

March 2019

The **KEYER**

K6MEP

Ventura County Amateur Radio Club

Year 83 Issue 3



The Ventura County Amateur Radio Club, K6MEP will meet at 7:30 PM on Friday the 8th of March 2019 at historic Dudley House 197 N. Ashwood, Ventura 93003, at the corner of Loma Vista and Ashwood; 34d 16m 13.67s N 119d 14m 43.24s W; Grid square DM04jg; see map pg 18. Board Meeting precedes the General Meeting. Program is John Kitchens NS6X, ARRL Santa Barbara Section Manager



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K6MEP KEYER -- The VCARC Journal

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

Ventura County Amateur Radio Club 2019 Officers and Chairs

President	Robert Shank	KM6RSS (303) 981-5956
Vice-President	Richard Abbey	WB6AEW (805) 947-7077
Secretary	Phil Cohen	WA6BUZ
Treasurer	John Gartman	W6JPG
Board Member	Stewart Stone	KG6BOV kg6bov@arrl.net
Board Member	Rod Austin	KA6GSU (805) 983-7141
Board Member	Steve Noll	WA6EJO
Photographer	Stewart Stone	KG6BOV kg6bov@arrl.net
Facilities Mgr.	Richard Abbey	WB6AEW (805) 947-7077
ARRL Liaison	Chris Dimond	KJ6QOP
Editor/ Publisher	Stewart Stone	KG6BOV (805) 488-7388
Prize Chairman	VACANT - An Opportunity to serve your club	
PR chairman	Dana Wentling	KG6WXE
Awards Mgr.	VACANT - An Opportunity to serve your club	
Programs Chair	Steve Noll	WA6EJO
Webmaster	Robert Shank	KM6RSS (303) 981-5956
New Members	Bob Brodie	KJ6AAE
QSL Manager		
License Trustee	Stewart Stone	KG6BOV kg6bov@arrl.net
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
Dues are \$20 per year.

Message from the President

The Prez Sez,

March comes from the word "Martius", the first month of the Roman calendar and named after the Roman god of war. We have many activities occurring this month as well as many opportunities. The poem I selected comes from Night An'Fey, "Transformation of Energy", which speaks to the vernal equinox of. March 20th. It also reminds me of the transformational powers in the wax and wood in Steve's antenna propagation phenomenon presentation.

"Equal dark, equal light
Flow in Circle, deep insight
Blessed Be, Blessed Be
The transformation of energy!
So it flows, out it goes
Three-fold back it shall be
Blessed Be, Blessed Be
The transformation of energy!"

Looking backward: At our February 8th's club meeting, we had thirty-two members which included five guests. One of the guests, Roger Poirier, is Oxnard's chair of parks and recreation who attended the meeting to specifically hear about our Field Day requirements. Denney N6HV presented a Field Day update including photos of potential locations, with support from Clem KM6OKZ and Stewart KG6BOV. Roger suggested additional Field Day venues and all members were asked to assist with evaluating the many locations that may be available.

See the evaluation sheet at <https://groups.io/g/K6MEP>

(Cont pg 5)

Secretary's Column and Meeting Minutes

Ventura County Amateur Radio Club Inc. Club Meeting
Meeting Date : 2/8/19

GENERAL MEMBERSHIP MEETING MINUTES

MEETING ADDRESS : Dudley Historical House, Ventura

ATTENDANCE: Listed on Roll Check-In Sheet

CALL TO ORDER 19:30

ANNOUNCEMENTS

MEETING MINUTES

Open meeting with Pledge of Allegiance

Introductions.

OLD BUSINESS

Review of Field Day actions from November, two locations still need more research, A team was formed consisting of Clement, Dana and Denny. They will research Mandalay and Collections location and report back.

Denny gave information on field day, history and possible 4 locations

Discussion on filters for Field Day use. Tabled for now

(Cont pg 16)

Selected March Contests & Special Events

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

03/01/2019 | The Battleship Texas 105th Birthday Mar 1-Mar 14, 0000Z-0000Z, W5T, Cleburne, TX. Club KC5NX. 14.225 14.045 7.225 7.045. QSL. CLUB KC5NX, 9200 Summit Court West, Cleburne, TX 76033. Club KC5NX is back on the air this year to help celebrate the 105th birthday of our Grand Lady, The Battleship Texas...really neat QSL card, special freq / time request honored, whatever... We'll be on the air !! SASE requested. 73. club.kc5nx@gmail.com <https://www.qrz.com/db/kc5nx>

03/02/2019 | Eastern Sierra Early Trout Opener Mar 2, 1300Z-2000Z, W4T, Lone Pine, CA. Bishop Amateur Radio Club. 7.250 14.250. QSL. Keith Franson, PO Box 125, Lone Pine, CA 93545. w6krf73@gmail.com

03/08/2019 | The American Legion's 100th Birthday celebration Mar 8-Mar 10, 1800Z-2359Z, K9TAL, Indianapolis, IN. The American Legion Amateur Radio Club. 14.275 7.225; *CrossRds* EchoLink Conference; IRLP Reflector 9735. Certificate & QSL. The American Legion National Headquarters, P.O. Box 1055, Attn: TALARC, Indianapolis, IN 46206. k9tal@legion.org or www.legion.org/hamradio

03/09/2019 | Commemorating the Empire Ranch Mar 9, 1600Z-2000Z, K7T, Sonoita, AZ. Oro Valley Amateur Radio Club. CW: 7.040, 14.040; SSB: 7.200, 14.250; FT8: 14.074, 18.100. Certificate. Email request, to, qsl@tucsonhamradio.org . Spots: DXSummit.fi . Email requests for PDF certificate to qsl@tucsonhamradio.org . Please, no paper QSL's. www.tucsonhamradio.org

03/09/2019 | USS Midway Museum Ship Special Event: Launching of USS Midway Mar 9, 1700Z-2359Z, NI6IW, San Diego, CA. USS Midway (CV-41) Museum Ship. 14.320 7.250; PSK31 on 14.070. QSL. USS Midway

(CV-41) COMEDTRA, 910 N. Harbor Dr., San Diego, CA 92101.

03/09/2019 | Winter Field Day Mar 9-Mar 17, 1300Z-2100Z, W2B, Clay, NY. Bear Bait Radio Club. 14.235 14.070 7.070 3.235. QSL. Bear Bait Radio Club, 4483 Route 31, Clay, NY 13090. bearbaitradioclub.com

03/23/2019 | 205th anniversary of the Battle of Horseshoe Bend Mar 23, 1400Z-2100Z, N4H, Daviston, AL. Lake Martin Amateur Radio Club. 14.325 7.280 3.850. Certificate & QSL. John Philips, PO Box 938, Alexander City, AL 35011. Commemorating this battle which brought a close to the Creek Indian War and made Andrew Jackson an American hero, the Lake Martin Amateur Radio Club will operate portable from Horseshoe Bend National Military Park near Daviston in Tallapoosa County Alabama. SASE for card or 9X12 envelope with appropriate postage for certificate & card. wi4p@arrl.net or www.facebook.com/K4YWE

03/23/2019 | Cherry Blossom Special Event Station Mar 23, 1400Z-2000Z, W4BKM, Macon, GA. Macon Amateur Radio Club. 14.240 7.225. Certificate. Macon Amateur Radio Club, P.O. Box 4862, Macon, GA 31208. www.w4bkm.org

03/30/2019 | Wings of Freedom Mar 30, 1600Z-2000Z, W7AI, Marana, AZ. Oro Valley Amateur Radio Club. CW: 7.040, 14.040; SSB: 7.200; 14.250; FT8: 14.074, 18.100. Certificate. send request, to, qsl@tucsonhamradio.org . Located at the Marana Regional Airport. Spots on DXSummit.fi. Email request for PDF certificate to qsl@tucsonhamradio.org . Please, no paper QSLs. <https://www.tucsonhamradio.org>

Trivia for March 2019

DID YOU KNOW?

1. Mandarin Chinese is spoken by more than 1.1 billion people?
2. 1940s see the most triple crown winners in horse racing?
3. 7-up soda drink originally used lithium as a flavor booster?

Beware of the ides of March!

de Dana KG6WXE

Available Gear

From the Bill Klope Sr. KW6PE donation:

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

Please contact Robert KM6RSS
805-275-2256

From the WT6JS Donation

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

Please contact Stewart KG6BOV
Kg6bov@arrl.net

Looking for Antenna Instructions and manuals

Looking for antenna instruction and manuals for pre-1995 VHF and UHF antennas. Hy-gain, Cushcraft, KLM are the big manufacturers, but there were dozen of little ones (K1FO, K2RIW, Tronna). Would like to start a repository of antenna manuals. Manuals will be copied and originals will be returned. The copies will be posted on the web for use by everyone. Have needed the manuals for two 2 meter antennas recently and cannot find them.

Dennev N6HV /

Yaesu FT-8 and accessories for sale

Please contact Ron KI6YAX
vccert1@gmail.com



Equipment Tech and Operator Manuals

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

Stewart
KG6BOV@arrl.net

Prez Sez (cont from pg 2)

Steve WA6EJO presented a fascinating “Antennas & Propagation Phenomenon” demonstration using 10 GHz equipment and multiple antennas and conductive media (and some magic). Steve also brought and explained his topic evaluation spreadsheet which he had posted at the K6MEP groups.io website to assist with the selection of the club member’s desired topics. Please complete the questionnaire and return it to Steve; his email address is SJNOLL@IX.NETCOM.COM. He has only received 16 responses to date, which is about 30% of the club membership.

Looking Forward: At our next club meeting on March 8th, John Kitchens NS6X (our ARRL Santa Barbara Section Manager) will present “ARRL History and Current Procedures”. We will also review the status of our Field Day venue committee, led by Clement Alberts KM6OKZ. The meeting will be held at The Dudley House, 197 N Ashwood Ave, Ventura, CA 93003 at 7:30 PM (1930 hours).

Starting on March 6th and running through December 9th (so we can award the gift at the DecemberFest dinner), we will begin a K6MEP Monday night at 20:00 hrs. net check-in attendance bonus of a \$50 gift to the person that checks in the most. If a non-member wins, they will be given two years of membership to VCARC. If there is a tie, each person will receive a \$25 gift. Please see the Keyer or www.qsl.net/k6mep for the frequency.

