

February 2017

**The KEYER**

**K6MEP**

Ventura County Amateur Radio Club

Year 81 Issue 2



**K6MEP**

Ventura County Amateur Radio Club  
PO Box 2103, Oxnard, CA 93034-2103

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K6MEP KEYER -- The VCARC Journal

First Class Mail

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

The Ventura County Amateur Radio Club, K6MEP will hold its next regular meeting at 7:30 PM on Friday the 10th of February 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 dB, The Decibel, given by Paul Dolton WA6ECB. What is a dB, what does it represent, how is it used - all these questions will be taken up by Paul to educate us and refresh our knowledge on this important concept and its widespread use in communication and electronics.

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

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Board Member	Steve Noll	WA6EJO	
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Refreshments			
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QSL Manager			
License trustee	Joe Krigbaum	K6NE	(805) 642-2337
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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:

Well I hope you all enjoyed seeing our rainfall amount approaching nearly 14 inches since last Oct. 1, a good season so far but the reservoirs need a lot more to reach capacity.

Our presentation will be on dB, The Decibel, given by Paul Dolton WA6ECB. What is a dB, what does it represent, how is it used - all these questions will be taken up by Paul to educate us and refresh our knowledge on this important concept and its widespread use in communication and electronics.

Remember, the VC Science Fair is held March 24, Friday 8am to 3:30 PM at Seaside Park, Ventura County Fairgrounds. The Awards Ceremony is held Mar. 27<sup>th</sup>.

As always, bring your ideas, energy, and interest to the Friday Feb. 10 meeting - See you all there!

Joe Krigbaum K6NE  
President, VCARC

**Secretary's Column and Meeting Minutes**

**Ventura County Amateur Radio Club Inc. Club Meeting**  
**Meeting Date : 1/13/17**

**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 = 6 )

**ANNOUNCEMENTS**

**MEETING MINUTES**

Open meeting with Pledge of Allegiance

**Introductions.**

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

**OLD BUSINESS**

**NEW BUSINESS**

Science Fair. Steve Noll reviews last year's participation by the club. This year the event is March 24, Friday 8am to 3:30. At Seaside Park, Ventura County Fairgrounds. 6 Judges are signed up and 2 alternates are needed.

Stewart Stone moves to have the club participate this year. Discussion about allocation of extra money in case there are more award candidates.

(Cont pg 16)

