two persons. Other provisions are the same for Class A except it is not eligible for a GOTA or free VHF station. One and two person Class B entries will be listed separately.
- 4.4. (Class B - Battery) One or two person portable:** A Field Day station set up and operated by no more than two persons. All contacts must be made using an output power of 5 Watts or less and the power source must be something other than commercial mains or motor-driven generator. Other provisions are the same for Class A except it is not eligible for a GOTA or free VHF station. One and two person Class B - Battery entries will be listed separately.
- 4.5. (Class C) Mobile:** Stations in vehicles capable of operating while in motion and normally operated in this manner. This includes maritime and aeronautical mobile. If the Class C station is being powered from a car battery or alternator, it qualifies for emergency power but does not qualify for the multiplier of 5, as the alternator/battery system constitutes a motor-driven generating system.
- 4.6. (Class D) Home stations:** Stations operating from permanent or licensed station locations using commercial power. Class D stations may only count contacts made with Class A, B, C, E and F Field Day stations.
- 4.7. (Class E) Home stations - Emergency power:** Same as Class D, but using emergency power for transmitters and receivers. Class E may work all Field Day stations.
- 4.8. (Class F) Emergency Operations Centers (EOC):** An amateur radio station at an established EOC activated by a club or non-club group. Class F operation must take place at an established EOC site. Stations may utilize equipment and antennas temporarily or permanently installed at the EOC for the event. Entries will be reported according to number of transmitters in simultaneous operation. Class F stations are eligible for a free VHF station. At Class 2F they are also eligible for a GOTA station.
  - 4.8.1. For Field Day purposes, an Emergency Operations Center (EOC) is defined as a facility established by: a) a Federal, State, County, City or other Civil Government, agency or administrative entity; or, b) a Chapter of a national or international served agency (such as American Red Cross or Salvation Army) with which your local group has an established operating arrangement;
    - 4.8.1.1. A private company EOC does not qualify for Class F status unless approved by the ARRL Field Day Manager.
  - 4.8.2. Planning of a Class F operation must take place in conjunction and cooperation with the staff of the EOC being activated.
  - 4.8.3. Other provisions not covered are the same as Class A.
  - 4.8.4. A Class F station may claim the emergency power bonus if emergency power is available at the EOC site.
    - 4.8.4.1. The emergency power source must be tested during the Field Day period but you are not required to run the Class F operation under emergency power.

- 5. Exchange:** Stations in ARRL / RAC sections will exchange their Field Day operating Class and ARRL / RAC section. Example: a three transmitter Class A station in Connecticut which also has a GOTA station and the extra VHF station

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would send "3A CT" on CW or Digital, or "3 Alpha Connecticut" on Phone. DX stations send operating class and the term DX (i.e. 2A DX).

### **6. Miscellaneous Rules:**

- 6.1. A person may not contact for QSO credit any station from which they also participate.
- 6.2. A transmitter/receiver/transceiver used to contact one or more Field Day stations may not subsequently be used under any other callsign to participate in Field Day. Family stations are exempt provided the subsequent callsign used is issued to and used by a different family member.
- 6.3. Phone, CW and Digital (non-CW) modes on a band are considered as separate bands. A station may be worked only once per band under this rule.
- 6.4. All voice contacts are equivalent.
- 6.5. All non-CW digital contacts are equivalent.
- 6.6. Cross-band contacts are not permitted (Satellite QSOs cross-band contacts are exempted).
- 6.7. The use of more than one transmitter at the same time on a single band-mode is prohibited. Exception: a dedicated GOTA station may operate as prescribed in Rule 4.1.
- 6.8. No repeater contacts are allowed.
- 6.9. Batteries may be charged while in use. Except for Class D stations, the batteries must be charged from a power source other than commercial power mains. To claim the power multiplier of five, the batteries must be charged from something other than a motor driven generator or commercial mains.
- 6.10. All stations for a single entry must be operated under one callsign, except when a dedicated GOTA station is operated as provided under Field Day Rule 4.1.1. it uses a single, separate callsign.

- 7. Scoring:** Scores are based on the total number of QSO points times the power multiplier corresponding to the highest power level under which any contact was made during the Field Day period plus the bonus points.

#### **7.1. QSO Points:**

- 7.1.1. Phone contacts count one point each.
- 7.1.2. CW contacts count two points each.
- 7.1.3. Digital contacts count two points each.

- 7.2. Power multipliers:** The power multiplier that applies is determined by the highest power output of any of the transmitters used during the Field Day operation.

