



The Ventura County Amateur Radio Club, K6MEP will hold its next regular meeting at 7:30 PM on Friday the 13th of April 2018 at historic **Dudley House** 197 N. Ashwood, Ventura 93003, at the corner of Loma Vista and Ashwood ; 34d 16m 13.67s N 119d 14m 43.24s W; Grid square DM04jg; (see map pg 21). Board Meeting precedes the General Meeting.



FOR YOUR PROTECTION
PUT STAMP HERE
The Post Office
will not deliver
mail without
postage.

K6MEP KEYER -- The VCARC Journal

First Class Mail

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

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

Ventura County Amateur Radio Club 2018 Officers and Chairs

President	Joe Krigbaum	K6NE	(805) 642-2337
Vice-President	Reese West	KQ6TT	
Secretary	Rob Byl	KD6UDA	
Treasurer	John Gartman	AG6GL	
Board Member	Stewart Stone	KG6BOV	(805) 488-7388
Board Member	Rod Austin	KA6GSU	(805) 983-7141
Board Member	Steve Noll	WA6EJO	
Photographer	Stewart Stone	KG6BOV	(805) 488-7388
Facilities Mgr.	Richard Abbey	WB6AEW	
Refreshments			
ARRL Liaison	Chris Dimond	KJ6QOP	
Editor/ Publisher	Stewart Stone	KG6BOV	(805) 488-7388
Prize Chairman	VACANT - An Opportunity to serve your club		
PR chairman	Dana Wentling	KG6WXE	
Awards Mgr.	VACANT - An Opportunity to serve your club		
Programs Chair	Steve Noll	WA6EJO	
Webmaster	Joe Krigbaum	K6NE	(805) 642-2337
New Members	Bob Brodie	KJ6AAE	
QSL Manager			
License trustee	Joe Krigbaum	K6NE	(805) 642-2337
Historian	VACANT - An Opportunity to serve your club		
Elmer Coordinator	VACANT - An Opportunity to serve your club		

The Inside Story

Message from the President.....	2
Meeting Notes.....	2
Contests, & Spec Events	3 - 4
Available Gear	4 - 6
Ventura County Science Fair.....	7 - 8
Upcoming FCC Exam Sessions.....	9 - 11
Upcoming Ham Fests	11
Mesh Network news for the Sta Barbara Section and Surrounds.....	12
Trivia.....	13
Net Script & K6MEP Calendar.....	14
Volunteer Training Classes.....	15 & 16
ARES & Frequency information.....	17
ARRL Public Service Classes.....	18
Area Nets.....	19
Meeting Local Maps	21
AMSAT "GOLF" CubeSats NASA 9th-Round CubeSat Picks.....	22
Management Change at Puerto Rico's Arecibo Observatory.....	22
ISS Astronauts Calling "CQ Students".....	23
Tenn. Middle School Will Send a CubeSat into Space.....	23
ARRL Seeks EC-001 Mentors!.....	24
Launch of "SpaceBEEs" Unauthorized.....	25
Hospital Ship Crew Get Amateur Radio Training at Sea.....	25
Ham-Astronaut Part of New Space Station Crew.....	26
Chinese Lunar-Orbit Ham Payload Could Launch in Spring.....	26
ARRL Field Day 2018 Rules.....	27 - 32

The **KEYER** is published monthly by K6MEP, the Ventura County Amateur Radio Club, Inc. as a means of providing club members the minutes from K6MEP's monthly general membership meetings, the monthly board of directors meetings, a calendar of events and articles of interest on amateur radio.

Layout and logos are the property of The Ventura County Amateur Radio Club, K6MEP. The stories printed in this journal remain the property of the writers, without whom we would not have a publication. Permission to reprint articles should be obtained from the authors. Articles from the ARRL are reproduced with permission.

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

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

Message from the President

Greetings Current & Prospective Members:

We have a new meeting place! It is Dudley House 197 N. Ashwood, Ventura 93003, at the corner of Loma Vista and Ashwood. We meet in the basement, a nice room with room for up to 40 or so chairs. There is a semi-shaded picnic area and BBQ in the back, and we can put up some antennas. Limitations: Currently there is no Internet, and the parking lot (10 spaces) - there is no turn-around, so if you don't have or need the Blue Space (handicap) parking, please don't park there so it can be used as a turn-around. Additional parking is available to the west of Dudley House in the professional bldg. parking lot, which resembles a barn! More on this during the tour ...

The program this month is a 15 minute "Tour of the Museum" and surrounds, conducted by Dudley House staff for 10-15 people at a time. Please arrive on time and we will occupy ourselves as the tours are conducted.

Next month (May 11) we will feature John Kitchens, NS6X with topics surrounding his assumption of ASM and finally SM, Section Manager July 1, 2018.

Bring your enthusiasm, ideas, and energy to the Friday the 13th 7 PM meeting at Dudley House - see maps on web site and elsewhere in the Keyer!

Joe Krigbaum K6NE
President, VCARC

Secretary's Column and Meeting Minutes

Ventura County Amateur Radio Club Inc. Club Meeting

Meeting Date : Meeting Date : 3 /9/18

GENERAL MEMBERSHIP MEETING MINUTES

MEETING ADDRESS : Camarillo Red Cross

Headquarters, 836 Pancho Rd

ATTENDANCE : Listed on Roll Check-In Sheet

CALL TO ORDER

Established quorum (25% of Voting Members = 8)

ANNOUNCEMENTS

MEETING MINUTES

Open meeting with Pledge of Allegiance

Introductions.

OLD BUSINESS

The club will meet at Dudley House in Ventura, at Ashwood and Telegraph. Limited parking at the house but other space nearby.

Tune to 145.200 repeater on Monday evenings, Jerome is conducting a club net.

NEW BUSINESS

Joe suggests the club acquire a internet hot spot device as a backup since the Dudley House has a slow internet connection. Some discussion about bandwidth, data limits before throttling and the ongoing subscription costs.

(Cont pg 20)

Selected April Contests & Special Events

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

-
- 04/01/2018 | 100th Anniversary of the Foundation of the UK Royal Air Force Apr 1-Apr 8, 0001Z-2359Z, K2R,** Pocono Lake, PA. Royal Air Force Amateur Radio Society. QSL. ke2eh@mail.com
- 04/01/2018 | Special Event Station EI100MCV - Marine Radio Day; Anzac Day; International Marconi Day Apr 1-Dec 31, 0800Z-2359Z, EI100MCV,** Dublin, IRELAND. National Maritime Museum of Ireland Radio Club. All bands, all modes; operating on or close to frequencies ending in 18. QSL. Via bureau, Clublog, or direct to Dave O'Conner, EI6AL, Silver Howe, Sydenham Mews, Corrig Avenue, Dun Laoghaire, Co. Dublin A96 RF99, IRELAND. This is part of a year-long event commemorating the sinking of Royal Mail Ship (RMS) Leinster. April events include Marine Radio Day on Apr. 14 and 15; Anzac Day on April 28, and International Marconi Day on Apr. 28. Full details on website. www.qrz.com/db/ei100mcv
- 04/05/2018 | 70th Anniversary of the Shenandoah Valley Amateur Radio Club Apr 5-Apr 14, 0000Z-0000Z, W4R,** Stephens City, VA. Shenandoah Valley Amateur Radio Club. QSL. Shenandoah Valley ARC. QSL via LOTW, EQSL or Direct with SASE. w4rk@yahoo.com or svarc.us
- 04/07/2018 | Activation of State Parks in the State of Texas Apr 7-Apr 8, 1500Z-2100Z, K5LRK,** The Colony, TX. Lake Area Amateur Radio Klub. CW - Bottom of band +40 kHz; Phone - General Segment +25 kHz and 28.350; VHF - 50.200 and 144.200 MHz. QSL. AC5EZ. Apr 7 - Apr 8, 1500 - 0300 and Apr 8 1500 - 2100 <https://www.k5lrk.com>
- 04/07/2018 | Hillsboro Lighthouse Apr 7, 1400Z-1800Z, NB4RC,** Pompano Beach, FL. North Broward Radio Club. 14.000. QSL. NB4RC. JoeyJet@BellSouth.net
- 04/07/2018 | IEEE Rededicating Plaque at Bell Isle Apr 7, 1300Z-2100Z, K0P,** Dearborn, MI. Ford Amateur Radio League. Certificate. FARL. QSL Cards will go out as postcards ethw.org/Milestones:One-Way_Police_Radio_Communication,_1928
- 04/07/2018 | National Library Week Apr 7, 1500Z-2000Z, K4L,** Aiken, SC. North Augusta Belvedere Radio Club. QSL. Via LoTW or North Augusta Belvedere Radio Club. k4nab.org
- 04/07/2018 | Wings of Freedom Tour Apr 7, 1600Z-2300Z, W7AI,** Tucson, AZ. Oro Valley ARC. Certificate. Via email only, to, , qsl@tucsonhamradio.org . Spots: www.dxsummit.fi . www.tucsonhamradio.org
- 04/10/2018 | Sun 'n Fun International Fly-In Expo Apr 10-Apr 15, 1300Z-2000Z, W4S,** Lakeland, FL. Sun n' Fun Amateur Radio Station. QSL. WA4OAB.
- 04/13/2018 | Earth Day At Great Falls National Historical Park Apr 13, 1400Z-2100Z, W2E,** Fair Lawn, NJ. Fair Lawn Amateur Radio Club. QSL. Fair Lawn Amateur Radio Club. An early Earth Day with a demonstration of amateur radio to hundreds of students and visitors. Guest operators will include STEM students from local NJ area schools. fairlawnarc.org
- 04/13/2018 | Sharks Tooth Festival Apr 13-Apr 15, 1316Z-1520Z, K4S,** Venice, FL. Tamiami Amateur Radio Club. QSL. Genuine shark tooth returned with QSL (SASE/\$\$). See website for updates & details. www.tamiamiarc.org ; www.sharkstoothfest.com or www.qrz.com/db/k4s
- 04/14/2018 | Carpet Capitol of the World Apr 14-Apr 15, 1800Z-2359Z, W4D,** Dalton, GA. Dalton Amateur Radio Club. Certificate & QSL. DARC, Inc.. www.w4drc.com
- 04/14/2018 | USS Midway Museum Ship Special Event: Doolittle Raid Apr 14, 1600Z-2300Z, NI6IW,** San Diego, CA. USS Midway (CV-41) Museum Ship. 14.320 7.250; 14.070 PSK31; D-STAR on REF001C. QSL. USS Midway (CV-41) COMEDTRA, 910 N Harbor Drive, San Diego, CA 92101.
- 04/15/2018 | Petal-Southern Mississippi POW WOW Apr 15-Apr 21, 0000Z-2300Z, W0W,** Petal, MS. Hattiesburg Amateur Radio Club. QSL. N5CW. SASE please. www.qrz.com/db/k5pn or www.hattiesburgamateurradioclub.org
- 04/18/2018 | World Amateur Radio Day Apr 18, 1200Z-1230Z, W2W,** Rochester, NY. Nevada Amateur Radio Repeaters, Inc.. IRLP 9251/EchoLink World Conference, IRLP - Node #479886. QSL. John Derycke, 85 Amherst St, Apt 2, Rochester, NY 14607. This event is a EchoLink-VoIP based event. EchoLink has very many RF stations that are connected which is held every April 18th and this is the 4th year we have done this...last year we logged in 426 check-ins in a 12 hr and 15 min net with 6 net controller from all over the world; the response was overwhelming. www.narri.org
- 04/21/2018 | 6th Annual Earth Day Celebration Apr 21, 1500Z-2000Z, W8PRC,** Cleveland, OH. Parma Radio Club. QSL. W8PRC. We'll be operating solely on power from Ol' Sol. www.parmaradioclub.com
- 04/21/2018 | Bayou Teche Black Bear Festival Apr 21, 1500Z-2000Z, W5BMC,** Morgan City, LA. Bayouland Emergency Amateur Radio Service BEARS. QSL. 15th Annual Black Bear Festival held on the banks of the beautiful Bayou Teche in downtown Franklin, LA.
- 04/21/2018 | Gadsen Purchase 170th Anniversary Apr 21, 1600Z-2300Z, K7T,** Tucson, AZ. Oro Valley Amateur Radio Club. Certificate. Via email only, to, na, qsl@tucsonhamradio.org , na na. No paper QSLs please. Spots: www.dxsummit.fi . www.tucsonhamradio.org
- 04/21/2018 | International Marconi Day Apr 21, 0000Z-2359Z, KM1CC,** Wellfleet, MA. Marconi Cape Cod Radio Club. QSL. KM1CC Marconi Cape Cod Radio Club, Cape Cod National Seashore. International Marconi Day is sponsored by the Cornish Radio Club, UK. KM1CC is one

