



K6MEP Judging Panel for 2017 Ventura County Science Fair

Steve Noll (W46EJO) using the camera, Robert Brodie (KJ6AAE), Reese West (KQ6TT), Stephen Hudson (K16BSQ), Hovan Salibian (K16BQL), Joe Krigbaum (K6NE), Rob Byl (KD6UDA) and Allison McKowen (N6PEP)

The Ventura County Amateur Radio Club, K6MEP will hold its next regular meeting at 7:30 PM on Friday the 14th of April 2017 at the Ventura County Port Authority 1603 Anchors Way Ventura, CA 93001, 34°15.11' N, 119°16.01' W, grid DM04IG, (see map pg 19). Board Meeting precedes the General Meeting.



First Class Mail

HAM RADIO:
It works when nothing else does!

K6MEP KEYER -- The VCARC Journal

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

Ventura County Amateur Radio Club 2015 Officers and Chairs

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Webmaster	Joe Krigbaum	K6NE	(805) 642-2337
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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		

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

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

K6MEP holds general membership meetings at 7:30 PM on the 2nd Friday of each month at The Ventura Port Authority building, 1603 Anchors Way Ventura 93001

Dues are \$20 per year.

Message from the President

Greetings Members:

We may have all the rain we will get for the year so far, but hoping for more to get the level up in Lake Casitas a bit more.

We may have more about the new Speakers Project being formed at the next meeting.

The presentation for April is TBA at this time, so we will see what happens!

Bring your ideas, creativity, projects, and ideas, and we will see you all at the Friday April 14 meeting!

Joe Krigbaum K6NE
President, VCARC

Secretary's Column and Meeting Minutes

Ventura County Amateur Radio Club Inc. Club Meeting Meeting Date : 10 March 2017

GENERAL MEMBERSHIP MEETING MINUTES

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

ATTENDANCE : Listed on Roll Check-In Sheet

CALL TO ORDER

Established quorum (25% of Voting Members = 6)

ANNOUNCEMENTS

MEETING MINUTES

Open meeting with Pledge of Allegiance

Introductions.

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

FINANCIAL REVIEW

OLD BUSINESS

Science Fair Update : Steve WA6EJO. The club judges have confirmed attendance, all but one. March 24, at Seaside Park. Ventura county school district is sponsor and website is online by keyword search.

Picnic scheduled for May 13th, usually at Chumash Park. Bob KD6UDA proposes Marina Park as an alternate site, and will take a look on Saturday morning to see how busy it is

(Cont pg 17)

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.

-
- 04/01/2017 | Canadian Amateurs Remember WWI Battle of Vimy Ridge Apr 1-Apr 9, 0000Z-2359Z, VE100VIMY**, Vimy, FRANCE. Vimy Commemorative Station Society.. Certificate & QSL. N7RO, 24/7 operation from the site of the Canadian victory in the WWI Battle of Vimy Ridge. Full details at ve100vimy.ca
- 04/01/2017 | Chisholm Trail 150th Anniversary Apr 1-Apr 2, 1000Z-1400Z, W5C**, Decatur, TX. West Fork Amateur Radio Club. Certificate & QSL. WFARC. Please send SASE for QSL and/or certificate. 9:00am-9:00pm 04/01/17; 9:00am-1:00pm 04/02/17 CST. www.wfarc.org
- 04/03/2017 | Petal-Southern Mississippi Pow-Wow Apr 3-Apr 9, 0000Z-2359Z, W0W**, Petal, MS. Lemar Radio Club and Hattiesburg Amateur Radio Club. QSL. N5CW, www.hattiesburgamateurclub.org
- 04/04/2017 | 43 Annual SUN n FUN International FLY - IN & EXPO Apr 4-Apr 9, 1300Z-2000Z, W4S**, Lakeland, FL. SUN n FUN Amateur Radio Group. QSL. Held at Lakeland Linder Airport, Lakeland FL. wa4oab@gmail.com
- 04/07/2017 | 70th annual North Carolina Azalea Festival Apr 7-Apr 9, 0001Z-2359Z, AC4RC**, Wilmington, NC. Azalea Coast Amateur Radio Club. CW/Digital all bands. Certificate & QSL. Azalea Coast Amateur Radio Club, Confirmation of Contact LoTW free; QSL Card W/SASE; Certificate requires \$4 for postage and handling, QSL card may be included with certificate mailing if requested. ac4rc.org
- 04/08/2017 | Doolittle Raid Special Event Apr 8, 1600Z-2300Z, NI6IW**, San Diego, CA. USS Midway (CV-41) Museum Ship. QSL. USS Midway Museum Ship Radio Room.
- 04/08/2017 | Perkins Boy Scout Encampment 2017 Apr 8, 0800Z-1800Z, KF5THB**, Wichita Falls, TX. Red River Amateur Radio Enthusiasts. QSL. Help get the Scouts on the Air! Give us a call during their spring encampment.
- 04/11/2017 | New York State Police 100 year anniversary Apr 11, 1200Z-2100Z, NY2SP/100**, Albany, NY. Churchville (NY) Contest Club. Certificate. Churchville Contest Club. The New York State Police was formed on April 11, 1917. This station celebrates 100 years of service to the people of New York State. www.qrz.com/db/ny2sp
- 04/13/2017 | First Space Shuttle Launch Apr 13-Apr 17, 0000Z-2359Z, KB7QPS**, Seattle, WA. Certificate & QSL.. This is the April special event station that is part of the 2017 KB7QPS Air, Space, and Technology Operating Event. airspacetechnology.webs.com
- 04/14/2017 | Maritime Radio Day Apr 14-Apr 15, 1200Z-2200Z, various calls**, various cities. Radio Officers World List. CW only. Certificate & QSL. QSL to station worked; For certificate, email, dl9cm@t-online.de. To receive QSL or certificate, send information to arrive by May 1. Certificate by email only. Please see website for complete information. www.trafficlist.net/mrd
- 04/15/2017 | 100th Anniversary of the Michigan State Police Apr 15-Apr 30, 0001Z-2359Z, W8P**, Howell, MI. Livingston Amateur Radio Klub. QSL. w8msp@w8msp.com
- 04/15/2017 | GHARC Birthday Event Apr 15-Apr 16, 1900Z-1900Z, W7ZA**, Aberdeen, WA. Grays Harbor Amateur Radio Club. QSL. GHARC Birthday Event, gharc.org
- 04/20/2017 | Apollo 16, 45th Anniversary Apr 20-Apr 23, 0000Z-2359Z, NN4SA**, Huntsville, AL. Marshall Space Flight Center ARC, NASA. QSL. We will be self spotting. Most activity will be non-duty hours during the evenings and weekend. Also look for us during local lunchtime. Send an S.A.S.E. to receive a paper QSL. Also on LOTW and QRZ. nn4sa.wordpress.com
- 04/22/2017 | 5th Annual Earth Day Celebration Apr 22, 1400Z-2000Z, W8PRC**, Parma, OH. Parma Radio Club. QSL. W8PRC, Contact us to celebrate Earth Day. We'll be operating solely on power from OI' Sol. www.parmaradioclub.com
- 04/22/2017 | Bayou Teche Black Bear Festival Apr 22, 1600Z-2200Z, W5BMC**, Franklin, LA. Bayouland Emergency Amateur Radio Service - BEARS. QSL. Downtown Franklin, La. on the banks of the Bayou Teche with vintage motor boats sailing up and down the bayou
- 04/22/2017 | Earth Day 2017 Apr 22, 1600Z-2200Z, N9E**, Clay City, IN. Clay County AUXCOM. Certificate. Clay County AUXCOM. Please send a business size SASE.
- 04/22/2017 | Feast of the Ramson Apr 22, 0000Z-2359Z, W8TFC**, Richwood, WV. The Family Center. Certificate. The Family Center W8TFC. Richwood's "Feast of the Ramson" has been described as "the granddaddy of ALL Appalachian Ramp Feeds. Ham operators at W8TFC will be monitoring the listed frequencies from 0001 - 2400, 22 April 2017. Certificates will be made available via e-mail. Follow website instructions. thefamilycenterofrichwoodwv.org
- 04/22/2017 | International Marconi Day Apr 22, 0000Z-2359Z, KM1CC**, Wellfleet, MA. Marconi Cape Cod Radio Club. QSL. KM1CC, Cape Cod National Seashore, Other historic Marconi Stations will also be on the air. www.facebook.com/KM1CC
- 04/22/2017 | Michigan State Police 100th Anniversary Apr 22-Apr 23, 0000Z-2359Z, WS8EOC**, Dimondale, MI. Michigan ARES. QSL. Send SASE for QSL ares-mi.org/MSP100.php
- 04/22/2017 | Republic of Texas International Boundary Marker Anniversary Apr 22, 1300Z-2300Z, WA5PC**, Carthage, TX. Panola County Amateur Radio Club. Certificate. PCARC, Celebrating 176 years in existence, this is the last marker known to exist. There were several

of these markers placed, separating the US from the Republic of Texas. The marker is made of granite and is 9" square by about 10' long. Three sides are engraved, providing all the necessary details: Meridian Boundary, Established A.D., 1840 (actually placed on April 23, 1841) on one side, and sides two and three simply say U.S. and R.T., just to make sure you knew which side you were on. We will be operating from the actual site of the marker.

04/22/2017 | W1BSA on the USS Massachusetts Apr 22, 1300Z-2100Z, W1BSA, Middleboro, MA. Massasoit Amateur Radio Association. QSL. W1BSA C/O Rick Emord, KB1TEE. www.w1mv.org

04/23/2017 | Order of the Arrow S4 Section Conference Apr 23, 1200Z-2000Z, W5APO, Saint Petersburg, FL. Uh-Tō-Yeh-Hut-Tee Lodge. QSL. gloucester136@gmail.com

04/25/2017 | 150th Anniversary of the Chisholm Trail Apr 25-Apr 30, 0000Z-2359Z, W5A / W5B / W5C / W5D / W5E / W5F / W5G. Various. Menasco Amateur Radio Club. All bands, all modes. QSL. QSL to , amateur, worked. Club KC5NX will be sponsoring this special event commemorating the 150th Anniversary of the Chisholm Trail that moved over 5,000,000 cattle thru Texas and Oklahoma to Abilene Kansas during the late 1800s. Seven stations will be set up along the original trail using the call signs W5A, W5B, W5C, W5D, W5E, W5F, and W5G. QSL address info is listed under W5C on QRZ.COM. Please QSL to the station worked with SASE.

<https://www.qrz.com/db/w5c>

04/28/2017 | City of Baton Rouge 200th Anniversary Apr 28-May 8, 0000Z-2359Z, N5B, Baton Rouge, LA. Baton Rouge Amateur Radio Club. QSL. BRARC. brarc.org

04/29/2017 | Russell Elementary's 19th Annual 27-hour Space Shuttle Mission Simulation Apr 29-May 5, 1600Z-1600Z, KM4RE, Mableton, GA. Russell Elementary Amateur Radio Club. QSL. KM4RE: Russell Elementary ARC. Recognizing the Russell Elementary School's 19th annual Space Shuttle Mission Simulation. Russell Elementary is located in Smyrna, GA. Students train all year for different positions in Mission Control or the Space Shuttle Simulator Intrepid and then put their skills to the test during a 27-hour simulated mission. You can learn much more about our school's space program at our program's website:

<http://russellroadrunners.typepad.com/space/> All radio operation, QSO logging, and QSL card design and processing for this special event is done by the elementary school students. We will operate intermittently to work around student schedules. 100% phone.

<https://www.qrz.com/db/km4re>

04/29/2017 | Samuel F. B. Morse Day Apr 29, 1400Z-2000Z, W2M, Poughkeepsie, NY. QSY SOCIETY. QSL. W2NTV@ARRL.NET or www.qrz.com/db/w2m

04/29/2017 | Samuel F. B. Morse Exhibition Apr 29, 1400Z-2000Z, N4M, Winston Salem, NC. Forsyth Amateur Radio Club. QSL. Forsyth Amateur Radio Club. The Forsyth Amateur Radio Club of Winston-Salem, NC, will sponsor Special Event Station, N4M, in celebration of the Reynolds House Museum of American Art's Exhibition - Samuel F.B. Morse's "Gallery of the Louvre" and the Art of Invention.

www.reynoldahouse.org/exhibitions/detail/samuel-fb-morses-gallery-of-the-louvre-and-the-art-of-invention or www.w4nc.com

WD6EBY / Pleasant Valley Repeater System Updates

10 March 2017

Good Morning All,

Yesterday we (Matt W6KGB and myself) went to Sulphur Mtn to perform some maintenance tasks. We had a very successful day and were able to accomplish all of the tasks we set had out.

First of the UHF repeater frequency was changed to 445.560 141.3. The previous channel had an uncoordinated repeater in operation that captured the Sulphur Mnt repeater in the Thousand Oaks area. We no longer have that issue.

