

The Ventura County Amateur Radio Club, K6MEP will hold its next regular meeting at 7:30 PM on Friday the 10<sup>th</sup> of March 2017 at the Ventura County Port Authority 1603 Anchors Way Ventura, CA 93001, 34°15.11' N, 119°16.01' W, grid DM04IG. (see map pg 19). Board Meeting precedes the General Meeting. Our presentation will be on Tubes, given by Reese West KQ6TT. Coyote Backbone Trail Run 11-12 March, Santa Monica Mts.



First Class Mail

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

**Ventura County Amateur Radio Club 2015 Officers and Chairs**

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New Members	Bob Brodie	KJ6AAE	
QSL Manager			
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Elmer Coordinator	VACANT - An Opportunity to serve your club		

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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 at The Ventura Port Authority building, 1603 Anchors Way Ventura 93001

Dues are \$20 per year.

**Message from the President**

Greetings Members:

Field Day is coming up and I have just one phone number for an alternate site, but no research info. For consideration of a given site, we would need to know the location and size of proposed site (300' E-W and 700' N-S is needed), ground conditions (bare dirt, no sprinklers), no power lines, fencing & accessibility, operating hours, buildings, noise restrictions, contact info, etc. As Club members, you are designated to ask any and all questions to fully research new sites!

There is a Club picnic scheduled tentatively for May 13 at Chumash Park, Ventura.

What is a "thermionic valve"? How about a Fleming Valve? Reese West KQ6TT will explain the what, why and use of vacuum tubes. This may be new for some and review for some but we'll have some fun as Reese covers basic principles and answers questions.

What the heck is "Clatternet" anyway? Well, if you are interested in RTTY, or radio teletype for Hams, then tune into the MRCG Sunday net at 16:00 PST. The free FLDIGI program can decode TTY signals. Don't forget the MRCG 75 meter Weekly AM Voice Net on 3985 LSB. Instructions for both nets can be found at <http://www.mrcgwest.org/mrcg-radio-nets/> Check the web site frequently as net start times vary with band propagation.

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**Secretary's Column and Meeting Minutes**

**Ventura County Amateur Radio Club Inc. Club Meeting Meeting Date : 2/10/17**

**GENERAL MEMBERSHIP MEETING MINUTES**

**MEETING ADDRESS :** Ventura Port District Building 1603 Anchors Way, Ventura

**ATTENDANCE :** Listed on Roll Check-In Sheet

**CALL TO ORDER**

Established quorum (25% of Voting Members = 7 )

**ANNOUNCEMENTS**

**MEETING MINUTES**

Open meeting with Pledge of Allegiance Introductions.

Call for approval of minutes. Quorum to approve the minutes .

**FINANCIAL REVIEW**

**OLD BUSINESS**

Tentative date for the picnic is May 13, Chumash Park We may need an extra volunteer for Science Fair Judge, Paul Dolton has volunteered as alternate, March 24

**GENERAL MEMBERSHIP MEETING**

Paul Dolton presents information on Decibels

(Cont pg 17)

## Selected March 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.

### 02/18/2017 | Bombing of Darwin by Japanese Aircraft

**1942-02-19 Feb 18-Mar 18, 0004Z-1200Z, VI8BOD**, Darwin, Northern Territory, AUSTRALIA. Darwin Amateur Radio Club. QSL. Darwin was bombed on 19 February 1942 by the carrier force that attacked Pearl Harbour on 1941-12-07 with an additional aircraft carrier. The town was all but destroyed by 2 air attacks on the same day the second by land based aircraft from the Japanese held island of Ambon in the then Dutch East Indies, now Indonesia. It was the first attack on Australian soil, and was followed by other aerial attacks on 63 separate days over the next 18 months. [www.vk8da.com](http://www.vk8da.com)

### 02/25/2017 | Nebraska Sesquicentennial (150th)

**Anniversary Celebration QSO Party Feb 25-Mar 6, 1300Z-2300Z, /NE150**, all cities, NE. NE150 Hams. All bands, all modes. QSL. QSL to, Nebraska Amateur, worked. Nebraska amateurs may operate from their own station or as part of a Nebraska historical site activation. Nebraska hams will use "/NE150" as a suffix for their calls, for example, KB0LF/NE150. The exchange for Nebraska stations will be call, name, signal strength, and county plus historical site, if appropriate. Non-Nebraska stations will provide call, name, signal strength, and state or province, if in the US or Canada, or country. Check website for updates and more events. [www.NE150hams.org](http://www.NE150hams.org)

**03/01/2017 | "RST" Event Mar 1-Mar 31, 0000Z-2359Z, KL7RST**, various, AK. North Country DX Association. All modes, 6-16- meters, WARC bands permissible. Certificate & QSL. North Country DX Association, K7ICE, SWLs welcome. Participating calls, fixed and mobile: KL7RST, VY1RST, VE8RST, VY0RST, OX7RST. <https://www.facebook.com/North-Country-DX-Assoc-K7ICE-1717462798496577>

**03/01/2017 | "RST" Event Mar 1-Mar 31, 0000Z-2359Z, VY1RST**, Yukon. North Country DX Association. All modes, 6-16- meters, WARC bands permissible. Certificate & QSL. North Country DX Association, K7ICE. SWLs welcome. Participating calls, fixed and mobile: KL7RST, VY1RST, VE8RST, VY0RST, OX7RST. <https://www.facebook.com/North-Country-DX-Assoc-K7ICE-1717462798496577>

**03/01/2017 | "RST" Event Mar 1-Mar 31, 0000Z-2359Z, VE8RST**, Northwest Territories. North Country DX Association. All modes, 6-16- meters, WARC bands permissible. Certificate & QSL. North Country DX Association, K7ICE. SWLs welcome. Participating calls, fixed and mobile: KL7RST, VY1RST, VE8RST, VY0RST, OX7RST. <https://www.facebook.com/North-Country-DX-Assoc-K7ICE-1717462798496577>

**03/01/2017 | "RST" Event Mar 1-Mar 31, 0000Z-2359Z, VY0RST**, Nunavut. North Country DX Association. All modes, 6-16- meters, WARC bands permissible.

Certificate & QSL. North Country DX Association, K7ICE. SWLs welcome. Participating calls, fixed and mobile: KL7RST, VY1RST, VE8RST, VY0RST, OX7RST. <https://www.facebook.com/North-Country-DX-Assoc-K7ICE-1717462798496577>

**03/01/2017 | "RST" Event Mar 1-Mar 31, 0000Z-2359Z, OX7RST**, various, GREENLAND. North Country DX Association. All modes, 6-16- meters, WARC bands permissible. Certificate & QSL. North Country DX Association, K7ICE. SWLs welcome. Participating calls, fixed and mobile: KL7RST, VY1RST, VE8RST, VY0RST, OX7RST. <https://www.facebook.com/North-Country-DX-Assoc-K7ICE-1717462798496577>

**03/01/2017 | Peace Corps Third Goal SE Mar 1-Mar 7, 1500Z-1500Z, KA9NLX**, Arlington Heights, IL. Peace Corps Amateur Radio Club. Certificate. Commemorate 50th anniversary of India 24 PC Group [jpaskev@aol.com](mailto:jpaskev@aol.com)

**03/02/2017 | First Flight of the Concorde Mar 2-Mar 6, 0000Z-2359Z, KB7QPS**, Seattle, WA. Certificate & QSL. This is the March special event station that is part of the 2017 KB7QPS Air, Space, and Technology Special Event Station. [airspacetechology.webs.com](http://airspacetechology.webs.com)

**03/02/2017 | Southern California Linux Expo (SCaLE 15x) Mar 2-Mar 5, 0000Z-2359Z, N6S**, Pasadena, CA. Ventura County Amateur Radio Society (VCARS). QSL. W6NCT. SCaLE (15X) is the 15th annual Southern California Linux Expo. The event takes place on March 2-5, 2017, at the Pasadena Convention Center. As the first-of-the-year Linux/Open Source software exposition in North America, SCaLE 15X expects to host 150 exhibitors this year, along with nearly 130 sessions, tutorials and special events SCaLE is the largest community-run open-source and free software conference in North America. It is held annually in the Los Angeles area. This year's event includes a VE testing session, Ham MeshNet exhibit, and a live HF station. Amateur Radio presentations focus on open-source and Linux support for Amateur Radio. (for QSLs: submit SASE to address indicated) [www.socallinuxexpo.org/scale/15x](http://www.socallinuxexpo.org/scale/15x)

**03/04/2017 | Penn Wireless 50th Anniversary Mar 4-Mar 18, 0000Z-0000Z, W3K**, Levittown, PA. Penn Wireless Association. Certificate. [pennwireless.org](http://pennwireless.org)

**03/11/2017 | Launching of USS Midway Special Event Mar 11, 1700Z-2359Z, NI6IW**, San Diego, CA. USS Midway (CV-41) Museum Ship. QSL. USS Midway Museum Ship Radio Room.