Safety Share: March is severe weather safety month (think ACS/ARC/CERT):

Know your emergency plan on where to seek shelter in case of severe weather, tornado, or a fire.

If you hear thunder, stay indoors to protect yourself from lightning (remember to disconnect your ham radio antennas, too).

Stay informed about current severe weather conditions by tuning in to a weather radio, television, or the internet (many hams also monitor specific frequencies and weather websites).

Know how to communicate to others quickly when emergency action is required.

Participate in drills to make sure things run smoothly and problems can be worked out before a real emergency happens. Keep a go-bag with your valuable papers, etc.

See you all at the Friday the 8th of March club meeting at the Dudley House with your ideas, energy, topic subject and Field Day location desires!

73,
Robert Shank KM6RSS
President, VCARC

Diablo Peak Island Camera is back and better than before!

By Levi K6LCM

Thanks to many generous donations via our GoFundMe campaign, the SBARC Telecommunications Services Committee is happy to announce that we have an operational, live webcam on Diablo Peak on Santa Cruz Island! Diablo is the tallest mountain on an ocean island in the lower 48 and a strategic location for gathering all types of scientific data including ship and aircraft traffic, weather and cloud patterns and amateur radio linking.

In September 2018, the legacy standard-definition camera stopped functioning. While we have raised enough funds to install this new HD camera, there continue to be ongoing expenses necessary in order to keep it operational. We continue to raise funds to support this impressive high-definition replacement unit.

The camera allows aviators, mariners, researchers and public safety teams to ensure the safety of their island missions by providing a glimpse of the conditions in all directions around the island, in the channel and out to sea. It is an especially important asset for fire watch both on the island and looking back toward the Santa Barbara South Coast. Unlike many



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strategic webcams, this live camera is available to anyone interested in taking a virtual trip to this remote, secluded promontory and peering off into the deep blue yonder!

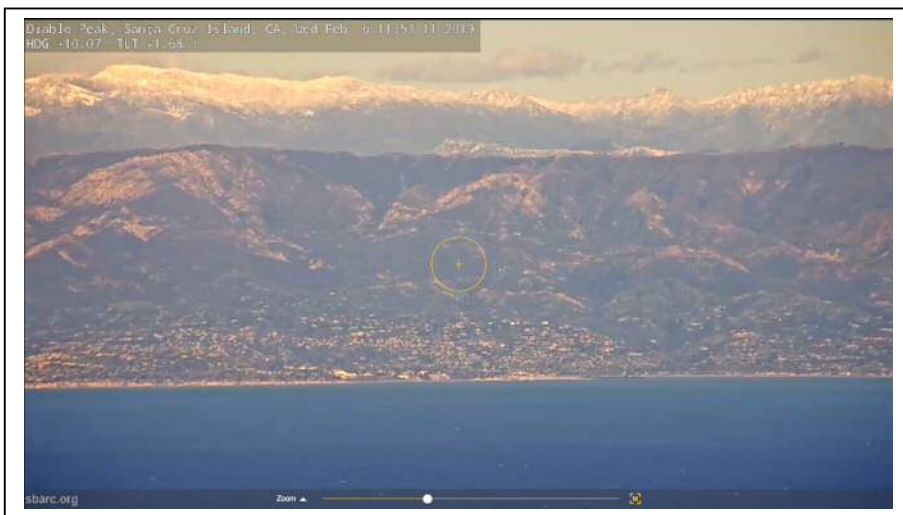
Levi C. Maaia, K6LCM
Co-Chair, Telecommunications Services Committee
Santa Barbara Amateur Radio Club, Inc.

Link to Diablo Peak live feed

<https://youtu.be/4GYkF5sYKi0>

Ed.Note – K6MEP voted last fall and donated \$500 to support the repair, replacement and installation of the new camera.

(Nice picture of Santa Barbara from Diablo Peak, SCI)



From Your Program Chairman...

Scheduled Meeting Programs:

Mar - John Kitchens NS6X, ARRL and ?	Aug
Apr - Matt Lechliter W6KGB	Sep
May - Pete Heinz N6ZE on contesting.	Oct
Jun - None. Field Day prep.	Nov
July - Orv Beach, W6BI, on MESH.	Dec - None. Holiday Dinner

Sadly, only a few have filled out our club meeting topic survey, but for those who did the single most desired topic was “antenna construction project.” So now, what kind of antenna? That was not on the questionnaire. I’m just guessing that the most common band that both freshly minted Hams and old timers would have would be 2 meters. Some antenna possibilities:

quarter-wave ground plane,
J-pole,
2M slot from a Dish satellite antenna.

Quarter-wave ground plane: simple, easily made, just requires soldering. J-Pole: commonly made of copper pipe so requires a torch for soldering. 2M Slot: requires cutting a slot in a Dish TV satellite reflector. See

<https://w6nbc.com/articles/20xx-dishslot.pdf>

What do you think?

73, Steve Noll WA6EJO

(Ed.Note – Program Survey on pg 25)

K6MEP Keyer March 2019

k6mep@qsl.net / www.qsl.net/k6mep
<https://groups.io/g/K6MEP>

The SoCal Linux Expo is coming!



The Southern California Linux Expo has had a ham radio track for the last several years and is having one again at SCALE 17, March 8-10. The ham track is on Sunday, plus there's a ham mesh network BOF (Birds Of a Feather) session Saturday evening. (It's a free-form meeting - Q&A or whatever).

Ben, AI6YR and I have presentations we'll be giving in the ham track. The schedule and presentations are on the SCALE web site if you'd like to browse them: <https://www.socallinuxexpo.org/scale/17x>

I've been given a few free registrations. If you're interested in attending, send me:

First Name Last Name Title Organization Email Zip Code

Your title and organization will be printed on your badge. The zip code is just for demographics; SCALE doesn't share personal information.

73

Orv W6BI

Upcoming FCC Exam Sessions

ON EXAM DAY BRING THE FOLLOWING ITEMS:

1. A legal photo ID (driver's license, passport).
2. When no photo ID is available, two forms of identification must be presented:
 - a. non-photo ID/driver's license (some states still have them)
 - b. birth certificate (must have the appropriate seal)
 - c. social security card
 - d. library card
 - e. utility bill, bank statement or other business correspondence that specifically names the person; or a postmarked envelope addressed to the person at his or her current mailing address as it appears on the Form 605.
3. Students may bring any of the above items and/or a school ID, minor's work permit, report card, or a legal guardian may present a photo ID.
4. Bring your Social Security Number (SSN) or your FCC issued Federal Registration Number (FRN). VEC's are required by FCC to submit either your SSN or your FRN number with your license application form. If you prefer not to give your SSN, then you may use your FCC issued FRN, if you have one. For instructions on how to register your SSN with the FCC and receive a FRN, visit the FCC's FAQ page and the FCC's registration instructions page.
5. If applicable, bring the original and a photocopy of your current Amateur Radio license and any Certificates of Successful Completion of Examination (CSCE) you may hold from previous exam sessions. The photocopy(s) will not be returned.
6. Two number two pencils with erasers and a pen.
7. A calculator with the memory erased and formulas cleared is allowed. You may not bring any written notes or calculations into the exam session. Slide rules and logarithmic tables are acceptable, as long as they're free of notes and formulas. Cell phone must be silenced or turned off during the exam session. The phones' calculator function may not be used.
8. Bring a check, a money order or cash to cover the exam session fee(s). Check the ARRL VEC's current exam fee.

License Preparation and Sample Test Sites

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

<http://hamexam.org/>

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

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

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

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

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

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

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

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

Upcoming FCC Exam Sessions

- 03/02/2019** 10:00 AM (Walk-ins allowed) Test 1st Saturday Every Month Sponsor: AA6WC/Ali Hassan VEC: ARRL/VEC Contact: Ali Hassan (323) 758-0565 Email: aa6wc@prodigy.net Location: VE's Residence 6043 3rd Avenue Los Angeles CA 90043-2618
- 03/02/2019** Time: 11:00 AM (Walk-ins allowed) Sponsor: ARES LAX VEC: ARRL/VEC Contact: James W. Laage (818) 368-8710 Email: cllaage@verizon.net Location: Valley Presbyterian Hospital (Health Education Center) 15107 Vanowen Street Van Nuys CA 91405-4542
- 03/05/2019** Time: 7:00 PM (Walk-ins allowed) Sponsor: AVARC VEC: Greater LA VEC Contact: Adrienne J. Sherwood (661) 264-1863 Email: wa6yeo@arrl.net Location: Antelope Valley Christian Church 1702 E Avenue J Lancaster CA 93535-4474
- 03/09/2019** 7:00 AM (No Walk-ins / Call ahead) Sponsor: The PAPA system VEC: Greater LA VEC Contact: Norman M. Goodkin (818) 403-5123 Email: hamclass@goodkin.net <http://papasys.org> Pre-registration required Location: Spitfire Grill Restaurant 3300 Airport Ave Santa Monica CA 90405-6130
- 03/09/2019** Time: 11:00 AM (Walk-ins allowed) Sponsor: ARES LAX VEC: ARRL/VEC Contact: James R. Stoker (310) 775-5613 Email: jstoker@it.ucla.edu Location: Huntington Hospital 100 W California Blvd Pasadena CA 91105-3010 Wingate Bldg East conf. Room; Check in Booth E parking Lot www.arrllax.org
- 03/09/2019** Time: 8:30 AM (No walk-ins) Sponsor: Santa Barbara ARC VEC: ARRL/VEC Contact: Darryl Widman (805) 969-2326 Email: kf6di@sbarc.org Location: **Impulse Communications 1503 Cook Place, Ste C Goleta, CA 93117**
- 03/16/2019** Time: 8:00 AM (No walk-ins) Sponsor: Santa Clarita ARC VEC: Greater LA VEC Contact: Ronald B. Klein (661) 259-0948 Email: rklein46@roadrunner.com Location: Santa Clarita Valley Senior Center 22900 Market St Santa Clarita CA 91321-3608
- 03/16/2019** Time: 9:00 AM (Walk-ins allowed) Sponsor: ARALB-W6RO VEC: ARRL/VEC Contact: F Louise Chapman (562) 429-1355 Email: n6elk@aol.com Location: American Red Cross 3150 E 29th St Redondo & Temple Long Beach CA 90806-2319
- 03/30/2019** Time: 10:00 AM (Walk-ins allowed) Sponsor: Crescent Bay VE Grp/W6TRW ARC VEC: ARRL/VEC Contact: Scott Swanson (310) 459-0337 Email: k6pyp@arrl.net Location: Northrop Grumman 1 Space Park Blvd (Bldg S Cafeteria) Parking lot off Marine Blvd Redondo Beach CA 90278-1001 (WEATHER PERMITTING DUE TO OUTDOOR PATIO LOCATION)
- 04/03/2019** 7:30 PM (Walk-ins allowed) Sponsor: Baldwin Hills ARC VEC: ARRL/VEC Contact: Edward L. Walker (323) 394-1818 www.barc.us Email: EDLWALKER@PACBELL.NET Location: Round Table Pizza 4330 Redondo Beach Blvd Torrance CA 90504-1031
- 04/06/2019** 10:00 AM (Walk-ins allowed) Test 1st Saturday Every Month Sponsor: AA6WC/Ali Hassan VEC: ARRL/VEC Contact: Ali Hassan (323) 758-0565 Email: aa6wc@prodigy.net Location: VE's Residence 6043 3rd Avenue Los Angeles CA 90043-2618
- 04/06/2019** Time: 11:00 AM (Walk-ins allowed) Sponsor: ARES LAX VEC: ARRL/VEC Contact: James W. Laage (818) 368-8710 Email: cllaage@verizon.net Location: Valley Presbyterian Hospital (Health Education Center) 15107 Vanowen Street Van Nuys CA 91405-4542
- 04/13/2019** Time: 11:00 AM (Walk-ins allowed) Sponsor: ARES LAX VEC: ARRL/VEC Contact: James R. Stoker (310) 775-5613 Email: jstoker@it.ucla.edu Location: Huntington Hospital 100 W California Blvd Pasadena CA 91105-3010 Wingate Bldg East conf. Room; Check in Booth E parking Lot www.arrllax.org
- 04/13/2019** Time: 12:00 PM (Walk-ins allowed) Sponsor: Pine Mountain ARC VEC: ARRL/VEC Contact: Irene M. Smith-Quick (661) 242-1345 Email:

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- irenequick@gmail.com Location: Frazier Park Library
3732 Park Dr
- 04/13/2019** Time: 7:00 AM (No Walk-ins / Call ahead)
Sponsor: PAPA **VEC:** [Greater LA VEC](#) **Contact:**
Norman M. Goodkin (818) 222-7893 **Email:**
hamclass@goodkin.net **Location:** Lulu's Family
Restaurant 16900 Roscoe Blvd Van Nuys CA 91406-
1101
- 04/13/2019** 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
- 04/13/2019** Time: 9:00 AM (Walk-ins allowed) Sponsor:
South Bay ARC VEC: ARRL/VEC Contact: Joseph M.
Lanphen (310) 328-0817 Email: janphen@ca.rr.com
www.w6sba.org for details Location: Torrance Memorial
Med Center 3330 Lomita Blvd Rm A, 2nd Flr, West Tower
Torrance CA 90505-5002
- 04/14/2019** 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
- 04/20/2019** Time: 9:00 AM (Walk-ins allowed) Sponsor:
ARALB-W6RO VEC: ARRL/VEC Contact: F Louise
Chapman (562) 429-1355 Email: n6elk@aol.com
Location: American Red Cross 3150 E 29th St Redondo
& Temple Long Beach CA 90806-2319
- 04/27/2019** Time: 10:00 AM (Walk-ins allowed) Sponsor:
Crescent Bay VE Grp/W6TRW ARC VEC: ARRL/VEC
Contact: Scott Swanson (310) 459-0337 Email:
k6pyp@arrl.net Location: Northrop Grumman 1 Space
Park Blvd (Bldg S Cafeteria) Parking lot off Marine Blvd
Redondo Beach CA 90278-1001 (WEATHER
PERMITTING DUE TO OUTDOOR PATIO LOCATION)
- 04/28/2019** Time: 2:30 PM (No walk-ins) **Sponsor:** Goodkin
Ham Radio Classes **VEC:** [Greater LA VEC](#) **Contact:**
Norman M. Goodkin (818) 222-8793 **Email:**
hamclass@goodkin.net **Location:** Agoura
Hills/Calabasas Community Center 27040 Malibu Hills Rd
Agoura Hills CA 91301-5332
- 05/02/2019** Time: 7:30 PM (Walk-ins allowed) **Sponsor:**
Acton Agua Dulce ARC **VEC:** [Greater LA VEC](#) **Contact:**
Gary Hebdon (661) 268-1162 **Email:** heb@thevine.net
Location: Acton Library Comm Room 33792 Crown
Valley Rd Acton CA 93510-1763
- 05/04/2019** 10:00 AM (Walk-ins allowed) Test 1st Saturday
Every Month Sponsor: AA6WC/Ali Hassan VEC:
ARRL/VEC Contact: Ali Hassan (323) 758-0565 Email:
aa6wc@prodigy.net Location: VE's Residence 6043 3rd
Avenue Los Angeles CA 90043-2618
- 05/04/2019** Time: 11:00 AM (Walk-ins allowed) Sponsor:
ARES LAX VEC: ARRL/VEC Contact: James W. Laage
(818) 368-8710 Email: cllaage@verizon.net Location:
Valley Presbyterian Hospital (Health Education Center)
15107 Vanowen Street Van Nuys CA 91405-4542
- 05/05/2019** Time: 7:30 AM (No Walk-ins / Call ahead)
Sponsor: DCS 10/22 Lost Hills VEC: Greater LA VEC
Contact: Norman M. Goodkin (818) 222-7893 Email:
hamclass@goodkin.net Location: Lost Hills Sheriff's
Station (Assembly Room) 27050 Agoura Rd Agoura Hills
CA 91301-5332
- 05/11/2019** 7:00 AM (No Walk-ins / Call ahead) Sponsor: The
PAPA system VEC: Greater LA VEC Contact: Norman
M. Goodkin (818) 403-5123 Email:
hamclass@goodkin.net <http://papasys.org> Pre-
registration required Location: Spitfire Grill Restaurant
3300 Airport Ave Santa Monica CA 90405-6130
- 05/11/2019** Time: 11:00 AM (Walk-ins allowed) Sponsor:
ARES LAX VEC: ARRL/VEC Contact: James R. Stoker
(310) 775-5613 Email: jstoker@it.ucla.edu Location:
Huntington Hospital 100 W California Blvd Pasadena
CA 91105-3010 Wingate Bldg East conf. Room; Check in
Booth E parking Lot www.arrlax.org
- 05/11/2019** Time: 8:30 AM (No walk-ins) **Sponsor:** Santa
Barbara ARC **VEC:** [ARRL/VEC](#) **Contact:** Darryl Widman
(805) 969-2326 **Email:** kf6di@sbarc.org **Location:**
Impulse Communications 1503 Cook Place, Ste C
Goleta, CA 93117
- 05/12/2019** Time: 7:30 AM (No Walk-ins / Call ahead)
Sponsor: DCS 10/22 Lost Hills VEC: Greater LA VEC
Contact: Norman M. Goodkin (818) 222-7893 Email:
hamclass@goodkin.net Location: Lost Hills Sheriff's
Station (Assembly Room) 27050 Agoura Rd Agoura Hills
CA 91301-5332
- 05/18/2019** Time: 8:00 AM (No walk-ins) Sponsor: Santa
Clarita ARC VEC: Greater LA VEC Contact: Ronald B.
Klein (661) 259-0948 Email: rklein46@roadrunner.com
Location: Santa Clarita Valley Senior Center 22900
Market St Santa Clarita CA 91321-3608
- 05/18/2019** Time: 9:00 AM (Walk-ins allowed) Sponsor:
ARALB-W6RO VEC: ARRL/VEC Contact: F Louise
Chapman (562) 429-1355 Email: n6elk@aol.com
Location: American Red Cross 3150 E 29th St Redondo
& Temple Long Beach CA 90806-2319
- 05/25/2019** Time: 10:00 AM (Walk-ins allowed) Sponsor:
Crescent Bay VE Grp/W6TRW ARC VEC: ARRL/VEC
Contact: Scott Swanson (310) 459-0337 Email:
k6pyp@arrl.net Location: Northrop Grumman 1 Space
Park Blvd (Bldg S Cafeteria) Parking lot off Marine Blvd
Redondo Beach CA 90278-1001 (WEATHER
PERMITTING DUE TO OUTDOOR PATIO LOCATION)
-

Upcoming HamFests & Conventions

[April Hamfest at DeVry](#)

Start Date: 04/20/2019 **End Date:** 04/20/2019 **Location:** DeVry University 2149 West Dunlap Avenue Phoenix, AZ 85001
Website: <http://www.w7io.org> **Sponsor:** Arizona Amateur Radio Club **Type:** ARRL Hamfest **Talk-In:** 147.060 (PL 162.2) **Public Contact:** Gary Hamman , K7GH 5326 East Voltaire Avenue Scottsdale, AZ 85254 Phone: 602-996-8148
Email: ghamman@aol.com

[West Coast MRCG 2019 Meet](#)

May 3, 4 2019 West Coast MRCG 2019 Meet, Estrella Warbirds Museum, Paso Robles, CA
<https://www.n6cc.com/west-coast-military-radio-collectors-group>

[Cochise Amateur Radio Association Hamfest](#)

Start Date: 05/04/2019 **End Date:** 05/04/2019 **Location:** Green Acres 2756 Moson Road Sierra Vista, AZ 85635
Website: <http://k7rdg.org> **Sponsor:** Cochise Amateur Radio Association **Type:** ARRL Hamfest **Talk-In:** 146.760 (PL 162.2) **Public Contact:** Charles Campbell , K4AFN 5157 Calle Virada Sierra Vista, AZ 85635 Phone: 520-508-7087
Email: k4afn@arrl.net

[Arizona State Convention 2019, Prescott Hamfest](#)

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

[Santa Maria Annual Swapfest](#)

June 15, 2019 Saturday of Father's Day Weekend Information Pending <http://www.satellitearc.com/>