Secondly we installed a remotely controlled RF switch on the 145.200 repeater to perform some antenna testing. Currently the main antenna for 145.200 is a Super Station Master 10db vertical antenna. I now have the ability to switch in a 3db vertical antenna to perform some differential testing. The 10db antenna may be to much gain for this location. I will be running tests between the two antennas to determine which setup provided for the best performance through the entire County.

And finally we discovered that the GaSFet Preamp in the 145.200 repeater had failed. Once this is repaired and reinstalled the receive performance should improve.

Thank you for your time.
Take care all.

Paul Strauss
WD6EBY
pgstrauss@verizon.net
805-484-2985 h

Camarillo Hills: 903 Ft, DM04gm
445.60 141.3 / 440.60 141.3 – operational – linked
2 Mtr Remote Base – available

Chatsworth Peak: 2,292 Ft, DM04gg
445.84 141.3 / 440.84 141.3 – operational – linked
145.24 127.3 / 144.64 127.3 – operational – linked

Sulphur Mtn: 2,651 Ft, DM04kj
445.56 141.3 / 440.56 141.3 – operational – linked New
Frequency March 2017
145.20 127.3 / 144.60 127.3 – operational – linked
2 Mtr Remote Base – available

Santa Ynez Peak: 4,300 Ft, DM04am
145.16 156.7 / 144.56 127.3 – operational low power – testing
standalone – will be linked

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Hello All,

Last week on Tuesday March 28, 2017 the team:

Rob Hanson W6RH Matt Lechliter W6KGB Bill Talanian W1UUQ Paul Strauss WD6EBY made the 12.5 hour round trip to Santa Barbara, Santa Ynez Peak (~4,300ft) to install the 145.16 /127.3 linked Repeater. The day was long, very windy and cold. Despite the harsh conditions the installation of the linked repeater was a success. This 145.16 (K6TZ) linked repeater system is a Co-op between Bill Talanian, W1UUQ (trustee of K6TZ) and Paul Strauss, WD6EBY. The addition of this interconnect repeater brings us one step closer to establishing the permanent Tri-County (ARRL-Santa Barbara Section, Ventura, Santa Barbara, San Luis Obispo Counties) communications network. This Tri-County network is intended to provide camaraderie with other Section Amateurs. Additionally this network will provide a means of communicating during times of disasters and Mutual Aid requests for Amateur resources and furthering our abilities to the agencies we serve.

Please Note:

Santa Ynez Peak is experiencing an intermittent high noise level, which at times makes it difficult to access the repeater even with a high power mobile or base station. An investigation is currently underway and the team is looking to resolve this noise issue shortly.

I want to thank Rob for braving the cold and high winds while performing the required tower work. Bill for providing the equipment for this installation and the management for this site. Matt for his RF technical expertise in construction of the repeater interconnect - trouble shooting, and for the programming of the controller. This was truly a team effort.

As of this email Starting today, this new repeater will be interconnected to the WD6EBY linked repeaters through a link from Sulphur Mtn. If you are within the coverage of SYP give it a try and let me know of any issues or concerns.

More information can be found at: www.pvarc.club

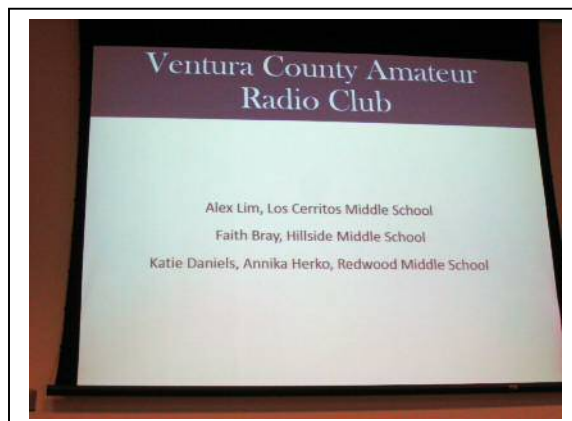
Thank you for your time.

Paul Strauss
WD6EBY



Ventura County Science Fair Results

For the second year the Ventura County Amateur Radio Club sponsored special awards at the Ventura County Science Fair. The Science Fair was held March 24 at the Ventura County Fairgrounds and hosted almost 700 projects. This year we awarded top honors to three projects in the category “Applications, Properties, or Effects of Electromagnetic Radiation.” The winners were the team of Katie Daniels and Annika Herko from Redwood Middle School, Thousand Oaks, for their project “The Effects of the Time of Day on the Sun’s Radio Frequencies Using an Itty Bitty Radio Telescope,” Alex Lim of Los Cerritos Middle School, Thousand Oaks, for “What Materials Amplify a WiFi Signal and What Materials Dampen a WiFi Signal?” and Faith Bray of Hillside Middle School, Simi Valley, for “Plasma Speakers and Wireless Energy.” Judges this year were Steve Noll (WA6EJO), Robert Brodie (KJ6AAE), Rob Byl (KD6UDA), Hovan Salibian (KI6BQL), Reese West (KQ6TT), Joe Krigbaum (K6NE), Allison McKowen (N6PEP), and Stephen Hudson (KI6BSQ).



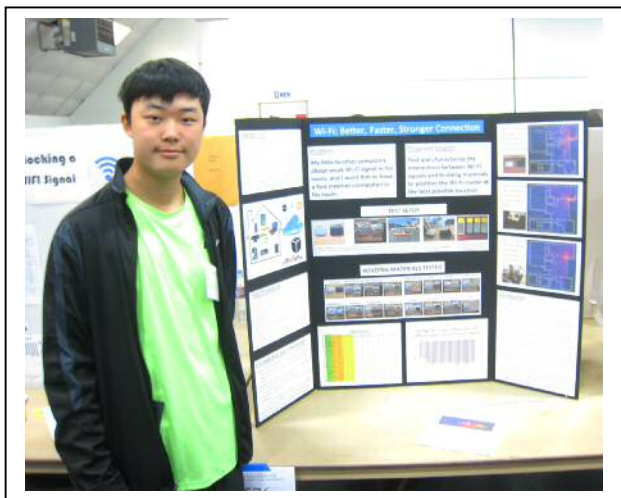
Steve Noll, WA6EJO



Annika Herko and Katie Daniels of Redwood Middle School



Awardees (L to R), Faith Bray, Joe K6NE, Alex Lim, Annika Herko, Katie Daniels. All photos by Steve Noll WA6EJO.



Alex Lim of Los Cerritos Middle School



Faith Bray of Hillside Middle School

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

04/01/2017 10:00 AM (Walk-ins allowed) Test 1st Saturday
Every Month Sponsor: AA6WC/Ali Hassan VEC:
ARRL/VEC Contact: Ali Hassan (323) 758-0565 Email:
aa6wc@prodigy.net Location: VE's Residence 6043
3rd Avenue Los Angeles CA 90043-2618

04/01/2017 Time: 11:00 AM (Walk-ins allowed) Sponsor:
ARES LAX VEC: [ARRL/VEC](http://www.arrl.org) 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

04/05/2017 Time: 7:30 PM (Walk-ins allowed) Sponsor:
Baldwin Hills ARC VEC: [ARRL/VEC](http://www.arrl.org) 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

04/08/2017 Time: 8:00 AM (No walk-ins) Sponsor: SMRA
Emergency Repeater Network VEC: [ARRL/VEC](http://www.arrl.org)
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.

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- 04/08/2017 Time:** 11:00 AM (Walk-ins allowed) **Sponsor:** ARES LAX **VEC:** [ARRL/VEC](#) **Contact:** James R. Stoker (310) 775-5613 **Email:** jstoker@it.ucla.edu **Location:** Huntington Hospital 100 W Colorado Blvd Pasadena CA 91105-3010 Wingate Bldg East conf. Room; Check in Booth E parking Lot www.arrllax.org (ed. Note – Huntington Hospital is 100 W CALIFORNIA)
- 04/08/2017 Time:** 7:00 AM (No walk-ins) **Sponsor:** PAPA **VEC:** [Greater LA VEC](#) **Contact:** Norman M. Goodkin (818) 222-7893 **Email:** hamclass@goodkin.net **Location:** Lulu's Restaurant 16900 Roscoe Blvd Van Nuys CA 91406-1101
- 04/08/2017 Time:** 9:00 AM (Walk-ins allowed) **Sponsor:** South Bay ARC **VEC:** [ARRL/VEC](#) **Contact:** Joseph M. Lanphen (310) 328-0817 **Email:** jlansphen@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
- 04/09/2017 Time:** 8:30 AM (Walk-ins allowed) **Sponsor:** Conejo Valley ARC **VEC:** [ARRL/VEC](#) **Contact:** Jeffrey M. Reinhardt (818) 706-3853 **Email:** jmreinhardt@sbcglobal.net **Location:** Ventura County Sheriff's E County Station, Community Room 2101 E Olsen Rd Thousand Oaks CA 91360-6861 Betw 23 Hwy & Reagan Library
- 04/15/2017 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
- 04/15/2017 Time:** 8:30 AM (Walk-ins allowed) **Sponsor:** Downey ARC **VEC:** [ARRL/VEC](#) **Contact:** Steve J. Grudzinski (951) 674-4699 **Email:** sgrudzinski1@verizon.net **Location:** Fire Station #1 12222 Paramount Blvd (1/2 Mile N Of Imperial Hwy) Downey CA 90242-3537
- 04/23/2017 Time:** 2:30 PM (No walk-ins) **Sponsor:** Goodkin Ham Radio Classes **VEC:** [Greater LA VEC](#) **Contact:** Norman M. Goodkin (818) 222-8793 **Email:** hamclass@goodkin.net **Location:** Agoura Hills / Calabasas Community Center 27040 Malibu Hills Rd Agoura Hills CA 91301-5332
- 04/28/2017 Time:** 7:00 PM (Walk-ins allowed) **Sponsor:** WA6IRC Radio club **VEC:** [ARRL/VEC](#) **Contact:** Mark G. Moore (818) 842-1786 **Email:** n6mgm@outlook.com **Location:** Millie's rest 16840 Vanowen St Van Nuys CA 91406-4539
- 04/29/2017 Time:** 10:00 AM (Walk-ins allowed) **Sponsor:** Crescent Bay VE Grp/W6TRW ARC **VEC:** [ARRL/VEC](#) **Contact:** Scott Swanson (310) 459-0337 **Email:** k6pyp@arri.net **Location:** Northrop Grumman *LAST EXAM AT THIS LOCATION!* 1 Space Park Blvd (Bldg S Cafeteria) Redondo Beach CA 90278-1001 Parking lot off Marine Blvd
- 04/30/2017 Time:** 3:00 PM (Walk-ins allowed) **Sponsor:** Cerritos ARC **VEC:** [ARRL/VEC](#) **Contact:** (562) 708-3893 **Location:** American Red Cross 3150 E 29th St Long Beach CA 90806-2319
- 04/30/2017 Time:** 7:30 AM (No walk-ins) **Sponsor:** Calabasas/LH Sheriff's Station **VEC:** [Greater LA VEC](#) **Contact:** Norman M. Goodkin (818) 222-7893 **Email:** hamclass@goodkin.net **Location:** Lost Hills Sheriff's Station (Assembly Room) 27050 Agoura Rd Agoura Hills CA 91301-5332
- 05/06/2017 Time:** 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
- 05/06/2017 Time:** 11:00 AM (Walk-ins allowed) **Sponsor:** ARES LAX **VEC:** [ARRL/VEC](#) **Contact:** James W. Laage (818) 368-8710 **Email:** cllaage@verizon.net **Location:** Valley Presbyterian Hospital (Health Education Center) 15107 Vanowen Street Van Nuys CA 91405-4542
- 05/09/2017 Time:** 8:30 AM (No walk-ins) **Sponsor:** Santa Barbara ARC **VEC:** [ARRL/VEC](#) **Contact:** Darryl Widman (805) 969-2326 **Email:** kf6di@sbarc.org **Location:** County Health Care Services 300 N San Antonio Road Santa Barbara CA 93110-1370 Southwest corner of bldg
- 05/13/2017 Time:** 7:00 AM (No walk-ins) Pre-Reg Required **Sponsor:** The PAPA System **VEC:** [Greater LA VEC](#) **Contact:** Norman M. Goodkin (818) 222-7893 **Email:** hamclass@goodkin.net **Location:** Dinah's Family Restaurant 6521 S Sepulveda Blvd Los Angeles CA 90045-1508
- 05/16/2017 Time:** 11:00 AM (Walk-ins allowed) **Sponsor:** ARES LAX **VEC:** [ARRL/VEC](#) **Contact:** James R. Stoker (310) 775-5613 **Email:** jstoker@it.ucla.edu **Location:** Huntington Hospital 100 W Colorado Blvd Pasadena CA 91105-3010 Wingate Bldg East conf. Room; Check in Booth E parking Lot www.arrllax.org (ed. Note – Huntington Hospital is 100 W CALIFORNIA)
- 05/20/2017 Time:** 8:00 AM (No walk-ins) **Sponsor:** Santa Clarita ARC **VEC:** [Greater LA VEC](#) **Contact:** Ronald B. Klein (661) 259-0948 **Email:** rklein46@roadrunner.com **Location:** Santa Clarita Valley Senior Center 22900 Market St Santa Clarita CA 91321-3608
- 05/26/2017 Time:** 7:00 PM (Walk-ins allowed) **Sponsor:** WA6IRC Radio club **VEC:** [ARRL/VEC](#) **Contact:** Mark G. Moore (818) 842-1786 **Email:** n6mgm@outlook.com **Location:** Millie's rest 16840 Vanowen St Van Nuys CA 91406-4539
- 05/27/2017 Time:** 10:00 AM (Walk-ins allowed) **Sponsor:** Crescent Bay VE Grp/W6TRW ARC **VEC:** [ARRL/VEC](#) **Contact:** Scott Swanson (310) 459-0337 **Email:** k6pyp@arri.net **Location:** Northrop Grumman 1 Space Park Blvd (Bldg S Cafeteria) Parking lot off Marine Blvd Redondo Beach CA 90278-1001
- 06/03/2017 Time:** 11:00 AM (Walk-ins allowed) **Sponsor:** ARES LAX **VEC:** [ARRL/VEC](#) **Contact:** James W. Laage (818) 368-8710 **Email:** cllaage@verizon.net **Location:** Valley Presbyterian Hospital (Health Education Center) 15107 Vanowen Street Van Nuys CA 91405-4542
- 06/07/2017 Time:** 7:30 PM (Walk-ins allowed) **Sponsor:** Baldwin Hills ARC **VEC:** [ARRL/VEC](#) **Contact:** Edward L. Walker (323) 394-1818 www.barc.us **Email:**