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

of many stations participating. KM1CC represents Marconi's 1901 South Wellfleet Station

<https://www.nps.gov/caco/learn/historyculture/marconi.htm>

04/21/2018 | Morse Day Apr 21-Apr 29, 1300Z-1800Z,

W2M, Verbank, NY. The QSY Society. QSL. Morse Code only! No phone or digital. Look for use on a spotting network for exact location. SKCC and fists send your numbers. <https://qsysociety.org>

04/21/2018 | San Jacinto Day Special Event Apr 21-Apr 22, 1400Z-2100Z, K5T, Nacogdoches, TX. Nacogdoches Amateur Radio Club. QSL. Nacogdoches Amateur Radio Club. All contacts will be confirmed via LOTW. Special QSL card available for SASE. w5nac.com

04/21/2018 | SE Kansas Mining Special Event Series 2 of 7 Apr 21-Apr 23, 1500Z-2300Z, K0SEK, Franklin, KS. Southeast Kansas Amateur Radio Club. Certificate & QSL. K0SEK. Miners Hall Museum is the 2nd of 7 Special Events recognizing the mining history in SE Kansas !! See website for details including QSL and Certificate info. www.sekarc.net/p/sek-mining.html

04/21/2018 | Tallgrass Prairie National Preserve Junior Ranger Day Apr 21, 1400Z-1700Z, KS0KS, Strong City, KS. Santa Fe Trail Amateur Radio Club. QSL. SFTARC. www.sftarc.org

04/21/2018 | The Feast of the Ransom Apr 21-Apr 22, 1100Z-0200Z, W8TFC, Richwood, WV. The Family Center Amateur Radio Club. Certificate. W8TFC, The Family Center. The Feast of the Ransom, better known as The Ramp Festival has been going on since the 1930s in Richwood, WV. Ramps are a member of the Leek Family. Our area dentist says, "If you have eaten ramps in the last three days please reschedule your appointment. More information can be found at <http://richwoodchamberofcommerce.org/FeastOfTheRampson/RampFestival2018%20info.html> thefamilycenterofrichwoodwv.org/Ham/default.html

04/21/2018 | The Feast of the Ransom Apr 21-Apr 22, 1100Z-0200Z, W8TFC, Richwood, WV. The Family Center Amateur Radio Club. Certificate. W8TFC, The Family Center. The Feast of the Ransom, better known as The Ramp Festival has been going on since the 1930s in Richwood, WV. Ramps are a member of the Leek Family. Our area dentist says, "If you have eaten ramps in the last three days please reschedule your appointment. More information can be found at <http://richwoodchamberofcommerce.org/FeastOfTheRampson/RampFestival2018%20info.html> thefamilycenterofrichwoodwv.org/Ham/default.html

04/23/2018 | Mississippi State Guard Annual Training Apr 23-Apr 29, 0000Z-2359Z, W4W, Camp Shelby, MS. MSSG 2nd Brigade. 15 20 and 40 meters. QSL. Send QSL requests with an SASE and \$1.25 to K4KZR and specify W4W with the request www.msstateguard.us

04/26/2018 | Gold Nugget Days Apr 26-Apr 29, 1500Z-0000Z, W6PAR, Paradise, CA. Paradise Amateur Radio Society. QSL. Paradise Amateur Radio Society. One of

the first mining claims at Dogtown, known today as Magalia, was the Willard Claim, a hydraulic mine, in 1851 owned by 3 miners, Willard, Wetherbee, and Smith. The claim was northeast of Dogtown in the canyon by the West Branch of the Feather River. It was here on April 12, 1859, A.K. Stearns a workman at the mine, found the the largest gold nugget weighing 54-lbs. The nugget was worth \$10,690. Annual celebrations started in 1959. Gold Nugget Days 1997 was the first event in Butte County taking part in Cal-150, the official state commemoration of 150 years of California statehood.

ontheridge.com/golddays.html or w6par.org

04/27/2018 | 2018 West Point Camporee Apr 27-Apr 30, 0000Z-0000Z, W2P, West Point, NY. KB2FMH. QSL. This event is supported by Radio Scouting, BSA.

04/28/2018 | Honoring the Birthday of the Boy Scouts of America Apr 28, 1000Z-1500Z, W1BSA, Fall River, MA. USNR NE1PL. QSL. USNR c/o Rick Emord, 135 Wareham St, Middleboro, MA 02346. This will be our fourth year transmitting in honor of the birthday of the Boy Scouts Of America from the ward room of the USS Massachusetts. Scouts camp over night on the ship and we try to involve as many as we can.

04/28/2018 | Spring Portable Operating Event Apr 28-Apr 29, 0000Z-2100Z, W0WX, Marshall, MN. The Unreal Radio Club. 14.070. QSL. Each Spring on the last weekend in April, we will take to the "field" and set up our portable stations for an operating event. It's great practice for Field Day! portableradio.org

04/28/2018 | W1BSA Scouts on the Air from Battleship Cove Apr 28, 1500Z-2000Z, W1BSA, Fall River, MA. USNR. Certificate & QSL. KB1TEE. We'll be on clear frequencies on 20m 40m, possibly 10m and wherever conditions lead us. Feel free to make contact or if you're in the area stop on down and say hi, we love to have more operators or to meet new people or catch up with old friends. usnrne1pl@gmail.com

04/30/2018 | ARISS at MSA Apr 30-May 4, 1745Z-1845Z, N4S, Roswell, GA. Mill Springs Academy Radio Club. Certificate. W4MSA. To celebrate the Mill Springs Academy ARISS contact, the MSA Radio Club will be on the air from 17:45 to 18:45 each day. Other times during the school day may also be yield contacts. www.qrz.com/db/wa4msa

Available Gear

Looking for Antenna Instructions and manuals

Looking for antenna instruction and manuals for pre-1995 VHF and UHF antennas.

Hy-gain, Cushcraft, KLM are the big manufacturers, but there were dozen of little ones (K1FO, K2RIW, Tronna). Would like to start a repository of antenna manuals.

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

Denney N6HV / denney@denneypistole.com

K6MEP Keyer April 2018

k6mep@qsl.net / www.qsl.net/k6mep

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

Free Mast Posts

I have some TIKI lamps that are about the right size for NVIS antennas. I am keeping 2 for my use. Free to the first. I can bring them to next meeting. Just say the word.