**03/11/2017 | Samaritans Of West Cumbria Mar 11-Mar 12, 0900Z-1700Z, GB1SWC**, Whitehaven, ENGLAND. Samaritans of West Cumbria. QSL. This special event station will broadcast from The Beacon Museum in Whitehaven throughout the weekend of 11 and 12 March. The event is being held to raise awareness and promote the charitable services provided by Samaritans of West

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Cumbria and similar organizations worldwide.

[www.qrz.com/db/GB1SWC](http://www.qrz.com/db/GB1SWC)

- 03/11/2017 | The American Legion 98th Birthday Commemoration Mar 11, 1800Z-2359Z, K9TAL**, Indianapolis, IN. The American Legion Amateur Radio Club. Certificate & QSL. The American Legion Amateur Radio Club, c/o The American Legion. [k9tal@legion.org](mailto:k9tal@legion.org) or [www.legion.org/hamradio](http://www.legion.org/hamradio)
- 03/12/2017 | Pennsylvania Charter Day Mar 12, 1400Z-2200Z, WM3PEN**, Philadelphia, PA. Holmesburg Amateur Radio Club. QSL. Holmesburg Amateur Radio Club. Charter Day is the day King Charles of England granted William Penn a charter for land that would become Pennsylvania. [www.qrz.com/db/wm3pen](http://www.qrz.com/db/wm3pen)
- 03/17/2017 | Lea County Centennial Mar 17-Mar 19, 0700Z-0659Z, N5LEA**, Hobbs, NM. Lea County Amateur Radio Group. Certificate. Celebrating Lea County, New Mexico's centennial on March 17, 2017. Watch for spots on other frequencies as well. We will log via LOTW and eQSL. For a pdf certificate, email: [n5leanm@gmail.com](mailto:n5leanm@gmail.com). For a printed certificate, \$5 and SASE 9X12 envelope. [www.qsl.net/n5lea](http://www.qsl.net/n5lea)
- 03/18/2017 | Flight 242 Special Event Mar 18-Mar 19, 1400Z-0000Z, W4RSC**, Hiram, GA. Silver Comet Amateur Radio Society. Certificate & QSL. Silver Comet Amateur Radio Society. On April 4, 1977, Southern Airways DC-9 Flight 242 crashed in New Hope, Paulding County, Georgia, killing 72 people. Nine of those were on the ground. 21 people, including both flight attendants, survived. 2017 is the 40th anniversary of the crash. Silver Comet Amateur Radio Society wishes to commemorate those who lost their lives, to honor the survivors for their bravery, and thank those who came to help. [silvercometars.org](http://silvercometars.org)
- 03/18/2017 | New London School Explosion 80th Anniversary Mar 18, 0800Z-1800Z, N5L**, Overton, TX. Rusk County Amateur Radio Club. Certificate & QSL. Rusk County ARC. The New London School exploded on March 18, 1937, when a spark ignited a pocket of odorless natural gas that had leaked into the school's basement. The disaster killed more than 295 students and teachers,

making it the deadliest school disaster in American history. To prevent future disasters, the Texas Legislature quickly mandated that thiols (mercaptans) be added to natural gas providing a strong odor that is now instantly and universally recognized. [RuskCountyARC.com/N5L](http://RuskCountyARC.com/N5L)

- 03/19/2017 | Bataan Memorial Death March Marathon Mar 19-Mar 20, 1600Z-0100Z, K5B**, Las Cruces, NM. Mesilla Valley Radio Club. QSL. Mesilla Valley Radio Club. See website for full details. [www.n5bl.org](http://www.n5bl.org)
- 03/21/2017 | The Buckingham Gunnery Army Airfield Mar 21-Mar 23, 1421Z-1421Z, W4LX**, Fort Myers, FL. Fort Myers Amateur Radio Club. Certificate & QSL. W4LX. Honoring the 50,000 some gunners that trained at that airbase. [www.fmarc.net](http://www.fmarc.net)
- 03/25/2017 | 35th Annual Cherry Blossom Festival Mar 25, 1400Z-2000Z, W4BKM**, Macon, GA. Macon Amateur Radio Club. Certificate. MARC. [www.w4bkm.com](http://www.w4bkm.com)
- 03/25/2017 | Battle of Horseshoe Bend (Creek Indian War) Anniversary Mar 25, 1400Z-2100Z, N4H**, Daviston, AL. Lake Martin Amateur Radio Club. Certificate & QSL. This battle, fought March 27, 1814, brought a close to the Creek War, made Andrew Jackson an American hero and opened much of present day Alabama and Georgia for settlement. Send SASE for QSL only or Self addressed 9x12 envelope with three (3) forever stamps for QSL and certificate. Operation on other dates/times and frequencies may occur. See the N4H page on QRZ or our Facebook page, [www.facebook.com/K4YWE/](http://www.facebook.com/K4YWE/) for the latest information. [www.qrz.com/db/n4h](http://www.qrz.com/db/n4h)
- 03/25/2017 | W/K ARC of Greater Milwaukee - 40th Anniversary Mar 25-Mar 26, 0000Z-2359Z, W9K**, Hales Corners, WI. W/K ARC of Greater Milwaukee. QSL. N9AW. CW 50 KHz up from the bottom of the band Standard Digital Frequencies. W/K celebrates 40 years as an Affiliated club. QSL with SASE. [www.wkarc.club](http://www.wkarc.club)
- 03/29/2017 | Viet Nam Veteran's Day Mar 29, 1430Z-2030Z, W5KID**, Baton Rouge, LA. Baton Rouge Amateur Radio Club. QSL. USS KIDD Amateur Radio Club. Aboard the USS KIDD from 9:30 AM to 3:30 PM, Wednesday, March 29th, 2017 as a Salute to all Viet Nam Vets. Thank You for your Service. [www.brac.org](http://www.brac.org)

## Ventura County Science Fair

The Club has approved sponsoring special awards at the Ventura County Science Fair again for this year. Our special award application has been approved by the Ventura County Office of Education. So far we have seven judges signed up: Allison N6PEP, Bob KJ6AAE, Hovan KI6BQL, Joe K6NE, Reese KQ6TT, Rob KD6UDA, and Steve WA6EJO. Our judges will join the approximately 275 science, engineering, and industry professionals from throughout Ventura County who volunteer their time to serve as judges for the Science Fair. The Science Fair, now in its 62nd year, hosts almost 1000 students from across the county. Friday March 24 is the date of the event which is held at the Ventura County Fairgrounds.

### 2017 Theme: Wonder

California State Multi-Year, Multi-Category 1st Place Winners

#### Important Dates

- Feb. 3rd: Online Project Application Deadline
- Feb. 10th: All Paperwork completed and to VCOE
  - Mar. 23rd: Set-up Day
  - Mar. 24th: Judging Day
  - Mar. 27th: Awards Ceremony
- April 24th - 25th: State Science Fair



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## WD6EBY Laguna Peak Off the Air

16 Feb 2017

Hello All,

I am saddened to report that after 27+ years of service, I have removed all of my repeater equipment from Laguna Peak. The new people in charge have placed such a burden on me requiring 'escorted access only' and requesting of me to have a EIR and RF Radiation studies in place if I wish to continue my presence at Laguna Peak. Even if I were to pass these hurdles, when the next personal rotation happens I could find myself in the same situation. It was just not worth it anymore.

For yesterday's removal I had assistance from Barry Stephens AF6XT, Roger Armstrong WD6EVT, Rob Hanson W6RH. Bill, my long time POC for Laguna Peak was also assisted in the cleanup of the site. The team managed to take down the tower and antennas plus all the electronics and the building, load up the vehicles completing the task in two hours and thirty five minutes. I will miss this site.

So what is the future? By summer the Laguna Peak equipment will be placed into service at another location in the West County. This new location will have different coverage than Laguna Peak but will still serve the County well.