## Selected February Contests & Special Events

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

- 
- 02/02/2017 | Discovery of Jupiter's Moons Feb 2-Feb 6, 0000Z-2359Z, W7L**, Seattle, WA. L Greg Magone. 146.52 14.275 14.250. Certificate & QSL. L Greg Magone, 27492 254th PL SE, Seattle, WA 98108. This is the February Special Event Station that is part of the 2017 KB7QPS Air, Space, and Technology Operating Event. [airspacetechnology.webs.com](http://airspacetechnology.webs.com)
- 02/04/2017 | 2017 Palm Springs Hamfest at the Palm Springs Air Museum Feb 4, 1600Z-2300Z, WD6RAT**, Palm Springs, CA. Desert Radio Amateur Transmitting Society. 14.250. Certificate. [www.palmspringshamfest.com](http://www.palmspringshamfest.com)
- 02/04/2017 | Groundhog Day Special Event Station Feb 4, 1400Z-2100Z, K3HWJ**, Punxsutawney, PA. Punxsutawney Area Amateur Radio Club. 14.340 7.245. Certificate. Punxsutawney Area Amateur Radio Club, [punxyclub.com](http://punxyclub.com)
- 02/04/2017 | Hillsboro Lighthouse Special Event Feb 4, 1500Z-2000Z, NB4RC**, Deerfield Beach, FL. North Broward Radio Club. 14.150 14.350. QSL. North Broward Radio Club. [www.joeyjet.com/index.php/amateur-radio/nb-radio-club](http://www.joeyjet.com/index.php/amateur-radio/nb-radio-club)
- 02/11/2017 | Mt. Surabachi Flag Raising Special Event Feb 11, 1700Z-2359Z, N16IW**, San Diego, CA. USS Midway (CV-41) Museum Ship. 14.320 7.250; PSK31 on 14.070; D-STAR on REF001C. QSL. USS Midway Museum Ship Radio Room
- 02/16/2017 | Samuel F.B. Morse Exhibition Feb 16-Feb 17, 1500Z-2000Z, N4M**, Winston Salem, NC. Forsyth Amateur Radio Club of Winston-Salem, NC. 21.044 14.044 10.120 7.044 . QSL. Forsyth Amateur Radio Club. The Forsyth Amateur Radio Club of Winston-Salem, NC, will sponsor Special Event Station, N4M, in celebration of the opening of the Reynolda House Museum of American Art's Exhibition - Samuel F.B. Morse's "Gallery of the Louvre" and the Art of Invention. The station will operate from 15:00 to 20:00 UTC on both February 16 and 17, 2017. This CW station will operate on 7044, 10120, 14044 and 21044 kHz. [www.w4nc.com](http://www.w4nc.com) ; <http://www.reynoldahouse.org/exhibitions/detail/samuel-fb-morses-gallery-of-the-louvre-and-the-art-of-invention> ; .
- 02/17/2017 | SES H L Hunley Commemorative Station N4HLH Feb 17, 1400Z-2000Z, N4HLH**, North Charleston, SC. Trident Amateur Radio Club. CW: 7.117; SSB: 28.462 14.262 7.262. Certificate & QSL. W4BFZ. Certificate is \$5 and SASE 9X12 envelope. For QSL send card and SASE, International QSL add \$2 USD. [tridenthams.org/hunley.htm](http://tridenthams.org/hunley.htm)
- 02/18/2017 | 13th Annual "Freeze Your Keys" winter operating event Feb 18, 1400Z-2200Z, W0EBB**, Leavenworth, KS. Kickapoo QRP Amateur Radio Club and Pilot Knob Amateur Radio Club. 14.325 14.058 CW 7.240 7.035. QSL. This event is held at Weston Bend State Park in Missouri. If weather closes the park the alternate site will be the VA City Park in Leavenworth Kansas. [w0ebb@juno.com](mailto:w0ebb@juno.com)
- 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. 28.550 21.250 14.250 7.150. 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)
- 02/18/2017 | Frozen Lake Portable: Ice Station W0JH Feb 18-Feb 20, 1600Z-2345Z, W0JH**, Stillwater, MN. Stillwater Amateur Radio Association & Radio City, Inc. 21.360 14.260 7.260 3.860. Certificate.., ([IceStationW0JH2017@radioham.org](mailto:IceStationW0JH2017@radioham.org)),. W0JH QSL Certificates will ONLY be sent via e-mail in PDF format. (Send requests to: [IceStationW0JH2017@radioham.org](mailto:IceStationW0JH2017@radioham.org)). W0JH is operating portable from a frozen lake in Washington County, MN (Grid Square EN34). Info: Radio City, [www.radioinc.com](http://www.radioinc.com) ; SARA, [www.radioham.org](http://www.radioham.org)
- 02/18/2017 | George Washington Birthday Feb 18-Feb 19, 0900Z-0900Z, K4US**, Alexandria, VA. Mount Vernon Amateur Radio Club. 14.260 7.040. QSL. MVARC [mvarc.org](http://mvarc.org)
- 02/22/2017 | 59th Daytona 500/2017 Speedweeks Feb 22-Feb 26, 0001Z-2359Z, N4DAB**, Daytona Beach, FL. Daytona Beach CERT Amateur Radio Team. 14.265 21.265 14.070 21.070. Certificate. Daytona Beach CERT ART. 59th DAYTONA 500 – SPEEDWEEKS 2017 Daytona Beach CERT ART Special Event Station – N4DAB February 22nd – February 26th, 2017 Commemorative QSL - Certificate Available Info on qrz.com and [www.daytonacert.net](http://www.daytonacert.net) WE HOPE YOU GET TO WORK US! Our Fourth Year! [www.daytonacert.net](http://www.daytonacert.net)
- 02/22/2017 | George Washington's Birthday Feb 22, 0001Z-2359Z, WS7G**, Moses Lake, WA. Columbia Basin DX Club. 14.322 3.810. QSL. [cbn.homestead.com/WS7G.html](http://cbn.homestead.com/WS7G.html)
- 02/22/2017 | Snow Bird Field Day Feb 22, 1500Z-2100Z, N7E**, Mesa, AZ. SunLife and Venture Out Amateur Radio Clubs. 18.158 14.340 7.290 14.025. QSL. On PSK, JT-65 and 0.1 watt WSPR. Spot us on [DXSummit.fi](http://DXSummit.fi) ; [www.sunlifearc.org](http://www.sunlifearc.org)
- 02/25/2017 | 72nd Anniversary of the Battle of Iwo Jima Feb 25, 1500Z-2200Z, W0FSB**, Waterloo, IA. Five Sullivan Brothers Amateur Radio Club. 21.240 14.240 7.240. Certificate & QSL. Five Sullivan Brothers ARC. For QSL card: Send card and #10 SASE; For Certificate & QSL: Send QSL, address label and 3 Forever stamps;

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For eQSL & Certificate: Send eQSL, then an email to [w0fsb@outlook.com](mailto:w0fsb@outlook.com), requesting a .jpg file of the certificate that you can print yourself.