Dana
KG6WXE@arrl.net

Equipment Tech and Operator Manuals

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

Stewart
KG6BOV@arrl.net

Equipment Sale from estate of Rich Measures AG6K (sk)

Contact info:
Sue Measures N6FEY
s.p.measures@gmail.com
805 386 3734



Kenwood TS-850s HF Transceiver \$300 as is



Kenwood TS-700a 2M All Mode \$200 as is



Heathkit SB-220 2KW Linear Amplifier \$300 as is



Kenwood TL-922a Linear Amplifier \$600 as is



Autek Research Keyer \$40 as is



Klitzing-VHF-AMP \$100 as is

Ventura County Science Fair

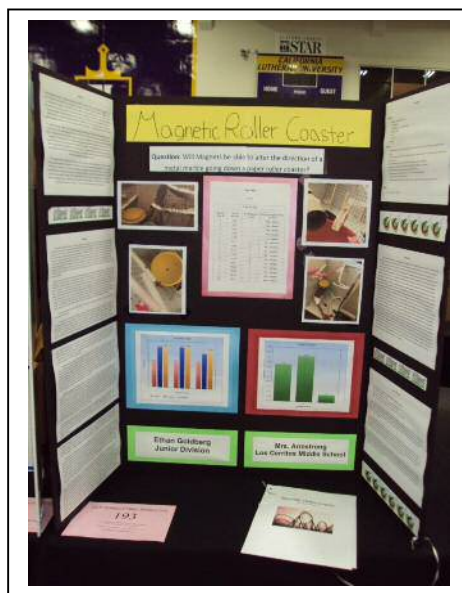
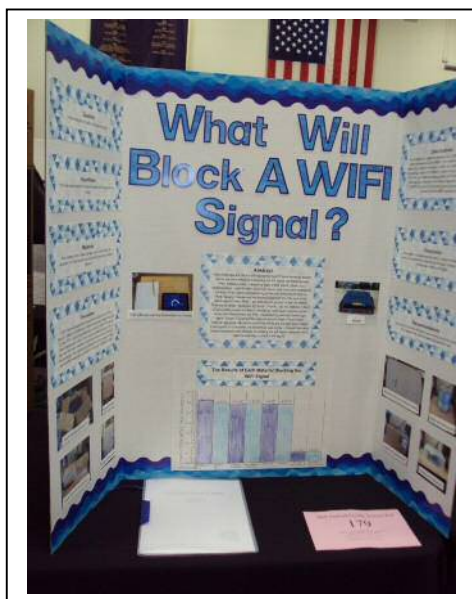
For the third year, the Ventura County Amateur Radio Club sponsored special awards at the 64th Annual Ventura County Science Fair held by the Ventura County Office of Education. Nearly 400 projects were hosted at California Lutheran University's Gilbert Arena on March 23rd.

Our judging panel awarded two projects that best demonstrated a use of "Electromagnetic Radiation". The winners were Andrew Hotzler of Holy Cross School with his project "What will block a Wi-Fi Signal" (Project 179) and Sean Vertuno of Vista Fundamental Elementary School with his project "Which Produces More Effective Energy: A Tesla Coil, A Solar Panel, Or a Perpetual Motion Machine" (Project 379). Both students answered questions beyond the surface of their projects during the interview process and demonstrated a good understanding of their tested subject.

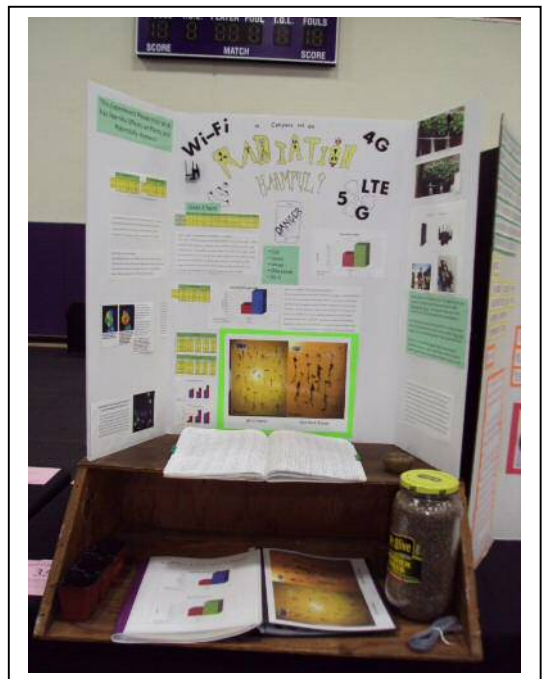
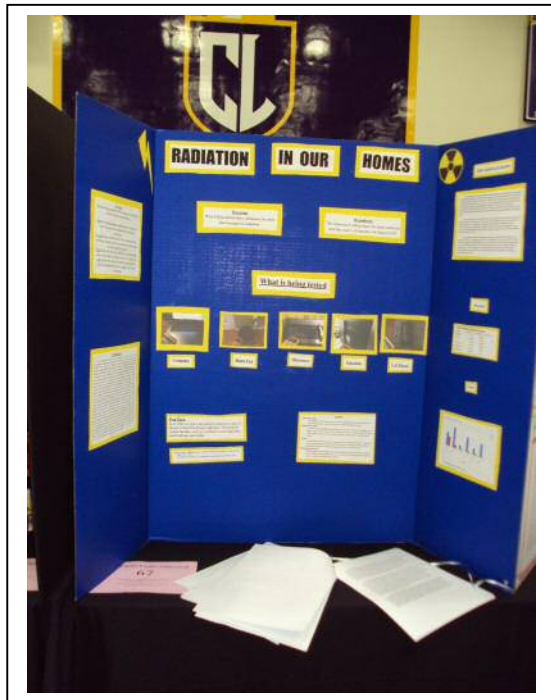
Overall, we were graciously hosted and impressed by the projects these young scientists produced. Many thanks go to our judging panel this year, as without them, this could not be possible: Joe Krigbaum (K6NE), Reese West (KQ6TT), Robert Brodie (KJ6AAE), Clement Alberts (KM6OKZ), Steve Noll (WA6EJO), and myself, Hovan Salibian (KI6BQL).

Awards were presented to our winners by Joe Krigbaum on Monday, March 26th at the awards ceremony in Camarillo.

Hovan Salibian, KI6BQL



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



K6MEP Judges -- Clement Alberts (KM6OKZ), Robert Brodie (KJ6AAE), Hovan Salibian (KI6BQL), Reese West (KQ6TT), Steve Noll (WA6EJO), Joe Krigbaum (K6NE) (with camera)



Andrew Hotzler, Sean Vertuno, Joe Krigbaum K6NE

K6MEP Keyer April 2018

k6mep@qsl.net / www.qsl.net/k6mep
<https://groups.yahoo.com/neo/groups/K6MEP/info>

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

04/04/2018 7:30 PM (Walk-ins allowed) Sponsor: Baldwin Hills ARC VEC: [ARRL/VEC](#) Contact: Edward L. Walker (323) 394-1818 www.barc.us Email: EDLWALKER@PACBELL.NET Location: Round Table Pizza 4330 Redondo Beach Blvd Torrance CA 90504-1031

04/07/2018 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 Location: VE's Residence 6043 3rd Avenue Los Angeles CA 90043-2618

04/07/2018 Time: 11:00 AM (Walk-ins allowed) Sponsor: ARES LAX VEC: ARRL/VEC Contact: James W. Laage (818) 368-8710 Email: claage@verizon.net Location:

Valley Presbyterian Hospital (Health Education Center) 15107 Vanowen Street Van Nuys CA 91405-4542

04/08/2018 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 Location: Ventura County Sheriff's E County Station, Community Room 2101 E Olsen Rd Thousand Oaks CA 91360-6861 Betw 23 Hwy & Reagan Library

04/09/2018 Time: 7:00 PM (Walk-ins allowed) Sponsor: AVARC VEC: Greater LA VEC Contact: Adrienne J. Sherwood (661) 264-1863 Email: wa6yco@arrl.net Location: Antelope Valley Christian Church 1702 E Avenue J Lancaster CA 93535-4474

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

- 04/09/2018 Time: 7:00 PM (Walk-ins allowed) Sponsor: AVARC VEC: Greater LA VEC Contact: Adrienne J. Sherwood (661) 264-1863 Email: wa6yeo@arrl.net Location: Antelope Valley Christian Church 1702 E Avenue J Lancaster CA 93535-4474
- 04/14/2018 Time: 7:00 AM (No walk-ins) Sponsor: PAPA VEC: [Greater LA VEC](#) Contact: Norman M. Goodkin (818) 222-7893 Email: hamclass@goodkin.net Location: Lulu's Restaurant 16900 Roscoe Blvd Van Nuys CA 91406-1101
- 04/14/2018 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 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.
- 04/14/2018 Time: 9:00 AM (Walk-ins allowed) Sponsor: South Bay ARC VEC: ARRL/VEC Contact: Joseph M. Lanphen (310) 328-0817 Email: janphen@ca.rr.com www.w6sba.org for details Location: Torrance Memorial Med Center 3330 Lomita Blvd Rm A, 2nd Flr, West Tower Torrance CA 90505-5002
- 04/14/2018 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 Location: Huntington Hospital 100 W California Blvd Pasadena CA 91105-3010 Wingate Bldg East conf. Room; Check in Booth E parking Lot www.arrllax.org
- 04/21/2018 Time: 8:30 AM (Walk-ins allowed) Sponsor: Downey ARC VEC: ARRL/VEC Contact: Steve J. Grudzinski (951) 674-4699 Email: sgrudzinski1@verizon.net Location: Fire Station #1 12222 Paramount Blvd (1/2 Mile N Of Imperial Hwy) Downey CA 90242-3537
- 04/21/2018 Time: 9:00 AM (Walk-ins allowed) Sponsor: ARALB-W6RO VEC: ARRL/VEC Contact: F Louise Chapman (562) 429-1355 Email: n6elk@aol.com Location: American Red Cross 3150 E 29th St Redondo & Temple Long Beach CA 90806-2319
- 04/22/2018 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 Location: Agoura Hills/Calabasas Community Center 27040 Malibu Hills Rd Agoura Hills CA 91301-5332
- 04/28/2018 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 Location: Northrop Grumman 1 Space Park Blvd (Bldg S Cafeteria) Parking lot off Marine Blvd Redondo Beach CA 90278-1001
- 04/29/2018 Time: 7:30 AM (No walk-ins) Sponsor: DCS 10/22 Lost Hills VEC: Greater LA VEC Contact: Norman M. Goodkin (818) 222-7893 Email: hamclass@goodkin.net Location: Lost Hills Sheriff's Station (Assembly Room) 27050 Agoura Rd Agoura Hills CA 91301-5332
- 05/05/2018 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 Location: VE's Residence 6043 3rd Avenue Los Angeles CA 90043-2618
- 05/05/2018 Time: 11:00 AM (Walk-ins allowed) Sponsor: ARES LAX VEC: ARRL/VEC Contact: James W. Laage (818) 368-8710 Email: cilaage@verizon.net Location: Valley Presbyterian Hospital (Health Education Center) 15107 Vanowen Street Van Nuys CA 91405-4542
- 05/05/2018 Time: 7:00 PM (Walk-ins allowed) Sponsor: AVARC VEC: Greater LA VEC Contact: Adrienne J. Sherwood (661) 264-1863 Email: wa6yeo@arrl.net Location: Antelope Valley Christian Church 1702 E Avenue J Lancaster CA 93535-4474
- 05/06/2018 Time: 7:30 AM (No walk-ins) Sponsor: DCS 10/22 Lost Hills VEC: Greater LA VEC Contact: Norman M. Goodkin (818) 222-7893 Email: hamclass@goodkin.net Location: Lost Hills Sheriff's Station (Assembly Room) 27050 Agoura Rd Agoura Hills CA 91301-5332
- 05/12/2018 Time: 7:00 AM (No walk-ins) Sponsor: The PAPA system VEC: Greater LA VEC Contact: Norman M. Goodkin (818) 403-5123 Email: hamclass@goodkin.net <http://papasys.org> Pre-registration required Location: Spitfire Grill Restaurant 3300 Airport Ave Santa Monica CA 90405-6130
- 05/12/2018 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 Location: Huntington Hospital 100 W California Blvd Pasadena CA 91105-3010 Wingate Bldg East conf. Room; Check in Booth E parking Lot www.arrllax.org
- 05/19/2018 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 Location: Santa Clarita Valley Senior Center 22900 Market St Santa Clarita CA 91321-3608
- 05/19/2018 Time: 9:00 AM (Walk-ins allowed) Sponsor: ARALB-W6RO VEC: ARRL/VEC Contact: F Louise Chapman (562) 429-1355 Email: n6elk@aol.com Location: American Red Cross 3150 E 29th St Redondo & Temple Long Beach CA 90806-2319
- 05/26/2018 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 Location: Northrop Grumman 1 Space Park Blvd (Bldg S Cafeteria) Parking lot off Marine Blvd Redondo Beach CA 90278-1001
- 06/02/2018 Time: 11:00 AM (Walk-ins allowed) Sponsor: ARES LAX VEC: ARRL/VEC Contact: James W. Laage (818) 368-8710 Email: cilaage@verizon.net Location: Valley Presbyterian Hospital (Health Education Center) 15107 Vanowen Street Van Nuys CA 91405-4542
- 06/04/2018 Time: 7:00 PM (Walk-ins allowed) Sponsor: AVARC VEC: Greater LA VEC Contact: Adrienne J.