Thank you all.

Respectfully,

Paul Strauss, WD6EBY

## New Repeater for Ventura and Santa Barbara Counties

Ventura County Amateurs,

Please read the email of Bill, W1UUQ.

My comments...When the final repeater is installed in 30 to 60 days it will be linked to the WD6EBY repeater system here in Ventura County. For 15 watts this temp system works surprisingly well. Excellent Mobile coverage along the Rincon and appears to be handheld at La Conchita. It does give out at the 101 and 33 as expected. Would expect coverage in the South Oxnard area. North coverage is yet untested.

Thank you all.

See pictures at bottom of email.

Paul...

WD6EBY

On 1/28/2017 4:53 PM, Bill Talanian, W1UUQ wrote:

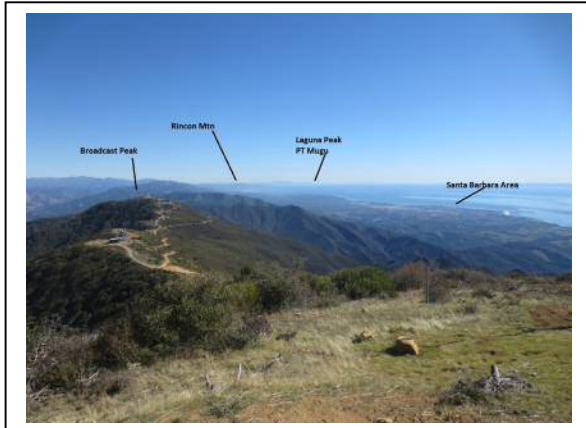
To All

Pending coordination (with TASMA) a temporary 145.160 repeater was installed today at Santa Ynez Peak. It is on a short collinear at 25 ft. and runs 15 watts. The plan is to link this repeater on 420 MHz with wd6eby's repeater on Sulphur Mountain. The results are not going to be spectacular but we would appreciate coverage reports. The long range plan is to link three repeater's for a full time Tri-County VHF system.

Thanks to Paul Strauss, wd6eby and Tom King, ka6sox who jumped in with his tracking generator to validate the duplexer tuning at the hilltop. Plus one other ham who's name I do not know yet. Also to Matt Lechliter, w6kgb, for his continuing efforts on the project and to Wayne Beckman, af6gx, for helping out with the link antenna.

Repeater TX 145.160 156.7

Repeater RX 144.560 127.3



## 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

**03/04/2017 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**

**03/04/2017 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**

**03/05/2017 Time: 10:00 AM (Walk-ins allowed) Sponsor: Southern California Linux Expo VEC: ARRL/VEC Contact: James R. Stoker (310) 775-5613 Email:**

**[jstoker@it.ucla.edu](mailto:jstoker@it.ucla.edu) Location: Pasadena Convention Center 300 E Green Street Pasadena CA 91101-2308**  
**03/11/2017 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 Colorado Blvd Pasadena CA 91105-3010 Wingate Bldg East conf. Room; Check in Booth E parking Lot [www.arrllax.org](http://www.arrllax.org) (ed. Note – Huntington Hospital is 100 W CALIFORNIA )**  
**03/11/2017 Time: 7:00 AM (No walk-ins) Pre-Reg Required Sponsor: The PAPA System VEC: Greater LA VEC Contact: Norman M. Goodkin (818) 222-7893 Email: [hamclass@goodkin.net](mailto:hamclass@goodkin.net) Location: Dinah's Family**

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

- Restaurant 6521 S Sepulveda Blvd Los Angeles CA 90045-1508
- 03/14/2017 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:** County Health Care Services 300 N San Antonio Road Santa Barbara CA 93110-1370 Southwest corner of bldg
- 03/18/2017 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
- 03/23/2017 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@arri.net](mailto:k6pyp@arri.net) **Location:** Northrop Grumman 1 Space Park Blvd (Bldg S Cafeteria) Parking lot off Marine Blvd Redondo Beach CA 90278-1001
- 03/31/2017 Time:** 7:00 PM (Walk-ins allowed) **Sponsor:** WA6IRC Radio club **VEC:** [ARRL/VEC](#) **Contact:** Mark G. Moore (818) 842-1786 **Email:** [n6mgm@outlook.com](mailto:n6mgm@outlook.com) **Location:** Millie's rest 16840 Vanowen St Van Nuys CA 91406-4539
- 04/01/2017 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
- 04/01/2017 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
- 04/05/2017 Time:** 7:30 PM (Walk-ins allowed) **Sponsor:** Baldwin Hills ARC **VEC:** [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
- 04/08/2017 Time:** 8:00 AM (No walk-ins) **Sponsor:** SMRA Emergency Repeater Network **VEC:** [ARRL/VEC](#) **Contact:** George W. Kreider (805) 754-2677 **Email:** [kn6la@verizon.net](mailto:kn6la@verizon.net) **Location:** Betty Plotkin Center, American Red Cross 834 / 836 Calle Plano, Camarillo, Ca 93012; 34d 11m 55.21s N / 119d 00m 28.30s W ; Directions: From US 101, exit Pleasant Valley / Santa Rosa Road, southbound on Pleasant Valley turning left at Pancho Rd. approx. 3/4 mile on Pancho Rd. Left on Pancho at Calle Bolero; Red Cross is 1/2 mile directly ahead.
- 04/08/2017 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 Colorado Blvd Pasadena CA 91105-3010 Wingate Bldg East conf. Room; Check in Booth E parking Lot [www.arrijax.org](http://www.arrijax.org) (ed. Note – Huntington Hospital is 100 W CALIFORNIA )
- 04/08/2017 Time:** 7:00 AM (No walk-ins) **Sponsor:** PAPA **VEC:** [Greater LA VEC](#) **Contact:** Norman M. Goodkin (818) 222-7893 **Email:** [hamclass@goodkin.net](mailto:hamclass@goodkin.net) **Location:** Lulu's Restaurant 16900 Roscoe Blvd Van Nuys CA 91406-1101
- 04/08/2017 Time:** 9:00 AM (Walk-ins allowed) **Sponsor:** South Bay ARC **VEC:** [ARRL/VEC](#) **Contact:** Joseph M. Lanphen (310) 328-0817 **Email:** [jlanphen@ca.rr.com](mailto:jlanphen@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
- 04/09/2017 Time:** 8:30 AM (Walk-ins allowed) **Sponsor:** Conejo Valley ARC **VEC:** [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**
- 04/15/2017 12:00 PM (Walk-ins allowed) Sponsor:** Pine Mountain ARC **VEC:** [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
- 04/15/2017 Time:** 8:30 AM (Walk-ins allowed) **Sponsor:** Downey ARC **VEC:** [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
- 04/23/2017 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
- 04/28/2017 Time:** 7:00 PM (Walk-ins allowed) **Sponsor:** WA6IRC Radio club **VEC:** [ARRL/VEC](#) **Contact:** Mark G. Moore (818) 842-1786 **Email:** [n6mgm@outlook.com](mailto:n6mgm@outlook.com) **Location:** Millie's rest 16840 Vanowen St Van Nuys CA 91406-4539
- 04/29/2017 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@arri.net](mailto:k6pyp@arri.net) **Location:** Northrop Grumman 1 Space Park Blvd (Bldg S Cafeteria) Parking lot off Marine Blvd Redondo Beach CA 90278-1001
- 04/30/2017 Time:** 3:00 PM (Walk-ins allowed) **Sponsor:** Cerritos ARC **VEC:** [ARRL/VEC](#) **Contact:** (562) 708-3893 **Location:** American Red Cross 3150 E 29th St Long Beach CA 90806-2319
- 04/30/2017 Time:** 7:30 AM (No walk-ins) **Sponsor:** Calabasas/LH Sheriff's Station **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
- 05/06/2017 10:00 AM (Walk-ins allowed) Test 1st Saturday Every Month Sponsor:** AA6WC/Ali Hassan **VEC:**

**K6MEP Keyer March 2017**

[k6mep@qsl.net](mailto:k6mep@qsl.net) / [www.qsl.net/k6mep](http://www.qsl.net/k6mep)  
<https://groups.yahoo.com/neo/groups/K6MEP/info>

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

**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

(310) 775-5613 **Email:** [jstoker@it.ucla.edu](mailto:jstoker@it.ucla.edu) **Location:** Huntington Hospital 100 W Colorado Blvd Pasadena CA 91105-3010 Wingate Bldg East conf. Room; Check in Booth E parking Lot [www.arrlax.org](http://www.arrlax.org) (ed. Note – Huntington Hospital is 100 W CALIFORNIA )