[www.qrz.com/db/w0fsb](http://www.qrz.com/db/w0fsb)

**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)

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## **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



## **Southern California Linux Expo**

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 :-)

And starting last year, SCALE hosted:

- An event station, N6S, operating HF from PCC.

- A license exam session - SCALE tested over 35 hams

- And AREDN, the Amateur Radio Emergency Data Network, had a booth on the Expo floor.

  - AREDN writes firmware to move Ubiquiti and TP-Link wireless access points down into the Part-97 only portions of the 2.4 and 5 GHZ bands. Users of the AREDN code are creating local networks and providing resources (web sites, VOP phone switches, webcams, etc) for hams and emergency responders to use.

For this year's SCALE, all the events of the previous year will be reprised plus a BOF (Birds of a Feather) session will be hosted by AREDN.

BOFs are meetings among small groups that want to get together and discuss their project. SCALE provides meeting rooms in the evenings free of charge. The AREDN (ham digital networking) group will meet on the evening of the 4th (Saturday). It will be a free-wheeling discussion covering whatever topics the group likes. It could be

- Meet & Greet / Face to Face / Introductions

- AREDN firmware overview

- Firmware installation demo

- Application discussion / presentation

- Local network backfill discussion

- Q & A - a few of the AREDN developers will be there to take your questions (well, at least one :-) and whatever else the group decides on.

For those interested in getting started with Linux, SCALE holds training sessions on Saturday and Sunday. In the morning an installfest is held - bring a machine and the SCALE training proctors will help you get Linux installed on it. In the afternoon a trainer from the Linux Foundation will cover basic system administration skills.

The classes are first come, first served so if you're interested, come early to get a seat.

Hardware requirements are posted on the SCALE web site (<https://www.socallinuxexpo.org/scale/15x>)

As an organizer of SCALE I have some free admissions to hand out. Ping me separately if you're interested.

SCALE is a fun event. You'll enjoy yourself more than you think!

73

Orv / W6BI

## **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:

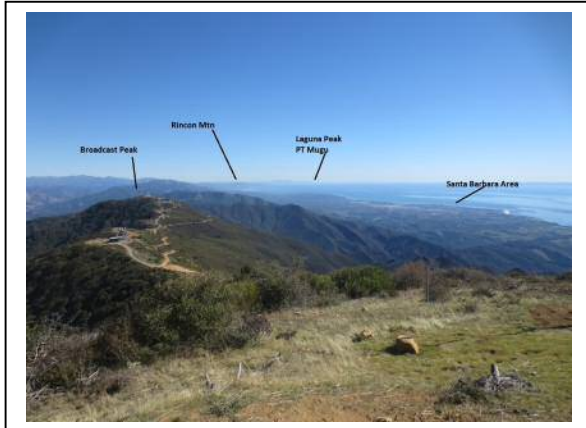
To All

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

02/01/2017 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

02/04/2017 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

02/05/2017 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

02/11/2017 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

02/11/2017 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 ;

K6MEP Keyer February 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>

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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 1/4 mile directly ahead.

**02/11/2017 Time: 9:00 AM (Walk-ins allowed) Sponsor: South Bay ARC VEC: [ARRL/VEC](#) Contact: Joseph M. Lanphen (310) 328-0817 Email: [jlansphen@ca.rr.com](mailto:jlansphen@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**

**02/11/2017 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 )**

**02/12/2017 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**

**02/18/2017 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**

**02/18/2017 10:00 AM (Walk-ins allowed) Sponsor: Palos Verdes ARC, K6PV VEC: [ARRL/VEC](#) Contact: David D. Scholler (310) 373-8166 Email: [jdavidsscholler@hotmail.com](mailto:jdavidsscholler@hotmail.com) Location: Hesse Park Community Center 29301 Hawthorne Blvd Rancho Palos Verdes CA 90275**

**02/18/2017 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**

**02/24/2017 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**

**02/25/2017 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 \*LAST EXAM AT THIS LOCATION!\* 1 Space Park Blvd (Bldg S Cafeteria) Redondo Beach CA 90278-1001 Parking lot off Marine Blvd**

**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**

**03/11/2017 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 Restaurant 6521 S Sepulveda Blvd Los Angeles CA 90045-1508**

**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 )**

**03/14/2017 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 \*LAST EXAM AT THIS LOCATION!\* 1 Space Park Blvd (Bldg S Cafeteria) Redondo Beach CA 90278-1001 Parking lot off Marine Blvd**

**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**

**04/05/2017 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**

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

Pancho at Calle Bolero; Red Cross is 1/2 mile directly ahead.