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

- Sherwood (661) 264-1863 Email: wa6yeo@arri.net
Location: Antelope Valley Christian Church 1702 E
Avenue J Lancaster CA 93535-4474
- 06/06/2018** 7:30 PM (Walk-ins allowed) Sponsor: Baldwin Hills ARC VEC: ARRL/VEC Contact: Edward L. Walker (323) 394-1818 www.barc.us Email: EDLWALKER@PACBELL.NET Location: Round Table Pizza 4330 Redondo Beach Blvd Torrance CA 90504-1031
- 06/06/2018** 7:30 PM (Walk-ins allowed) Sponsor: Baldwin Hills ARC VEC: ARRL/VEC Contact: Edward L. Walker (323) 394-1818 www.barc.us Email: EDLWALKER@PACBELL.NET Location: Round Table Pizza 4330 Redondo Beach Blvd Torrance CA 90504-1031
- 06/09/2018** Time: 7:00 AM (No walk-ins) **Sponsor:** PAPA VEC: Greater LA VEC **Contact:** Norman M. Goodkin (818) 222-7893 **Email:** hamclass@goodkin.net
Location: Lulu's Restaurant 16900 Roscoe Blvd Van Nuys CA 91406-1101
- 06/09/2018 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 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.
- 06/09/2018** Time: 9:00 AM (Walk-ins allowed) Sponsor: South Bay ARC VEC: ARRL/VEC Contact: Joseph M. Lanphen (310) 328-0817 Email: janphen@ca.rr.com www.w6sba.org for details Location: Torrance Memorial Med Center 3330 Lomita Blvd Rm A, 2nd Flr, West Tower Torrance CA 90505-5002
- 06/09/2018** 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 Location: Huntington Hospital 100 W California Blvd Pasadena CA 91105-3010 Wingate Bldg East conf. Room; Check in Booth E parking Lot www.arriax.org
- 06/10/2018** 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 Location: Ventura County Sheriff's E County Station, Community Room 2101 E Olsen Rd Thousand Oaks CA 91360-6861 Betw 23 Hwy & Reagan Library
- 06/16/2018** Time: 8:30 AM (Walk-ins allowed) Sponsor: Downey ARC VEC: ARRL/VEC Contact: Steve J. Grudzinski (951) 674-4699 Email: sgrudzinski1@verizon.net Location: Fire Station #1 12222 Paramount Blvd (1/2 Mile N Of Imperial Hwy) Downey CA 90242-3537
- 06/16/2018** 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 Location: Frazier Park Library 3732 Park Dr
- 06/23/2018** 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 Location: Huntington Hospital 100 W California Blvd Pasadena CA 91105-3010 Wingate Bldg East conf. Room; Check in Booth E parking Lot www.arriax.org
- 06/30/2018** 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 Location: Northrop Grumman 1 Space Park Blvd (Bldg S Cafeteria) Parking lot off Marine Blvd Redondo Beach CA 90278-1001

Upcoming HamFests & Conventions

[23rd Annual West Coast Military Radio Collector's Group Meeting](#)

The 23rd Annual West Coast Military Radio Collector's Group meeting at Camp San Luis Obispo has been scheduled at the NCO Club on Friday and Saturday May 4th & 5th, 2018. Suggested Donation: \$10.

Technical presentations and radio ops: Friday, 4 May

Swap meet: Saturday, 5 May

Please see the website, <http://www.mrcgwest.org> , for additional details as they become available.

[Arizona State Convention \(2018 Prescott Hamfest at ERAU\)](#)

Start Date: 06/01/2018 **End Date:** 06/02/2018 **Location:** Embry-Riddle Aeronautical University 3700 Willow Creek Road Prescott, AZ 86301 **Website:** <http://www.prescotthamfest.com> **Sponsor:** ERAU Eagle ARC, Yavapai ARC, AR Council of Arizona **Type:** ARRL Convention **Talk-In:** 146.880(-) PL 100 **Public Contact:** Frank Bender , K8FB 635 Shadow Mountain Drive Prescott, AZ 86301 **Phone:** 928-379-5575 **Email:** k8fb@w7yrc.org

Mesh Network news for the Santa Barbara Section and Surrounds

Development/firmware

The AREDN folks are working through some development issues and may re-release a "Release Candidate" in the next month or so. In the meantime the daily builds are working well. They continue to certify new models of AREDN products via the nightly builds. They are also working to certify the latest hardware spin of the TP-Link wireless APs.

Local work

Ojai - Their Black Mtn repeater shack was damaged by the fire and the two NanoStation Locos on the tower were melted. The work party on February 24th hauled a pre-assembled garden shed up the mountain, dismantled the old shack, and installed the new one on the slab. This included replacing the old solar panel with a new 300W panel on the slant roof. They also installed 2 GHz and 5 GHz sector antennas and radios on the tower, and replaced the (burned) cat 5 cables. Everything operates at 12V (they still need a POE switch in the shack). It doesn't have any backbone connectivity yet because it depends on the Reeves Road re-installation. That was scheduled for March 17th, but has been deferred due to the weather.

The mesh antennas at the Reeves Road site survived the fire, but there was damage to the equipment box (the 4x4s supporting the equipment box caught fire). The equipment box was brought down for repair, and the electronics upgraded. They will install a second equipment box for increased battery capacity. They will have 2 GHz and 5 GHz sectors, a PTZ camera, and a weather station at that site.

The PTZ camera is ready for installation on Sulphur Mountain, but remains to be scheduled.

Simi Valley - The PTZ camera for Chatsworth Peak has been acquired but needs some extensive infrastructure upgrades at the site before it can be installed. That's several months out.

A PTZ camera was installed on the SimiNorth site in Simi Valley recently and has good coverage of the eastern and northeastern parts of the valley.

We continue to have our Sunday night net on the Teamtalk server on the mesh network. There's a screenshot of a recent net attached.

Thousand Oaks - CVARC approved funding for a 5 GHz link to Rasnow Peak, plus a 5 GHz Rocket & sector antenna to illuminate Thousand Oaks (there will be dead spots - the Conejo Valley is not all line of sight to Rasnow). The equipment has been ordered. Timing of the installation is to be determined.

"Less-local" work

On February 23rd, the link from Chatsworth Peak to Verdugo Peak (north of Burbank) was brought back up. The re-installation of the repaired 2 GHz node there was postponed due to the combination of 42 degree temperature and 25 mph winds... It will take another trip to Verdugo to put the 2 GHz node up, plus a 5 GHz dish pointed to N3BKV in Burbank, plus the addition of a dish to the 3 GHz Nanostation there to improve the signal to the Iverson Road site (approximately 34.285, -118.623).

In the next couple of weeks, the CCARES (Culver City ARES) group will put two nodes on Mount Lee (near the Hollywood sign). One will point down to their mesh network in Culver City (see attached screenshot); the other will point to Verdugo Peak. With luck this will connect their network to the backbone.

The effort to install the link between Verdugo Peak and JPL is still pending good weather and time to get it done.

Miscellaneous

Mesh networking was well represented at SCALE 16X (the Southern California Linux Expo) held March 8th through the 11th.

The AREDN guys had a booth on the Expo floor for the third year in a row, and there was a LOT of traffic by their booth. A number of people said "I have my ham ticket, but I'm inactive. But this stuff is cool!" Or words to that effect :-)

We held a BOF (Birds Of a Feather) session Saturday night. A couple of dozen folks showed up to discuss whatever came up. There was a lot of good dialog.

I gave a "Linux and the Ham Radio Internet" presentation Sunday afternoon. I was concerned about attendance, it being late on a Sunday and the last day of the show. But we had 45 people show up. I polled the group - pretty much all of them were comfortable with Linux and networking (no surprise, it being an Open Source show...). But surprisingly about 2/3 of them already had their ham tickets. SCALE had hosted a VE session earlier that day; 17 people took and passed the Tech test. Four of those people also took and passed the General test. Of the 17, two showed up at my presentation. So a very successful effort, in my opinion.

