



This Month's News: Expanding our Skills

The September 10th meeting was held at The Dudley House at 19:00 and was conducted by our club President Robert KM6RSS. Our topic was "Boy Scout Radio Merit Badge", presented by Tim Tenopir KN6JGB. One of our previous visitors joined the club (Dick Hinson KB0JOU). We had 15 attend the meeting. Both donated and "freebie" items were brought and several items were purchased, much to the delight of our Club Inventory Manager, Denney Pistole N6HV. Many thanks to all who brought refreshments!

The October 8th meeting will be held at The Dudley House at 19:00 and will be conducted by our club President Robert KM6RSS. Our topic will be "What is a nanoVNA good for?" to be presented by Clement Alberts KM6OKZ. Visitors are always welcome to attend our meetings. We will observe the applicable Ventura County Health Rules and Regulations at the meeting; see our K6MEP.groups.io social site for the latest update.

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Message from the President

The Prez Sez,

I was recently asked “Why is our club affiliated with the ARRL and what does that mean to us as VCARC members”?

I’ll answer the first question in this month’s column and address the second question in the November Keyer.

When our club was formed on May 5th 1938, the members voted to form the club and affiliate it with the ARRL. There were four documents that were required to be submitted:

Resolution of Affiliation, Initial Club Detail Report, Membership Roster and Club Constitution and By-laws.

The Resolution of Affiliation. Our club agreed that (updated to represent the current affiliation application):

“WHEREAS, this organization has been invited by the American Radio Relay League, Inc., to become affiliated with it in its work, and is willing to cooperate with the League in its activities in Amateur Radio operation and desires to become associated therewith, and is aware of the mutual benefits to be obtained through such an alliance, be it RESOLVED: that this organization hereby requests affiliation with the American Radio Relay League and agrees to engage actively in the work of the ARRL through the stations of its members and under jurisdiction of the recognized officials of the American Radio Relay League, to the extent permitted by the radio communication laws and regulations.”

(Continued on Next Page)

Club Officers	And Keyer	Contributors
President	Robert Shank	KM6RSS
Vice-President	Clem Alberts	KM6OKZ
Secretary	Pedro Morillas	K6MIL
Treasurer	John Gartman	W6JPG
Board Member	Richard Abbey	WB6AEW
Board Member	Dave Schmidt	AI6VX
Board Member	Mark Swaney	KD6ASL
Program Manager	Open	Please volunteer
Equipment Mgr.	Denney Pistole	N6HV
Refreshments	Linda Shank	
Facilities	Richard Abbey	WB6AEW
Keyer Editor	Robert Shank	KM6RSS
Webmaster	Robert Shank	KM6RSS
Domain	Phil Cohen	WA6BUZ
Membership	Open	Please volunteer
License Trustee	Dave Schmidt	AI6VX
QSL Manager	Ben Holmes	K6QV
Safety Officer	Mark Vodon	KI6PTE
PIO/Trivia	Dana Wentling	KG6WXE
Columnist	Reese West	KQ6TT
Columnist	Steve Noll	WA6EJO
ACS/ARES	Rob Hanson	W6RH
SB Section	John Kitchens	NS6X
PVARC/MESH	Paul/Orv	WD6EBY/W6BI

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 about amateur radio. Layout and logos are the property of The Ventura County Amateur Radio Club, K6MEP.

The stories printed in this journal remain the property of the writers, without whom we would not have a publication.

Permission to reprint articles should be obtained from the authors. Articles and photos from the ARRL are reproduced with permission. Material submitted for inclusion is encouraged.

Submit material by email to KM6RSS@gmail.com. Our club mailing address is:

K6MEP
PO Box 2103
Oxnard, CA 93034-2103

K6MEP holds general membership meetings at 7:00 PM on the 2nd Friday of each month (except December). Dues are \$20 per year.

Message from the President (Continued)

The document defined an affiliation category (there are currently four) and ours was “Local Amateur Radio Club” which required:

“...at least 51% of the voting members must be Full or Associate members of the League, and at least 51% of the voting members must be licensed radio amateurs. Note that this is voting members, not necessarily total members”

Initial ARRL Club Detail Report. Our club provided the club name, call sign, ARRL section (Santa Barbara), Division (Southwestern) and other communication details.

Membership Roster. A complete membership roster was also submitted, that stated:

“To become affiliated with the ARRL, at least 51% of your club’s voting members must also be ARRL members. If your group is a school or youth club, only one member, either the faculty advisor or club president must be an ARRL member. Please complete this roster of your club’s members. We will check to determine if each member’s ARRL membership is current...”