**05/06/2017 Time:** 11:00 AM (Walk-ins allowed) **Sponsor:** ARES LAX **VEC:** [ARRL/VEC](http://ARRL/VEC) **Contact:** James W. Laage (818) 368-8710 **Email:** [cilaage@verizon.net](mailto:cilaage@verizon.net) **Location:** Valley Presbyterian Hospital (Health Education Center) 15107 Vanowen Street Van Nuys CA 91405-4542

**05/20/2017 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

**05/09/2017 Time:** 8:30 AM (No walk-ins) **Sponsor:** Santa Barbara ARC **VEC:** [ARRL/VEC](http://ARRL/VEC) **Contact:** Darryl Widman (805) 969-2326 **Email:** [kf6di@sbarc.org](mailto:kf6di@sbarc.org) **Location:** County Health Care Services 300 N San Antonio Road Santa Barbara CA 93110-1370 Southwest corner of bldg

**05/26/2017 Time:** 7:00 PM (Walk-ins allowed) **Sponsor:** WA6IRC Radio club **VEC:** [ARRL/VEC](http://ARRL/VEC) **Contact:** Mark G. Moore (818) 842-1786 **Email:** [n6mgm@outlook.com](mailto:n6mgm@outlook.com) **Location:** Millie's rest 16840 Vanowen St Van Nuys CA 91406-4539

**05/13/2017 Time:** 7:00 AM (No walk-ins) Pre-Reg Required **Sponsor:** The PAPA System **VEC:** [Greater LA VEC](http://Greater LA VEC) **Contact:** Norman M. Goodkin (818) 222-7893 **Email:** [hamclass@goodkin.net](mailto:hamclass@goodkin.net) **Location:** Dinah's Family Restaurant 6521 S Sepulveda Blvd Los Angeles CA 90045-1508

**05/27/2017 Time:** 10:00 AM (Walk-ins allowed) **Sponsor:** Crescent Bay VE Grp/W6TRW ARC **VEC:** [ARRL/VEC](http://ARRL/VEC) **Contact:** Scott Swanson (310) 459-0337 **Email:** [k6pyp@arri.net](mailto:k6pyp@arri.net) **Location:** Northrop Grumman 1 Space Park Blvd (Bldg S Cafeteria) Parking lot off Marine Blvd Redondo Beach CA 90278-1001

**05/16/2017 Time:** 11:00 AM (Walk-ins allowed) **Sponsor:** ARES LAX **VEC:** [ARRL/VEC](http://ARRL/VEC) **Contact:** James R. Stoker

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## Trivia for March 2017

### DID YOU KNOW?

1. As of 1/29/2017 in the US There are 629,536 broadcast towers?
2. Valentines were first sold and handed out in the 1840's in the United States?
3. The first computer made its debut in February 1941?

de Dana kg6wx

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## Upcoming HamFests & Conventions

### Southern California Linux Expo

**March 2-5, 2017** -- The 15th annual Southern California Linux Expo will be held March 2-5, 2017 at the Pasadena Convention Center. What does that have to do with ham radio? More and more every year, actually. SCALE is unique among computer shows; they give a booth to any Open Source software group that has a good story to tell. As a result, of the 100+ booths on the Expo floor, about a third aren't try to sell you anything - not for money, anyway :-). 300 E. Green St. Pasadena, CA 91101. Orv Beach, W6BI, [orv@socallinuxexpo.org](mailto:orv@socallinuxexpo.org)

### SCOTTSDALE SPRING HAMFEST

**Start Date:** 03/18/2017 **End Date:** 03/18/2017 **Location:** Mountain Valley Community Church 17800 North Perimeter Drive Scottsdale, AZ 85250 **Website:** <http://www.scottsdalearc.org> **Sponsor:** ARCA and Scottsdale Amateur Radio Club **Type:** ARRL Hamfest **Talk-In:** 147.18 (PL 162.2) **Public Contact:** Edwin Nickerson, WU7S 902 North 73rd Place Scottsdale, AZ 85257 Phone: 480-949-5162 **Email:** [enickerson427@aol.com](mailto:enickerson427@aol.com)

### April Hamfest at DeVry

**Start Date:** 04/15/2017 **End Date:** 04/15/2017 **Location:** DeVry University 2149 West Dunlap Avenue Phoenix, AZ 85001 **Website:** [www.arca-az.org](http://www.arca-az.org) **Sponsor:** Arizona Amateur Radio club and Amateur Radio Council of Arizona **Type:** ARRL Hamfest **Talk-In:** 147.06 (PL 162.2) **Public Contact:** Gary Hamman, K7GH 5326 E. Voltaire Avenue Scottsdale, AZ 85254 Phone: 602-996-8148 **Email:** [K7GH@arri.net](mailto:K7GH@arri.net)

### International DX Convention 2017

**Start Date:** 04/21/2017 **End Date:** 04/23/2017 **Location:** Visalia Convention Center 303 E. Acequia Avenue Visalia, CA 93277 **Website:** <http://www.dxconvention.com/> **Sponsor:** Northern California DX Club, Central AZ DXA, Utah DXA **Type:** ARRL Convention pending Executive Committee approval **Talk-In:** N/A **Public Contact:** Mike Flowers, K6MKF 1412 Sprucewood Drive San Jose, CA 95118 Phone: 408-307-8258 **Email:** [k6mkf@arri.net](mailto:k6mkf@arri.net)

### Military Radio Collectors Group 22nd Annual Event

**Start Date:** 05/04/2017 **End Date:** 05/06/2017 **Location:** Camp San Luis Obispo NCO Club 10 Sonoma Avenue San Luis Obispo, CA 93401 **Website:** <http://mrcgwest.org> **Sponsor:** MRCG West **Type:** ARRL Convention pending Executive Committee approval **Talk-In:** 146.52 **Public Contact:** Tim Sammons, N6CC c/o 675 Dana Drive Santa Paula, CA 93060 Phone: 925-830-9474 **Email:** [N6CC@ARRL.NET](mailto:N6CC@ARRL.NET)

### CARA Hamfest

**Start Date:** 05/06/2017 **End Date:** 05/06/2017 **Location:** Green Acres 2756 S. Moson Road Sierra Vista, AZ 85635 **Website:** <http://k7rdg.org> **Sponsor:** ARCA, CARA **Type:** ARRL Hamfest **Talk-In:** 146.76 (PL 162.2) **Public Contact:** Peter Pototsky, NH6BF HC1 Box 56 Elgin, AZ 85611 Phone: 520-216-6381 **Email:** [lr60@yahoo.com](mailto:lr60@yahoo.com)

### Prescott Hamfest at ERAU 2017

**Start Date:** 06/09/2017 **End Date:** 06/10/2017 **Location:** Embry Riddle Aeronautical University (ERAU) 3700 Willow Creek Road Prescott, AZ 86301 **Website:** <http://hamfest.w7yrc.org/> **Sponsor:** Yavapai ARC (YARC), Eagle ARC (EARC) at ERAU, Amateur Radio Council of AZ (ARCA) **Type:** ARRL Hamfest **Talk-In:** 146.88 (PL 100) **Public Contact:** Frank Bender, K8FB 635 Shadow Mountain Drive Prescott, AZ 86301 Phone: 928-379-5575 **Email:** [fhb47@hotmail.com](mailto:fhb47@hotmail.com)

### Southwestern Division Convention (HAMCON 2017)

**Start Date:** 09/15/2017 **End Date:** 09/17/2017 **Location:** Torrance Marriott Redondo Beach Hotel 3635 Fashion Way Torrance, CA 90501 **Sponsor:** Los Angeles Area Council of Amateur Radio Clubs **Type:** ARRL Convention **Talk-In:** 145.550 (PL 173.8) **Public Contact:** Diana Feinberg, AI6DF PO Box 4678 Palos Verdes Peninsula, CA 90274 Phone: 310-544-2917 **Email:** [ai6df@arri.net](mailto:ai6df@arri.net)

**K6MEP Net Script**

“Is this frequency in use, or is there any emergency or priority traffic?”

“Hearing none , the following is a Q-S-T.”

“This is \_\_\_\_\_, net control station for the Ventura County Amateur Radio Club Net.”