During the Expo, our local Ventura County mesh network was tunneled to the Inland Empire network. It turns out it's tunneled to N2MH in New Jersey. It in turn has tunnels to mesh networks all over the world.

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

With this effort we proved definitively that the routing protocol (OLSR) used in the mesh software doesn't scale as well as we'd like :-). So that issue got put on the AREDN developers' plates.

It's going to be a great mesh year!

73
Orv W6BI

Trivia for April 2017

DID YOU KNOW?

- 1. The first commercial FM radio station (W47ND) went on the air on March 1941.**
- 2. The Walt Disney. Co. Designed the logo for the Flying Tigers just before WW2.**
- 3. Edgar Allen Poe was expelled from West Point in 1831.**

de Dana KG6WXE



Bob KD6UDA on PSK



Allison N6PEP on 20M

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 20 hundred hours, 8 P-M local time, on the WD6EBY Linked system. Primary frequency for this net is "
 "One—Four—Five—Decimal—Two—Zero—Zero megahertz, PL Tone One-Two-Seven-Decimal-three."
 "All amateurs are welcome to check in. A discussion and roundtable will follow check-ins. 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.
 "K6MEP meetings are the second Friday of each month. The next meeting date is _____" (From the newsletter calendar section).
 "When Checking in on a these linked systems, remember to key-down, then pause 1/2 to 1 second to allow all links to engage."
 "Are there any K6MEP Member Check-ins to the K6MEP Net at this time? K6MEP Members, please check in now with your Call and First Name."
 <<<IMPORTANT: Keep a log each week of those checking in, call & first name>>>
 <Acknowledge Member Check-ins - example: Good evening Bob KD6UDA, you are Q5, OR nice signal. Next Member please; repeat until no more members.>
 "Visitors please check in now with your Call and First Name."
 <Acknowledge Visitor Check-ins - same as with members>
 "Any late, missed, or visitor check-ins? Please call K6MEP with your Call and First Name"
 <Announcements, Topics, etc. go here>
 (Roundtable) ***** "Any last comments?"
 Two Meter Closing: — "Good evening to you all, this net is closed at _____. (Time) We would like to thank Paul WD6EBY for the use of the this repeater and linked system for our net"

K6MEP CALENDAR

- April 2018**
 1: **April Fool's Day**
 1: **Easter Sunday**
 13: **Regular Monthly Club Meeting at 7:30pm.** K6MEP Board meeting precedes the club meeting at 7:00pm
 16: **Tax Day**
 29: **Aut2Run – 5/10/15K Run for Autism at CSUCI – ARES Support –** contact Wayne W6OEU w6oeu@arrl.net
May 2018
 4-5: **West Coast Military Radio Collector's Group Meeting**
 5: **Phantom Trail Run – ARES support – Contact Dan KE6NYT**
ke6nyt@arrl.net
 11: **Regular Monthly Club Meeting at 7:30pm.** K6MEP Board meeting precedes the club meeting at 7:00pm
 13: **Mothers' Day**
 19: **Red Cross Operation Ride for the Red Bike Ride – ARES support –** contact Stewart KG6BOV kg6bov@arrl.net
 27: **Mountains to the Beach Marathon – ARES support – contact Rob W6RH** w6rh@arrl.net
 28: **Memorial Day – Remember their Sacrifice**
June 2018
 8: **Regular Monthly Club Meeting at 7:30pm.** K6MEP Board meeting precedes the club meeting at 7:00pm
 16: **Santa Maria HamFest**
 17: **Fathers' Day**
 23-24: **ARRL Amateur Radio Field Day**

*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

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

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-20.17 **Diversity Awareness Course 2017** - (1/25/2017)
- IS-21.17 **Civil Rights and FEMA Disaster Assistance** - (1/25/2017)
- IS-26 **Guide to Points of Distribution** - (8/11/2010)
- IS-27 **Orientation to FEMA Logistics** - (10/31/2013)
- IS-29 **Public Information Officer Awareness** - (10/31/2013)
- IS-35.17 **FEMA Safety Orientation 2017** - (1/25/2017)
- IS-36 **Multi-hazard Planning for Childcare** - (10/31/2013)
- IS-42 **Social Media in Emergency Management** - (10/31/2013)
- IS-75 **Military Resources in Emergency Management** - (2/25/2011)
- IS-100.b **Introduction to Incident Command System, ICS-100** - (10/31/2013)
- IS-111.a **Livestock in Disasters** - (10/31/2013)
- IS-144 **Telecommunicators Emergency Response Taskforce (TERT) Basic Course** - (10/31/2013)
- IS-200.b **ICS for Single Resources and Initial Action Incidents** - (10/31/2013)
- IS-230.d **Fundamentals of Emergency Management** - (12/16/2013)
- IS-235.c **Emergency Planning** - (12/15/2015)
- IS-240.b **Leadership and Influence** - (6/16/2014)
- IS-241.b **Decision Making and Problem Solving** - (3/31/2014)
- IS-242.b **Effective Communication** - (3/31/2014)
- IS-244.b **Developing and Managing Volunteers** - (3/29/2013)
- IS-250.a **Emergency Support Function 15 (ESF15) External Affairs: A New Approach to Emergency Communication and Information Distribution** - (5/7/2012)
- IS-271.a **Anticipating Hazardous Weather & Community Risk, 2nd Edition** - (10/31/2013)
- IS-288.a **The Role of Voluntary Organizations in Emergency Management** - (2/12/2015)
- IS-315 **CERT Supplemental Training: The Incident Command System** - (8/13/2013)
- IS-317 **Introduction to Community Emergency Response Teams** - (6/26/2014)
- IS-320 **Wildfire Mitigation Basics for Mitigation Staff** - (10/31/2013)
- IS-322 **Flood Mitigation Basics for Mitigation Staff** - (10/31/2013)

- IS-323 **Earthquake Mitigation Basics for Mitigation Staff** - (10/31/2013)
- IS-325 **Earthquake Basics: Science, Risk, and Mitigation** - (10/31/2013)
- IS-326 **Community Tsunami Preparedness** - (10/31/2013)
- IS-366.a **Planning for the Needs of Children in Disasters** - (12/9/2015)
- IS-368 **Including People With Disabilities & Others With Access & Functional Needs in Disaster Operations** - (2/20/2014)
- IS-393.a **Introduction to Hazard Mitigation** - (10/31/2013)
- IS-405 **Overview of Mass Care/Emergency Assistance** - (12/10/2013)
- IS-454 **Fundamentals of Risk Management** - (10/31/2013)
- IS-546.a **Continuity of Operations Awareness Course** - (10/31/2013)
- IS-547.a **Introduction to Continuity of Operations** - (10/31/2013)
- IS-559 **Local Damage Assessment** - (10/31/2013)
- IS-700.a **National Incident Management System (NIMS) An Introduction** - (10/31/2013)
- IS-775 **EOC Management and Operations** - (8/6/2008)
- IS-800.b **National Response Framework, An Introduction** - (1/20/2017)
- IS-815 **ABCs of Temporary Emergency Power** - (12/27/2016)
- IS-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 for details and enrollment.

ARES-ACS Frequency Updates

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

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

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

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

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

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

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

Area 6 Ventura City – WA6ZSN 146.385 Mhz (+) PL 127.3

Area 7 Santa Paula, Fillmore, Piru – WA6ZSN 146.385 Mhz (+) PL 127.3

Area 8 Moorpark, Santa Rosa Valley – K6ERN 145.460 Mhz (-) PL 127.3

County-Wide – WD6EBY 145.200 (-) PL 127.3

ACS Portable – VCACS/p 144.930/147.585 Mhz PL 127.3

Other Good Area Frequencies ...

AA6DP 147.090 Mhz (+) No PL Catalina

K0AKS 147.150 Mhz(-) PL127.3 TOaks

K6CPT DCS 145.300 Mhz (-) PL100.0 LA DCS

K6CPT DCS 147.270 Mhz (-) PL100.0 LA DCS

K6DCS DCS22 147.225 Mhz (+) PL 94.8 LA DCS

K6ERN 146.880 Mhz (-) PL 127.3 SMRA Red Mt.

K6ERN 147.765 Mhz (-) PL 127.3 Olivas Park / SMRA

K6TZ 146.790 Mhz (-)PL131.8 SBARC

KB6C 147.735 Mhz (-) PL 100.0 Oat Mt / MMRA

N6EVC 146.850 Mhz (-) PL 94.8 Rasnow

N6FDR 145.260 Mhz (-) PL 100.0 Malibu

W6AAX 147.180 Mhz (+) PL 186.2 Verdugo Peak

W6GRG 146.940 Mhz (-) PL 127.3 Simi DSW Repeater

W6YJO 145.180 Mhz (-) PL 131.8 Sta Ynez

WA6FGK 146.640 Mhz (-) PL 127.3 Simi Valley

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

WB6OBB 147.000 Mhz (+) PL 131.8 Sta Barbara

WD6EBY 145.240 Mhz (-) PL 127.3 Chatsworth Pk

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

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

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

Area 1 Simi Valley – 145.510 Mhz (S)

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

Area 3 Camarillo, Somis – 146.550Mhz (S)

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

Area 5 Ojai Valley – 145.555Mhz (S)

Area 6 Ventura City – 147.510Mhz (S)

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

Area 8 Moorpark – 146.535Mhz (S)

County ARES Simplex – 145.615 Mhz (S)

National Simplex – 146.520Mhz(S)

Ventura County ARES / ACS Emergency Coordinators

ACS RO/ARES DEC: Rob Hansen, W6RH, Email: w6rh@arrl.net

Assist ACS RO/Deputy DEC: Rick Tate, KQ6NO Email: kq6no@arrl.net

Area 1 Simi Valley EC: Steve King, KE6WEZ Email: ke6wez@gmail.com

Area 2 TO, Conejo Valley EC: Zack Cohen, N6PK, Email: n6pk@arrl.net

Area 3 Camarillo, Somis EC: Ted Lansing W6TEL Email: w6tel@arrl.net

Area 4 Oxnard, Hueneme, Mugu EC: Stewart Stone, KG6BOV Email: kg6bov@arrl.net

Area 5 Ojai EC: Wayne Francis, W6OEU Email: w6oEU@arrl.net

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

Area 7 Santa Paula, Fillmore, Piru EC: Grant Mohr, KG6SFW, E-mail gmohr12@hotmail.com

Area 8 Moorpark, Santa Rosa Valley EC: Marc Hanley KM6B, Email: km6b@arrl.net

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

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

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

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

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

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

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

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



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

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 (1st 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.mrcgwest.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

Meeting Minutes (Cont fm pg 2)

GENERAL MEMBERSHIP MEETING

2017 Lunar Eclipse trip stories and pictures from Avi and Denny.
Robert KM6RSS, Reviews his process of going through the antenna permitting process in the City of Ventura

COMMENTS

Notes

Roll Call Total attendance : Guests:

EXECUTIVE BOARD MEETING MINUTES

MEETING ADDRESS : 836 Pancho Rd Camarillo Ca, Red Cross Headquarters.