K6MEP Net Script

QST- QST- QST. This is <Name> <Callsign>, with the Ventura County Amateur Radio Club Net.
 If there is there any station with EMERGENCY or PRIORITY Traffic that needs the immediate use of this frequency, please come now.
 Hearing none, the following is a QST. This is <Name> <Callsign>, tonight's net control station for the Ventura County Amateur Radio Club Net. If, at any time during tonight's net, anyone needs this frequency for emergency or priority traffic, please call net control, and we will respond appropriately.
 This is a directed, open net for all amateur radio operators, sponsored by K6MEP, the call sign for VCARC. This net begins each Monday evening at 20:00 local time on the WD6EBY linked repeater system.
 The primary frequency of this net is 145.200 MHz with a minus offset and a PL of 127.3 Hz. If the repeater should fail for any reason, we can use South Mtn. 146.385 minus offset and a PL of 127.3 as backup. All amateurs are welcome to check in after these announcements. A roundtable will follow the open check-in. A rag chew session may follow the formal net.
 K6MEP, the Ventura County Amateur Radio Club, meets at 19:30 hours on the second Friday of each month at The Dudley House, 197 N Ashwood Ave, Ventura, CA 93003. The next meeting date is <say next meeting date from calendar>. We urge any non-members interested in VCARC to contact our Secretary, Phil Cohen, WA6BUZ email at K6MEP@qsl.net.
 As we continue with the check-in process, please give your call sign, name and if you are a VCARC member. If you are not a member of the VCARC, please include your QTH or location.
 (Check-ins completed): We will now begin with our Roundtable *****
 Any last comments? ***** Any late, missed, or visitor check-ins? Please check-in now.
 (Closing): This concludes the VCARC weekly net at _____ hours. Thank you for your interest and participation. Also thanks to Paul Strauss, WD6EBY, for the use of the repeater for our K6MEP net.
 73, this is <Name> <Callsign>, tonight's VCARC net control, signing off.

K6MEP CALENDAR

March 2019

- 8: Regular Monthly Club Meeting at 7:30pm.** K6MEP Board meeting precedes the club meeting at 7:00pm ARRL Section Manager John Kitchens NS6X
- 10: Daylight Savings Time Starts – Spring Forward !**
- 15: Caesar! Beware the Ides of March!**
- 17: St. Patrick's Day –** Watch out for renegade Leprechauns
- 22: Ventura County Science Fair at CLU**

April 2019

- 1: April Fool's Day**
- 12: Regular Monthly Club Meeting at 7:30pm.** K6MEP Board meeting precedes the club meeting at 7:00pm Matt Lechliter, W6KGB on Gronk network and evolution of FM.
- 19-27: Passover**
- 21: Easter Sunday**
- 28: Aut-2-Run 5/10/15K at CSUCI –** ARES Support contact Wayne W6OEU w6oeu@arrl.net

May 2019

- 1: May Day**
- 4: K6MEP Spring Picnic/BBQFest at Dudley House**
- 5: Cinco de mayo**
- 10: Regular Monthly Club Meeting at 7:30pm.** K6MEP Board meeting precedes the club meeting at 7:00pm Pete Heins, N6ZE VHF/UFH Contesting
- 12: Mother's Day**
- 19: Red Cross "Operation Ride for the Red"** multi-distance bike ride. – ARES Support. Contact Stewart KG6BOV kg6bov@arrl.net

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

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

Name _____ Call _____ E-mail _____

Street _____ City _____ State _____ ZIP _____

Date _____ New Member _____ Renewing _____ ARRL? yes ___ no ___ Telephone _____

Below line for club staff processing only.
 Enter processing dates:

Treasurer _____ Secretary _____ Membership Chairman _____ Roster entry _____

Membership certificate _____ New member letter _____

Emergency and Volunteer Training

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

Red Cross Courses

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

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

For training class registration, call: 805-987-1514 Ext 320.

Course schedule and descriptions:

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

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

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

Scheduled Red Cross Classes

For training class registration, call: 805-987-1514 Ext 320.

Please try to register for classes a week before the class is being offered

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

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

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

- IS-323 **Earthquake Mitigation Basics for Mitigation Staff** - (10/31/2013)
- IS-325 **Earthquake Basics: Science, Risk, and Mitigation** - (10/31/2013)
- IS-326 **Community Tsunami Preparedness** - (10/31/2013)
- IS-366.a **Planning for the Needs of Children in Disasters** - (12/9/2015)
- IS-368 **Including People With Disabilities & Others With Access & Functional Needs in Disaster Operations** - (2/20/2014)
- IS-393.a **Introduction to Hazard Mitigation** - (10/31/2013)
- IS-405 **Overview of Mass Care/Emergency Assistance** - (12/10/2013)
- IS-454 **Fundamentals of Risk Management** - (10/31/2013)
- IS-546.a **Continuity of Operations Awareness Course** - (10/31/2013)
- IS-547.a **Introduction to Continuity of Operations** - (10/31/2013)
- IS-559 **Local Damage Assessment** - (10/31/2013)
- IS-700.a **National Incident Management System (NIMS) An Introduction** - (10/31/2013)
- IS-775 **EOC Management and Operations** - (8/6/2008)
- IS-800.b **National Response Framework, An Introduction** - (1/20/2017)
- IS-815 **ABCs of Temporary Emergency Power** - (12/27/2016)
- IS-907 **Active Shooter: What You Can Do** - (12/28/2015)
- IS-909 **Community Preparedness: Implementing Simple Activities for Everyone** - (10/31/2013)
- IS-910.a **Emergency Management Preparedness Fundamentals** - (10/19/2012)
- IS-915 **Protecting Critical Infrastructure Against Insider Threats** - (7/10/2013)
- IS-916 **Critical Infrastructure Security: Theft and Diversion – What You Can Do** - (10/31/2013)
- IS-922 **Applications of GIS for Emergency Management** - (10/31/2013)
- IS-951 **DHS Radio Interoperability** - (9/22/2016)

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

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

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

ARES-ACS Frequency Updates

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

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

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

Area 2 Conejo Valley, T. Oaks, Newbury Park – N6JMI 147.885 Mhz (-) PL127.3 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 – WA6ZSN 146.385 Mhz (+) PL 127.3

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

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

County-Wide – WD6EBY 145.200 (-) PL 127.3

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

Other Good Area Frequencies ...

AA6DP 147.090 Mhz (+) No PL Catalina

K0AKS 147.150 Mhz(-) PL127.3 TOaks

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

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

K6DCS DCS22 147.225 Mhz (+) PL 94.8 LA DCS

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

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

K6TZ 146.790 Mhz (-)PL131.8 SBARC

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

N6EVC 146.850 Mhz (-) PL 94.8 Rasnow

N6FDR 145.260 Mhz (-) PL 100.0 Malibu

W6AAX 147.180 Mhz (+) PL 186.2 Verdugo Peak

W6GRG 146.940 Mhz (-) PL 127.3 Simi DSW Repeater

W6YJO 145.180 Mhz (-) PL 131.8 Sta Ynez

WA6FGK 146.640 Mhz (-) PL 127.3 Simi Valley

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

WB6OBB 147.000 Mhz (+) PL 131.8 Sta Barbara

WD6EBY 145.240 Mhz (-) PL 127.3 Chatsworth Pk

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

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

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

Area 1 Simi Valley – 145.510 Mhz (S)

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

Area 3 Camarillo, Somis – 146.550Mhz (S)

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

Area 5 Ojai Valley – 145.555Mhz (S)

Area 6 Ventura City – 147.510Mhz (S)

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

Area 8 Moorpark – 146.535Mhz (S)

County ARES Simplex – 145.615 Mhz (S)

National Simplex – 146.520Mhz(S)

Ventura County ARES / ACS Emergency Coordinators

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

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

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

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

Area 3 Camarillo, Somis EC: Avi Carmi, K6AVI Email: avi@carmi.us

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.



**Local Area Radio Nets
Weekly Nets**

Monday

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

California Rescue ARES Net 7.25 Mhz MTWThF 8:30 AM

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

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

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

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

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

Tuesday

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

California Rescue ARES Net 7.250 Mhz MTWThF 8:30 AM

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

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

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

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

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

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

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

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

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

Wednesday --

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

California Rescue ARES Net 7.25 Mhz MTWThF 8:30 AM

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

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

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

Thursday

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

California Rescue ARES Net 7.25 Mhz MTWThF 8:30 AM

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

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

SBARC / K6TZ Technical Mentoring Net -- Thursday nights 8:00-9:00 PM **146.790 Mhz (-) / 131.8 Hz PL and 224.08 Mhz (-) 131.8 PL (linked)**

Friday

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

California Rescue ARES Net 7.250 Mhz MTWThF 8:30 AM

Saturday

Military Radio Collector Net 1800 / 6:00PM 3985 Kc +/- AM www.mrcgwest.org/mrcg-radio-nets/

Sunday

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

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

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

Meeting Minutes (Cont fm pg 2)

NEW BUSINESS

Starting on March 6th and running through December 9th (so we can award the gift at the DecemberFest dinner): Net attendance bonus \$50 Gift to the person that checks in the most. If a non-member wins, they will be given two years of membership. If a tie, each will receive a \$25 gift. Motion Approved

Club picnic: May 4th at the Dudley House confirmed

Science fair at CLU. Clement will lead the event March 23 contact if you are interested in being a judge.

BREAK 20:19

GENERAL MEMBERSHIP MEETING

Presentation on antennas by Steve Noll; Excellent demonstration using 10ghz microwave signals demonstrating polarization, reflection, refraction, SWR, etc.

Notes

Roll Call Total attendance: 32 Guests:5

Dues paid by 2 people

Meeting adjourned 21:38

EXECUTIVE BOARD MEETING MINUTES

MEETING ADDRESS: Dudley Historical House, Ventura

OFFICER ATTENDEES

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

CALL TO ORDER 19:00

Robert Shank KM6RSS calls brief meeting

Minutes Approved

MEETING MINUTES

Treasurers report on bank balances

Secretary report: Membership and business calendar items, need to file Form SI-100 by end of year, and before Mar.