K6MEP Keyer April 2017

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

EDLWALKER@PACBELL.NET Location: Round Table Pizza 4330 Redondo Beach Blvd Torrance CA 90504-1031

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

06/10/2017 Time: 8:00 AM (No walk-ins) Sponsor: SMRA Emergency Repeater Network VEC: [ARRL/VEC](#) Contact: George W. Kreider (805) 754-2677 Email: kn6la@verizon.net 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.

06/16/2017 Time: 7:00 PM (Walk-ins allowed) Sponsor: WA6IRC Radio club VEC: [ARRL/VEC](#) Contact: Mark G. Moore (818) 842-1786 Email: n6mgm@outlook.com Location: Millie's rest 16840 Vanowen St Van Nuys CA 91406-4539

06/10/2017 Time: 11:00 AM (Walk-ins allowed) Sponsor: ARES LAX VEC: [ARRL/VEC](#) Contact: James R. Stoker (310) 775-5613 Email: jstoker@it.ucla.edu Location: Huntington Hospital 100 W Colorado Blvd Pasadena CA 91105-3010 Wingate Bldg East conf. Room; Check in Booth E parking Lot www.arllax.org (ed. Note – Huntington Hospital is 100 W CALIFORNIA)

06/17/2017 12:00 PM (Walk-ins allowed) Sponsor: Pine Mountain ARC VEC: [ARRL/VEC](#) Contact: Irene M. Smith-Quick (661) 242-1345 Email: irenequick@gmail.com Location: Frazier Park Library 3732 Park Dr

06/10/2017 Time: 7:00 AM (No walk-ins) Sponsor: PAPA VEC: [Greater LA VEC](#) Contact: Norman M. Goodkin (818) 222-7893 Email: hamclass@goodkin.net Location: Lulu's Restaurant 16900 Roscoe Blvd Van Nuys CA 91406-1101

06/17/2017 Time: 8:30 AM (Walk-ins allowed) Sponsor: Downey ARC VEC: [ARRL/VEC](#) Contact: Steve J. Grudzinski (951) 674-4699 Email: sgrudzinski1@verizon.net Location: Fire Station #1 12222 Paramount Blvd (1/2 Mile N Of Imperial Hwy) Downey CA 90242-3537

06/10/2017 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

06/24/2017 Time: 10:00 AM (Walk-ins allowed) Sponsor: Crescent Bay VE Grp/W6TRW ARC VEC: [ARRL/VEC](#) Contact: Scott Swanson (310) 459-0337 Email: k6pyp@arrl.net Location: Northrop Grumman 1 Space Park Blvd (Bldg S Cafeteria) Parking lot off Marine Blvd Redondo Beach CA 90278-1001

06/11/2017 Time: 8:30 AM (Walk-ins allowed) Sponsor: Conejo Valley ARC VEC: [ARRL/VEC](#) Contact: Jeffrey

06/24/2017 Time: 11:00 AM (Walk-ins allowed) Sponsor: ARES LAX VEC: [ARRL/VEC](#) Contact: James R. Stoker (310) 775-5613 Email: jstoker@it.ucla.edu Location: Huntington Hospital 100 W Colorado Blvd Pasadena CA 91105-3010 Wingate Bldg East conf. Room; Check in Booth E parking Lot www.arllax.org (ed. Note – Huntington Hospital is 100 W CALIFORNIA)

Trivia for April 2017

DID YOU KNOW?

1. China is the world's largest producer of iron ore ----- the USA is #7.
2. The average American has at least \$16,000. 00 in credit card debt.....[ewwwww](#)
3. As of 1/29/17 Texas has 61,290 broadcast towers.

de Dana kg6wx

Upcoming HamFests & Conventions

April Hamfest at DeVry

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

International DX Convention 2017

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

Military Radio Collectors Group 22nd Annual Event

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

CARA Hamfest

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

Prescott Hamfest at ERAU 2017

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

Southwestern Division Convention (HAMCON 2017)

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

HAMCON 2017 / The 2017 ARRL Southwestern Division Convention

"Ham Radio for Everyone"

September 15-17, 2017
Torrance Marriott Redondo Beach Hotel,
3635 Fashion Way
Torrance, CA 90503

"Ham Radio for Everyone" is our theme with much to see and do at HAMCON 2017:

- Full range of talks by experts on radio equipment, operating techniques, public service, DXing, technical subjects, and more
- 10,300 sq. ft. Vendor/Exhibitor Hall with 63 booth spaces
- Distinguished speakers at Saturday lunch, dinner, and Sunday breakfast
- Extensive prize drawings
- W1AW/6 Special Event station
- ARRL Forums
- Young Ham Forum
- Sunday Swap Meet
- Discounted hotel room rates (available through our Marriott link)
- Optional special tour of Battleship Iowa
- ...and much more.

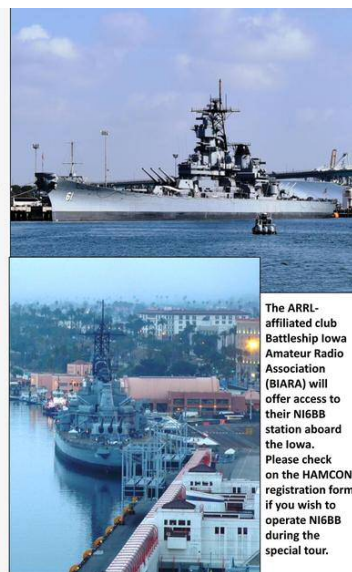
BATTLESHIP IOWA SPECIAL EVENT

A special visit to the Battleship Iowa at Los Angeles Harbor with buffet dinner in the Iowa's officers wardroom has been arranged for early-arriving HAMCON 2017 attendees on Friday afternoon, Sept. 15, 2017.

This all-inclusive \$50 per person package (limited to 80) covers discounted admission to board the Iowa, catered buffet dinner in the officers wardroom, and bus transportation between the Torrance Marriott Redondo Beach Hotel (leaving the hotel at 2:15 pm). Attendees will also be able to see the ship's radio room (not open to the general public) and operate the ship's N16BB amateur station.

Our bus transportation eliminates attendees having to pay for Los Angeles Harbor parking near the Iowa and provides a close-in drop-off point alongside the ship. Please note the Iowa is not ADA-compliant and accessing many areas requires using ladders.

One of just four battleships in its class, the USS Iowa served during World War II, the Korean War, and 1991 Persian Gulf operations. This historic ship also carried President Franklin D. Roosevelt to North Africa en-route to the 1943 Teheran Conference of allied leaders.



The ARRL-affiliated club Battleship Iowa Amateur Radio Association (BIARA) will offer access to their N16BB station aboard the Iowa. Please check on the HAMCON registration form if you wish to operate N16BB during the special tour.

K6MEP Net Script

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

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

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

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

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

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

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

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

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

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

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

“73, This is _____.”

K6MEP CALENDAR

April 2017

- 1: April Fool’s Day !**
- 10: Passover Starts**
- 14: Regular Monthly Club Meeting at 7:30pm.** K6MEP Board meeting precedes the club meeting at 7:00pm
- 16: Easter Sunday**
- 18: Passover Finishes**
- 17: Tax Day – Beware the Tax Man**
- 23: Aut2Run 5K/10K at CSUCI ARES Support;** contact Wayne W6OEU w6oeu@arrl.net

May 2017

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

June 2017

- 4: Westlake Love Run – ARES Support –** Contact Zak Cohen N6PK – n6pk@arrl.net
- 9: Regular Monthly Club Meeting at 7:30pm.** K6MEP Board meeting precedes the club meeting at 7:00pm
- 23-25: Join us for 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.

Treasurer _____ Secretary _____ Membership Chairman _____ Roster entry _____

Membership certificate _____ New member letter _____

Emergency and Volunteer Training

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

Scheduled Red Cross Classes

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

Red Cross Courses

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

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

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

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

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

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

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

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

- IS-5.a **An Introduction to Hazardous Materials** - (10/31/2013)
- IS-10.a **Animals in Disasters: Awareness and Preparedness** - (10/2/2015)
- IS-11.a **Animals in Disasters: Community Planning** - (10/2/2015)
- IS-15.b **Special Events Contingency Planning for Public Safety Agencies** - (10/31/2013)
- IS-20.16 **Diversity Awareness Course 2016** - (2/8/2016)
- IS-21.16 **Civil Rights and FEMA Disaster Assistance** - (1/4/2016)
- IS-26 **Guide to Points of Distribution** - (8/11/2010)
- IS-27 **Orientation to FEMA Logistics** - (10/31/2013)
- IS-29 **Public Information Officer Awareness** - (10/31/2013)
- IS-35.16 **FEMA Safety Orientation 2016** - (1/4/2016)
- IS-36 **Multi-hazard Planning for Childcare** - (10/31/2013)
- IS-42 **Social Media in Emergency Management** - (10/31/2013)
- IS-75 **Military Resources in Emergency Management** - (2/25/2011)
- IS-100.b **Introduction to Incident Command System, ICS-100** - (10/31/2013)
- IS-111.a **Livestock in Disasters** - (10/31/2013)
- IS-144 **Telecommunicators Emergency Response Taskforce (TERT) Basic Course** - (10/31/2013)
- IS-200.b **ICS for Single Resources and Initial Action Incidents** - (10/31/2013)
- IS-230.d **Fundamentals of Emergency Management** - (12/16/2013)
- IS-235.c **Emergency Planning** - (12/15/2015)
- IS-240.b **Leadership and Influence** - (6/16/2014)
- IS-241.b **Decision Making and Problem Solving** - (3/31/2014)
- IS-242.b **Effective Communication** - (3/31/2014)
- IS-244.b **Developing and Managing Volunteers** - (3/29/2013)
- IS-250.a **Emergency Support Function 15 (ESF15) External Affairs: A New Approach to Emergency Communication and Information Distribution** - (5/7/2012)
- IS-271.a **Anticipating Hazardous Weather & Community Risk, 2nd Edition** - (10/31/2013)
- IS-288.a **The Role of Voluntary Organizations in Emergency Management** - (2/12/2015)
- IS-315 **CERT Supplemental Training: The Incident Command System** - (8/13/2013)
- IS-317 **Introduction to Community Emergency Response Teams** - (6/26/2014)
- IS-320 **Wildfire Mitigation Basics for Mitigation Staff** - (10/31/2013)
- IS-322 **Flood Mitigation Basics for Mitigation Staff** - (10/31/2013)
- IS-323 **Earthquake Mitigation Basics for Mitigation Staff** - (10/31/2013)

- IS-325 **Earthquake Basics: Science, Risk, and Mitigation** - (10/31/2013)
- IS-326 **Community Tsunami Preparedness** - (10/31/2013)
- IS-366.a **Planning for the Needs of Children in Disasters** - (12/9/2015)
- IS-368 **Including People With Disabilities & Others With Access & Functional Needs in Disaster Operations** - (2/20/2014)
- IS-393.a **Introduction to Hazard Mitigation** - (10/31/2013)
- IS-405 **Overview of Mass Care/Emergency Assistance** - (12/10/2013)
- IS-454 **Fundamentals of Risk Management** - (10/31/2013)
- IS-546.a **Continuity of Operations Awareness Course** - (10/31/2013)
- IS-547.a **Introduction to Continuity of Operations** - (10/31/2013)
- IS-700.a **National Incident Management System (NIMS) An Introduction** - (10/31/2013)
- IS-775 **EOC Management and Operations** - (8/6/2008)
- IS-800.b **National Response Framework, An Introduction** - (10/31/2013)
- IS-815 **ABCs of Temporary Emergency Power** - (12/27/2016)
- IS-907 **Active Shooter: What You Can Do** - (12/28/2015)
- IS-909 **Community Preparedness: Implementing Simple Activities for Everyone** - (10/31/2013)
- IS-910.a **Emergency Management Preparedness Fundamentals** - (10/19/2012)
- IS-915 **Protecting Critical Infrastructure Against Insider Threats** - (7/10/2013)
- IS-916 **Critical Infrastructure Security: Theft and Diversion – What You Can Do** - (10/31/2013)
- IS-922 **Applications of GIS for Emergency Management** - (10/31/2013)
- IS-951 **DHS Radio Interoperability** - (9/22/2016)

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

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

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



ARES-ACS Frequency Updates

The Tuesday night Ventura County ARES/ACS Net is held on the SMRA ERN South Mt Repeater. Local nets are 7:00 to 7:30 PM; County Net starts at 7:30 on WD6EBY Sulphur Mt. Repeater 145.200 (-) PL 127.3 / 447.580 Mhz(-) PL 141.3

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

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

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

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

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

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

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

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

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

County-Wide – WD6EBY 145.200 (-) PL 127.3

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

Other Good Area Frequencies ...