OFFICER ATTENDEES

CALL TO ORDER

Secretary report, Sec will tax march / april , no change in membership still 38 persons
Joe asks if any changes to the minutes, approved the minutes 9 Feb. 2018.
Treasurer report, current account balances.

OLD BUSINESS

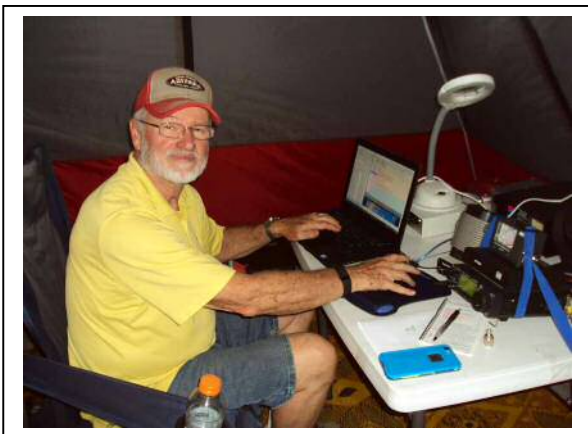
NEW BUSINESS

Stewart asks if time to discuss field day site, the projector has the image of the 2017 site on screen so the topic is to be discussed.

COMMENTS

ADJOURN

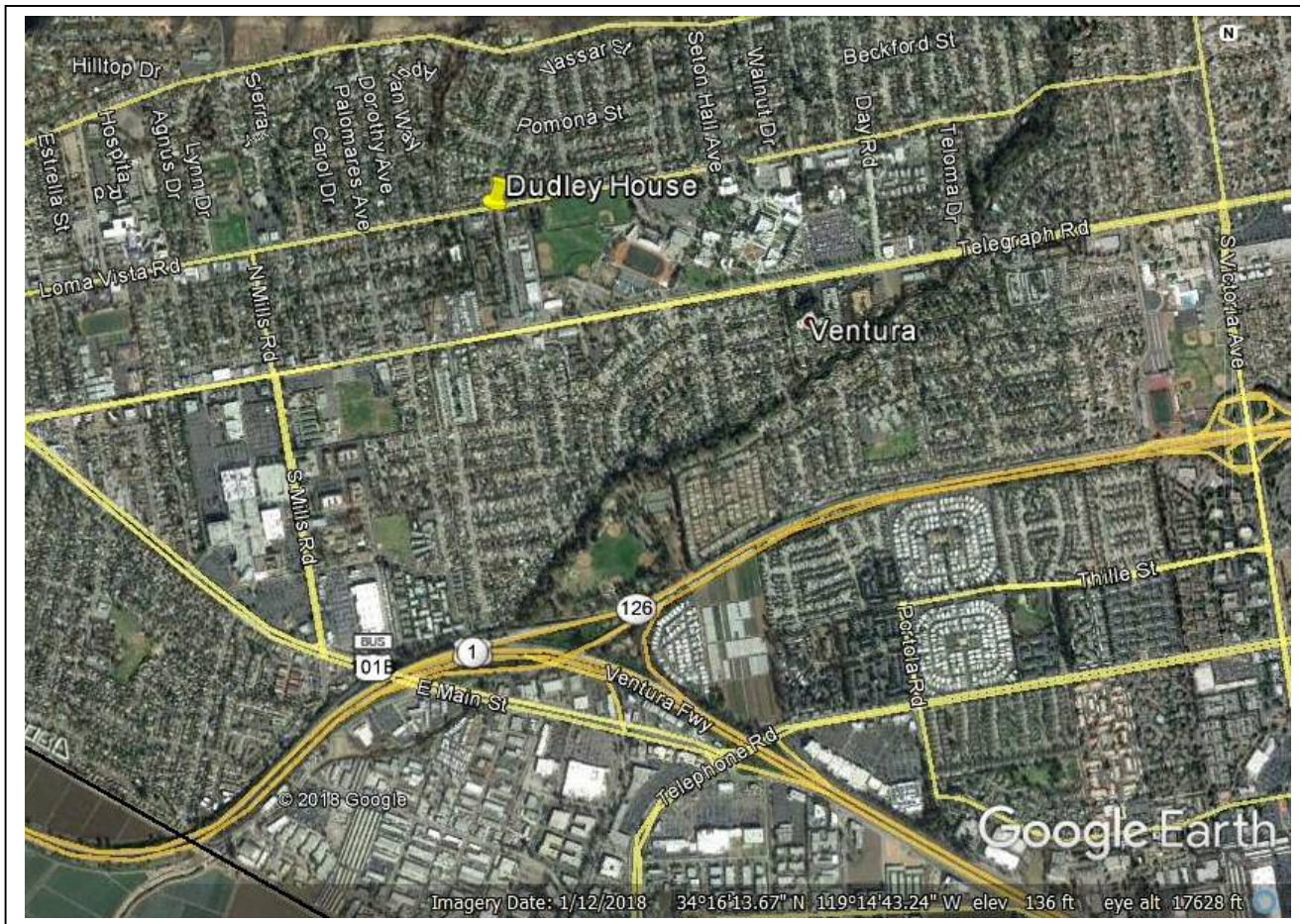
Board meeting adjourned and proceed to General meeting.



Larry W6LVP



Brett KJ6AAL



AMSAT "GOLF" CubeSats among NASA Ninth-Round CubeSat Launch Initiative Picks



03/09/2018

AMSAT reports that two of its "GOLF" (Greater Orbit, Larger Footprint) series CubeSats are among 21 missions recommended for NASA's CubeSat Launch Initiative (CSLI). GOLF-TEE (Technology Evaluation Environment) and GOLF-1, were among the 21 missions recommended for selection. AMSAT now must negotiate and execute a Cooperative Research and Development Agreement with NASA for each project, in order to finalize selection.

"The GOLF-TEE project tees off the next phase of our CubeSat program," AMSAT Vice-President-Engineering Jerry Buxton, N0JY, quipped. According to AMSAT, NASA anticipates a sufficient number of launch opportunities but does not guarantee that all recommended payloads will be launched. GOLF-TEE will also carry a Fox-1E design V/u linear transponder and RadFx (radiation effects) experiment for Vanderbilt University.

GOLF-TEE will serve as a low-Earth-orbit (LEO) testbed for technologies necessary for a successful CubeSat mission to a wide variety of orbits, AMSAT said. GOLF-TEE is aimed at providing AMSAT with the hardware and knowledge for attitude determination and control capability, and the opportunity to develop a 3U spaceframe with deployable solar panels suitable for LEO or high-Earth-orbit (HEO) missions, two of the major systems required in future GOLF and HEO missions.

GOLF-TEE allows for rapid deployment and on-orbit testing of AMSAT's Advanced Satellite Communications and Exploration of New Technology (ASCENT), including radiation-tolerant transponder and integrated housekeeping unit technologies that will lead the way for low-cost, off-the-shelf commercial systems that can function in the medium Earth orbit (MEO) and HEO radiation environments.

GOLF-TEE and the GOLF program will provide for the development of "five and dime" field-programmable gate array software-defined radio (FPGA SDR) transponders for use on a variety of missions and orbits. The target GOLF-TEE launch date is in the final quarter of 2019.

GOLF-1 will serve as a follow-on mission; AMSAT has not yet specified its Amateur Radio payload. Launch is targeted for 2020 – 2021. The GOLF-1 CubeSat will require a de-orbiting plan that complies with NASA requirements for limiting orbital debris, due to the high altitude AMSAT has requested.

AMSAT-NA President Joe Spier, K6WAO, unveiled the GOLF program at AMSAT's annual meeting last October as a crucial step toward fulfilling AMSAT's strategic goals involving high-altitude, wide-access satellite missions. — Thanks to AMSAT News Service via Paul Stoetzer, N8HM

Management Change Under Way at Puerto Rico's Arecibo Observatory

03/09/2018

The National Science Foundation (NSF) has announced that a management change is under way at Arecibo Observatory in Puerto Rico. The University of Central Florida (UCF) has begun formal transition activities to assume the operations and management of Arecibo Observatory, which sustained significant damage during Hurricane Maria last September.

"The university will take over formal management and execute a program of research and education consistent with the objectives and priorities of the scientific community," NSF said. "The university will provide support and technical personnel to manage the observatory, its research, and educational activities."

One of the most significant and largest telescope facilities available to researchers, Arecibo Observatory is also home to the Arecibo Observatory Radio Club, KP4AO. It's been reported that NSF has been looking to scale back its support for Arecibo. UCF said it plans major improvements for the observatory.

Under a cooperative agreement with NSF, UCF will head a new consortium comprising Universidad Metropolitana (UMET) in San Juan and Yang Enterprises, a Florida company that will oversee the 54-year-old observatory. Currently, the independent research center SRI International, UMET, and Universities Space Research Association (USRA) manage Arecibo, in cooperation with NSF, which will gradually reduce its role and funding over the next 5 years. The new contract officially begins on April 1. NSF currently supports Arecibo Observatory to the tune of approximately \$8 million per year.

Repairs after damage by Hurricane Maria and upgrades to expand the capabilities are high on the to-do list. The facility's iconic dish is 305 meters (about 1,000 feet) in diameter, and has an EIRP of 2.5 TW (pulsed) on 430 MHz.