**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

**04/08/2017 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.arrllax.org](http://www.arrllax.org) (ed. Note – Huntington Hospital is 100 W CALIFORNIA )

**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

**04/15/2017 Time:** 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

**04/23/2017 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@arrl.net](mailto:k6pyp@arrl.net) **Location:** Northrop Grumman \*LAST EXAM AT THIS LOCATION!\* 1 Space Park Blvd (Bldg S Cafeteria) Redondo Beach CA 90278-1001 Parking lot off Marine Blvd

**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

**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

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## Trivia for February 2017

### DID YOU KNOW?

1. Limburger cheese gets its wonderful aroma from the bacteria in the brine that the cheese sits in for months.
2. The average American will eat 27 lbs. of cheese a year.
3. The United Nations opened the present building in New York in 1951.

de Dana kg6wx

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## Upcoming HamFests & Conventions

### [Desert R.A.T.S. Hamfest](#)

**Start Date:** 02/04/2017 **End Date:** 02/04/2017 **Location:** Palm Springs Air Museum 745 North Gene Autry Trail Palm Springs, CA 92262 **Website:** <http://desertrats.am/> **Sponsor:** Desert Radio Amateur Transmitting Society (RATS) **Type:** ARRL Hamfest **Talk-In:** 146.94 (PL 107.2) **Public Contact:** Mark Johnson , KD6SEC PO Box 1167 Palm Springs, CA 92263-1167 Phone: 760-770-3058 **Email:** [kd6sec@arrl.net](mailto:kd6sec@arrl.net)

### [Arizona Section Convention \(Yuma Hamfest\)](#)

**Start Date:** 02/17/2017 **End Date:** 02/18/2017 **Location:** Yuma County Fairgrounds 2520 East 32nd Street Yuma, AZ 85364 **Website:** <http://www.yumahamfest.org> **Sponsor:** Yuma Amateur Radio Hamfest Organization **Type:** ARRL Convention **Talk-In:** 146.840 (PL 88.5) **Public Contact:** Roger Hunt , K7MEX 13156 East 51st Lane Yuma, AZ 85367 Phone: 928-305-1034 **Email:** [rhunt7@gmail.com](mailto:rhunt7@gmail.com)

### [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@arrl.net](mailto:K7GH@arrl.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@arrl.net](mailto:k6mkf@arrl.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)

### [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://www.prescottamfest.com> (under construction as of 10/16/17) **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)

**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**

**February 2017**

- 2: Ground Hog’s Day
- 4: **Sean O’Brien 50/50/26** – ARES Support, contact Rick KG6VLB rickwhtr@cox.net
- 10: Regular Monthly Club Meeting at 7:30pm. K6MEP Board meeting precedes the club meeting at 7:00pm
- 12: Lincoln’s Birthday
- 14: Valentine’s Day
- 20: Presidents’ Day

**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: **“Ceasar, 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**

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

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

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

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

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

Below line for club staff processing only.

Enter processing dates:

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

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

### **Emergency and Volunteer Training**

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

### **Red Cross Courses**

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

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

For training class registration, call: 805-987-1514 Ext 320.  
Course schedule and descriptions:

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

[http://www.arcventura.org/contact\\_us.html](http://www.arcventura.org/contact_us.html)

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

### **Scheduled Red Cross Classes**

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

### **CLASS ID Basic Courses Day Date Time Loc.**

For class info call 805-987-1514 Ext 320  
OFFERING ID Chapter OFFERING Day Date Time  
Prerequisite Instructors Location

## 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>

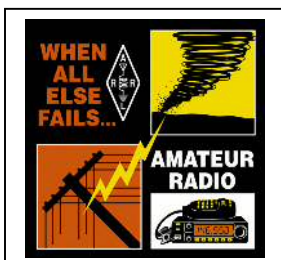
- IS-5.a **An Introduction to Hazardous Materials** - (10/31/2013)
- IS-10.a **Animals in Disasters: Awareness and Preparedness** - (10/2/2015)
- IS-11.a **Animals in Disasters: Community Planning** - (10/2/2015)
- IS-15.b **Special Events Contingency Planning for Public Safety Agencies** - (10/31/2013)
- 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

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

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

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

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

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

Area 3 Camarillo, Somis – 146.550Mhz (S)

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

Area 5 Ojai Valley – 145.555Mhz (S)