AA6DP 147.090 Mhz (+) No PL Catalina

K0AKS 147.150 Mhz(-) PL127.3 TOaks

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

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

K6DCS DCS22 147.225 Mhz (+) PL 94.8 LA DCS

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

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

K6TZ 146.790 Mhz (-)PL131.8 SBARC

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

N6EVC 146.850 Mhz (-) PL 94.8 Rasnow

N6FDR 145.260 Mhz (-) PL 100.0 Malibu

W6AAX 147.180 Mhz (+) PL 186.2 Verdugo Peak

W6GRG 146.940 Mhz (-) PL 127.3 Simi DSW Repeater

W6YJO 145.180 Mhz (-) PL 131.8 Sta Ynez

WA6FGK 146.640 Mhz (-) PL 127.3 Simi Valley

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

WB6OBB 147.000 Mhz (+) PL 131.8 Sta Barbara

WD6EBY 145.420 MHz (-) PL 127.3 Chatsworth Pk

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@arrl.net

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

Area 3 Camarillo, Somis EC: Ted Lansing KI6PTX Email: ki6ptx@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

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.

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

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



**Local Area Radio Nets
Weekly Nets**

Monday

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

California Rescue ARES Net 7.25 Mhz MTWThF 8:30 AM

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

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

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

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

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

Tuesday

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

California Rescue ARES Net 7.250 Mhz MTWThF 8:30 AM

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

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

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

West SB ARES HF Net (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.mrcqwest.org/mrcq-radio-nets/

Sunday

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

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

Meeting Minutes (Cont fm pg 2)

NEW BUSINESS

GENERAL MEMBERSHIP MEETING

Steve WA6EJO announces the Radio Shack at Main and Ventura Ave. in Ventura is closing due to the bankruptcy, and closeout sale is in progress.

Presentation : By Reese KQ6TT.

Early radio, history of electro magnetic transmissiion. Discoveries of things like Edison Effect, Spark Gap transmitters, Coherers, Galena Detectors / Diode detection, and the development of amateur and commercial radio.

COMMENTS

Notes

Roll Call Total attendance : Guests: .

EXECUTIVE BOARD MEETING MINUTES

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

OFFICER ATTENDEES

CALL TO ORDER

Joe calls brief meeting

MEETING MINUTES

Joe had asked for any board issues

Bob KD6UDA reports on member total and current business calendar items. Form 990 and 199 will be filed before April.

Feb Minutes have been approved by unanimous vote.

Treasurers report on bank balances by John AG6GL.

No further board issues, meeting adjourned.

OLD BUSINESS

Repeater Coordination update. Joe K6NE reports the former N6VUY coordination is active with TASMA and K6MEP can not go on air with the existing frequency pair. The Request for Coordination was not accepted by TASMA with regard to K6MEP using the frequency pair.

Stewart KG6BOV was sent a letter from DX Engineering (as point of contact) that there is a free presentation via skype, probably for promotion of products. Action is for Stewart to find out if this is a infomercial, and if there is any incentive to the club for showing the presentation.

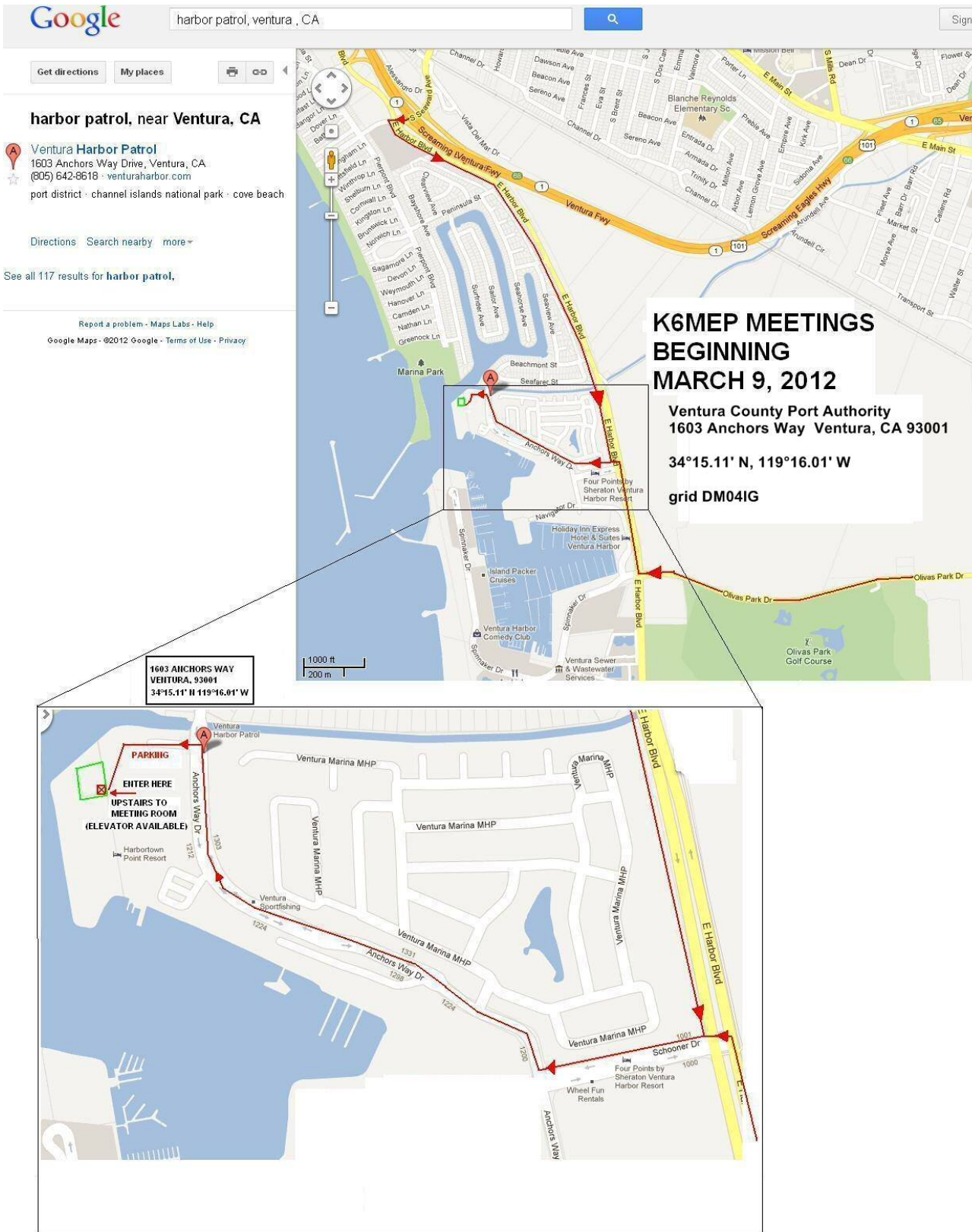
NEW BUSINESS

COMMENTS

ADJOURN

Board meeting adjourned and proceed to General meeting.

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



Three-Way Race Under Way for Southwestern Division Vice Director Slot



03/08/2017

A three-way race has shaped up to fill the ARRL Southwestern Division Vice Director's chair. The candidates are Edward J. "Ned" Stearns, AA7A, of Scottsdale, Arizona, who served in the position briefly more than 10 years ago; Lawrence "Grant" Hays, WB6OTS, of Sierra Vista, Arizona, and Frank Westphal, K6FW, of Chino, California. The ARRL Board Ethics and Elections Committee has reviewed the petitions received for all three candidates and certified them as eligible to run.

According to his candidate statement, Hays, an ARRL Life Member and a licensee for more than 50 years, has been active in the Amateur Radio Emergency Service (ARES), the National Traffic System (NTS), and the Radio Amateur Civil Emergency Service (RACES), as well as in Army MARS. He is a veteran CW, voice, and digital traffic handler and served as NTS Pacific Area Staff RN12 net manager and digital hub. He has taught licensing classes and is a Volunteer Examiner.

Stearns, a radio amateur for nearly 54 years, said in his candidate statement that he is a recently retired RF systems engineer who credits his Amateur Radio background for his career success. Stearns said he considers ARRL the best hope to maintain the Amateur Radio Service and access to its spectrum. He served as Southwestern Division Vice Director in 2005-2006. Since then he has given talks and demonstrations about Amateur Radio to clubs and groups.

In his candidate statement, Westphal, an ARRL Life Member, said he wants to give something back to Amateur Radio, which started him on his professional career managing the communications division of a public safety agency. He has been licensed since 1975 and has been active in MARS and RACES. He is a past president of the Tri-County Amateur Radio Association and has been an active Volunteer Examiner since the program began.

All ARRL members living in the Southwestern Division as of March 10 may vote and will receive ballots in the mail. Ballots will be mailed by April 1 and are due back at noon (ET) on May 19 and will be counted that day at ARRL Headquarters.

New FCC Chairman Declares First Phase of Pilot Transparency Project a Success



03/08/2017

New FCC Chairman Ajit Pai, just nominated for a second 5-year term on the FCC by President Donald Trump, is declaring the initial phase of his pilot program to increase the transparency of its rule making process a success. Pai announced the program in early February. It will, for the first time, make public the full text of documents circulated to the rest of the Commission for a vote at FCC open meetings. Under prior practice, such documents would have been kept under wraps until after the Commission voted on them.

"I'm pleased to report that the initial stage of the pilot project was a success!" Pai [said](#) in a March 2 blog post. "We received overwhelmingly positive feedback from the public."

As a result, he continued, the FCC would expand its pilot project by releasing the text of all six issued that the FCC will consider at its March open meeting. "Allowing anyone, anywhere to see these documents publicly is another step towards shedding more sunlight on the FCC's operations," Pai added.

Commenting on FCC process reform in 2014, the ARRL said, "The Commission's decision-making process must not only *be* fair, it must be *perceived* as fair."

While no Amateur Radio issues are up for consideration at the March 23 open meeting, the FCC will address a proposal to combat robocalls — the top source of consumer complaints to the FCC.

"These calls are not just a nuisance; they're often scams," Pai said. He pointed out that while rules already exist to prohibit such unwanted calls, "scofflaws are finding creative ways to avoid getting caught," Pai said. The FCC's [Robocall Strike Force](#), which has been working to come up with solutions, has singled out the issue of caller ID spoofing, which is designed to trick consumers into answering unwanted calls. "And under the FCC's current rules, which generally prevent call-blocking, there is not much that carriers can do to stop this," Pai said. He wants to give the Commission greater leeway to block spoofed robocalls.

In announcing his moves toward greater transparency, Pai thanked House Energy and Commerce Committee Chairman Greg Walden, W7EQI (R-OR); Rep. Adam Kinzinger (R-IL), and Sen. Dean Heller (R-NV) — the original

sponsors of the FCC Process Reform Act, the legislation including this change, which passed the House last week. Kinzinger is the sponsor of the Amateur Radio Parity Act of 2017 (H.R. 555).

Pai subsequently expanded on his process reform initiative, pledging to “share with every Commissioner’s office every item that will be considered at an open meeting before anyone in my office discusses the content of those items publicly or the FCC releases the text of those documents.” The FCC also will release one-page fact sheets summarizing each proceeding on the meeting agenda. Pai said the FCC would implement a suggestion from Commissioner Michael O’Rielly that called for a member of the Commission, rather than FCC staff, to propose any substantive edits made to an item between the time it is circulated and the meeting at which it is heard.

Pai’s first FCC term officially ended last June, but FCC rules allow him to stay until the end of 2017, even if he isn’t confirmed by the Senate for another term. The president named Pai as chairman earlier this year, an appointment that did not require Senate confirmation since he was a sitting Commissioner.