"The observatory will provide a valuable new dimension to space science at UCF while creating more academic opportunities for students and faculty at UCF, in Puerto Rico, and beyond," UCF President John C. Hitt said in a statement.

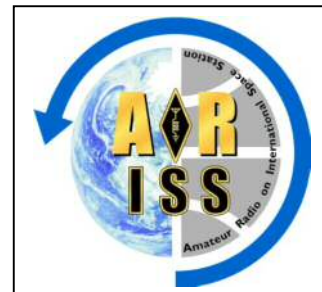


“This agreement, made possible through partnerships, also ensures that the observatory will continue to make significant contributions to space science and mankind.” The agreement is valued at \$20.15 million.

US Senator Bill Nelson (D-FL) called the new contract “a win-win-win.” Nelson supported UCF’s bid to manage Arecibo and recently helped secure funding in Congress to repair damage to the telescope caused by Hurricane Maria.

“It’s good for UCF and Florida, it’s good for Puerto Rico, and it will enable thousands of scientists who do research at Arecibo each year to continue their work,” Nelson said.

International Space Station Astronauts Calling “CQ Students”



03/16/2018

The deadline is April 30 for US schools, museums, science centers, and community youth organizations (working individually or together) to submit proposals to host an Amateur Radio on the International Space Station (ARISS) contact with an orbiting crew member on the International Space Station (ISS). Contacts would be scheduled between January 1 and June 30, 2019.

Each year, ARISS provides tens of thousands of students with opportunities to learn about space technologies and communications through Amateur Radio. The program provides learning opportunities by connecting students to astronauts aboard the ISS through a partnership between ARRL, AMSAT, and NASA, as well as other Amateur Radio organizations and worldwide space agencies. The program’s goal is to inspire students to pursue interests and careers in science, technology, engineering, and mathematics (STEM) and Amateur Radio.

“Educators overwhelmingly report that student participation in the ARISS program stimulates interest in STEM subjects and in STEM careers,” ARISS said in announcing the contact opportunities. “As one educator wrote, ‘It exceeded our expectations — it created a great interest in both Amateur Radio and in space exploration. Our kids are completely inspired!’”

More than 90% of educators who have participated in the program have indicated that ARISS provided ideas for encouraging student exploration and participation. Some of them even become radio amateurs after experiencing a contact with an ISS crew member.

ARISS is looking for organizations that will draw large numbers of participants and integrate the contact into a well-developed, exciting education plan. Students can learn about satellite communications, wireless technology, science research conducted on the ISS, radio science, and any related STEM subject. Students learn to use Amateur Radio to talk directly to an astronaut and ask their STEM-related questions. ARISS will help educational organizations locate Amateur Radio groups who can assist with equipment for this once-in-a-lifetime opportunity for students.

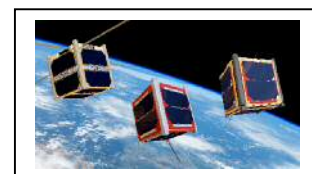
Proposal webinars for guidance and getting questions answers will be offered on Thursday, March 29, at 7 PM EDT (0000 UTC on Friday, March 30) and on Monday, April 16, at 4 PM EDT (2100 UTC). Advance registration is required. More details, such as expectations, proposal guidelines, and the proposal form, are on the ARISS website. — Thanks to ARISS via Dave Jordan, AA4KN

Tennessee Middle School Students Will Send a CubeSat into Space

03/15/2018

NASA has informed Robertsville Middle School in Oak Ridge, Tennessee, that its “RamSat” 2U CubeSat proposal has been accepted for participation in NASA’s CubeSat Launch Initiative (CSLI) for a launch opportunity during 2019, 2020, or 2021. The Robertsville proposal was one of 21 satellites selected or prioritized for participation in the ninth CSLI selection. CSLI provides opportunities for small satellite payloads built by schools and non-profit organizations to fly on upcoming launches. RamSat will be an educational mission to develop and implement a middle school STEM curriculum for building a CubeSat.

“This is such an exciting opportunity for the students!” said Peter Thornton, one of the RamSat team leaders from Oak Ridge National Laboratory. “They will now have the chance to design, build, carry out, and own a satellite mission. They will be the mission scientists, the communication specialists, and the logistics experts. They will calculate orbits, learn to aim their satellite camera at selected targets on the ground, radio their commands to RamSat, and receive and interpret the digital data streams broadcast by RamSat, containing imagery and all the other important data gathered onboard. They’ll be working as a team to identify and solve problems, and they will be working with NASA professionals to integrate RamSat into the launch and deployment missions.”



The students' plan for RamSat is to send a small camera and radio encased in a 2U nanosatellite that will relay data and images from space back to Earth. This will let students study reforestation patterns of vegetation lost in forest fires. The student mission arose in response to a real-world connection they had to the Gatlinburg, Tennessee, fires last year.

"I can't think of a more exciting project to ignite the students' curiosity and passion for science and engineering," Thornton said. — Thanks to AMSAT News Service via Oak Ridge Schools

ARRL Seeks EC-001 Mentors!

03/15/2018

Since the beginning of the Amateur Radio Emergency Communications training program, ARRL has relied on the work of mentors to help guide those interested in volunteering to serve their communities. Our mentors represent the best in Amateur Radio public service communications training and make a substantial difference in how students approach service to their communities and Amateur Radio. The mentors take the written text of a course and bring it life for these amateurs, many of whom they will never meet face to face.

Our current pool of mentors is low, and ARRL has an immediate need for new mentors who are willing to start as soon as they're approved. Mentors are more than teachers. They are the guides that new radio amateurs, and those new to public service communications, rely on to show them all the possibilities for Amateur Radio to benefit the public and the partners we work with.

ARRL Emergency Communications training courses cover a wide range of material on the use of radio communications technologies, communications techniques, and emergency management skills necessary when helping served agencies deal with and overcome disasters.

Mentors for the EC-001 Introduction to Amateur Radio Emergency Communications course must meet the following criteria:

Qualifications

- ARRL member
- Active radio amateur
- 18 years of age or older
- Completion of ARRL EC-001
- General, Advanced, or Amateur Extra class licensee
- Experience in public service communications and ARES activities
- Recommendation of Section Manager

Completion of the following courses:

- ICS 100, 200, 700, and 800
- FEMA Professional Development Series
- National Weather Service SKYWARN®

Desirable experience:

- Professional experience in emergency response or communications field
- Extensive Amateur Radio experience
- Professional experience as a trainer or educator

In addition, all mentors for CEP online courses must:

- Possess sufficient computer skills and Internet savvy to interact with online course students and other mentors
- Maintain adequate computer equipment
- Successfully complete the Mentor Familiarization Course that provides orientation for giving instruction in the online environment.

Appointment as an ARRL Field Instructor or as a Mentor for ARRL's Public Service Communications training program is for a term of 3 years. This is a renewable appointment based on satisfactory performance as an active instructor/mentor and satisfaction of all current qualifications and requirements.

Field Instructors and Mentors are expected to maintain and adhere to the qualifications, guidelines, and standards of conduct of a volunteer representing ARRL, which reserves the right, in its sole discretion, to terminate this relationship at any time, with or without cause.

For more information on applying to be a mentor, contact ARRL Emergency Preparedness Assistant Ken Bailey, K1FUG, tel (860) 594-0227.



Launch of “SpaceBEEs” Unauthorized, FCC Tells California Technology Developer

03/13/2018

On the same launch as an Amateur Radio satellite in January from India, some tiny 0.25 U CubSats called SpaceBEEs — not to be confused with the fantasy insects in the “Futurama” TV cartoon — also went into space when they apparently should not have.

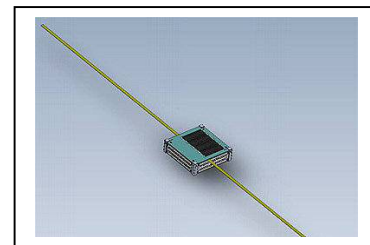
Last December, in a letter to their developer, Swarm Technologies Inc. of Los Altos, California, Anthony Serafini, the Chief of the FCC’s Experimental Licensing Branch, advised that the FCC was unable to grant the company’s application for an Experimental authorization in association with deployment and operation of “four spacecraft smaller than 10 cm in one of their three dimensions.” In dismissing the application without prejudice, the FCC said the spacecraft were below the size threshold “at which detection by the Space Surveillance Network (SSN) can be considered routine.” The FCC said the proposed addition of KU-band radar reflectors would overcome the issue only with respect to the small portion of the SSN that utilizes the KU band.

“In the absence of tracking at the same level as available for objects of 10 cm × 10 cm × 10 cm, and in the event of a conjunction with an operational spacecraft, the ability of operational spacecraft to reliably assess the need for and plan effective collision avoidance maneuvers will be reduced or eliminated,” the FCC said.

Last week, the FCC e-mailed Swarm Technologies that its application for an additional experimental authorization had been set aside and was “in a pending status for further review.”

“The International Bureau requested that the grant be set aside in order to permit assessment of the impact of the applicant’s apparent unauthorized launch and operation of four satellites, and related statements and representations, on its qualifications to be a Commission licensee,” the FCC informed Swarm Technologies.

Swarm told the FCC in an appendix to its experimental radio authorization application that it was seeking to demonstrate “two-way communications satellites to serve as a cost-effective low-data rate Internet of Things (IoT) network connectivity solution for remote and mobile sensors.”



Hospital Ship Crew Members Get Amateur Radio Training at Sea

03/23/2018

On February 21, US Army civilian contractor Tim Millea, AJ7UU, and MARS Volunteer Doug Smith, W7KF, embarked on the hospital ship USNS *Mercy* from San Diego to Hawaii to begin its deployment for “Pacific Partnership 2018” (PP18), a humanitarian assistance exercise that will include several Pacific stops. Their mission during the first leg of the voyage was to conduct Technician and General Amateur Radio classes for more than a dozen military and civilian personnel crewing the Military Sealift Command hospital ship, and to provide training in military HF communication procedures.