Area 6 Ventura City – 147.510Mhz (S)

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

Area 8 Moorpark – 146.535Mhz (S)

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

National Simplex – 146.520Mhz(S)

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

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

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

**Area 1 Simi Valley EC:** Steve King, KE6WEZ Email: [ke6wez@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)

**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 (± 45 kHz) / 2nd Monday - 10 meters 28.495 MHz**

**LA DCS-22 Net -- 1930 Hrs. - K6DCS - 147.225 MHz (+)** then on **7.235± 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 1830 / 6:30PM 3985 Kc +/- AM**

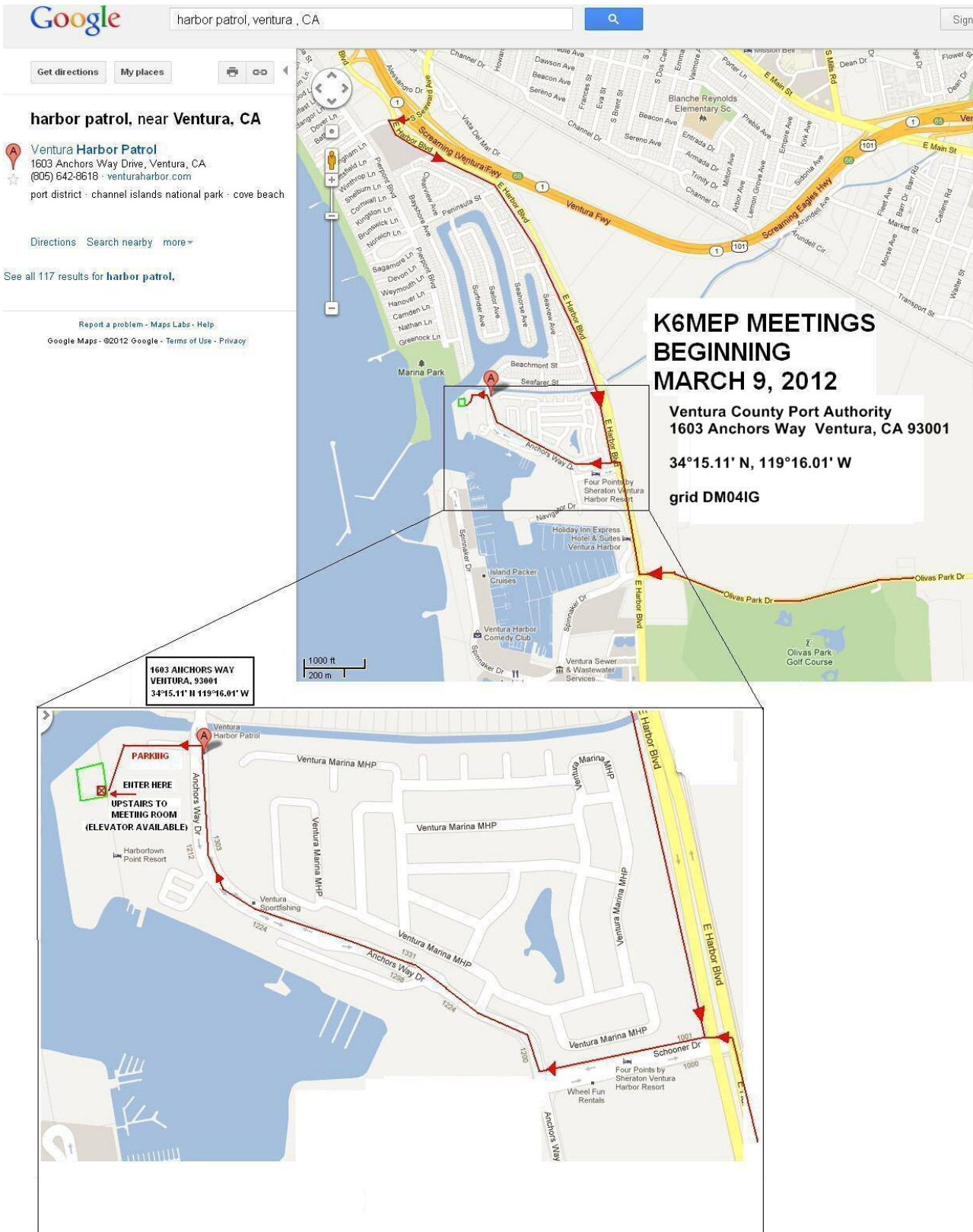
**Sunday**

**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**



## Amateur Radio Parity Act Speeds to U.S. House Passage, Heads to U.S. Senate

01/24/2017

Just 10 days after being introduced, the 2017 Amateur Radio Parity Act legislation, [H.R. 555](#), passed the U.S. House of Representatives this week on unanimous consent under a suspension of House rules. The bill's language is identical to that of the 2015 measure, H.R. 1301, which won House approval late last summer after attracting 126 co-sponsors, but failed to clear the U.S. Senate last fall as the 114th Congress wound down. The new bill, again sponsored by Rep. Adam Kinzinger (R-IL), was introduced on January 13 with initial co-sponsorship by Rep. Joe Courtney (D-CT) and Rep. Greg Walden, W7EQI (R-OR), who chairs the influential House Committee on Energy and Commerce.

"The grassroots effort of Amateur Radio operators across this nation in support of the Amateur Radio Parity Act has been remarkable, nothing like we have ever seen before," ARRL President Rick Roderick, K5UR, said. "To all hams, keep going! Now is the time to charge forward with that same momentum to the Senate. We can do it!" The bill arrives in the U.S. Senate with ample time in which to garner its approval through an education campaign.

"We're very encouraged by the speed with which this bill made it through the House. It's amazing that this happened," said ARRL Hudson Division Director Mike Lisenco, N2YBB, who has been at the forefront of the legislative initiative. "With the help of ARRL members, we believe we can get this done," Lisenco continued. "We came within a hair's breadth last time, with 110,000 e-mails to members of both houses of Congress, as well as letters and telephone calls. Member participation in this final push is critical."

H.R. 555 calls on the FCC to establish rules prohibiting the application of deed restrictions that preclude Amateur Radio communications on their face or as applied. Deed restrictions would have to impose the minimum practicable restriction on Amateur Radio communications to accomplish the lawful purposes of homeowners association seeking to enforce the restriction.