“This is a directed, open net for all radio amateurs, sponsored by K6MEP, the Ventura County Amateur Radio Club. This net begins each Monday evening at Eight Thirty P-M local time, first on Two—Eight—Decimal—Four—Zero—Zero megahertz, and then will Q-S-Y to One—Four—Six—Decimal—Nine—Seven—Zero megahertz. This is linked to Four Four Eight Decimal Eight Zero Zero Megahertz. All amateurs are welcome to check in. A roundtable will follow roll call. A ragchew session may follow the formal net.”

“K6MEP, the Ventura County Amateur Radio Club, meets at Seven Thirty P-M on the Second Friday of each month at the Ventura County Port Authority 1603 Anchors Way Ventura, CA 93001.”

“The next meeting date is \_\_\_\_\_” (From the newsletter calendar section).

“A roll-call of club members will be followed by a request for late, missed and visitor check-ins.”

(Roll Call) \*\*\*\*\* “Any late, missed, or visitor check-ins? Please call K6MEP”

(Roundtable) \*\*\*\*\* “Any last comments?”

**Ten Meter Closing:** — “Control is now transferred to One—Four—Six Decimal—Nine—Seven—Zero megahertz. All net members are invited to Q-S-Y. This is \_\_\_\_\_.”

**Two Meter Closing:** — “Good evening to you all, this net is closed at \_\_\_\_\_. (Time) We would like to thank WB6YQN and K6JLW for the use of their repeaters for our net”

“73, This is \_\_\_\_\_.”

\*\*\*\*\*

**K6MEP CALENDAR**

**March 2017**

- 10: Regular Monthly Club Meeting at 7:30pm. K6MEP Board meeting precedes the club meeting at 7:00pm
- 11-12: **Coyote Backbone Trail Ultra** – ARES Support; contact Dan KE6NYT [ke6nyt@arrl.net](mailto:ke6nyt@arrl.net)
- 15: **“Caesar, Beware the Ides of March!”**
- 17: **St.Patrick’s Day** – Don’t irritate the Leprechauns
- 23-27: **Ventura County Science Fair** -- <http://www.vcoe.org/sc/ScienceFair.aspx>

**April 2017**

- 1: **April Fool’s Day !**
- 10: **Passover Starts**
- 14: Regular Monthly Club Meeting at 7:30pm. K6MEP Board meeting precedes the club meeting at 7:00pm
- 16: **Easter Sunday**
- 18: **Passover Finishes**
- 18: **Tax Day – Beware the Tax Man**

**May 2017**

- 12: Regular Monthly Club Meeting at 7:30pm. K6MEP Board meeting precedes the club meeting at 7:00pm
- 13: **K6MEP Spring BBQFest and Picnic at Chumash Park**
- 14: **Mother’s Day**
- 20: **Armed Forces Day**
- 28: **Mountains to the Beach Marathon – ARES Support** – Contact Rob Hanson W6RH – [w6rh@arrl.net](mailto:w6rh@arrl.net)
- 29: **Memorial Day – Remember their Sacrifice**

*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.

### **Scheduled Red Cross Classes**

For training class registration, call: 805-987-1514 Ext 320. Please try to register for classes a week before the class is being offered

### **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

## 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-20.16 [Diversity Awareness Course 2016](#) - (2/8/2016)
- IS-21.16 [Civil Rights and FEMA Disaster Assistance](#) - (1/4/2016)
- 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-35.16 [FEMA Safety Orientation 2016](#) - (1/4/2016)
- 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-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](#) - (10/31/2013)
- IS-815 [ABCs of Temporary Emergency Power](#) - (12/27/2016)
- 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)

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 SMRA ERN South 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 / 447.580 Mhz(-) PL 141.3

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

**Area 1 Simi Valley** – K6ERN 146.805 Mhz (-) PL 100.0

**Area 2 Conejo Valley, T. Oaks, Newbury Park** – N6JMI 147.885 Mhz (-) PL127.3 BOZO

**Area 3 Camarillo, Somis**,– K6ERN 147.915 Mhz (-) PL 127.3

**Area 4 Oxnard, Port Hueneme, NBVC** – WB6YQN 146.970 Mhz (-) PL 127.3

**Area 5 Ojai Valley** – N6FL 145.400 Mhz (-) PL 114.8

**Area 6 Ventura City** – K6ERN 147.765 Mhz (-) PL 127.3 Olivas Park / SMRA

**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

W6GRG 146.940 Mhz (-) PL 127.3 Simi DSW Repeater

W6YJO 145.180 Mhz (-) PL 131.8 Sta Ynez

WA6FGK 146.640 Mhz (-) PL 127.3 Simi Valley

WA6PPS 147.300 Mhz (-) PL 110.9 L.A.City ACS

WB6OBB 147.000 Mhz (+) PL 131.8 Sta Barbara

WD6EBY 145.420 Mhz (-) PL 127.3 Chatsworth Pk

WD6EBY 147.060 Mhz (-) PL127.3 Laguna Peak -- Silent

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

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

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

**Area 1 Simi Valley – 145.510 Mhz (S)**

Area 2 Conejo Valley, T.O., Newbury Pk – 146.445 Mhz (S)

Area 3 Camarillo, Somis – 146.550Mhz (S)

Area 4 Oxnard, Port Hueneme, NBVC – 146.595Mhz (S)

Area 5 Ojai Valley – 145.555Mhz (S)

Area 6 Ventura City – 147.510Mhz (S)

**Area 7 Santa Paula, Fillmore, Piru – 145.540 Mhz (S)**

Area 8 Moorpark – 146.535Mhz (S)

**County ARES Simplex – 145.615 Mhz (S)**

National Simplex – 146.520Mhz(S)

---

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

**ACS RO/ARES DEC:** Rob 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@arrl.net](mailto:ke6wez@arrl.net)

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

**Area 3 Camarillo, Somis EC:** Ted Lansing KI6PTX Email: [ki6ptx@arrl.net](mailto:ki6ptx@arrl.net)

**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)

**K6MEP Keyer March 2017**

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

<https://groups.yahoo.com/neo/groups/K6MEP/info>

**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 2011, 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.

The course is offered online using the Moodle learning platform. The *Introduction to Emergency Communication* course has six sections with 29 lesson topics and a 35 question final assessment. Participants should plan on completing the course in approximately 45 hours over a nine week period. This is a mentored course, in which you may work according to your own schedule. Cost is \$50 for ARRL members and \$85 for non-members.

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.

The new Ventura County ACS Trailer at SkyWarn Operations, NWS Oxnard, 7 Dec 2014



## Local Area Radio Nets Weekly Nets

### Monday

**Cuckoo Net** 146.790 Mhz (-) / 131.8 Hz PL every  
weekday morning from 7:00 AM to about 8:20 AM

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

**K6MEP / VCARC Club Net** -- 8:30 PM 28.400 Mhz  
USB / 146.970 Mhz (-) / 127.3 PL (WB6YQN  
repeater) linked to K6JLW 448.800 Mhz (-) PL  
131.8

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

**LA Section ARES Net** - HF Every Monday following the  
VHF/UHF net (~2130 hrs) 1st, 3rd and 4th Monday -  
75 meters 3.995 MHz ( $\pm$  45 kHz) / 2nd Monday - 10  
meters 28.495 MHz

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

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

### Tuesday

**Cuckoo Net** 146.790 Mhz (-) / 131.8 Hz PL every  
weekday morning from 7:00 AM to about 8:20 AM

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

**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

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

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

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

2000 **6-Meter Roundtable** - 50.125 Mhz USB First  
Tuesday of each month.

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

### Wednesday --

**Cuckoo Net** 146.790 Mhz (-) / 131.8 Hz PL every  
weekday morning from 7:00 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 every  
weekday morning from 7:00 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 every  
weekday morning from 7:00 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.mrcqwest.org/mrcq-radio-nets/](http://www.mrcqwest.org/mrcq-radio-nets/)

### Sunday

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

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

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

**Prez Sez** (cont fm pg 2)

If you have no capability on 75 or 40 meters you can load up "KFS WebSDR HF radio receiver system" at <http://69.27.184.62:8901/?tune=3985am> or the equivalent for 40 meters - no license required to listen!

Bring your ideas, suggestions, enthusiasm and interest to the Friday March 10 meeting - See you all there!

73,  
Joe Krigbaum K6NE

President, VCARC

-----  
**Meeting Minutes** (Cont fm pg 2)

Notes

Roll Call            Total attendance :            Guests:            .