The pair provided two or three training classes a day for the crew, who took the classes following their work shifts. Classroom training was interspersed with on-air activities in the ship’s Amateur Radio room. The *Mercy* is utilizing the Weak Signal Propagation Reporting ([WSPR](#)) tool under K6MRC.

On March 3, the *Mercy* docked in Hawaii, where a group of local Volunteer Examiners (VEs), headed by ARRL Pacific Section Manager Joe Speroni, AH0A, administered Technician and General licensing exams to the students.

“The ARRL VE Team in Honolulu was fantastic to work with,” Smith told ARRL. “Due to spotty internet connectivity while at sea and strict base access and security issues in port, the VEs in Hawaii had to exhibit extraordinary patience and persistence to administer the exams aboard *Mercy*.” Smith singled out ARRL VEC Manager Maria Somma, AB1FM, for being “super helpful throughout this endeavor.”

More than 18 sailors and civilians assigned to the USNS *Mercy* passed their Amateur Radio exams, administered on March 3 in Pearl Harbor. The successful candidates had their new call signs or upgraded tickets by March 5.

Among those upgrading was Captain David Bretz, WH6FIR, the PP18 Mission Commander. “I am very excited to host the trainers on *Mercy*,” Bretz said. “We will be researching the effectiveness of using Amateur Radio aboard the *Mercy* for the duration of PP18. Amateur Radio operators have played a huge role throughout history assisting in humanitarian and disaster relief efforts. I am looking forward to gathering research on how this older technology can still be relevant in current humanitarian and disaster relief missions, such as PP18.” The *Mercy* arrived in Guam this week.



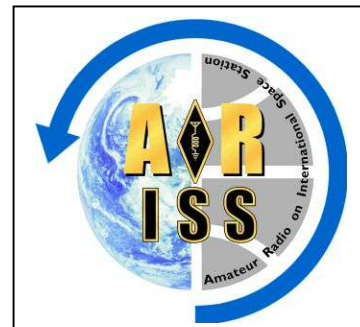
PP18 has a [Facebook page](#). — Thanks to Doug Smith, W7KF, and Robert Mims, WA1O EZ, Region 1 US Army MARS Director

Ham-Astronaut Part of New Space Station Crew Heading into Space on March 21

03/20/2018

Two US astronauts and a Russian cosmonaut are ready for their journey to the International Space Station (ISS), which will begin on Wednesday, March 21. At the Baikonur Cosmodrome in Kazakhstan, astronauts Drew Feustel and Ricky Arnold, KE5DAU, and cosmonaut Oleg Artemyev are set to launch in the *Soyuz MS-08* spacecraft at 17:44 UTC.

After a 2-day flight, the new crew members will dock at the ISS on March 25. Hatches between the *Soyuz* and the station will open about 2 hours later, and the new residents will be greeted as part of the Expedition 55 crew by station commander Anton Shkaplerov and crew — Scott Tingle, KG5NZA, and Norishige Kanai. During his time in space, Arnold, a former educator, will wrap up NASA's Year of Education on Station, an initiative to engage students and educators in human spaceflight and science, technology, engineering, and math (STEM) careers.



Chinese Lunar-Orbit Amateur Radio Payload Could Launch this Spring

03/14/2018

China's twin-launch Chang'e 4 mission to the far side of the moon will place a pair of microsattellites in lunar orbit this spring "to test low-frequency radio astronomy and space-based interferometry." The two satellites, unofficially called *DSLWP-A1* and *DSLWP-A2* (DSLWP = Discovering the Sky at Longest Wavelengths Pathfinder), could launch this spring. The pair represent the first phase of the Chang'e 4 mission, which involves placing a relay satellite in a halo orbit to facilitate communication with the Chang'e 4 lander and rover, which will be sent to the far side of the moon in December. Because the moon's far side never faces

Earth, the satellite is needed to serve as an Earth-moon relay. The Chang'e 4 mission will be the first-ever attempt at a soft-landing on the far side of the moon.

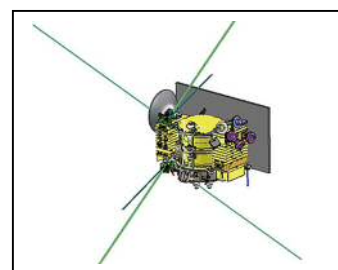
The two spacecraft also will carry Amateur Radio and educational payloads, but not a transponder. Developed by students at the Harbin Institute of Technology, the Amateur Radio payload on *DSLWP-A1* will provide a telecommand uplink and a telemetry and digital image downlink. Radio amateurs will be able to transmit commands that allow them to send commands to take and download an image.

The satellites will piggyback on the Chang'e 4 relay package and will deploy themselves into a 200 × 9,000 kilometer lunar orbits. The 50 × 50 × 40 centimeter spacecrafts each weigh about 45 kilograms and are three-axis stabilized. Two linear polarization antennas are mounted along and normal to the flight direction. The satellites will use the moon to shield them from radio emissions from Earth.

The Harbin Institute of Technology team has proposed downlinks for A1 on 435.425 MHz and 436.425 MHz. Downlinks for A2 would be 435.400 MHz and 436.400 MHz using 10K0F1DCN or 10K0F1DEN (10-kHz wide FM single-channel data) 250 bps GMSK with concatenated codes or JT65B.

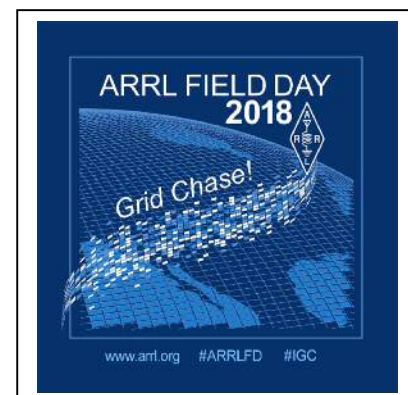
Equipped with low-frequency antennas and receivers, the astronomy objectives of *DSLWP-A1* and *-A2* will be to observe the sky at the lower end of the electromagnetic spectrum — 1 MHz to 30 MHz — with the aim of learning about energetic phenomena from celestial sources.

The launch is anticipated for May or June on a CZ-4C vehicle, putting the satellites' deployment about 6 months ahead of the launch of the Chang'e 4 lander and rover.



ARRL Field Day 2018 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 2018 will be held June 23-24. Field Day is always the fourth full weekend, beginning at 1800 UTC Saturday and ending at 1800 UTC Sunday (or 27 hours for Class A and B if conditions in 3.1. are met).
 - 3.1. Class A and B (see below) stations that do not begin setting up until 1800 UTC on Saturday may operate the entire 27-hour Field Day period.
 - 3.2. Stations who begin setting up before 1800 UTC Saturday may work only 24 consecutive hours, commencing when on-the-air operations begin.
 - 3.3. No class A or B station may begin its set-up earlier than 0000 UTC on the Friday (Thursday afternoon or evening local time) preceding the Field Day period. Cumulative set-up time shall not exceed a total of 24 hours.



4. **Entry Categories:** Field Day entries are classified according to the maximum number of *simultaneously* transmitted signals, followed by a designator indicating the nature of their individual or group participation. The minimum number of transmitters that must be claimed is one (1). Twenty (20) transmitters maximum are eligible for the purpose of calculating bonus points (2,000 points maximum). However, additional transmitters which may legitimately be used simultaneously will determine your entry category classification, but will not earn additional bonus points (i.e. 22 transmitters = 22A). The use of switching systems that allow for lock-outs in order to use multiple transmitters (i.e., an “octopus”) in an attempt to enter a lower-number-of-transmitters class are prohibited (i.e. using 2 transmitters that can transmit simultaneously, with two operators, and a lock-out system and entering class 1A). The use of simulcasting devices which allow a single operator to key and transmit on more than one transmitter at a time, is prohibited. Bonus stations, such as the GOTA station and satellite station do not count towards determining the number of transmitters for the class and do not qualify for transmitter bonus points.
 - 4.1. **(Class A) Club / non-club portable:** Club or a non-club group of three or more persons set up specifically for Field Day. Such stations must be located in places that are not regular station locations and must not use facilities installed for permanent station use, or use any structure installed permanently for Field Day. A single licensee or trustee for the entry is responsible for the group entry. All equipment (including antennas) must lie within a circle whose diameter does not exceed 300 meters (1000 feet). To be listed as Class A, all contacts must be made with transmitter(s) and receiver(s) operating independent of commercial power mains. Entrants whom for any reason operate a transmitter or receiver from a commercial main for one or more contacts will be listed separately as Class A-Commercial.
 - 4.1.1. Get-On-The-Air (GOTA) Station. Any Class A (or F) entry whose transmitter classification is two or more transmitters may also operate one additional station without changing its base entry category, known as the GET-ON-THE-AIR (GOTA) station. This GOTA station may operate on any Field Day band, HF or VHF, but is limited to one GOTA station transmitted signal at any time.
 - 4.1.1.1. This station must use a different callsign from the primary Field Day station. The GOTA station must use the same callsign for the duration of the event regardless if operators change. The GOTA station uses the same exchange as its parent.
 - 4.1.1.2. The GOTA station may be operated by any person licensed since the previous year’s Field Day, regardless of license class. It may also be operated by a generally inactive licensee. Non-licensed persons may participate under the direct supervision of an appropriate control operator. A list of operators and participants must be included on the required summary sheet to ARRL HQ.
 - 4.1.1.3. As per FCC rules, this station must have a valid control operator present at the control point if operating beyond the license privileges of the participant using the station.
 - 4.1.1.4. The maximum transmitter output power for the GOTA station shall be 150 watts. If the primary Field Day group is claiming the QRP multiplier level of 5, the maximum transmitter output power of the GOTA station may not exceed 5 watts.

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

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

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

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.
- 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 completely independent of the commercial power mains to qualify. (Example: a club operating 3 transmitters plus a GOTA station and using 100% emergency power receives 300 bonus points.) Available to Classes A, B, C, E, and F.

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

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

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

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

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 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/;

8.1.2. Via email to 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 24, 2018. 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 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.

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

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

(revised: February 2018)



Mark KI6YLH and Jim W6JB



Ben K6QV and Phil WA6BUZ



Hovan KI6BQL 40M in the Dog House



John AG6GL on 20M