## CIA Declassified Documents about Amateur Radio Available in Searchable Online Database

01/25/2017

Central Intelligence Agency ([CIA](#)) reports about Amateur Radio in the former Soviet Union (including the Baltic States) and Warsaw Pact member countries have been declassified to a new searchable [online database](#), the CIA Freedom of Information Act (FOIA) Electronic Reading Room.

Documents include translations and assessments of Amateur Radio clubs, including Soviet DOSAAF (Volunteer Society for Cooperation with the Army, Aviation, and Fleet) groups; training; monitoring Sputniks; technology and equipment, and even QSL cards.

All documents have been declassified and occasionally "sanitized" and made available to the public for the first time in this archive. Some of these documents were only available previously in a closed system at the [US National Archives](#). — Thanks to Southgate Amateur Radio News via Andy Thomas, G0SFJ

<https://www.cia.gov/library/readingroom/search/site/20ham%20radio>



## New FCC Chairman Ajit Pai Offers Praise for H.R. 555, Other Telecoms Bills

01/25/2017

Newly designated FCC Chairman Ajit Pai (see below) praised the House action on [H.R. 555](#) and other telecommunications-related legislation that cleared the chamber on Monday.

"I want to commend the U.S. House of Representatives for passing a number of important, bipartisan telecom bills yesterday," Pai said on January 24.

"These bills will help bring greater efficiency to the Commission, provide consumers with greater protections, improve rural call completion, help Amateur Radio operators, and take several steps to promote public safety," he continued, adding, "I look forward to working with Congress on these and other important issues as Chairman of the FCC."



K6MEP Keyer February 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>

President Donald Trump named the 44-year-old telecommunications attorney, — who has served on the Commission since 2012 and is its senior member — to succeed chairman Tom Wheeler, who stepped down on Inauguration Day, January 20. Pai is the FCC's 34th chairman.

Pai will chair his first open meeting of the Commission on Tuesday, January 31.

## **CEPT Meeting Makes Progress on WRC-19 Agenda Items Affecting Amateur Radio**

01/19/2017

Progress was made regarding World Radiocommunication Conference 2019 (WRC-19) agenda items of interest to Amateur Radio when European Conference of Postal and Telecommunications Administrations ([CEPT](#)) Conference Preparatory Group Project Team D (PTD) held its [second meeting](#) January 10-12 in Helsinki, Finland. According to International Amateur Radio Union ([IARU](#)) Region 1 President Don Beattie, G3BJ, experts discussed WRC-19 Agenda Item 1.1, which proposes a 50-54 MHz allocation in Region 1 in order to create a global 6-meter band. Hans Blondeel Timmerman, PB2T, is the CEPT coordinator for this agenda item.