Cape Cod National Seashore to Host W1MGY Titanic Memorial Special Event

03/08/2017

Cape Cod National Seashore in Massachusetts has invited organizers of an Amateur Radio special event in April marking the 105th anniversary of the RMS *Titanic* disaster to set up at its [Salt Pond Visitor Center](#). The Titanic/Marconi Memorial Radio Association of Cape Cod — [W1MGY](#) — is sponsoring the worldwide commemoration to honor the approximately 1,500 passengers and crew who died when the *Titanic* — thought to be unsinkable — struck an iceberg and sank on its maiden voyage from England to the US. W1MGY operators have permission to operate from the national park for 3 days and 2 nights.

Sponsors point out that the 740 *Titanic* survivors were rescued by the *Carpathia* as a result of wireless messages sent from Marconi’s [Wellfleet Station](#), today preserved within Cape Cod National Seashore as its “Marconi Beach” site. Between April 13 and April 22, the national park will host commemorative events, including the special event, centering on the *Titanic* disaster and the evolution of wireless communication, culminating in the worldwide International Marconi Day. All *Titanic* events will be held at the Salt Pond Visitors Center in Eastham. Events are free and open to the public.

“We will operate from there on April 13, 14, and 15 until 0527 UTC, the time the *Titanic*’s last radio message was heard by the *Virginian*. The vessel foundered 20 minutes later,” said Barry Hutchinson, KB1TLR — the new trustee of W1MGY, which itself recalls the *Titanic*’s MGY call sign. W1MGY, which has been on the air for past *Titanic* on-the-air events, will transmit a message at the time the ship foundered.

For more than a decade, W1MGY special operations have marked *Titanic* anniversaries. ARRL Lab staffer Mike Gruber, W1MG, became W1MGY’s trustee in 2003, and he and others operated *Titanic* special events in April from the *Titanic* Museum in Indian Orchard, a part of Springfield, Massachusetts.

“These events were always very special to me personally,” Gruber said. “I’m thrilled to see someone with Barry’s experience and enthusiasm now making it happen at Cape Cod National Seashore.”

W1MGY will set up two stations staffed by about two dozen volunteers and operate on CW, SSB, and possibly PSK31. All operating will be done in the General class band segments. As starting points, Hutchinson suggested 3.950 MHz, 7.270 MHz, and 14.285 MHz, adding that band conditions would dictate whether they try 15 and 10 meters. W1MGY will be on the air for a public demonstration on April 15, from 9:30 AM until about 2 PM EDT, when the Cape Cod National Seashore will show the movie *Titanic* to close out the event.

Hutchinson said park visitor center staffers have been enthusiastic and very supportive of the event, and he hopes the park will be willing to host future *Titanic* events.

The park is a sponsor of the Marconi Cape Cod Radio Club [KM1CC](#). The Marconi Beach site, 6 miles north of the Salt Pond Visitor Center, features exhibits and displays of Marconi memorabilia, including a model of the old Marconi station near the site and a bust of Marconi.

“I expect W1MGY and KM1CC will partner for events in future Aprils, as the dates of the *Titanic* event are the beginning of the week of the annual International Marconi Day event that is very popular at the park,” said Barbara Dougan, N1NS, who is the current KM1CC trustee and a national park employee. “We average about 400 visitors to our operating location as well as make over 1000 on-the-air contacts.”



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The event will also feature stories of early marine wireless communication and a short film, *The Voice of Cape Cod*, which describes the building in 1901 of the Marconi Wireless Station in South Wellfleet and the first transatlantic transmission sent from the US to Europe on January 18, 1903.

On April 21, the longer film, *Rescue at Sea*, will be shown. It chronicles the collision of the Republic and the Florida off Nantucket in January 1909, and the role of Jack Binns, the Marconi radio man aboard the *Republic*, who stayed at his key as the ship was sinking. He became known as CQD Binns — the first hero of wireless, more than 1,500 passengers and crew were saved. In 1909 CQD was the Marconi signal used to call all ships in an emergency. Like the *Titanic*, the *Republic*, also hailed at the time as unsinkable, was owned by the White Star Line. Binns later turned down an offer to work on the *Titanic*.

On April 22, the Marconi Cape Cod Radio Club's KM1CC will take part in International Marconi Day on April 22 from the Nauset Coast Guard Station in Eastham, Massachusetts.

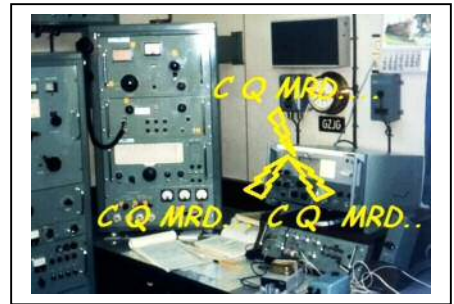
Maritime Radio Day Event Set for April

03/16/2017

Maritime Radio Day will take place in mid-April, with activity — all on CW — centering on International Naval Frequencies, 1,824; 3,520; 7,020; 10,118; 14,052; 21,052, and 28,052 kHz. Maritime Radio Day is held annually to commemorate nearly 100 years of CW maritime wireless service. [Register](#) online.

The event gets under way at 1200 UTC on April 14 and concludes at 2200 UTC on April 15. Participants exchange QSA (signal strength, 1-5), QRK (readability, 1-5), name, call sign of last or favorite ship/aircraft/maintenance company and “additionally a tr, msg and/or a QTC, if you like.” SWLs are welcome to take part. A newly designed certificate of participation will be available.

Submit logs by May 1 via [e-mail](#) to Rolf Marschner, DL9CM, or Narzissenweg 10, 53359 Rheinbach, Germany. —
Thanks to David Ring, N1EA



International Crystal Manufacturing Going Out of Business

03/10/2017

International Crystal Manufacturing ([ICM](#)) of Oklahoma City has announced that it will be going out of business, probably at the end of May. Royden Freeland Jr., W5EMH, son of the company's founder, posted a letter this week on the ICM website.

“We will be honoring all orders that we have already taken and will be able to fill a limited amount of new orders dependent upon raw materials available,” Freeland said. “We would like to thank you for your past business. The success of ICM over the previous 66 years has been largely due to its amazing customer base.”

International Crystal produces RF control devices — quartz crystals, oscillators, QCM crystals, filters, TCXOs/VCTCXOs, and precision crystals.

Royden R. Freeland Sr. founded International Crystal in 1950, at first operating out of his garage. One of his first contracts was to produce crystals for Collins Radio. The elder Freeland and his wife died in a 1978 air crash, and his son took over the company, which expanded into the production of other electronics in the 1980s.

In the 1990s, though, it sold off some of its equipment and distribution business to concentrate on its core enterprise — the manufacture of crystal and oscillator products.

The announcement caught some manufacturers off guard, and they are seeking to source the products they had been buying from ICM, one of the few remaining US-based manufacturer of crystal products. Radio amateurs requiring crystals for projects or as replacement parts for older equipment also will have to look elsewhere.

Ironically, International boasts on its website that it's “a proud supplier to RadioShack,” which, for the second time in 2 years, declared Chapter 11 bankruptcy this week.



ARRL Weighs In on New California 'Driving While Wireless' Statute



03/14/2017

ARRL is recommending that Amateur Radio be specifically excluded from a California statute prohibiting the use of “wireless communication devices” while driving. ARRL Southwestern Division Vice Director Marty Woll, N6VI, is taking point on the effort to revise the statute, known by its legislative bill number [AB 1785](#). It was signed into law last September, and it took effect on January 1, amending §23123.5 of the state’s Vehicle Code.

“ARRL has received a huge volume of inquiries and complaints about this statute in particular, since its enactment,” ARRL General Counsel Chris Imlay, W3KD, wrote in a letter to Woll to provide guidance in amending the California statute. “I would urge that you present this letter at any meetings you have with California State legislators on this topic, thus to bring the issues contained herein to their attention.”

Imlay pointed out that that the prior statute excluded Amateur Radio by definition. The new law, which completely replaced the earlier statute, never mentions Amateur Radio, but instead contains an open-ended definition of an “electronic wireless communications device,” the operation of which while driving is prohibited. According to the statute, this “includes, but is not limited to, a broadband personal communication device, a specialized mobile radio device, a handheld device or laptop computer with mobile data access, a pager, or a two-way messaging device.”

“Because of the ‘not limited to’ language, such a device is whatever a law enforcement officer thinks might be included, and an Amateur Radio operator is not at all protected,” Imlay wrote. Such a broad definition could stymie “even the most diligent law enforcement officers,” who might interpret the new Vehicle Code language “more broadly than was intended.”

Imlay noted that radio amateurs provide emergency and public service communications on a volunteer basis, and said the FCC encourages Amateur Radio licensees to assist during disasters and emergencies.

“Radio amateurs have regularly used mobile two-way radio systems for the past 70 years,” Imlay said. “The ARRL is aware of no evidence that such operation contributes to driver inattention,” he stressed. “Quite the contrary: Radio amateurs are public service-minded individuals who utilize their radio-equipped motor vehicles to assist others, and they are focused on driving in the execution of that function.”

Imlay also cited a 2009 letter to ARRL from the National Safety Council stating that there was no evidence using Amateur Radio while driving is a significant risk, and that there is “a reasonable basis for excluding Amateur Radio communications from the prohibitions on mobile telephone operation and mobile text messaging while operating a motor vehicle.”

Citing a 1994 Joint Resolution of Congress, Imlay pointed out that the policy of the United States is to encourage mobile Amateur Radio operation as a public benefit.

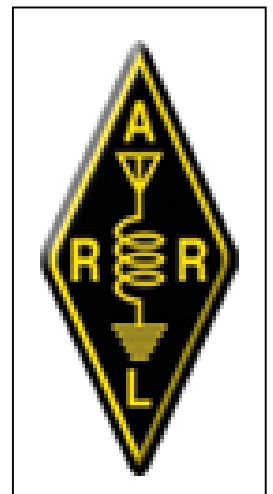
“Given the necessity of unrestricted mobile Amateur Radio communications in order for the benefits of Amateur Radio to the public to continue to be realized, ARRL urges California legislators to reconsider and amend AB 1785, either to more narrowly define the class of devices included in the prohibition...,” Imlay wrote. “Alternatively, a specific exemption for Amateur Radio operators would suffice...”

From the ARRL Southwestern Division e-Communicator

Here’s an update on California’s new hands-free driving law with a little background for reference.

The prior version of Vehicle Code Section 23123.5, while it contained no specific exemption for Amateur radio, effectively excluded Hams by virtue of the relatively narrow definitions of what that law covered. Assembly Bill 1785 was introduced in February 2016 by Hayward Assembly Member Bill Quirk, whose district lies in the Pacific Division. In its initial form, there was no adverse impact to Amateur Radio, as it applied only to reading, writing and sending text-based communications. Over the ensuing six months, however, the language was amended five times, with the end result being much broader in scope and including a prohibition of “specialized mobile radio device[s]” that were not hands-free. This opened the door to widely varying interpretations of what might fall under the umbrella of “specialized mobile radio device[s]”.

We were first alerted to this bill by San Diego Section Manager Dave Kaltenborn, N8KBC, in September, by which time it had been passed by both houses in its final form and was less than a week from being signed into law by the governor. Vice Director Woll tried direct outreach to Quirk’s office and to other potentially interested parties such as the California Trucking Association, but he



K6MEP Keyer April 2017

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

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received no responses. As this newsworthy change in the law began getting broadcast airtime, ARRL Division and Section officials started receiving many inquiries from concerned members. Woll contacted several of our local Volunteer Counsel attorneys, who did some research. In addition to getting the complete legislative history of the bill, we eventually obtained a statement from a staff member of the Assembly Transportation Committee that the intent was not to include Amateur Radio and the absence of some exclusionary language was an oversight. Meanwhile, private and public statements from members of both law enforcement and the judiciary were coming out with adverse interpretations for Amateur Radio, adding to the level of member consternation and validating our initial concerns.

State government officials will generally not engage in communication with voters outside their respective districts. An exception may be made, however, if the voter's own representative makes an "introduction". Now-retired Volunteer Counsel Len Shaffer, WA6QHD (Palmdale case attorney), requested and received such an introduction and was then able to schedule a meeting in Sacramento for himself and Vice Director Woll with Quirk's legislative deputy. That meeting took place on Tuesday, March 14, 2017, and future action looks promising.

Woll and Shaffer came armed with specific documentation of inconsistent interpretations, including names, dates and contact information, and the deputy appreciated this level of detail. She advised us that her office had already been approached by lobbyists for several non-Amateur interests which also saw the new law as a threat to mobile radio communications. Their proposed solutions, however, were industry-specific or employment-based, none of which would protect Amateur Radio. We discussed the kinds of public service work Hams do that would be adversely impacted without some form of exemption, and she agreed that broader exclusionary language would be more appropriate than individual carve-outs.