55 Paid Members

Old Business

Donation to QSL.net for website hosting \$100.00 Approved

Stewart Stone is now the trustee of the K6MEP call sign

Added new Robert, President, to Bank Account

NEW BUSINESS

Dudley house approved for May 4th picnic

Pay \$20 for use of the facilities at Dudley House for May 4th picnic.

Science fair discussion: ask in General Meeting for interest.

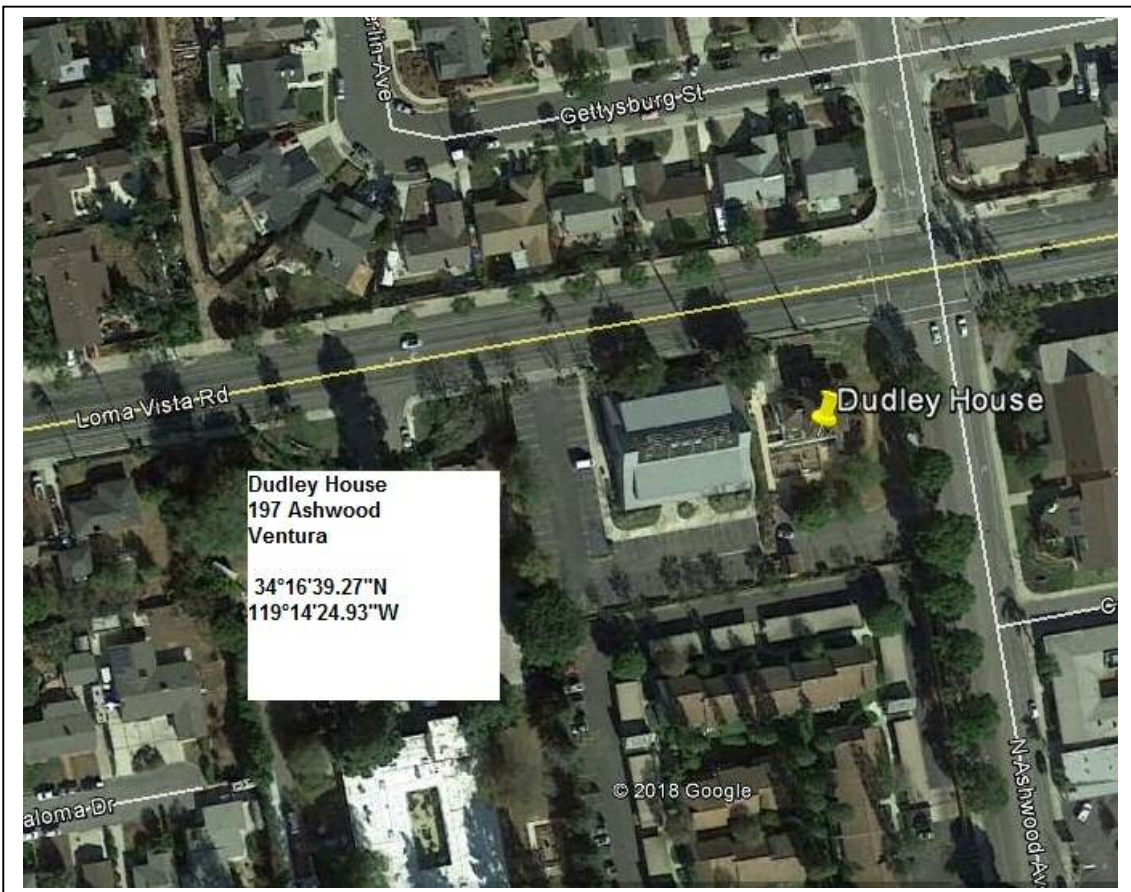
Proposed incentive to join the net on Monday night possible gift certificate –tabled until general meeting.

Phil to write up about proposed club repeater and K6NE call sign

COMMENTS

BOARD ADJOURN 19:22

Board meeting adjourned and proceed to General meeting.



Amendment Aims to Promote CITEL/CEPT Amateur Radio Operating Reciprocity

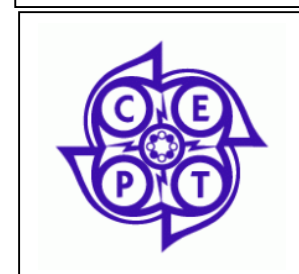
01/30/2019

Chile recently became the third country to sign the [Amendment](#) of the Inter-American Convention on the use of an International Amateur Radio Permit ([IARP](#)). Once the Amendment is in effect, Chile and other Inter-American Telecommunication Commission ([CITEL](#)) signatories may offer reciprocal Amateur Radio privileges to Amateur Radio licensees from European Conference of Postal and Telecommunications Administrations ([CEPT](#)) member countries that have implemented [CEPT Recommendation T/R 61-01](#) (CEPT Radio Amateur License).

The Inter-American Convention says CEPT-country licensees “shall be entitled to the same rights and privileges enjoyed by holders of the IARP, provided, however, that CEPT accords all holders of the IARP the same rights and privileges enjoyed by holders of the CEPT Amateur Radio license. The Organization of American States (OAS) General Assembly approved the treaty last June; CITEL comes under the OAS umbrella. In addition to Chile, the Dominican Republic and Argentina have signed.

IARPs are not be valid for operation in the territory of the issuing country and are valid for 1 year. A Class-1 IARP allows the use of all frequency bands allocated to the Amateur and Amateur-Satellite Services and specified by the country where the amateur station is to be operated, per [Recommendation ITU-R M.1544](#). A Class-2 IARP permits utilization of all frequency bands allocated to the Amateur and Amateur-Satellite Services above 30 MHz and specified by the country where the amateur station is to be operated.

US radio amateurs already enjoy both IARP and CEPT reciprocity.



Very Limited ISS Slow-Scan TV Transmissions Set

01/30/2019

A very limited schedule of slow-scan TV (SSTV) transmissions from the International Space Station (ISS) is under way, January 30 – February 1 UTC. Available information indicates that the Moscow Aviation Institute (MAI) transmissions will only be during a couple of orbits that pass over Moscow, roughly between 1300 and 1900 UTC, rather than a continuous operation. Transmissions will be on 145.800 MHz. Captured images can be [posted](#) on the ARISS SSTV gallery website. You can receive SSTV images from the ISS by using the free [MMSSTV](#) software and your own radio or an online radio (WebSDR). — Thanks to AMSAT News Service via NASA ISS Ham Radio Project Engineer Kenneth Ransom, N5VHO



Geoffrey Starks Sworn in as FCC Commissioner

01/31/2019

The FCC now officially has its full complement of five members. Democrat Geoffrey Starks, who succeeds Mignon Clyburn on the Commission, was sworn in January 30. He formerly served as assistant bureau chief in the FCC Enforcement Bureau and in the US Department of Justice.

“I am deeply honored to serve as a Commissioner of the Federal Communications Commission, and I thank the President and the United States Senate for this exceptional privilege.” Starks said in a statement. “As the last few weeks have affirmed, being a public servant is a calling to serve a mission bigger than yourself. Throughout my career, I have focused on protecting the most vulnerable and holding wrongdoers accountable. In my new role, I shall not only continue to pursue those goals, but also look forward to working with Congress, my fellow Commissioners, and the FCC’s outstanding staff.” Starks, who holds a law degree from Yale, said that every community “has a stake in the future of communications in this country, and all have the right to be heard. I will always be listening.”

Republican Brendan Carr, who already was sitting on the Commission after appointment to an unexpired term, recently was reconfirmed for a new full 5-year term. Three of the FCC’s five members are traditionally of the same political party as the President.



ARRL Board of Directors Tackles Ambitious Agenda



01/31/2019

A demanding agenda faced the ARRL Board of Directors when it convened for its annual meeting January 18 – 19 in Windsor, Connecticut. President Rick Roderick, K5UR, chaired the session. Several new faces were around the table, with four newly elected ARRL Directors, one newly elected Vice Director, and one recently appointed Vice Director. Attending for their first meeting as Board members were Hudson Division Director Ria Jairam, N2RJ; New England Division Director Fred Hopengarten, K1VR; Northwestern Division Director Mike Ritz, W7VO, and Roanoke Division Director George “Bud” Hippisley, W2RU. Also present were Northwestern Division Vice Director Mark Tharp, KB7HDX, and Rocky Mountain Division Vice Director Robert Wareham, N0ESQ, who was appointed last fall to fill a vacancy.

On a voice vote, the Board authorized \$485,000 to fund a project, carried out by Connecticut media and advertising consultants Mintz & Hoke, to develop lifelong learning strategies and programs aimed at attracting and retaining ARRL members, especially newly licensed radio amateurs.

“Our focus is on expanding the reach of ARRL by providing instructional materials to Amateur Radio operators who have a wide range of interests and experience levels,” ARRL Lifelong Learning Manager Kris Bickell, K1BIC, remarked this week. The program will offer a modern, user-friendly educational environment with various learning paths, such as getting on the air, public service, technological experimentation, and advanced operating and technical tips, Bickell said.

The Board adopted an ARES Plan as recommended by the Programs and Services Committee. Committee Chair Dale Williams, WA8EFK, said the ARES Plan will establish training programs and three levels of ARES membership. It also revises ARES appointment definitions and designates the Emergency Coordinator (EC) as the lead person in local activations. Section and District Emergency Coordinators will serve as resources.

The Board also established an EmComm Manager Requirements Committee, charged with setting the requirements for ARRL’s Emergency Preparedness and Response Manager function.

The Board received the report of ARRL CEO Howard Michel, WB2ITX, who outlined plans to reorganize and refocus the activities at ARRL Headquarters. Michel said providing better value to membership is a top priority, and he sees value creation and value delivery as key components to long-term membership retention and growth.

Addressing an ARRL governance issue, the Board repealed the *ARRL Policy on Board Governance and Conduct of Members of the Board of Directors and Vice Directors*, commonly known as the “Code of Conduct,” on an 11-3 vote with one abstention.

The Board voted unanimously to create a Legal Structure Review Committee to study and make recommendations to update ARRL’s legal structure “to reflect ARRL’s current operational needs.”

The Board created a permanent Amateur Radio on the International Space Station (ARISS) Committee “to develop an interactive relationship” with ARISS, which sponsors voice contacts between ISS crew members and school groups and gatherings on Earth, “bringing together STEM program objectives and local Amateur Radio groups.” The Board motion said ARISS “has demonstrated very positive public relations benefits to the ARRL, and that it’s ARRL’s best interests to support ARISS.”