**EXECUTIVE BOARD MEETING MINUTES**

**MEETING ADDRESS :** Ventura Port District meeting room 1603 Anchors Way, Ventura

**OFFICER ATTENDEES**

**CALL TO ORDER**

Joe calls brief meeting

**MEETING MINUTES**

Joe had asked for any board issues

Approval of minutes. The January minutes are approved.

Treasurer's report Joe K6NE stand in as treasurer. Reports current balances.

Secretary reports 31 members current , need final income for 2016 from Treasurer to file form 990 and 199.

No further board issues, meeting adjourned.

**OLD BUSINESS**

No activity setting up repeater.

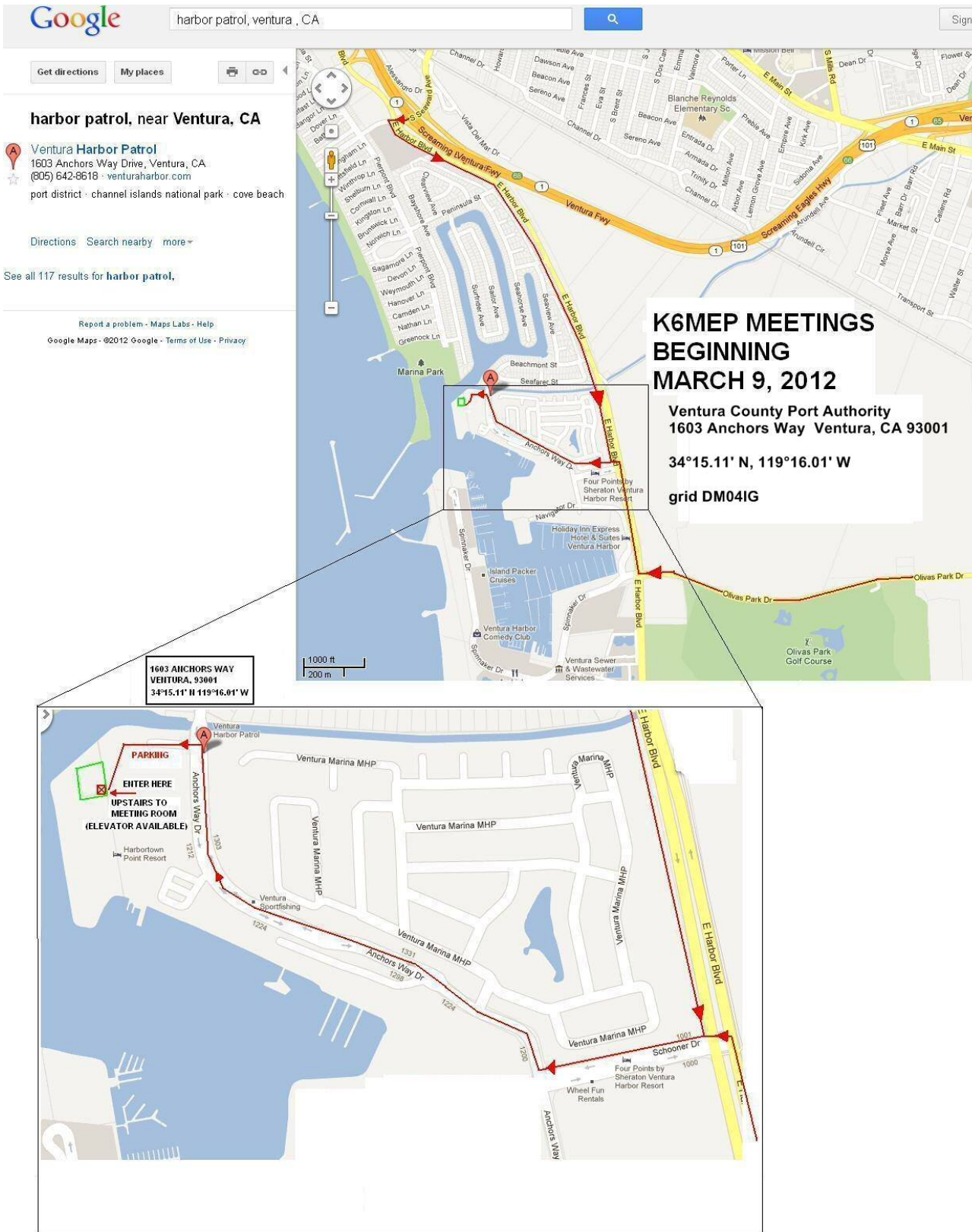
**NEW BUSINESS**

**COMMENTS**

**ADJOURN**

Board meeting adjourned and proceed to General meeting.

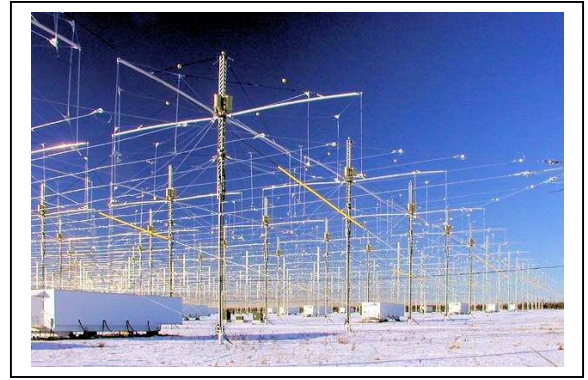
**K6MEP Keyer – The Journal of the Ventura County Amateur Radio Club**



## Alaska's HAARP Facility Once Again Open for Business

02/14/2017

The High Frequency Active Auroral Research Program ([HAARP](#)) in Gakona, Alaska, will soon undertake its first scientific research campaigns since the facility was taken over by the University of Alaska Fairbanks (UAF) Geophysical Institute 18 months ago. Among the investigators is UAF Researcher Chris Fallen, KL3WX, who will be working under a National Science Foundation [grant](#), "RAPID: Spatiotemporal Evolution of Radio-Induced Aurora." Fallen says the HAARP transmissions will take place within the facility's transmitter tuning range of 2.7 to 10 MHz and should be audible outside of Alaska and may even produce visible effects within the state.



"This time my experiments will largely focus on artificial radio-induced airglow that potentially can be photographed from nearly anywhere in Alaska — weather permitting," Fallen told ARRL. "I plan to start and stop each experiment block with an audio Luxembourg-style broadcast — transmitting two amplitude-modulated carrier waves at different frequencies separated by about 1 MHz, with the resulting skywave signal being a mix of both frequencies."

Fallen said that he has prior success reproducing the "Luxembourg effect" using two DTMF tones. "But this time, I have a short simple musical composition recorded by a local musician," he said. "It was composed specifically to take advantage of the Luxembourg effect."

According to UAF, Fallen, an assistant research professor in space physics, will create an "artificial aurora" that can be photographed with a sensitive camera within Alaska. The phenomenon has been created in the past above HAARP during certain types of transmissions.

Just which HF frequencies Fallen will use won't be determined until shortly before he begins his research. "The specific frequency chosen during a particular experiment depends on the experiment's objectives, FCC regulations, and ionospheric conditions at the time," Fallen explained. He will use ionosonde data to guide frequency selection.

In an explanatory [blog](#), Fallen explains that HAARP scientists use the ionosonde to estimate two important parameters: (1) the amount of low-level ionosphere D-region HF radio absorption that frequently occurs due to natural, but not well understood, processes that prevent HAARP radio wave energy from reaching the higher ionosphere E and F regions; and, (2) the ionosphere vertical "critical frequency" [sometimes referred to as *foF2*], above which any radio transmissions pass through the ionosphere into space rather than being reflected or absorbed."

Fallen said experiment times and frequencies for his airglow and Luxembourg experiments will be updated on his blog and on his Twitter account linked in the blog. He encourages radio amateurs and SWLs to record the events they hear and post reports to social media or [e-mail](#) him.

Built and operated by the US Air Force until August 2015, HAARP includes a 40-acre grid of antennas and a very high-power array of HF transmitters to conduct ionospheric research. Scientists later this month will use HAARP to conduct other experiments that will include a study of atmospheric effects on satellite-to-ground communications and over-the-horizon radar experiments.

Research funding agencies also include the US Department of Energy's Los Alamos National Lab and the Naval Research Laboratory. HAARP also has a [Facebook page](#).