- 7.3. Bonus Points:** All stations are eligible for certain bonus points, depending on their entry class. The following bonus points will be added to the score, after the multiplier is applied, to determine the final Field Day score. Bonus points will be applied only when the claim is made on the summary sheet and any proof required accompanies the entry or is received via email or normal mail delivery.

- 7.3.1. 100% Emergency Power:** 100 points per transmitter classification if all contacts are made only using an emergency power source up to a total of 20 transmitters (maximum 2,000 points.) GOTA station and free VHF Station for Class A and F entries do not qualify for bonus point credit and should not be included in the club's transmitter total. All transmitting equipment at the site must operate from a power source completely independent of the commercial power mains to qualify. (Example: a club operating 3 transmitters plus a GOTA station and using 100% emergency power receives 300 bonus points.) Available to Classes A, B, C, E, and F.

- 7.3.2. Media Publicity:** 100 bonus points may be earned for attempting to obtain publicity from the local media. A copy of the press release, or a copy of the actual media publicity received (newspaper article, etc.) must be submitted to claim the points. Available to all Classes.

- 7.3.3. Public Location:** 100 bonus points for physically locating the Field Day operation in a public place (i.e. shopping center, park, school campus, etc). The intent is for amateur radio to be on display to the public. Available to Classes A, B and F.

- 7.3.4. Public Information Table:** 100 bonus points for a Public Information Table at the Field Day site. The purpose is to make appropriate handouts and information available to the visiting public at the site. A copy of a visitor's log, copies of club handouts or photos is sufficient evidence for claiming this bonus. Available to Classes A, B and F.

- 7.3.5. Message Origination to Section Manager:** 100 bonus points for origination of a formal message to the ARRL Section Manager or Section Emergency Coordinator by your group from its site. You should include the club name, number of participants, Field Day location, and number of ARES operators involved with your station. The message must be transmitted during the Field Day period and a copy of it must be included in your submission in standard ARRL radiogram or no credit will be given. The message must leave or enter the Field Day operation via amateur radio RF. The Section Manager message is separate from the messages handled in Rule 7.3.6. and may not be claimed for bonus points under that rule. Available to all Classes.

- 7.3.6. Message Handling:** 10 points for each formal message originated, relayed or received and delivered during the Field Day period, up to a maximum of 100 points (ten messages). Copies of each message must be included with the Field Day report. The message to the ARRL SM or SEC under Rule 7.3.5. does not count towards the total of 10 for this bonus. Available to all Classes. All messages claimed for bonus points must leave or enter the Field Day operation via amateur radio RF.
- 7.3.7. Satellite QSO:** 100 bonus points for successfully completing at least one QSO via an amateur radio satellite during the Field Day period. "General Rules for All ARRL Contests" (Rule 3.7.2.), (the no-repeater QSO stipulation) is waived for satellite QSOs. Groups are allowed one dedicated satellite transmitter station without increasing their entry category. Satellite QSOs also count for regular QSO credit. Show them listed separately on the summary sheet as a separate "band." You do not receive an additional bonus for contacting different satellites, though the additional QSOs may be counted for QSO credit unless prohibited under Rule 7.3.7.1. The QSO must be between two Earth stations through a satellite. Available to Classes A, B, and F.
- 7.3.7.1 Stations are limited to one (1) completed QSO on any single channel FM satellite.
- 7.3.8. Alternate Power:** 100 bonus points for Field Day groups making a minimum of five QSOs without using power from commercial mains or petroleum driven generator. This means an "alternate" energy source of power, such as solar, wind, methane or water. This includes batteries charged by natural means (not dry cells). The natural power transmitter counts as an additional transmitter. If you do not wish to increase your operating category, you should take one of your other transmitters off the air while the natural power transmitter is in operation. A separate list of natural power QSOs should be submitted with your entry. Available to Classes A, B, E, and F.
- 7.3.9. W1AW Bulletin:** 100 bonus points for copying the special Field Day bulletin transmitted by W1AW (or K6KPH) during its operating schedule during the Field Day weekend (listed in this rules announcement). An accurate copy of the message is required to be included in your Field Day submission. (Note: The Field Day bulletin must be copied via amateur radio. It will not be included in Internet bulletins sent out from Headquarters and will not be posted to Internet BBS sites.) Available to all Classes.
- 7.3.10. Educational activity bonus:** One (1) 100-point bonus may be claimed if your Field Day operation includes a specific educational-related activity. The activity can be diverse and must be related to amateur radio. It must be some type of formal activity. It can be repeated during the Field Day period but only one bonus is earned. For more information consult the FAQ in the complete Field Day packet. Available to Classes A & F entries and available clubs or groups operating from a club station in class D and E with 3 or more participants.
- 7.3.11. Site Visitation by an elected governmental official:** One (1) 100-point bonus may be claimed if your Field Day site is visited by an elected government official as the result of an invitation issued by your group. Available to all Classes.
- 7.3.12. Site Visitation by a representative of an agency:** One (1) 100-point bonus may be claimed if your Field Day site is visited by a representative of an agency served by ARES in your local community (American Red Cross, Salvation Army, local Emergency Management, law enforcement, etc.) as the result of an invitation issued by your group. ARRL officials (SM, SEC, DEC, EC, etc) do not qualify for this bonus. Available to all Classes.
- 7.3.13. GOTA Bonus.** Class A and F stations operating a GOTA station may earn the following bonus points:
- 7.3.13.1. When a GOTA operator successfully completes 20 QSOs, they receive 20 bonus points. Upon reaching an additional 20 QSOs the same operator receives a second 20 bonus points, up to a maximum of 100 Bonus points per GOTA operator. An operator may make more than 100 QSOs but the QSOs over 100 do not qualify for an additional bonus.
- 7.3.13.1.1. Additional GOTA operators may earn the GOTA bonus points under this rule, up to the maximum of 500 bonus points. (Remember that there is a 500-QSO limit for the GOTA station. But no single GOTA operator may earn more than 100 of the GOTA bonus points except as provided in 7.3.13.2.)
- 7.3.13.1.2. A single GOTA operator must complete all 20 QSOs required before the bonus is earned. There is no "partial credit" for making only a portion of the 20 QSOs or "pooling" QSOs between operators.
- 7.3.13.2. If a GOTA station is supervised full-time by a GOTA Coach, the bonus points earned for each 20 QSOs completed under Rule 7.3.13.1. will be doubled.
- 7.3.13.2.1. The GOTA Coach supervises the operator of the station, doing such things as answering questions and talking them through contacts, but may not make QSOs or perform logging functions.
- 7.3.13.2.2. To qualify for this bonus, there must be a designated GOTA Coach present and supervising the GOTA station at all times it is being operated.
- 7.3.14. Web submission:** A 50-point bonus may be claimed by a group submitting their Field Day entry via the field-day.arrl.org web site. Available to all Classes.
- 7.3.15. Field Day Youth Participation:**
- 7.3.15.1. A 20-point bonus (maximum of 100) may be earned by any Class A, C, D, E, or F group for each participant age 18 or younger at your Field Day operation that completes at least one QSO.