“ARRL has sponsored ARISS since its infancy in 1996, while important ISS modules were still being built,” said ARISS-US Delegate for ARRL Rosalie White, K1STO. “I’m quite pleased that ARRL and ARISS will work even more closely to pull together STEM objectives and ham radio groups. Thank you to ARRL for its compliments on the good PR the program generates.”

The ad hoc Logbook of The World (LoTW) Committee was elevated to permanent status, reporting to the ARRL Administration and Finance Committee.

As already [announced](#), the Board withdrew, without prejudice to refiling, ARRL’s December 18, 2018, [Petition for Rule Making](#) to the FCC, which sought to amend the Part 97 Amateur Service rules to incorporate the provisions of the Amateur Radio Parity Act ([ARPA](#)). The Board said that ARRL needs to “review, re-examine, and reappraise ARRL’s regulatory and legislative policy with regard to private land use restrictions.”

In other business, the Board:

received the report of ARRL Treasurer Rick Niswander, K7GM, on ARRL’s investments for 2018. He said ARRL’s portfolio recorded a small loss for the year, “consistent with market-derived expectations.”

heard from Chief Financial Officer Diane Middleton, W2DLM, who reported that “a financially strong balance sheet generated a larger-than-expected gain from operations for 2018.” Cash flow also continued to be favorable.

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

received the report of EMC Committee chair Kermit Carlson, W9XA, who told the Board his panel is working to raise awareness of a variety of issues stemming from major technological advances, such as wireless power transfer systems for charging electric vehicles. Carlson said that while new systems need spectrum, protection of other bands for other services is necessary. He invited the Board's vigilance in alerting the EMC Committee to potential concerns.

affirmed its support of the National Traffic System and all amateurs involved in traffic handling, and their role as partners to ARES in ARRL's public service tool kit.

considered recommendations of the Administration and Finance Committee and adopted the ARRL 2019 – 2020 Plan.

elevated past New England Division Director Tom Frenaye, K1KI, to Director Emeritus, commending him for his more than 30 years of service to Amateur Radio "as a leader in his community, ARRL Division, and nationwide." Since 1975, Frenaye has served as an ARRL employee, Director, and Vice President, and as President of the ARRL Foundation.

elevated retiring West Gulf Director Dr. David Woolweaver, K5RAV, to ARRL Honorary Vice President, in recognition of "providing outstanding leadership" throughout his 19 continuous years as a Vice Director and Director.

directed the ARRL Secretary to cast ballots in support of the re-election of IARU President Timothy Ellam, VE6SH, and IARU Vice President Ole Garpestad, LA2RR, for additional 5-year terms.

received greetings from IARU Secretary David Sumner, K1ZZ, on behalf of IARU President Tim Ellam, VE6SH, and from Radio Amateurs of Canada President Glenn MacDonell, VE3XRA.

AMSAT Announces 50th Anniversary Space Symposium

02/05/2019

The 2019 AMSAT 50th Anniversary Symposium will take place on October 18 – 20 at the Hilton Arlington in Arlington, Virginia, next to Washington, DC. Connected to the Ballston Metro Station, the hotel offers easy access to the capital's top tourist destinations, and tours will be available; it's 6 miles from Reagan National Airport. The AMSAT Board of Directors will meet on October 16 – 17. — *Thanks to AMSAT News Service*



Es'hail-2/P4A Satellite is Designated as Qatar-OSCAR 100 (QO-100)

02/04/2019

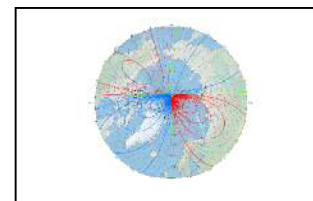
AMSAT has now granted OSCAR status to 100 Amateur Radio satellites. The latest, Es'hail-2/P4A — now Qatar-OSCAR 100 (QO-100) —launched from Cape Canaveral, Florida, in November. It carries the first geosynchronous Amateur Radio payload. Es'hail-2/P4A was developed jointly by the Qatar Amateur Radio Society (QARS) and Es'hailSat (the Qatar Satellite Company), with AMSAT-DL as the technical lead. Now at its final position of 25.9° E and with the narrow and wideband transponders having been successfully tested in December, the transponders are expected to be opened for general use this month. "May the 100th OSCAR satellite be the guide star to future Amateur Radio satellites and payloads to geostationary orbit and beyond," invoked Drew Glasbrenner, KO4MA, AMSAT Director of VP Operations and OSCAR Number Administrator. — *Thanks to AMSAT News Service*



Earth's Magnetic North Pole Shifts toward Siberia

02/05/2019

National Centers for Environmental Information ([NCEI](#)) scientists have updated the world magnetic model (WMM) mid-cycle, as Earth's northern magnetic pole has begun shifting quickly away from the Canadian Arctic and toward Siberia, an [NCEI report](#) said this week. The new WMM more accurately represents the change of the magnetic field since 2015. The alteration could have an impact on government, industry, and consumer electronics.



“Due to unplanned variations in the Arctic region, scientists have released a new model to more accurately represent the change of the magnetic field,” the report said, noting that updated versions of the WMM are typically released every 5 years. This update comes about 1 year early.

“This out-of-cycle update before next year’s official release of WMM 2020 will ensure safe navigation for military applications, commercial airlines, search and rescue operations, and others operating around the North Pole,” said NCEI, which is part of the National Oceanographic and Atmospheric Administration (NOAA). “Organizations such as NASA, the Federal Aviation Administration, US Forest Service, and many more use this technology. The military uses the WMM for undersea and aircraft navigation, parachute deployment, and more.”

Other governmental entities use the technology for surveying and mapping, satellite/antenna tracking, and air traffic management. Smartphone and consumer electronics companies also rely on the WMM to provide consumers with accurate compass apps, maps, and GPS services.

Airport runways may be the most visible example of a navigation aid updated to match shifts in Earth’s magnetic field. Airports around the country use the data to give runways numerical names, which pilots refer to on the ground. The declination has changed slightly more than 2.5° over the past 2 decades or so. Compasses use declination — the difference between true north and where a compass points — to help correct navigation systems for a wide variety of uses.

As Earth’s magnetic field evolves between the 5-year release schedule of the WMM, these predicted values can become off as the rate of change in Earth’s magnetic field evolves due to unpredictable flows in Earth’s core. The NCEI report said Earth’s north polar region is experiencing one of these erratic changes. — *Thanks to NOAA-NCEI*

ARRL Board Gives the Go-Ahead to Lifelong Learning Initiative

02/07/2019

ARRL is undertaking a new initiative to provide online educational opportunities to a broad range of radio amateurs. The Lifelong Learning Initiative will seek to provide a series of learning tracks that will serve the needs of the various interest groups within the Amateur Radio community.

While designed for everyone with an interest in learning more about Amateur Radio, the Lifelong Learning Initiative will initially focus on creating online learning opportunities for new and newer hams, a segment of the Amateur Radio community desperately searching for educational and instructional and resources.

The ARRL Board of Directors set the Lifelong Learning Initiative in motion, endorsing and funding the program and approving the hiring of advertising agency Mintz + Hoke to work with ARRL Lifelong Learning Manager Kris Bickell, K1BIC, and other ARRL staffers in building this learning environment. Mintz + Hoke will conduct the research necessary to identify the different educational needs within the broader Amateur Radio community.

“Mintz + Hoke is a really strong partner in this project,” Bickell said, adding that the firm has developed a really deep understanding of the Amateur Radio community as part of the investigation phase of this endeavor.

Bickell noted that youth education will be a critical component of this Learning Initiative, but he also believes that overall opportunities in this area are huge, as many individuals are looking to expand their knowledge of Amateur Radio.

He said that, where appropriate, the content of these learning tracks within the initiative will build upon much of the knowledge base that already exists within ARRL, such as the material in *QST* and *QEX* magazines, as well as other ARRL publications and manuals. Some new content will be created as well, to ensure that the information being provided stays fresh and dynamic.

In addition to providing instruction, the Learning Initiative will offer resources that allow individuals to delve further into a subject, rather than just relying on ARRL content.

“We are building a new learning environment,” Bickell said. “It will take a lot of work to put this all together, but we believe that this initiative will firmly establish ARRL as an educational leader in Amateur Radio.” He expects the online Lifelong Learning platform to launch in the fall of 2019.

In conjunction with its support of the Lifelong Learning Initiative, the ARRL Board also endorsed CEO Howard Michel’s HQ reorganization plans, and the purchase of a modern association management software system.

“These are big investments the Board is making in ARRL, and a strong positive vote of confidence that we can deliver,” Michel said. “They are giving us the tools to be successful.”



Save the Date for the 2019 ARRL-TAPR Digital Communications Conference

02/08/2019

The 2019 ARRL-TAPR Digital Communications Conference (DCC) will be held Friday through Sunday, September 20 – 22, at the Marriott Detroit Metro Airport Hotel in Romulus, Michigan. Further details are pending.



Call for Papers Issued for 2019 ARRL/TAPR Digital Communications Conference

02/12/2019

Technical papers are solicited for presentation at the ARRL/TAPR Digital Communications Conference (DCC), to be held September 20 – 22 at the Marriott Detroit Metro Airport Hotel. Papers will also be published in the *Conference Proceedings*. Authors do not need to attend the conference to have their papers included in the *Proceedings*. The submission deadline is August 5.

Submit papers via e-mail or mail to Maty Weinberg, KB1EIB, ARRL, 225 Main St, Newington, CT 06111. Papers will be published exactly as submitted, and authors will retain all rights.

Reshaping ARRL Objectives, Refocusing ARRL HQ Structure is New CEO's Goal

02/07/2019

A plan by ARRL CEO Howard Michel, WB2ITX, to reshape and reorganize the management structure at ARRL Headquarters will go into effect on Monday, February 11. The ARRL Board of Directors endorsed the plan during its Annual Meeting on January 18 – 19 in Windsor, Connecticut.

"I see ARRL as a membership association, a business, and a 501(c)(3) public charity. As CEO, I intend to strengthen all three aspects. And all three must remain in balance for ARRL to function effectively," Michel said.