Club Constitution and By-laws.

Our club submitted a document that followed the requirements as of the date of the application. Included were the following (that reflects our Articles of Incorporation and our Bylaws:

I. Name of the Organization, II. Purpose of the Organization, III. Membership requirements, IV. Meetings, V. Officers of the Organization, VI. Election / Removal of Officers, VII. Finances, VIII. Dissolution of Assets if necessary, IX. Permanent Committees of the Organization and X. Process for Writing/Amending By-Laws or Constitution.

According to our club information on the ARRL website (see next page), we have updated our information to show the required information and our secretary, Pedro K6MIL, is the contact:
(Continued on Next Page)

Message from the President (Continued)

Ventura County ARC

Basic Information

Call Sign: K6MEP

Annual Report: Sep 02nd 2021

Meeting Time: 2nd Friday Monthly at 7:30 PM except December

Meeting Place: Dudley House, 197 N. Ashwood, Ventura CA 93003

Section: SB


Affiliation Date: Mar 05th 1938

Specialties: General Interest

Services Offered: Club Newsletter, Mentor

Description: We welcome new Hams, old Hams, and non-Hams who are interested in learning about radio communications and sharing the friendship and camaraderie of the local Ham community. Local ARRL license exams can be located in our Keyer newsletter. We are also planning activities such as picnics, breakfasts, and, of course, Field Day!

Links: <http://www.qsl.net/k6mep>

**Contact Information**

Club Name: Ventura County ARC

Call Sign: K6MEP

Contact: Pedro P. Morillas K6MIL

Club Statistics


Club Members: 52

Voting Members: 50


Voting Licensed Amateur Members: 50

Voting ARRL Members: 36


Ventura County ARC Officers




CONTACT, SECRETARY
Pedro P. Morillas K6MIL



PRESIDENT, EDITOR
Robert S. Shank KM6RSS
[View Profile](#)



TREASURER
John P. Gartman W6JPG



VICE PRESIDENT
Clement M. Alberts KM6OKZ
[View Profile](#)

For more information, please click on the address below and your browser should take you to the details

[http://www.arrl.org/files/file/Clubs/Affiliation%20Application%20\(Sep%202021\).pdf](http://www.arrl.org/files/file/Clubs/Affiliation%20Application%20(Sep%202021).pdf) .

If you have any questions about this or other club information, please contact me or any of the club board members; we will do our best to provide answers. (Continued on Next Page)

Message from the President (Continued)

My safety share for the month of October is "Fire Prevention" (from <https://www.nfpa.org/News-and-Research/Publications-and-media/Blogs-Landing-Page/Safety-Source/Blog-Posts/2021/06/08/NFPA-announces-Learn-the-Sounds-of-Fire-Safety-as-theme-for-Fire-Prevention-Week-2021>)

The NFPA's 2021 campaign for Fire Safety Month is "Learn the Sounds of Fire Safety." According to the latest NFPA "Smoke Alarms in the U.S." report, working smoke alarms in the home reduce the risk of dying in a reported fire by more than half. However, almost three out of five home fire deaths occur in homes with no smoke alarms (41 percent) or smoke alarms that failed to operate (16 percent); missing or non-functional power sources, including missing or disconnected batteries, dead batteries, and disconnected hardwired alarms or other AC power issues, are the most common factors when smoke alarms fail to operate. People tend to remove smoke alarm batteries or dismantle alarms altogether when the alarm begins to chirp as a result of low batteries or the alarm is no longer working properly, or when experiencing nuisance alarms. These behaviors present serious risks to safety that can have tragic consequences in the event of a fire.

Learn the Sounds of Fire Safety helps people better understand the reasons smoke alarms may sound and provides the know-how to effectively address them. The campaign also addresses special considerations for the deaf and hard of hearing, along with information about carbon monoxide alarms.

Key messages for "Learn the Sounds of Fire Safety" include:

When a smoke alarm or carbon monoxide (CO) alarm sounds, respond immediately by exiting the home as quickly as possible.

If your alarm begins to chirp, it may mean that the batteries are running low and need to be replaced. If the alarm continues to chirp after the batteries are replaced, or the alarm is more than 10 years old, it is time to replace the alarm.

Test all smoke and CO alarms monthly. Press the test button to make sure the alarm is working.

If there is someone in your household who is deaf or hard of hearing, install bed shaker and strobe light alarms that will alert that person to fire.