As to the mechanics, we suggested a letter from Quirk to the state government's Legislative Journal clarifying the legislative intent. That would provide more immediate defense for mobile radio users than would an amending bill, which is in the works (AB-1222) but would not take effect until 2018. She told us that such a letter is being developed and agreed to advise us when it is ready to go. We also suggested adding clarifying language to the Committee's omnibus bill. The deputy said they would consider doing so but that some procedural pitfalls could eliminate that route.

Finally, the California Highway Patrol is expected to disseminate guidance within a month or two. Through a Ham contact at the Los Angeles County Sheriff's office, Vice Director Woll had already received a preliminary version of that guidance. It states that using wired radio microphones would not be considered a violation but that using hand-held radios would be cause for a citation. If the final CHP guidance comes to a similar conclusion, it will be a less-than-perfect but, in our judgment, somewhat acceptable conclusion. The deputy also promised to advise us when that interpretation is issued in final form. Of course, CHP guidance will not filter down to all law enforcement agencies in the state, so citations by local police may still occur, and authoritative evidence of legislative intent will still be important for any Amateur who has to challenge a citation in court.

From the above, it appears that no grass-roots action is needed at this time. However, until and unless we receive authoritative guidance to the contrary, we advise against using handheld radios while driving unless they are equipped with external, corded microphones. As always, avoid any radio usage or other activity whenever you feel it detracts from your ability to control your vehicle fully or to maintain awareness of surrounding traffic.

ARRL Southwestern Division
Director: Richard J Norton, N6AA
n6aa@arrl.org

ARRL Executive Committee to Meet this Month in Denver



03/17/2017

The ARRL Executive Committee (EC) will meet on March 25 in Denver, Colorado, to tackle a wide-ranging [agenda](#). ARRL President Rick Roderick, K5UR, will chair the session.

The EC will hear a report on FCC and regulatory items. This includes a review of enforcement issues and concerns, as well as a status update on FCC-related items and filings and on open items that have not received any FCC action since the January Board of Directors meeting. One FCC-related matter that is likely to come up for discussion is the status of the ARRL *Petition for Rule Making* ([RM 11759](#)), to make changes in the 80/75-meter band. In addition, ARRL is still waiting for FCC to approve operational rules for the 2,200- and 630-meter bands or finalize the allocation of the 2,200-meter band.

The EC also is expected to receive an update on the ARRL's January 12 [Petition for Rule Making](#) to allocate a new, secondary amateur band in the vicinity of 5 MHz, while keeping four of the current five 60-meter channels and the 100 W

power limit. The FCC designated the League's *Petition* as [RM-11785](#); comments on the League's petition are due on March 20, and ARRL will file comments to bolster its assertions.

The report to the EC also will address noteworthy antenna and RF interference cases.

On the legislative front, the EC will get a status report on the Amateur Radio Parity Act of 2017 (H.R. 555). The bill has passed the US House, with Senate action still pending. The EC also will discuss the Amateur Radio implications of [H.R. 588](#), "Securing Access to Networks in Disasters Act." Introduced by New Jersey Democrat Frank Pallone Jr., this measure -- which already has received House approval -- would require the FCC to submit to Congress "a study on the public safety benefits, technical feasibility, and cost of providing the public with access to 9-1-1 services during times of emergency, when mobile service is unavailable" through open Wi-Fi access points and "other alternative means."

It would amend the Stafford Act to "expand the categories of essential service providers that may access a disaster site to restore and repair essential services in an emergency or major disaster without being denied or impeded by a federal agency."

The EC also will review the status of the Amateur Auxiliary Study Ad Hoc Committee. Meetings have been held with the FCC concerning more effective FCC use of the volunteer resources of the Amateur Auxiliary (Official Observers) program, the current FCC-ARRL Amateur Auxiliary Agreement, and the development of a new *Memorandum of Understanding* that better incorporates the Amateur Auxiliary program.

The Executive Committee is tasked by the ARRL Bylaws to address League matters between regular Board meetings.

NVIS Research Paper Available

03/23/2017

A thorough and fully annotated discussion of Near Vertical Incidence Skywave (NVIS) is available in the [research paper](#), "Radio Communication via Near Vertical Incidence Skywave Propagation: An Overview," by Ben A. Witvliet, PE5B/5R8DS, and Rosa Ma Alsina-Pagès.

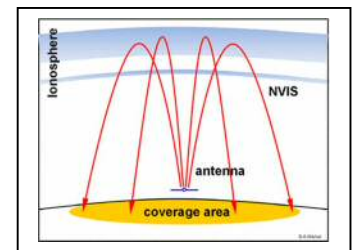
First investigated in the 1920s, NVIS propagation was rediscovered during World War II as "an essential means to establish communications in large war zones such as the D-Day invasion in Normandy," the paper notes, adding that the US Army subsequently sponsored a lot of NVIS field research, especially between 1966 and 1973. More recently, NVIS has become a popular means to enable close-in communication on Amateur Radio HF bands between 3 and 10 MHz. NVIS can be used for radio communication in a large area (200-kilometer radius) without any intermediate manmade infrastructure, and it has been found to be especially suited for disaster relief communication, among other applications, according to the paper.

"A comprehensive overview of NVIS research is given, covering propagation, antennas, diversity, modulation, and coding," the *Abstract* explains. "Both the bigger picture and the important details are given, as well as the relation between them." As the paper describes it, in NVIS propagation, electromagnetic waves are sent nearly vertically toward the ionosphere, and, with appropriate frequency selection, these waves are reflected back to Earth.

"The great reflection height of 80 to 350 kilometers results in a large footprint and homogeneous field strength across that footprint," the paper says. "Due to the steep radiation angles large objects such as mountain slopes or high buildings cannot block the radio path."

As for NVIS antennas, the paper stipulates that important parameters are antenna diagram, polarization, and bandwidth. "As only high elevation angles contribute to NVIS propagation, optimizing the antenna diagram for these elevation angles will increase the effectively transmitted power and improve the signal-to-interference ratio at reception."

<http://link.springer.com/article/10.1007/s11235-017-0287-2>



Amateur Radio Links Search for Amelia Earhart's Plane with ISS Crew, Classroom

03/23/2017

One of the enduring mysteries of the 20th Century was the disappearance in 1937 of famed aviator Amelia Earhart and her flight companion and navigator Fred Noonan, while she was attempting to circle the globe. It appeared that Earhart's plane went down in the South Pacific, in the vicinity of Howland Island; her last-known radio transmission came from there. On February 18, a team from [Nauticos](#) — with stratospheric explorer Alan Eustace and aviation pioneer Elgen Long, WF7T — departed Honolulu for the vicinity of Howland Island, some 1,600 miles to the southwest, to

complete the Eustace Earhart Discovery deep sea search for Earhart's lost Lockheed *Electra*. Nauticos provides ocean technology services to government, science and industry. The team now is conducting a sonar survey of about 1,800 square miles of sea floor where it's believed the aircraft may rest, and Amateur Radio has provided a means to link the crew of the research vessel *Mermaid Vigilance* with youngsters following the expedition, as well as with the International Space Station (ISS) crew.

Among those involved in the Earhart search is ARRL Midwest Division Director Rod Blocksome, K0DAS, of Iowa. Earhart was born and raised in Kansas and lived in Iowa and Minnesota. Bryan McCoy, KA0YSQ, of Iowa, also is on the *Mermaid Vigilance*, which is carrying out the deep-water sonar search for the lost aircraft. The team is using autonomous underwater technology provided by the [Woods Hole Oceanographic Institution](#) to image the ocean floor nearly 18,000 feet below. On March 17, the team launched the REMUS vehicle to search the depths of the Central Pacific.

On March 20, another Midwesterner — Tom Vinson, NY0V, of Minnesota — joined other crew members in [making contact](#) with US Astronaut and ISS Commander Shane Kimbrough, KE5HOD, who was at the controls of NA1SS aboard the ISS. A couple of Russian-speaking crew members also had the opportunity to speak with one of the cosmonauts onboard the ISS.

Earlier, on March 15, Vinson assumed Kimbrough's role to host a [question-and-answer session](#) of his own, with Virginia 5th graders in the classroom of teacher Kathy Lamont, KM4TAY, an alumna of ARRL's Teacher Institute. The contact was routed over 20 meters from the vessel to Hawaii, and then via *EchoLink* to Virginia. "My kids had a lot of fun," she recounted later. Vinson said that promoting science, technology, engineering, and mathematics (STEM) education "is what we're all about," with support from Rockwell-Collins.

According to [The Daily DX](#), Vinson has been on 7.027 and 7.165 MHz around 0600 UTC "and whenever I am up on the sunrise across the US." Blocksome will join him in Majuro, where they will operate April 5-7 using the V73 prefix with their home call signs.

ARRL Reiterates its Case for New Band at 5 MHz

03/21/2017

In comments filed on March 20 with the FCC on its own January *Petition for Rule Making* ([RM-11785](#)), ARRL reiterated its case for a contiguous secondary 15-kHz wide 60-meter band of 5,351.5 to 5,366.5 kHz in addition to the four existing discrete 60-meter channels that fall outside the requested band, with a permitted power level of 100 W EIRP and retention of current operating rules. More than 5 dozen comments, all supporting the proposed allocation, were filed on the League's petition, although some suggested more spectrum or higher power, or a combination. ARRL said, however, that it does not at this time favor any changes in its initial request for a new band. The League proposal would implement a portion of the *Final Acts* of World Radiocommunication Conference 2015 (WRC-15) that provided for a secondary international amateur allocation of 5,351.5 to 5,366.5 kHz at a maximum of 15 W EIRP.

"Each component of this proposal is intended to maximize spectral efficiency by permitting amateurs to operate throughout a band as conditions and availability warrant; to give primary service operations certainty as to where radio Amateurs will be located within the broader fixed and mobile service band between 5.250-5.450 MHz; and it protects those primary users with the same successful interference avoidance techniques and protocols that have been used for the past 15 years domestically, with which radio amateurs have the technical training and experience to comply," ARRL asserted in its comments.

The League said the WRC-15 power limit of 15 W EIRP "would render the band unsuitable for emergency communication, especially between the US mainland and the Caribbean Basin during summer storms and hurricane season, when atmospheric noise can be severe.

ARRL said there were good reasons for hewing to the proposal it initially crafted and filed with the FCC, most relating to the fact that the spectrum is shared with federal government users and radio amateurs must avoid interfering with them. The ARRL also pointed out that there is no "European Model" for 5 MHz, noting that the vast majority of European countries have held to the 15 kilohertz agreed to at WRC-15, and some even to the 15 W EIPR power limit. The National Telecommunications and Information Administration ([NTIA](#)), which regulates government spectrum, would have to sign off on any proposal, and, ARRL noted, it has twice expressed concern about a contiguous allocation at 5 MHz and did not favor the plan agreed to at WRC-15.

"While ARRL understands and agrees that there is a long-term, justifiable need for an allocation at 5 MHz that is larger than the 15 kHz made available at WRC-15, and there is a very practical need for power in excess of the 100 W PEP requested in ARRL's *Petition*, there are practical considerations inherent in the ARRL *Petition* that stem from an urgent



and ongoing need to share the Amateur allocation compatibly with other, primary users,” ARRL said. “The Amateur Service must, of necessity, avoid interference to the primary users of this band (which it has, to date) in order to be permitted to operate there.”

Citing its decades-long effort to obtain operating privileges in the vicinity of 5 MHz, ARRL said there’s “not really much room for debate about the size of the band and the power limit domestically at the present time, given the allocation status of the band (domestically and internationally) and the necessary interference protection requirements for primary users.”

“It is hoped that as regular Amateur operation in this contiguous band develops, with the operating parameters recommended in ARRL’s *Petition*,” the ARRL comments continued, “such operation will continue to demonstrate compatible sharing with federal and other users and the operating parameters and the band can be re-examined and adjusted equitably at a later time.”

ARRL said the most important thing is to have the FCC grant an allocation before offering initiatives to alter the plan it proposed in January. It urged the FCC to adopt the rule changes it’s proposed “at the earliest possible time, if at all possible in advance of the 2017 hurricane season.”

New Bands! FCC Issues Amateur Radio Service Rules for 630 Meters and 2,200 Meters



03/31/2017

[CORRECTED to UPDATE information on effective date: 2017-03-31 @ 1315 UTC]

It’s been a long time coming, but the Amateur Service will get two new bands in the near future. The FCC on March 28 adopted rules that will allow secondary Amateur Radio access to 472-479 kHz (630 meters) and to 135.7-137.8 kHz (2,200 meters), with minor conditions. The FCC *Report and Order* ([R&O](#)) spells out the details. It allocates 472-479 kHz to the Amateur Service on a secondary basis and amends Part 97 to provide for Amateur Service use of that band as well as of the previously allocated 135.7-137.8 kHz band. The *R&O* also amends Part 80 rules to authorize radio buoy operations in the 1900-2000 kHz band under a ship station license. Just when the new Part 97 rules will go into effect is difficult to determine just yet; more on that below.