"As a business, ARRL is not just *QST* magazine, *The Handbook*, DXCC or the VEC program. We can't allow ourselves to continue to think within those traditional parameters." He continued, "ARRL's businesses are not membership, publishing, and advertising. ARRL's businesses are value creation, value delivery, and advocacy. I plan to architect ARRL along those lines. To quote Steve Jobs, 'More important than building a product, we are in the process of architecting a company that will hopefully be much more incredible, the total will be much more incredible than the sum of its parts.'" Michel said.

The reorganization has three key components. The first major change is the creation of a management council (MC). The MC will be a deliberative and generative body to discuss ideas, operations, and long-term planning for ARRL. The group's goal is to foster horizontal lines of communication within the organization. Direct horizontal lines of communications are much more efficient than "up, over, and down," Michel offered.

The second key change, Michel said, is the addition of a Product Development Manager. This individual's responsibility will be to create new ideas for products and services, create pilot programs to quickly test those ideas, and then — if the pilot programs are successful — transition them to operations. "The motto in startups is to fail fast," Michel said. "Let's innovate like a startup."

Third, he said, is creating the position of a Marketing Communications Manager. "Our brand works with our traditional members. It is not working for newly licensed hams," Michel said. "If we are to create a demand for the value we bring to Amateur Radio, we need a coordinated and consistent message, across all forms of media that resonates with current and potential members."

In conjunction with its support of this reorganization plan, the ARRL Board of Directors also endorsed a proposal to create a new Lifelong Learning platform that will establish ARRL as an educational leader in Amateur Radio, and the purchase of a modern association management software system that should dramatically improve ARRL members' experiences.

"These are big investments the Board is making in ARRL, and a strong positive vote of confidence that we can deliver," Michel said. "They are giving us the tools to be successful."



New Campaign Exploiting Linux Servers to Insert Backdoor “SpeakUp” Trojan

02/07/2019

A new backdoor Linux-based operating system trojan dubbed “SpeakUp” is on the loose, although so far it does not appear to have propagated to North America or Europe. Research team Check Point Research recently [reported](#) the discovery and said SpeakUp exploits known vulnerabilities in six separate Linux distributions and is able to evade all security vendors. A community of radio amateurs use various forms of Linux, including the popular *Ubuntu* software, which includes ham radio apps. Check Point Research said the attack is targeting worldwide servers.



“The attack is gaining momentum and targeting servers in East Asia and Latin America, including AWS [Amazon Web Services]-hosted machines,” the Check Point Research article said. “SpeakUp acts to propagate internally within the infected subnet, and beyond to new IP ranges, exploiting remote code execution vulnerabilities. In addition, SpeakUp presented ability to infect Mac devices with the undetected backdoor.” The origin of the malware appears to be in East Asia, although its developer may be Russian.

Check Point Research said the sample it analyzed had targeted a machine in China on January 14. Once the software successfully registers a victim, it receives commands to manipulate the machine to download and execute various files. Check Point Research said SpeakUp serves XMRig cryptocurrency miners listening to infected servers.

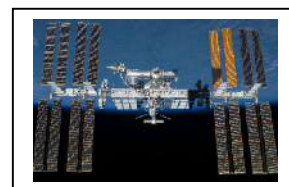
“SpeakUp’s obfuscated payloads and propagation technique is beyond any doubt the work of a bigger threat in the making,” Check Point Research concluded. “It is hard to imagine anyone would build such a compound array of payloads just to deploy few miners. The threat actor behind this campaign can at any given time deploy additional payloads, potentially more intrusive and offensive. It has the ability to scan the surrounding network of an infected server and distribute the malware.”

Linux is a family of free, open-source operating systems based on the *Linux* kernel first released in 1991 by Linus Torvalds.

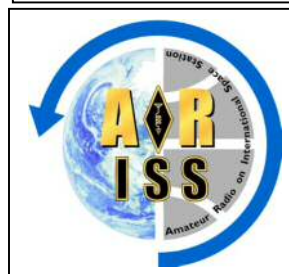
ISS Packet Radio System is Back in Operation with New Equipment

02/08/2019

The Amateur Radio on the International Space Station ([ARISS](#)) packet system is back on the air with new equipment. The replacement gear arrived last November and had been awaiting unpacking and installation. ARISS hardware team members on the ground were able to locate a functional duplicate of the old ISS packet TNC module that had been in operation for 17 years and had become intermittent. Crew members installed the new module on February 2; the RF gear remains the same.



The ISS packet system, located in the ISS *Columbus* module, went down in July 2017, but it unexpectedly came back to life the following summer. The packet system operates on 145.825 MHz. ARISS is an official back-up system for astronauts to talk with Mission Control in the unlikely failure of the station’s primary communication systems.



In 2017, hams relayed nearly 89,000 packet messages via the ISS; response to its recent return has been enthusiastic, ARISS said.

[Contribute](#) to the all-new radio system set to launch this year via the ARISS website. For more information, contact ARISS-International Chair [Frank Bauer, KA3HDO](#), or ARISS ARRL Delegate [Rosalie White, K1STO](#). — Thanks to ARISS

FCC Invites Comments on Amateur Radio-Related Petition for Rule Making

02/11/2019

The FCC has invited public comments on a *Petition for Rule Making* ([RM-11826](#)) from an Ohio radio amateur seeking to amend the Part 97 station identification rules to better accommodate and simplify station identification during an emergency net, drill, or activation. ARRL member Robert A. Dukish, KK8DX, filed the petition in December, and the FCC put it on public notice this week. Dukish seeks a change to Section 97.119(a) of the rules, which requires an amateur station to transmit its “assigned call sign on its transmitting channel at the end of each communication, and at least every 10 minutes during a communication.”



He noted that during emergency networks, requiring participating stations — often portable — to use their assigned call signs during each transmission could prove “burdensome and can hinder the flow of emergency traffic on the channel.”

Specifically, he is suggesting that a simple approach would be to permit the net control station or other designated participant to announce from a single point the call signs of every station taking part in the net or exercise, when tactical call signs often are in use, at 10-minute intervals, using automatic CW identification.

Dukish suggested amending Section 97.119(a) to add, “except during a local emergency network activation or drill,” and providing that in such situations, a net control or designations station would be “authorized to announce all participating stations’ assigned call signs at no more than 10-minute intervals while the net is in progress.” The amendment would provide that participating stations “be within a 50-mile distance of the identifying station, and each individual station must self-identify by transmitting its assigned call sign at least once per hour.” CW transmission could be no faster than 25 WPM if sent automatically to satisfy the suggested amendment.

In his petition, Dukish noted petitions filed in 2005 and 2006 seeking changes to the Amateur Radio station identification rules. The FCC did not adopt either proposal.

Interested parties may comment via the FCC Electronic Comment Filing Service ([ECFS](#)).

HAM RADIO 2019 Set for June 21 – 23 in Friedrichshafen, Germany

02/09/2019

[HAM RADIO 2019](#) and the 70th Lake Constance Convention, both organized by the Deutscher Amateur Radio Club (DARC), Germany’s International Amateur Radio Union (IARU) member-society, will take Friday, June 21, until Sunday, June 23, in Friedrichshafen on Lake Constance. [Contact DARC](#) for discounted accommodations.



“We very much hope that, again, many representatives of the IARU member-societies will be able to attend HAM RADIO,” said DARC Secretary for International Affairs Thomas Wrede, DF200.

An informal meeting for representatives of IARU member-societies will take place on June 21. Youth days and a ham rally will take place on Friday and Saturday. On Friday evening, three anniversaries will be celebrated: 70 years of Lake Constance Conventions, the 90th anniversary of DARC’s *CQ (DL)* journal, and the 44th HAM RADIO gathering.

FCC: Supplier’s Declaration of Conformity Procedures are Now in Effect

02/16/2019

The FCC is reminding electronic device retailers that Supplier’s Declaration of Conformity (SDoC) procedures are now in effect and being enforced. In an FCC *Enforcement Advisory* released February 15, the FCC Enforcement Bureau (EB) pointed out that marketers of RF devices may be subject to new compliance requirements provided in the SDoC procedures.

“In general, a device subject to SDoC is one that does not purposely transmit an RF signal for communications purposes, i.e., it does not send voice and/or data to a wireless receiver,” the *Advisory* said. Such devices are known as “unintentional radiators,” and most devices subject to SDoC are described in Sections 15.101(1) and 18.203 of the FCC rules.



Two separate procedures are in place to address equipment authorization of RF devices — SDoC and Certification. In July of 2017, the FCC amended some rules regarding the authorization of RF equipment, and those changes became effective in November of that year, with a 1-year transition period to phase out two equipment authorization procedures — Verification and Declaration of Conformity — and replace them with SDoC. The transition period ended on November 2, 2018.

According to the FCC Office of Engineering and Technology (OET), the list of devices subject to SDoC covers “equipment that does not contain a radio transmitter and contains only digital circuitry — such as computer peripherals, microwave ovens, ISM [Industrial Scientific Medical] equipment, switching power supplies, LED light bulbs, radio receivers, and TV interface devices.” The OET said for equipment that contains *both* unintentional radiators and intentional radiators, the unintentional radiator portion generally may be authorized under either SDoC or certification, while intentional radiators such as radio transmitters, contained in the equipment are typically required to be certified. The OET notes, “Some unintentional radiators do require certification, such as scanning receivers, radar detectors, and access broadband over power line (Access BPL) equipment.”

In a separate *Enforcement Advisory* released on February 15, the FCC cautioned LED sign marketers to comply with FCC rules, noting that the EB has “observed a growing number of companies” marketing noncompliant LED signs. In general, LED sign panels are subject to SDoC procedures.

The OET said it’s not necessary that equipment authorized using the SDoC procedure be tested at an FCC-recognized accredited testing laboratory.

HamSCI Workshop Receives National Science Foundation Grant

02/15/2019

The [HamSCI Workshop](#) March 22 – 23 at Case Western Reserve University ([CWRU](#)) in Cleveland, Ohio, has received a supporting grant from the National Science Foundation ([NSF](#)). Organized and administered by the New Jersey Institute of Technology ([NJIT](#)), the conference is hosted by the CWRU Amateur Radio Club (W8EDU). [Registration](#) remains open, and papers and presentations are invited.