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7.3.15.2. For a 1-person Class B station, a 20-point bonus is earned if the operator is age 18 or younger. For a 2-person Class B station, a 20-point bonus is earned for each operator age 18 or younger (maximum of 40 points.) Keep in mind that Class B is only a 1 or 2 person operation. This bonus does not allow the total number of participants in Class B to exceed 1 or 2.

**7.3.16 Social Media:** 100 points for promoting your Field Day activation to the general public via an active, recognized and utilized social media platform (Facebook, Twitter, Instagram, etc). This bonus is available to bona fide Amateur Radio clubs and Field Day groups that welcome visitors to their operation. Individual participants do not qualify for this bonus. Club websites do not qualify for this bonus. Available to all classes.

**7.3.17 Safety Officer Bonus:** A 100-point bonus may be earned by having a person serving as a Safety Officer for those groups setting up Class A stations. This person must verify that all safety concerns on the Safety Check List (found in the ARRL Field Day Packet) have been adequately met. This is an active bonus – simply designating someone as Safety Officer does not automatically earn this bonus. A statement verifying the completion of the Safety Check List must be included in the supporting documentation sent to ARRL HQ in order to claim this bonus.

### **8. Reporting:**

8.1. Entries may be submitted to the ARRL in one of two ways:

8.1.1. Via Field Day Web App at [field-day.arrl.org](http://field-day.arrl.org) ;

8.1.2. Via email with required attachments to [fieldday@arrl.org](mailto:fieldday@arrl.org) ; or

8.1.3. Via land postal or delivery service to:

**Field Day Entries,  
225 Main St, Newington, CT 06111.**

8.2. Entries must be postmarked, emailed or submitted by Tuesday July 23, 2019. Late entries cannot be accepted.

8.3. A complete Field Day Web Applet Submission site entry consists of:

8.3.1. An official ARRL summary sheet which is completed on the site;

8.3.2. Supporting information must be emailed to [fieldday@arrl.org](mailto:fieldday@arrl.org) or submitted by mail service. Supporting information must include:

8.3.2.1. An attached list of stations worked by band/mode during the Field Day period (dupe sheet or an alpha/numeric list sorted by band and mode); and

8.3.2.2. Proof of all bonus points claimed (copies of visitor logs, press releases, NTS messages handled, photographs, etc).