“It’s a big win for the Amateur community and the ARRL,” ARRL CEO Tom Gallagher, NY2RF, said. “We are excited by the FCC’s action to authorize Amateur Radio access for the first time on the MF and LF spectrum. As amateurs begin using these new allocations in the next few weeks, we encourage the entire Amateur Radio community, as secondary users, to be especially attentive to the rules.”

It has not been an easy win, however. ARRL has been trying since the 1970s to convince the FCC to allow amateur access to parts of the spectrum below the Standard Broadcast Band. Through the Utilities Telecoms Council (UTC), electric power utilities have opposed Amateur Radio use of the MF and LF spectrum, raising unsubstantiated fears of interference to unlicensed Part 15 power line carrier (PLC) systems used to manage the power grid. The FCC said the Amateur Radio service rules it has adopted for 630 meters and 2,200 meters allow for co-existence with PLC systems that use the two bands.

Here are the highlights:

Amateurs operating on 472-479 kHz will be permitted a maximum equivalent isotropically radiated power (EIRP) of 5 W, except in parts of Alaska within 800 kilometers (approximately 496 miles) of Russia, where the maximum would be 1 W EIRP. [EIRP is the product of the power supplied to the antenna and the antenna gain in a given direction, relative to an isotropic antenna (absolute or isotropic gain). EIRP is equal to ERP multiplied by 1.64.]

Amateurs operating in the 135.7-137.8 kHz band will be permitted to run up to 1 W EIRP.

The FCC is requiring a 1-kilometer separation distance between radio amateurs using the two new bands and electric power transmission lines with PLC systems on those bands. Amateur Radio operators will have to notify the UTC of station location prior to commencing operations. The FCC Wireless Telecommunications Bureau will provide details on the notification process later, but ARRL is urging radio amateurs interested in operating on either band to register at the earliest opportunity, to avoid having to protect any “post-notification” PLCs.

The FCC placed a 60-meter (approximately 197 feet) above-ground-level (AGL) height limit on transmitting antennas used on 630 meters and 2,200 meters.

The bands would be available to General class and higher licensees, and permissible modes would include CW, RTTY, data, phone, and image. Automatically controlled stations would be permitted to operate in the bands.

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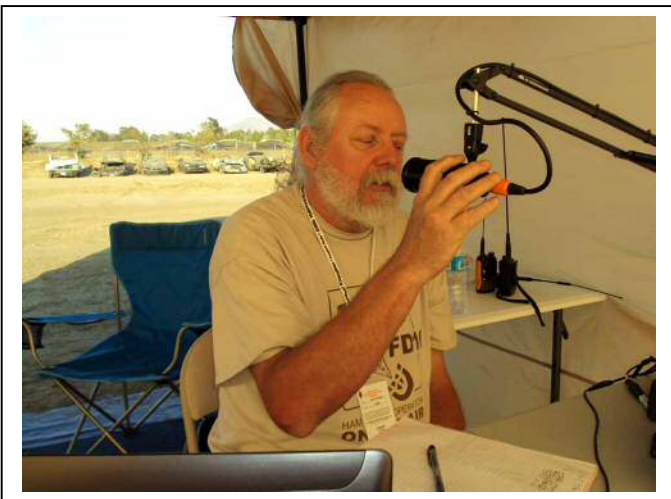
In an unrelated action, the FCC allocated 1,900-2,000 kHz to the maritime mobile service (MMS) on a primary basis for non-Federal use in ITU Regions 2 and 3, and limited the use of this allocation to radio buoys on the open sea and the Great Lakes.

“We are persuaded by ARRL’s comments to adopt final rules that are better tailored to the places where the commercial fishing fleet can make reasonable and productive use of radio buoys,” the FCC said.

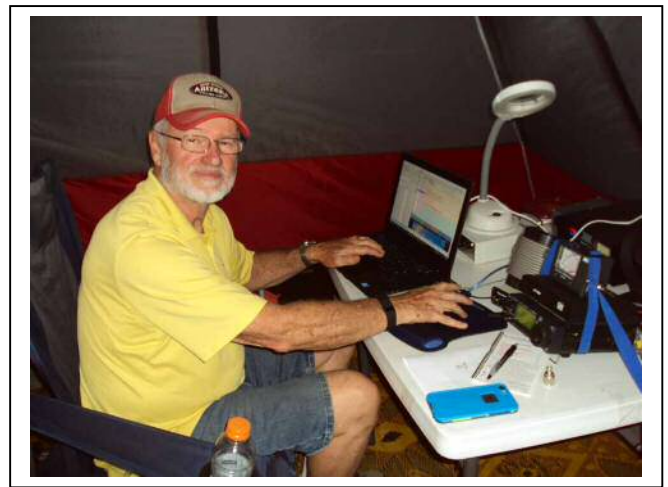
Amateur Radio was upgraded from secondary to primary in the 1900-2000 kHz segment in 2015. The FCC said it believes Amateur Radio and radio buoys “can continue to share this frequency band as they have done for many years.” It declined to make additional spectrum available for radio buoy use.

Effective Date

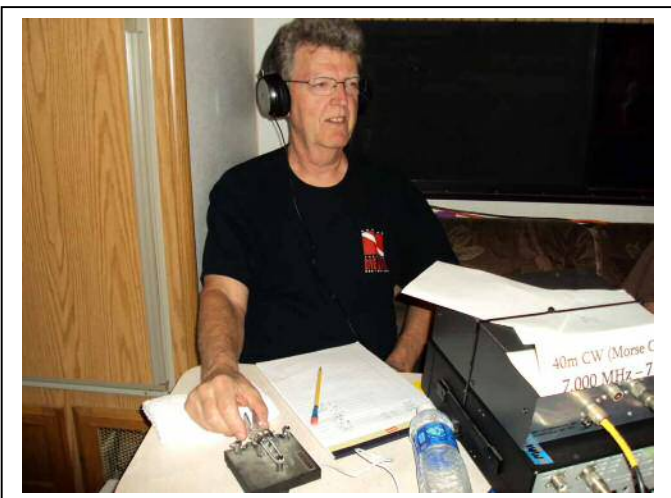
The fact that the new rules contain a new information-collection requirement — notification of operation to the UTC — makes it difficult to guess at an effective date. The FCC R&O says the Office of Management and Budget (under the Paperwork Reduction Act) must first approve the information-collection requirements (in §97.303[g][2]). Once that happens, the revised Part 97 rules sections will become effective after the FCC publishes a notice in *The Federal Register* “announcing such approval and the relevant effective date.”



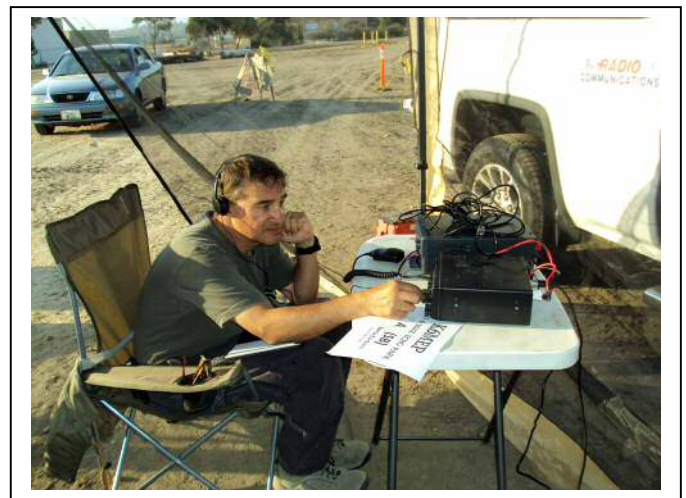
John AG6GL on 20M SSB, K6MEP FD 2016



Larry W6LVP on HF Digital, K6MEP FD 2016



Mark AE6GD on 40M CW, K6MEP FD 2016



Mark KI6YLH on 15M SSB, K6MEP FD 2016

K6MEP Keyer April 2017

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

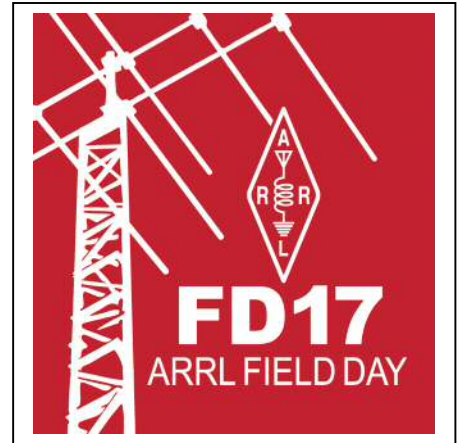
Field Day

June 24 – 25, 2017

Start: 1800 UTC Saturday

End 2100 UTC Sunday

Always the fourth full weekend in June



ARRL Field Day 2017 Rules

1. **Eligibility:** Field Day is open to all amateurs in the areas covered by the ARRL/RAC Field Organizations and countries within IARU Region 2. DX stations residing in other regions may be contacted for credit, and may submit entries as check-logs.
2. **Object:** To work as many stations as possible on any and all amateur bands (excluding the 60, 30, 17, and 12-meter bands) and in doing so to learn to operate in abnormal situations in less than optimal conditions. A premium is placed on developing skills to meet the challenges of emergency preparedness as well as to acquaint the general public with the capabilities of Amateur Radio.
3. **Date and Time Period:** Field Day is **always the fourth full weekend**, beginning at 1800 UTC Saturday and ending at 2100 UTC Sunday. **Field Day 2017 will be held June 24-25.**
 - 3.1. Class A and B (see below) stations that do not begin setting up until 1800 UTC on Saturday may operate the entire 27-hour Field Day period.
 - 3.2. Stations who begin setting up before 1800 UTC Saturday may work only 24 consecutive hours, commencing when on-the-air operations begin.
 - 3.3. No class A or B station may begin its set-up earlier than 0000 UTC on the Friday (Thursday afternoon or evening local time) preceding the Field Day period. Cumulative set-up time shall not exceed a total of 24 hours.
4. **Entry Categories:** 4. **Entry Categories:** Field Day entries are classified according to the maximum number of *simultaneously* transmitted signals, followed by a designator indicating the nature of their individual or group participation. The minimum number of transmitters that must be claimed is one (1). Twenty (20) transmitters maximum are eligible for the purpose of calculating bonus points (2,000 points maximum). However, additional transmitters which may legitimately be used simultaneously will determine your entry category classification, but will not earn additional bonus points (i.e. 22 transmitters = 22A). The use of switching systems that allow for lock-outs in order to use multiple transmitters (i.e., an “octopus”) in an attempt to enter a lower-number-of-transmitters class are prohibited (i.e. using 2 transmitters that can transmit simultaneously, with two operators, and a lock-out system and entering class 1A). The use of simulcasting devices which allow a single operator to key and transmit on more than one transmitter at a time, is prohibited. **Bonus stations, such as the GOTA station and satellite station do not count towards determining the number of transmitters for the class and do not qualify for transmitter bonus points.**
 - 4.1. **(Class A) Club / non-club portable:** Club or a non-club group of three or more persons set up specifically for Field Day. Such stations must be located in places that are not regular station locations and must not use facilities installed for permanent station use, or use any structure installed permanently for Field Day. A single licensee or trustee for the entry is responsible for the group entry. All equipment (including antennas) must lie within a circle whose diameter does not exceed 300 meters (1000 feet). To be listed as Class A, all contacts must be made with transmitter(s) and receiver(s) operating independent of commercial power mains. Entrants whom for any reason operate a transmitter or receiver from a commercial main for one or more contacts will be listed separately as Class A-Commercial.
 - 4.1.1. **Get-On-The-Air (GOTA) Station.** Any Class A (or F) entry whose transmitter classification is two or more transmitters may also operate one additional station without changing its base entry category, known as the

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GET-ON-THE-AIR (GOTA) station. **This GOTA station may operate on any Field Day band, HF or VHF, but is limited to one GOTA station transmitted signal at any time.**

- 4.1.1.1. This station **must use** a different callsign from the primary Field Day station. The GOTA station must use the same callsign for the duration of the event regardless if operators change. **The GOTA station uses the same exchange as its parent.**
- 4.1.1.2. **The GOTA station may be operated by any person licensed since the previous year's Field Day, regardless of license class. It may also be operated by a generally inactive licensee. Non-licensed persons may participate under the direct supervision of an appropriate control operator. A list of operators and participants must be included on the required summary sheet to ARRL HQ.**
- 4.1.1.3. **As per FCC rules, this station must have a valid control operator present at the control point if operating beyond the license privileges of the participant using the station.**
- 4.1.1.4. The maximum transmitter output power for the GOTA station shall be **150 watts**. If the primary Field Day group is claiming the QRP multiplier level of 5, the maximum transmitter output power of the GOTA station may not exceed 5 watts.
- 4.1.1.5. **A maximum of 500 QSOs made by this station may be claimed for credit by its primary Field Day operation. In addition, bonus points may be earned by this station under rule 7.3.13.**
- 4.1.1.6. **The GOTA station may operate on any Field Day band. Only one transmitted signal is allowed from the GOTA station at any time.**
- 4.1.1.7. The GOTA station does not affect the additional VHF/UHF station provided for under Field Day Rule 4.1.2. for Class A stations.
- 4.1.1.8. Participants are reminded that non-licensed participants working under the direction of a valid control operator may only communicate with other W/VE stations or with stations in countries with which the US has entered a third-party agreement.
- 4.1.1.9. The GOTA station does not qualify as an additional transmitter when determining the number of transmitters eligible for the 100-point emergency power bonus under Rule 7.3.1.