“We are especially looking for speakers with presentations showing analysis of ionospheric observations, ideas and proposals for the design of the Personal Space Weather Station and instrumentation for the 2024 eclipse,” HamSCI’s Nathaniel Frissell, W2NAF, said. Other presentations related to Amateur Radio and science also are welcome. Email abstracts to hamsci@hamsci.org.

The theme for this year’s conference will be “Ionospheric Effects and Sensing,” including the use of Amateur Radio techniques to characterize and study ionospheric phenomena. Discussion will include continued development of the [HamSCI Personal Space Weather Station](#) and integration of Amateur Radio into the collegiate curriculum.

Featured speakers will include well-known Amateur Radio author [Ward Silver, N0AX](#), propagation specialist [Carl Luetzelschwab, K9LA](#), and Larisa Goncharenko, who will talk on Space Science for Ham Radio Operators. The NSF conference grant from the [Geosciences Directorate](#) will facilitate conference activities and associated logistics.



ITU WRC-19 Conference Preparatory Meeting Under Way in Geneva

02/18/2019

The second Conference Preparatory Meeting (CPM) in advance of World Radio Communication Conference 2019 (WRC-19) this fall got under way on February 18 at International Telecommunication Union (ITU) Headquarters in Geneva. Delegates from around the world are attending.

This CPM will prepare a consolidated report that will support of the work of WRC-19, based on contributions from various administrations, study groups, and other sources concerning the regulatory, technical, operational, and procedural matters, and the inclusion of reconciled differences or of differing views and their justification.

Agenda items affecting Amateur Radio include the harmonization of the 50-MHz amateur allocation, 5G in the 47-GHz band (Amateur Radio has an allocation at 47.0 – 47.2 GHz in the US) and elsewhere, and studies concerning Wireless Power Transmission (WPT) for electric vehicles to assess the impact of WPT for electric vehicles on radiocommunication services and to study suitable harmonized frequency ranges which would minimize the impact on radiocommunication services from WPT for electrical vehicles.



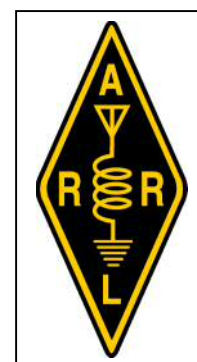
New Plan Aligns ARES with the Needs of Served Agencies

02/19/2019

The new [ARES Plan](#) adopted by the ARRL Board of Directors at its Annual Meeting in January represents an effort to provide ARES with a clearly defined mission, goals, and objectives; specific training requirements, and a system for consistent reporting and record-keeping. The Board’s Public Service Enhancement Working Group (PSEWG) spent more than 3 years crafting the ARES Plan which, ARRL officials believe, provides a much-needed update of the program’s role in public service and emergency preparedness in the 21st century. Concerns focused on bringing ARES into alignment with the National Incident Management System (NIMS) and Incident Command System (ICS), and creating more consistent and standardized ARES training requirements. Given dramatic changes and upgrades in national, regional, and local emergency and disaster response organizations, ARRL faced a major challenge, said ARRL Great Lakes Division Director Dale Williams, WA8EFK, who chaired the PSEWG.

“If we didn’t address these issues, such as training standards and organizational management, ARES faced the very real possibility that it would no longer be viewed as a valid and valuable partner in emergency and disaster relief situations,” Williams said.

With input from ARES members and a peer review team, and the assistance of emergency response officials with some partner organizations, the PSEWG came up with a plan that provides guidelines to ensure that ARES remains a service of organized, trained, qualified, and



credentialed Amateur Radio volunteers who can provide public service partners with radio communication expertise, capability, and capacity, Williams added.

A drafted ARES Plan was circulated among ARRL Section Managers (SMs) and Section Emergency Coordinators (ECs) to gather feedback. During the comment period from August through October 2018, the PSEWG heard from 55 ARRL Sections, representing 40 states — more than 125 pages of feedback in all. The PSEWG expressed appreciation to all who submitted comments and ideas.

The PSEWG reviewed every comment and suggestion, identifying about a dozen key items commonly cited by those in the Field Organization to improve the plan.

Based on input from ARES participants, the training requirements in the final ARES Plan consist of the free FEMA Professional Development Series. The series comprises these independent study (IS) courses: 120.c, 230.d, 235.c, 240.d, 241.b, 242.b, and 244.b (as they may be amended), as well as the ARRL's EC-001 and EC-016 emergency communication courses. As part of adopting the ARES Plan, the ARRL Board approved a proposal to make the ARRL EC courses free for ARES members.

The plan highlights some additional training programs that ARES participants are encouraged to consider taking, but that are not required, such as AUXCOMM and training courses like ICS-300 and ICS-400.

The ARES Plan outlines a three-tiered membership structure based on increased responsibility levels and accompanying training requirements. Although the tiers are not a required path, they serve to define three distinct ways to participate in the ARES program; it's up to the participant to determine his or her level of involvement.

The ARES Plan points out that public service events such as parades and marathons are within the realm of ARES activity and are, in fact, a key part of it, because such events are an integral part of effective training.

In recognizing the local and regional nature of emergency communication needs in disaster response activations, the Plan notes that training requirements are ultimately the responsibility of the Section Manager, with each SM approving training for local ARES teams, as local conditions and needs dictate.

The ARES Plan also highlights the relationship between ARES and the National Traffic System (NTS). The PSEWG indicated that it will continue moving forward with efforts to find ways to refine and strengthen that relationship.

While the intent of the ARES Plan is to align the ARES organizational structure with the NIMS and ICS systems, Williams noted that, within the ARES structure, the Emergency Coordinator (EC) will continue to lead the ARES team locally during an incident, while the District and Section Emergency Coordinators will continue to serve as resources and support for the EC. (The emergency preparedness staff at ARRL is in the process of updating the EC manual.) The ARES Plan stresses that ARES participants are not first responders, and it encourages ARES leaders to develop and grow their group's partnerships with state emergency management agencies and officials. Williams said the adoption of the ARES Plan is not the end of this process.

"ARES cannot remain stagnant only to be updated once every few generations," he said. "The ARES Plan, and the ARES program, must be able to evolve." Williams added that the ARRL Headquarters emergency preparedness staff will review the program annually to ensure its continued relevance.

Russian "Sunflower" Coastal Radar Showing Up on 60, 40, and 75 Meters

02/25/2019

The January issue of the IARU Region 1 Monitoring System (IARUMS) [newsletter](#) reports the Russian "Sunflower" coastal radar, located east of Vladivostok, is being heard at nights on 3,716 kHz and 6,860 – 7,005 kHz, as well as on several 60-meter frequencies.

A Chinese wideband over-the-horizon (OTH) radar also appeared on 7.000 MHz in early January.

While 60 meters and 80/75 meters are shared bands, the 7.000 – 7.200 MHz segment of 40 meters is currently allocated exclusively to the Amateur Radio Service worldwide. True intruders are those appearing on exclusive Amateur Radio frequency allocations.

Some domestic Amateur Radio HF allocations outside Region 2 (the Americas), such as 7.200 to 7.300 MHz, are either shared with other services or not available to radio amateurs. On HF allocations such as 30 and 60 meters, Amateur Radio is secondary to other users. The 20-, 17-, 15-, 12-, and 10-meter bands are exclusively available to the Amateur Radio Service worldwide.

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I'd Like To See/Do....

TOPIC	YOUR INTEREST LEVEL			COMMENTS
	Meh 	Ok	Yayy! 	
All about coax cables				
Amateur Radio Satellites				
Antenna construction project				
Antenna ordinances				
ARES, ACS, CERT, RACES, MARS, SkyWarn				
Assembling a Go-Box				
Assembling a test lab				
Best bands to get on & what to expect				
Construction projects, like _____				
DXpeditions				
Ferrites, and demonstrations of.				
Field Day – Strategies, Tactics and Techniques				
FRS & GMRS - what are those?				
Ham Radio projects for Arduinos & Raspberry Pi				
VHF Digital Modes: D-Star, Packet, APRS				
HF Digital Modes: RTTY, JT65, WSPR, PSK31, PACTOR, FT8				
How to use a DMM (Digital Multimeter)				
How to use an oscilloscope				
License Upgrade Class				
Local Repeaters You Can Hit				
MESH				
Moonbounce				
More social events, picnics, etc.				
NVIS for regional HF communications				
QSLs, QSL cards, ARRL LOTW, eQSL				
Resistors & Capacitors - explained & demonstrated				
SDR - Software Defined Radios				
Compact HF antennas				
Soldering				
Sulphur Mountain Repeater Association				
SWR, Meaning and Measurement.				
T-Hunting				
Troubleshooting				
Vacuum Tubes				
VHF and Above Contesting				
What's DTMF, CTCSS, and PL?				
Power amplifiers and receiver preamplifiers				
Assembling Emergency Supplies				
The Love of Morse Code. Keys, Paddles & Bugs.				
The HF Reverse Beacon Network				
Nothing, I just want to get out of the house.				
ARRL American Radio Relay League topics				

I can give a presentation on:	

ARRL Field Day 2019 Rules

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



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

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

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

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

6. Miscellaneous Rules:

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

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

7.1. QSO Points:

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

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

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

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

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

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

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

- 7.3.5. Message Origination to Section Manager:** 100 bonus points for origination of a formal message to the ARRL Section Manager or Section Emergency Coordinator by your group from its site. You should include the club name, number of participants, Field Day location, and number of ARES operators involved with your station. The message must be transmitted during the Field Day period and a copy of it must be included in your submission in standard ARRL radiogram or no credit will be given. The message must leave or enter the Field Day operation via amateur radio

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RF. The Section Manager message is separate from the messages handled in Rule 7.3.6. and may not be claimed for bonus points under that rule. Available to all Classes.

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

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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 two ways:

8.1.1. Via Field Day Web App at field-day.arrl.org ;

8.1.2. Via email with required attachments 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 23, 2019. Late entries cannot be accepted.

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

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

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

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

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

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

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

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

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

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

8.5.1. A complete and accurate ARRL summary sheet;

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

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

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

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

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

8.9. Electronic submissions are considered signed when submitted.

9. Miscellaneous:

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

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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 2/2019