8.4. A complete non-web-app email submission consists of:

8.4.1. An electronic copy of an ARRL summary sheet completely and accurately filled out;

8.4.2. An attached list of stations worked by band/mode during the Field Day period (dupe sheet or an alpha/numeric list sorted by band and mode); and

8.4.3. Proofs of bonus points claimed (copies of visitor logs, press releases, NTS messages handled, photographs, etc).

8.5. A complete land/postal-mail or delivery non-electronic submission consists of:

8.5.1. A complete and accurate ARRL summary sheet;

8.5.2. An accompanying list of stations worked by band/mode during the Field Day period (dupe sheet or an alpha/numeric list sorted by band and mode); and 8.5.3. Proofs of bonus points claimed (copies of visitor logs, press releases, NTS messages handled, photographs, etc).

8.6. Complete station logs are NOT required for submission. The club should maintain log files for one year in case they are requested by ARRL HQ.

8.7. Cabrillo format log files are NOT required for Field Day entries. They will be accepted in lieu of the dupe sheets but do not constitute an entry unless a corresponding summary sheet is also submitted.

8.8. Digital images of proof of bonus points are acceptable.

8.9. Electronic submissions are considered signed when submitted.

### **9. Miscellaneous:**

9.1. The schedule of bulletin times for W1AW is included in this announcement. While W1AW does not have regular bulletins on weekends, the Field Day message will be sent according to the schedule included with this announcement. The W1AW bulletins will be transmitted on the regular W1AW frequencies listed in QST. The PSK31 bulletin will be transmitted on the W1AW teleprinter frequencies. The special Field Day bulletin will be transmitted from station K6KPH on the West Coast as included in the bulletin schedule.

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9.2. See "General Rules for All ARRL Contests," "General Rules for All ARRL Contests on Bands Below 30 MHz," and "General Rules for All ARRL Contests on Bands Above 50 MHz" for additional rules ([www.arrl.org/contest-rules](http://www.arrl.org/contest-rules)) that may cover situations not covered in these Field Day rules. Decisions of the ARRL Awards Committee are final in adjudicating Field Day problems.

9.3. The complete Field Day information package may be obtained by:

9.3.1. Sending a SASE with 5 units of postage to:

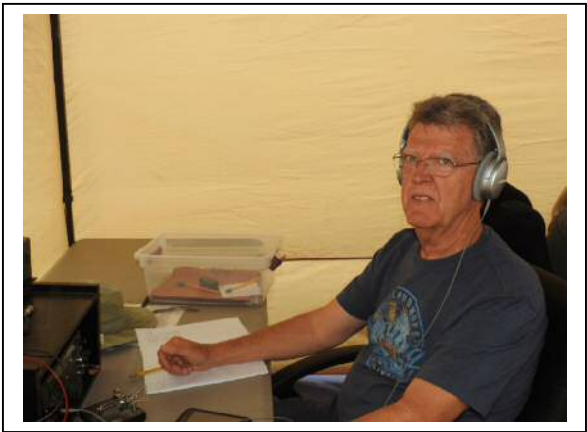
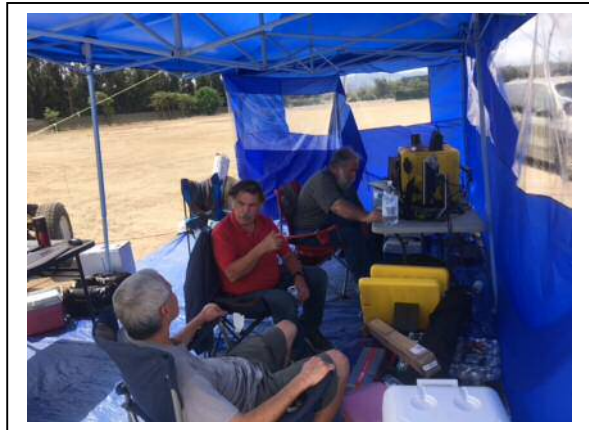
**Field Day Information Package, ARRL,  
225 Main St., Newington, CT 06111;**

or

9.3.2. By downloading from the Contest Branch home page at: [www.arrl.org/field-day](http://www.arrl.org/field-day)

9.4. For more Field Day information/questions contact: [fdinfo@arrl.org](mailto:fdinfo@arrl.org) or phone (860) 594-0232.

Revised 2/2019



**VCARC / K6MEP 2019 Field Day Site at Oxnard College**

**Rose & Bard**

34° 9'45.88"N

119° 9'30.97"W

Grid Square DM04kd