## HAARP Experiments to Get Under Way on February 20 UTC, Reports Invited

02/18/2017

On February 20 (UTC), Alaska's High Frequency Active Auroral Research Program ([HAARP](#)) will launch its first scientific research campaign since the facility was taken over by the University of Alaska Fairbanks (UAF) Geophysical Institute 18 months ago. UAF Space Physics Group Assistant Research Professor Chris Fallen, KL3WX, reports that he will be ready to go starting Monday, February 20, at 0330 UTC (Sunday, February 19, in US times zones). His campaign will run through February 23 (transmissions will start 1 hour later on February 22 UTC).

Fallen plans to start and stop each experiment block with an audio broadcast, transmitting AM carriers at 2.8 and 3.3 MHz, with the resulting skywave signal — the "Luxembourg Effect" — being a mix of both frequencies. He told ARRL that he will transmit a short, simple piece of music, composed locally, specifically to help demonstrate the Luxembourg effect.

Transmissions to create radio-induced airglow or “aurora” that potentially can be photographed from nearly anywhere in Alaska will take place afterward; Fallen said on February 18 that he wasn’t quite ready to announce precise frequencies for that experiment.

“Initially the airglow experiments will be a silent carrier, but if things go well the first night I may try a single AM-modulated tone to make the broadcast easier to hear,” Fallen told ARRL. He said net radiated power would be in the 2 MW range.

Fallen is working under a National Science Foundation [grant](#). He’s posting additional information on his “Gakona HAARPool 2017” [blog](#). He points out that exact times, transmit frequencies, and experiment modes “are subject to change in response to a variety of factors.” Selected updates will be posted via [Twitter](#).

Fallen encourages radio amateurs and SWLs to record the events they hear and post reports to social media or [e-mail](#) him.

## HAARP Signals Widely Copied, Experiments to Continue

02/20/2017

Many listeners were able to copy signals from Alaska’s High Frequency Active Auroral Research Program ([HAARP](#)) early on February 20 (UTC). The facility has begun its first scientific research campaign since being taken over by the University of Alaska Fairbanks (UAF) Geophysical Institute 18 months ago. UAF Space Physics Group Assistant Research Professor Chris Fallen, KL3WX, said the Twitter and e-mail feedback from his first evening’s run has been “fantastic.” Fallen will fire up the powerful HAARP transmitters again on February 21 starting at 0300 UTC (the evening of February 20 in US time zones) with a few tweaks.

“I may adjust the frequency to 2.83 MHz and 3.33 MHz, but generally it will be 2.8-ish and 3.3-ish either way,” he told ARRL.

Fallen is starting and stopping each experiment block with an audio broadcast, transmitting AM carriers on or about 2.8 and 3.3 MHz, with the resulting skywave signal — the “Luxembourg Effect” — being a mix of both frequencies. He has transmitted a simple piece of music, composed locally, specifically to help demonstrate the Luxembourg effect. Fallen said he got reports on the first evening from Georgia, Michigan, British Columbia, Southern California, and Finland — among other locations.

“The CW artificial aurora experiment that follows (weather dependent) is 90 seconds on, 30 seconds off, with the following sequence: 2.80, 2.80, 2.82, 2.84 MHz,” Fallen said. “The ionosphere has been looking ratty all day, so I do not have much hope for the artificial aurora experiments.”

He said his Twitter feed ([@ctfallen](#)) has included “a lot of great waterfalls, videos, and audio by hams and SWLers. It’s quite an event, of sorts.”

Fallen is working under a National Science Foundation [grant](#). He’s posting additional information on his “Gakona HAARPool 2017” [blog](#). He points out that exact times, transmit frequencies, and experiment modes “are subject to change in response to a variety of factors.” Selected updates will be posted via [Twitter](#).

Fallen encourages radio amateurs and SWLs to record the events they hear and post reports to social media or [e-mail](#) him.

## FCC Invites Comments on ARRL Petition to Allocate New 5 MHz Band



02/16/2017

The FCC has invited comments on the ARRL’s January 12 [Petition for Rule Making](#) to allocate a new, contiguous secondary band at 5 MHz to the Amateur Service. The League also asked the Commission to keep four of the current five 60-meter channels — one would be within the new band — as well as the current operating rules, including the 100 W PEP effective radiated power (ERP) limit. The federal government is the primary user of the 5 MHz spectrum. The FCC has designated the League’s *Petition* as RM-11785 and put it on public notice. Comments are due Monday, March 20. ARRL plans to file comments in support of its petition.

The proposed ARRL action would implement a portion of the *Final Acts* of World Radiocommunication Conference 2015 (WRC-15) that provided for a secondary international allocation of 5,351.5 to 5,366.5 kHz to the Amateur Service; that band includes 5,358.5 kHz, one of the existing 5 MHz channels in the US. The FCC has not yet acted to implement other portions of the WRC-15 *Final Acts*.

“Such implementation will allow radio amateurs engaged in emergency and disaster relief communications, and especially those between the United States and the Caribbean basin, to more reliably, more flexibly and more capably

conduct those communications [and preparedness exercises], before the next hurricane season in the summer of 2017,” ARRL said in its petition.

The League said that 14 years of Amateur Radio experience using the five discrete 5-MHz channels have shown that hams can get along well with primary users at 5 MHz, while complying with the regulations established for their use. “Neither ARRL, nor, apparently, NTIA is aware of a single reported instance of interference to a federal user by a radio amateur operating at 5 MHz to date,” ARRL said in its petition. NTIA — the National Telecommunications and Information Administration, which regulates federal spectrum — initially proposed the five channels for Amateur Radio use. In recent years, Amateur Radio has cooperated with federal users such as FEMA in conducting communication interoperability exercises.

The League said in its petition that while the Amateur Radio community is grateful to the FCC and NTIA for providing *some* access to the 5-MHz band, “the five channels are, simply stated, completely inadequate to accommodate the emergency preparedness needs of the Amateur Service in this HF frequency range,” ARRL said. Access even to the tiny 15-kHz wide band adopted at WRC-15 would “radically improve the current, very limited capacity of the Amateur Service in the United States to address emergencies and disaster relief,” ARRL said.

The WRC-15 *Final Acts* stipulated a power limit of 15 W effective isotropic radiated power (EIRP), which the League said “completely defeats the entire premise for the allocation in the first place.” ARRL said the FCC should permit a power level of 100 W PEP ERP, assuming use of a 0 dBd gain antenna, in the contiguous 60-meter band. “To impose the power limit adopted at WRC-15 for the contiguous band would render the band unsuitable for emergency and public service communications,” the League said.

The ITU *Radio Regulations* permit assignments at variance with the *International Table of Allocations*, provided a non-interference condition is attached.

## **MARS Refocuses Its Mission, Encrypts Data Nets**

02/22/2017

Today’s Military Auxiliary Radio System (MARS) program has changed markedly from what it was just a few years ago. So says US Army MARS Program Manager Paul English, WD8DBY, who contends that MARS must adapt in order to remain relevant and useful to its sponsor, the US Department of Defense (DOD).

“Probably the most significant changes were the Navy’s decision to ‘sunset’ the Navy Marine Corps MARS program and our move to refocus Army and Air Force MARS on providing contingency HF Radio communications support to the DOD and the services,” English said. “In order to focus our support on the Department of Defense, MARS leadership had to rethink, essentially from the ground up, what it means to be a MARS member.” MARS relies on volunteers from within the Amateur Radio ranks. Among other things, recruits receive specialized training in military messaging formats and digital messaging protocols.

While the priority MARS mission is to provide contingency HF communication to support the DOD and the military, MARS also supports communication for combat commands providing humanitarian assistance and disaster relief, provides contingency communication for Defense Support to Civil Authorities (DSCA), and provides “morale and welfare communications” in support of the DOD.

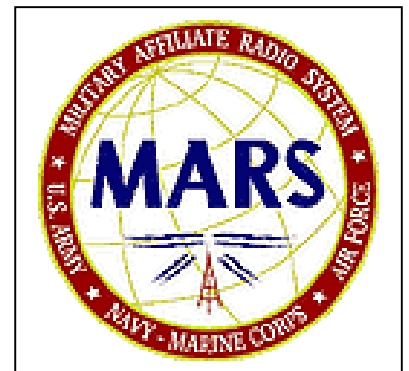
MARS still provides support for civil authorities, but it must follow DOD procedures for how that support is provided, English explained. “MARS leadership used to actively encourage our members to support civil authorities,” he said, “and that put us in direct competition with the Amateur Radio community as well as with other federal agencies.”