4.1.2. Free VHF Station: All Class A entries may also operate one additional transmitter if it operates exclusively on any band or combination of bands above 50 MHz (VHF/UHF) without changing its basic entry classification. This station does not qualify for a 100-point bonus as an additional transmitter. This station may be operated for the clubs Field Day period and all contacts count for QSO credit. It is operated using the primary callsign and exchange of the main Field Day group and is separate and distinct from the GOTA station.

4.2. (Class A - Battery) Club / non-club portable: Club or non-club group of three or more persons set up specifically for Field Day. All contacts must be made using an output power of 5 Watts or less **and** the power source must be something other than commercial power mains or motor-driven generator (e.g.: batteries, solar cells, water-driven generator). Other provisions are the same for regular Class A. Class AB is eligible for a GOTA station if GOTA requirements are met; however if a GOTA station is used in this class it must meet the 5-Watt or less power requirement of this category.

4.3. (Class B) One or two person portable: A Field Day station set up and operated by no more than two persons. Other provisions are the same for Class A except it is not eligible for a GOTA or free VHF station. One and two person Class B entries will be listed separately.

4.4. (Class B - Battery) One or two person portable: A Field Day station set up and operated by no more than two persons. All contacts must be made using an output power of 5 Watts or less **and** the power source must be something other than commercial mains or motor-driven generator. Other provisions are the same for Class A

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except it is not eligible for a GOTA or free VHF station. One and two person Class B - Battery entries will be listed separately.

4.5. (Class C) Mobile: Stations in vehicles capable of operating while in motion and normally operated in this manner. This includes maritime and aeronautical mobile. If the Class C station is being powered from a car battery or alternator, it qualifies for emergency power but does not qualify for the multiplier of 5, as the alternator/battery system constitutes a motor-driven generating system.

4.6. (Class D) Home stations: Stations operating from permanent or licensed station locations using commercial power. Class D stations may only count contacts made with Class A, B, C, E and F Field Day stations.

4.7. (Class E) Home stations - Emergency power: Same as Class D, but using emergency power for transmitters and receivers. Class E may work all Field Day stations.

4.8. (Class F) Emergency Operations Centers (EOC): An amateur radio station at an established EOC activated by a club or non-club group. Class F operation must take place at an established EOC site. Stations may utilize equipment and antennas temporarily or permanently installed at the EOC for the event. Entries will be reported according to number of transmitters in simultaneous operation. Class F stations are eligible for a free VHF station. At Class 2F they are also eligible for a GOTA station.

4.8.1. For Field Day purposes, an Emergency Operations Center (EOC) is defined as a facility established by:

- a) a Federal, State, County, City or other Civil Government, agency or administrative entity; or,
- b) a Chapter of a national or international served agency (such as American Red Cross or Salvation Army) with which your local group has an established operating arrangement;

4.8.1.1. A private company EOC does not qualify for Class F status unless approved by the ARRL Field Day Manager.

4.8.2. Planning of a Class F operation must take place in conjunction and cooperation with the staff of the EOC being activated.

4.8.3. Other provisions not covered are the same as Class A.

4.8.4. A Class F station may claim the emergency power bonus if emergency power is available at the EOC site.

4.8.4.1. The emergency power source must be tested during the Field Day period but you are not required to run the Class F operation under emergency power.

5. Exchange: Stations in ARRL / RAC sections will exchange their Field Day operating Class and ARRL / RAC section. Example: a three transmitter class A station in Connecticut which also has a GOTA station and the extra VHF station would send "3A CT" on CW or "3 Alpha Connecticut" on Phone. DX stations send operating class and the term DX (i.e. 2A DX).

6. Miscellaneous Rules:

6.1. A person may not contact for QSO credit any station from which they also participate.

6.2. A transmitter/receiver/transceiver used to contact one or more Field Day stations may not subsequently be used under any other callsign to participate in Field Day. Family stations are exempt provided the subsequent callsign used is issued to and used by a different family member.

6.3. Phone, CW and Digital (non-CW) modes on a band are considered as separate bands. A station may be worked only once per band under this rule.

6.4. All voice contacts are equivalent.

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- 6.5. All non-CW digital contacts are equivalent.
 - 6.6. Cross-band contacts are not permitted (Satellite QSOs cross-band contacts are exempted).
 - 6.7. The use of more than one transmitter at the same time on a single band-mode is prohibited. Exception: a dedicated GOTA station may operate as prescribed in Rule 4.1.
 - 6.8. No repeater contacts are allowed.
 - 6.9. Batteries may be charged while in use. Except for Class D stations, the batteries must be charged from a power source other than commercial power mains. To claim the power multiplier of five, the batteries must be charged from something other than a motor driven generator or commercial mains.
 - 6.10. All stations for a single entry must be operated under one callsign, except when a dedicated GOTA station is operated as provided under Field Day Rule 4.1.1. it uses a single, separate callsign.
7. **Scoring:** Scores are based on the total number of QSO points times the power multiplier corresponding to the highest power level under which any contact was made during the Field Day period plus the bonus points.

7.1. QSO Points:

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

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

- 7.2.1. If all contacts are made using a power of 5 Watts or less **and** if a power source other than commercial mains or motor-driven generator is used (batteries, solar cells, water-driven generator), the power multiplier is 5 (five).
- 7.2.2. If all contacts are made using a power of 5 Watts or less, but the power source is from a commercial main or from a motor-driven generator, the power multiplier is 2. If batteries are charged during the Field Day period using commercial mains or a motor-driven generator the power multiplier is 2 (two).
- 7.2.3. If any or all contacts are made using an output power up to 150 Watts or less, the power multiplier is 2 (two).
- 7.2.4. If any or all contacts are made using an output power greater than 150 Watts, the power multiplier is 1 (one).
- 7.2.5. The power multiplier for an entry is determined by the maximum output power used by any transmitter used to complete any contact during the event. (Example: a group has one QRP station running 3 Watts and a second station running 100 Watts, the power multiplier of 2 applies to all contacts made by the entire operation).

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

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

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

- 7.3.2. Media Publicity:** 100 bonus points may be earned for attempting to obtain publicity from the local media. A copy of the press release, or a copy of the actual media publicity received (newspaper article, etc.) must be submitted to claim the points. **Available to all Classes.**
- 7.3.3. Public Location:** 100 bonus points for physically locating the Field Day operation in a public place (i.e. shopping center, park, school campus, etc). The intent is for amateur radio to be on display to the public. **Available to Classes A, B and F.**
- 7.3.4. Public Information Table:** 100 bonus points for a Public Information Table at the Field Day site. The purpose is to make appropriate handouts and information available to the visiting public at the site. A copy of a visitor's log, copies of club handouts or photos is sufficient evidence for claiming this bonus. **Available to Classes A, B and F.**
- 7.3.5. Message Origination to Section Manager:** 100 bonus points for origination of a formal message to the ARRL Section Manager or Section Emergency Coordinator by your group from its site. You should include the club name, number of participants, Field Day location, and number of ARES operators involved with your station. **The message must be transmitted during the Field Day period and a copy of it must be included in your submission in standard ARRL radiogram or no credit will be given. The message must leave or enter the Field Day operation via amateur radio RF.** The Section Manager message is separate from the messages handled in Rule 7.3.6. and may not be claimed for bonus points under that rule. **Available to all Classes.**
- 7.3.6. Message Handling: 10 points for each formal message originated, relayed or received and delivered during the Field Day period, up to a maximum of 100 points (ten messages). Copies of each message must be included with the Field Day report. The message to the ARRL SM or SEC under Rule 7.3.5. does not count towards the total of 10 for this bonus. Available to all Classes. All messages claimed for bonus points must leave or enter the Field Day operation via amateur radio RF.**
- 7.3.7. Satellite QSO:** 100 bonus points for successfully completing at least one QSO via an amateur radio satellite during the Field Day period. "General Rules for All ARRL Contests" (Rule 3.7.2.), (the no-repeater QSO stipulation) is waived for satellite QSOs. Groups are allowed one dedicated satellite transmitter station without increasing their entry category. Satellite QSOs also count for regular QSO credit. Show them listed separately on the summary sheet as a separate "band." You do not receive an additional bonus for contacting different satellites, though the additional QSOs may be counted for QSO credit unless prohibited under Rule 7.3.7.1. The QSO must be between two Earth stations through a satellite. **Available to Classes A, B, and F.**
- 7.3.7.1 Stations are limited to one (1) completed QSO on any single channel FM satellite.
- 7.3.8. Alternate Power:** 100 bonus points for Field Day groups making a minimum of five QSOs without using power from commercial mains or petroleum driven generator. This means an "alternate" energy source of power, such as solar, wind, methane or water. This includes batteries charged by natural means (not dry cells). The natural power transmitter counts as an additional transmitter. If you do not wish to increase your operating category, you should take one of your other transmitters off the air while the natural power transmitter is in operation. A separate list of natural power QSOs should be submitted with your entry. **Available to Classes A, B, E, and F.**
- 7.3.9. W1AW Bulletin:** 100 bonus points for copying the special Field Day bulletin transmitted by W1AW (or K6KPH) during its operating schedule during the Field Day weekend (listed in this rules announcement). An accurate copy of the message is required to be included in your Field Day submission. (Note: The Field Day bulletin must be copied via amateur radio. It will not be included in Internet bulletins sent out from Headquarters and will not be posted to Internet BBS sites.) **Available to all Classes.**

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7.3.10. Educational activity bonus: One (1) 100-point bonus may be claimed if your Field Day operation includes a specific educational-related activity. The activity can be diverse and must be related to amateur radio. It must be some type of formal activity. It can be repeated during the Field Day period but only one bonus is earned. For more information consult the FAQ in the complete Field Day packet. **Available to Classes A & F entries and available clubs or groups operating from a club station in class D and E with 3 or more participants.**

7.3.11. Site Visitation by an elected governmental official: One (1) 100-point bonus may be claimed if your Field Day site is visited by an elected government official as the result of an invitation issued by your group. **Available to all Classes.**

7.3.12. Site Visitation by a representative of an agency: One (1) 100-point bonus may be claimed if your Field Day site is visited by a representative of an agency served by ARES in your local community (American Red Cross, Salvation Army, local Emergency Management, law enforcement, etc.) as the result of an invitation issued by your group. ARRL officials (SM, SEC, DEC, EC, etc) do not qualify for this bonus. **Available to all Classes.**

7.3.13. GOTA Bonus. Class A and F stations operating a GOTA station may earn the following bonus points:

7.3.13.1. When a GOTA operator successfully completes 20 QSOs, they receive 20 bonus points. Upon reaching an additional 20 QSOs the same operator receives a second 20 bonus points, up to a maximum of 100 Bonus points per GOTA operator. An operator may make more than 100 QSOs but the QSOs over 100 do not qualify for an additional bonus.

7.3.13.1.1. Additional GOTA operators may earn the GOTA bonus points under this rule, up to the maximum of 500 bonus points. (Remember that there is a 500-QSO limit for the GOTA station. But no single GOTA operator may earn more than 100 of the GOTA bonus points except as provided in 7.3.13.2.)

7.3.13.1.2. A single GOTA operator must complete all 20 QSOs required before the bonus is earned. There is no “partial credit” for making only a portion of the 20 QSOs or “pooling” QSOs between operators.

7.3.13.2. If a GOTA station is supervised full-time by a GOTA Coach, the bonus points earned for each 20 QSOs completed under Rule 7.3.13.1. will be doubled.

7.3.13.2.1. The GOTA Coach supervises the operator of the station, doing such things as answering questions and talking them through contacts, but may not make QSOs or perform logging functions.

7.3.13.2.2. To qualify for this bonus, there must be a designated GOTA Coach present and supervising the GOTA station at all times it is being operated.

7.3.14. Web submission: A 50-point bonus may be claimed by a group submitting their Field Day entry via the www.b4h.net/cabforms 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 25, 2016. Late entries cannot be accepted.

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

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

8.3.2. Supporting information must be emailed to fieldday@arrl.org or submitted by land service. Supporting information must include:

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

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

8.4. A complete non-applet email submission consists of:

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

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

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

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

8.5.1. A complete and accurate ARRL summary sheet;

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

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

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

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

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

8.9. Electronic submissions are considered signed when submitted.

9. Miscellaneous:

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

9.2. See "General Rules for All ARRL Contests," "General Rules for All ARRL Contests on Bands Below 30 MHz," and "General Rules for All ARRL Contests on Bands Above 50 MHz" for additional rules (www.arrl.org/contest-rules) 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: January 2017)



Hovan KI6BQL on 40M SSB K6MEP FD 2016