A preliminary CEPT position was agreed upon for Agenda Item 1.1, which would support a new 6-meter allocation in Region 1 (Europe, Africa, the Middle East, and Northern Asia) only if the spectrum needs for the Amateur Services are justified and studies show that the incumbent land mobile, radiolocation, and broadcasting services — including their future deployment and services in adjacent spectrum — are protected. The 185-member PTD developed a working document summarizing the sharing studies currently available for this agenda item.

“IARU will continue to work on these studies with administrations and others to establish the optimum future sharing scenarios,” Beattie said.

Wireless Power Transmission/Transfer (WPT) was another item discussed, in preparation for WRC-19 Agenda Item 9.1.6. Studies would assess suitable harmonized frequency ranges to minimize the impact of WPT for electric vehicles on radiocommunication services. Various organizations are in the process of approving standards intended for global and regional harmonization of WPT technologies for electric vehicles. As the ITU explained in its August 2016 report, “Applications of wireless power transmission via radio frequency beam,” WPT technology is considered as one of [the] game-changing technologies. We will be able to become free from lacking electric power when electric power will be supplied wirelessly.” Spectrum employed in WPT depends in part on its application; vehicle applications typically use frequencies in the LF and MF range.

At PTD, an IARU Region 1 paper on high-power wireless transfer technologies that argued for greater clarity in terminology and scope of studies to be undertaken was broadly welcomed. That document is expected to result in a CEPT contribution to ITU Working Party 1B, the committee charged with developing WPT spectrum allocation and related issues. A WRC-15 resolution had called for “urgent studies” in preparation for this agenda item.

CEPT is one of the Region 1 telecommunications organizations with which IARU is actively participating, in advance of WRC-19. — *Thanks to IARU Region 1, CEPT, ITU, and Jon Siverling, WB3ERA*



## **ARRL Asks FCC to Allocate New 5 MHz Band, Retain Channels and Current Power Limit**

01/12/2017

ARRL has asked the FCC to allocate a new, secondary contiguous band at 5 MHz to the Amateur Service, while also retaining four of the current five 60-meter channels and 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 proposed 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.

“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,”



**K6MEP Keyer February 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 said in a January 12 [Petition for Rule Making](#). The FCC has not yet acted to implement other portions of the WRC-15 *Final Acts*.

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.

“While the Amateur Radio community is grateful to the Commission and to NTIA for the accommodation over the past 14 years of *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, adding that the five 2.8-kHz wide channels “have not provided sufficient capacity to enable competent emergency preparedness and disaster relief capability.”

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. “This is most notably true in the Caribbean Basin, but the same effect will be realized elsewhere as well, at all times of the day and night, and at all times of the sunspot cycle.”

In its *Petition*, ARRL also called upon the FCC to retain the same service rules now governing the five channels for the new band. 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.”

“For precisely the same reasons that the Commission consented to a power increase on the five channels as recently as 2011 [from 50 W PEP ERP to 100 W PEP ERP], the Commission should permit a power level of 100 W PEP ERP, assuming use of a 0 dBd gain antenna, in the contiguous 60-meter band,” ARRL said. “To impose the power limit adopted at WRC-15 for the contiguous band would render the band unsuitable for emergency and public service communications.”

ARRL pointed out that the ITU *Radio Regulations* permit assignments that are at variance with the *International Table of Allocations*, provided a non-interference condition is attached, limiting the use of such an assignment relative to stations operating in accordance with the *Table*.

The League asked that General class or higher licensees be permitted to use the band. The FCC will not invite comments on the League’s *Petition* until it puts it on public notice and assigns a Rule Making (RM) number.

## **Illegal Drone Transmitters Could Interfere with Air Traffic Control, ARRL Complaint Asserts**

01/12/2017

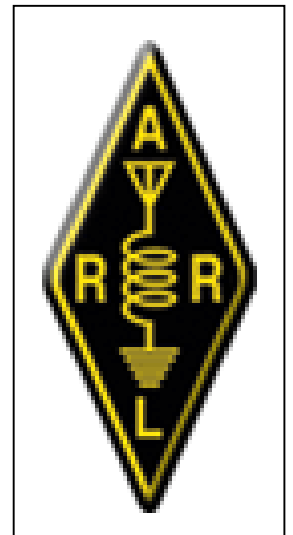
In what it calls an “[extremely urgent complaint](#)” to the FCC, ARRL has targeted the interference potential of a series of audio/video transmitters used on unmanned aircraft and marketed as Amateur Radio equipment. In a January 10 letter to the FCC Spectrum Enforcement Division, ARRL General Counsel Chris Imlay, W3KD, said the transmitters use frequencies intended for navigational aids, air traffic control radar, air route surveillance radars, and global positioning systems.