English said that in today’s MARS program, the primary digital protocol is software that emulates Military Standard (MilStd) 188-110A (M110A) serial phase-shift keying, which is compatible with what is used by the military. MARS members may still use Amateur Radio digital modes on working channels, but M110A is the principal mode. There are no plans to transition to digital voice modes.

This year, MARS introduced an online encryption program that allows all digital radio traffic to be encrypted as it is being transmitted. MARS has also expanded its use of automatic link establishment (ALE), although members are not required to use it.

“Our bread and butter remains single-channel HF communication,” English said. “The majority of our members who do use ALE are using the MARS ALE software program. Some of our members who support our national nets are moving to hardware ALE radios.”

The MARS program supports quarterly contingency communication exercises supporting the DOD. These are based on “very bad day” scenarios, where traditional forms of communication are no longer available. “Through these exercises,



the DOD — via the MARS community — reaches out to the Amateur Radio community to provide situational awareness information at the county/local level,” English said.

That makes sense to MARS member Bill Sexton, N1IN, who was Army MARS public affairs officer from 2001 until 2014. “At least in theory, the blanketing omnipresence of hams across all 50 states offers a backup for blacked-out regions in the event of a catastrophic attack or natural disaster,” Sexton allowed. “The challenge is mobilizing back-up operations in the total absence of internet, telephone, cell phone, or texting resources.”

## **Two Amateur Radio CubeSats Carrying Transponders Set for Future NASA Launches**

02/24/2017

Two satellites with Amateur Radio transponder payloads have been selected for future NASA launches.

[AMSAT](#) reports that the *TJREVERB* CubeSat, developed by students at Thomas Jefferson High School for Science and Technology in Alexandria, Virginia, will carry a 435/145 MHz FM transponder. The University of Washington-Seattle’s *HuskySat-1* has a 145/435 MHz SSB/CW transponder and was developed by students at the University of Washington in Seattle. The satellite will demonstrate plasma propulsion and high-gain telemetry, in advance of a larger CubeSat lunar mission.

The launches are expected to take place in the 2018-2020 timeframe. The two CubeSat missions were [selected](#) as part of the 8th round of NASA’s CubeSat Launch Initiative ([CSLI](#)). Both are eligible for placement on a launch manifest after final negotiations, depending on the availability of a flight opportunity.



## **Amateur Radio Balloon to be Part of K2BSA Activities at 2017 National Scout Jamboree**

02/23/2017

A high-altitude Amateur Radio balloon, [K2BSA-11](#), will be launched from the 2017 National Boy Scouts of America Jamboree in West Virginia. The balloon is expected to reach an altitude of 48,000 feet and will transmit on 144.390 MHz APRS. An onboard GPS/computer will shift APRS frequencies based on the balloon’s location around the globe.

Carrying out the July 20 launch from the Summit Bechtel Reserve will be Bill Brown WB8ELK; Keith Kaiser, WA0TJT, and other members of the K2BSA Radio Scouting team. They are hoping that the balloon will circumnavigate Earth.



## **FEMA Needs an Experienced New Administrator, Former FEMA Head Says**

03/01/2017

Now-former Federal Emergency Management Agency (FEMA) Administrator Craig Fugate, KK4INZ, told a US House subcommittee this week that the agency needs to have a new and experienced administrator soon, or it could lose its forward momentum. That sentiment was echoed by House members during a February 28 hearing on FEMA’s future held by the House Homeland Security Committee’s Emergency Preparedness, Response and Communications Subcommittee.

“It’s not a good job to do on-the-job-training,” Fugate told lawmakers. “It’s too brutal, and the citizens deserve better.” He said that whoever ends up heading the agency should understand that FEMA’s role in disaster response “is not about putting FEMA in charge.”



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

“My parting advice for the FEMA team was to continue going big, going early, going fast, and being smart about it,” Fugate said in his written testimony. The new FEMA head should build upon “the strides the agency has made since [Hurricane] Katrina.” During his time at FEMA, from 2009 until this January, Fugate was a strong supporter of Amateur Radio as a communication resource in disasters.

The hearing was the second in a series that will provide recommendations to the next FEMA Administrator. Former FEMA Administrator R. David Paulison also testified. The officially vacant position is being filled for now by Robert Fenton Jr., FEMA’s Region IX administrator.

Fugate focused on Amateur Radio’s role in disasters during a recent [interview](#) on [HamRadioNow](#), explaining to host Gary Pearce, KN4AQ, how he became familiar with emergency management from the ground up, first as volunteer firefighter and paramedic in Florida, and then as head of Alachua County’s emergency management program for 10 years. That experience, he said, “was my first intersection with Amateur Radio.” He eventually self-studied for his license and passed the test after arriving in Washington.

He told Pearce that FEMA supports state, local, and tribal governments in emergencies and disasters, and will work with whatever resources are available. While it has taken advantage of radio amateurs and signed a [Memorandum of Agreement](#) with ARRL in 2014, the agency looks at Amateur Radio “a bit differently.”

“We’ll work with whoever’s up and operating,” said Fugate, who has not quite taken off his FEMA hat. He said that could be an ARES group, a RACES group, or an individual radio amateur who may have key information coming out of an area hit by an emergency.

“Training is great,” he told Pearce. “We shouldn’t think it’s exclusionary.” He said FEMA needs to remain open to any Amateur Radio resource available, “because that person may be the only one up and running.”

Fugate told Pearce that FEMA under his watch tried to be inclusionary, taking advantage of the entire spectrum of radio amateurs, not just the institutionalized emergency communication organizations. “If you have the luxury of being exclusionary,” he said, “it’s probably not a bad disaster.” Fugate said that while he favors formal emergency communications training, those completing the courses may not always be available when a disaster strikes.

Fugate said now that he’s home in Florida, he is hoping to have more opportunities to pursue his interest in digital modes. He belongs to the Gainesville Amateur Radio Society ([GARS](#)).

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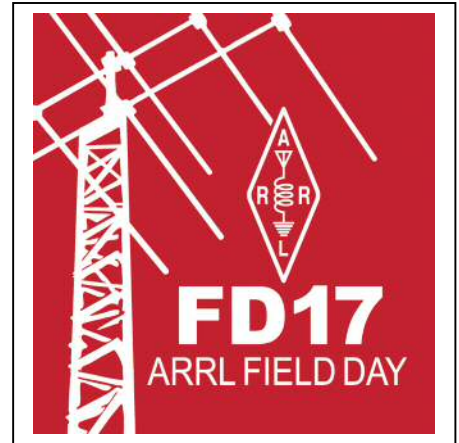
## Field Day

June 24 – 25, 2017

Start: 1800 UTC Saturday

End 2100 UTC Sunday

*Always the fourth full weekend in June*



### ARRL Field Day 2017 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 is **always the fourth full weekend**, beginning at 1800 UTC Saturday and ending at 2100 UTC Sunday. **Field Day 2017 will be held June 24-25.**
  - 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:** 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

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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.
- 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

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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 would send "3A CT" on CW 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.

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- 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.

7.2.1. If all contacts are made using a power of 5 Watts or less **and** if a power source other than commercial mains or motor-driven generator is used (batteries, solar cells, water-driven generator), the power multiplier is 5 (five).

7.2.2. If all contacts are made using a power of 5 Watts or less, but the power source is from a commercial main or from a motor-driven generator, the power multiplier is 2. If batteries are charged during the Field Day period using commercial mains or a motor-driven generator the power multiplier is 2 (two).

7.2.3. If any or all contacts are made using an output power up to 150 Watts or less, the power multiplier is 2 (two).

7.2.4. If any or all contacts are made using an output power greater than 150 Watts, the power multiplier is 1 (one).

7.2.5. The power multiplier for an entry is determined by the maximum output power used by any transmitter used to complete any contact during the event. (Example: a group has one QRP station running 3 Watts and a second station running 100 Watts, the power multiplier of 2 applies to all contacts made by the entire 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

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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.**

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**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 [www.b4h.net/cabforms](http://www.b4h.net/cabforms) 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.

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 three ways:**

**8.1.1. Via Field Day Web Submission Applet site at [www.b4h.net/cabforms/](http://www.b4h.net/cabforms/);**

**8.1.2. Via email 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 25, 2016. 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 land 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-applet 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 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.

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: January 2017)