“This is, in ARRL’s view, a potentially very serious interference problem, and it is respectfully requested that the products referenced...be investigated and removed from the marketplace immediately and that the importers be subjected to normal sanctions,” ARRL’s letter said. Some of the transmitters operate on frequencies between 1,010 and 1,280 MHz. “These video transmitters are being marketed ostensibly as Amateur Radio equipment,” the League said, “but of the listed frequencies on which the devices operate, only one, 1280 MHz, would be within the Amateur Radio allocation at 1240-1300 MHz.” Even then, ARRL said, operation there would conflict with a channel used for radio location.

ARRL said the use of 1,040 and 1,080 MHz, which would directly conflict with air traffic control transponder frequencies, represented the greatest threat to the safety of flight. The use of 1,010 MHz, employed for aeronautical guidance, could also be problematic.

ARRL cited the Lawmate transmitter and companion 6 W amplifier as examples of problematic devices being marketed in the US. Each costs less than \$100 via the Internet. The device carries no FCC identification number.

“[T]he target market for these devices is the drone hobbyist, not licensed radio amateurs. The device, due to the channel configuration, has no valid Amateur Radio application,” ARRL told the FCC. “While these transmitters are marked



as appropriate for amateur use, they cannot be used legally for Amateur Radio communications.” In the hands of unlicensed individuals, the transmitters could also cause interference to Amateur Radio communication in the 1.2 GHz band, ARRL contended.

The League said it’s obvious that the devices at issue lack proper FCC equipment authorization under FCC Part 15 rules, which require such low-power intentional radiators to be certified.

“Of most concern is the capability of the devices to cripple the operation of the [air traffic control] secondary target/transponder systems,” ARRL said. “These illegal transmitters represent a significant hazard to public safety in general and the safety of flight specifically.”

The surge in sales of drones has been dramatic. The FAA has predicted that combined commercial and hobby sales will increase from 2.5 million in 2016 to 7 million by 2020.

In Exhibit A of the January 10 letter, “Illegal Drones Threaten Public Safety,” the League noted that some of the drones and associated equipment it has come across “are blatantly illegal at multiple levels,” with some drone TV transmitters described as “particularly alarming.”

“Rated at six times over the legal power limit, *and on critical air navigation transponder frequencies*, these devices represent a real and dangerous threat to the safety of flight, especially when operated from a drone platform that can be hundreds of feet in the air,” the exhibit narrative asserted.

## **US Naval Academy HFsat Coordinated for 15 Meter-to-10 Meter Transponder**

01/24/2017

The US Naval Academy has received IARU satellite frequency coordination for [HFsat](#), a 1.5 U CubeSat with a 15- to 10-meter linear transponder with a 30 kHz bandwidth (uplink 21.4 MHz, downlink 29.42 MHz). The Mode K configuration is reminiscent of the old “RS” series of Russian satellites.

The CubeSat will also carry an APRS digipeater on 145.825 MHz. HFsat is a project to demonstrate the viability of HF satellite communications as a back-up communications system, using HF radios found in a typical Amateur Radio installation or frequently used to support disaster and emergency response communication.

“HFsat will be gravity gradient-stabilized by its full-sized 10-meter half-wave HF dipole with tip masses,” said Bob Bruninga, WB4APR.

A standardized CubeSat VHF communication card based on the popular Byonics MTT4B all-in-one APRS Tiny-Track4 module for telemetry, command, and control is under development at the US Naval Academy. US Naval Academy students are working with Bill Ress, N6GHZ, on the HF transponder card.



## **Several CubeSats with Amateur Radio Payloads Deployed from ISS**

01/18/2017

Several CubeSats carrying Amateur Radio payloads were placed into orbit on January 16 from the International Space Station (ISS). Six CubeSats delivered to the ISS in December were deployed from the Kibo airlock using the new JEM Small Satellite Orbital Deployer ([J-SSOD](#)).

Satellites carrying Amateur Radio payloads included ITF-2, Waseda-Sat-3, AOBA-Velox-3, and TuPOD (including Tancredo-1). University of Tsukuba designed and built ITF-2, with a downlink of 437.525 MHz. Waseda-Sat-3, a project of Waseda University, downlinks CW and FM telemetry on 437.29 MHz. AOBA-Velox-3 downlinks GMSK telemetry on 437.225 MHz. Tancredo-1, a Brazil middle school project, will transmit AFSK on 437.200 MHz.

The Japan Aerospace Exploration Agency ([JAXA](#)) has posted a [video](#) on the launches and related activities.