Know the difference between the sound of a smoke alarm and a carbon monoxide alarm – three beeps for smoke alarms; four beeps for carbon monoxide alarms.

For more information about Fire Prevention Week, October 3-9, 2021, and this year's theme, "Learn the Sounds of Fire Safety," along with a wealth of resources to help promote the campaign locally, visit fpw.org.

73,
Robert KM6RSS

Message from the Secretary Pedro K6MIL

New Members: **Dick Hinson KB0JOU** joined the VCARC at the September meeting. We extend you a warm welcome and offer our assistance as you journey through the ham radio world. Please do not hesitate to reach out to us for anything; we are always happy to help.

We are in the last quarter of 2021; hard to believe. Among all the family and radio activities we have coming, there are two items require our attention:

1. Payment of 2022 dues. Pursuant to our Club's by-laws, annual membership dues are payable in during month of October. For the first time ever, you will receive an invoice via email on October the 15th.

We urge you to pay with your PayPal account (if you have one), but we will also accept checks mailed to our Post Office Box, and, of course, in cash or check during our next meeting on October 8.

2. During our general membership meeting on November 12, the club will hold its yearly election of officers for 2022. Nominations will be accepted anytime and you can write in a candidate's name if that person agrees to run. All full members are encouraged to submit her/his nomination and to vote. During the month of November, we will send notifications and any other instructions that might be required.

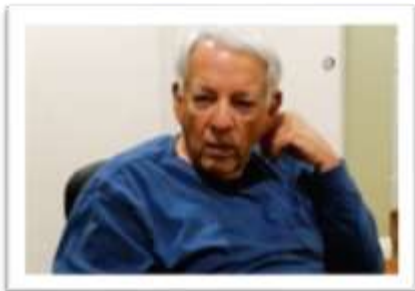
3. Robert KM6RSS, the Club Historian, has taken the task of cataloguing our Club's history. Please look into your files and send him anything you feel should be included. He accepts old photos, anecdotes, old newspapers articles; anything that has to do with the club's history.

4. We now have a list of club "Elmers". They are:

Name	Call	License Level	Specialty
Clem Alberts	KM6OKZ	Extra	VE
Bob Brodie	KJ6AAE	Tech	Safety
Denny Pistole	N6HV	Extra	EME
Robert Shank	KM6RSS	Extra	Winlink and Packet
Mark Thompson	AE6GD	Extra	Morse Code

73,

Pedro K6MIL Secretary (General)



K6MEP.org Website News Robert KM6RSS

We now have a “new” website!



It's based on the contents of our old website and still retains the URL (address <https://www.qsl.net/k6mep/index.html>). You type K6MEP.org in your browser to reach it. Menu or header links are at the top of the page. There are the Home, About, Resources, Presentations, Events, Members and Donate links. Below are the details for each header.

Home Page:

The **home** page has the “about us”, “current (ham radio) conditions”, and the latest meeting information. You can click on the “learn more” buttons at the bottom of each area to see an extended description of each topic. Also, at almost the very bottom of the page, are the Keyer newsletters. On all of the pages at the bottom is a “follow us” link for Facebook and MeWe, “Other links” for ARRL, the FCC amateur radio service, and QRZ.com, and a “share us” QR code.

About Page:

On the **About** page we have three headers: About us, History and Our Meetings.

On the “**About us**” section, our call sign is given and we invite anyone interested in amateur radio to explore our website and attend one of our meetings. We provide the details for our meetings; the what, when, and where. On the “**History**” section, there is a brief history about when our club was founded, where our members live and our mission statement.

Our affiliation and alignment with the ARRL is also included, as well as a link to the ARRL's website. The third header is “**Our Meetings**”. There is a photo of the Dudley House and a brief history. There is also a link to the Dudley House website where more information about tours, etc. can be found.

Resources Page: To the left of the page is the “**Learn Morse Code**”, the **Q-code** and a “**learn more**” link that takes you to the “HAM Radio Abbreviations: Q Signals and CW Abbreviations and Beyond” Hamprepper.com website. On the right side of the page is the link to the Keyer Newsletters, Amateur Radio Lessons site with the ARRL, a link to the Space Weather Prediction Center and links to ARRL Ham Radio Glossary, Ham Radio for Dummies Cheat Sheet, Beginner's Guide to Amateur (HAM) Radio, US Amateur Radio Frequency Allocations and Space Weather Woman.

Presentations Page: On the left of the page is the next meeting's presenter and topic. To the right is a list of recent presentations.

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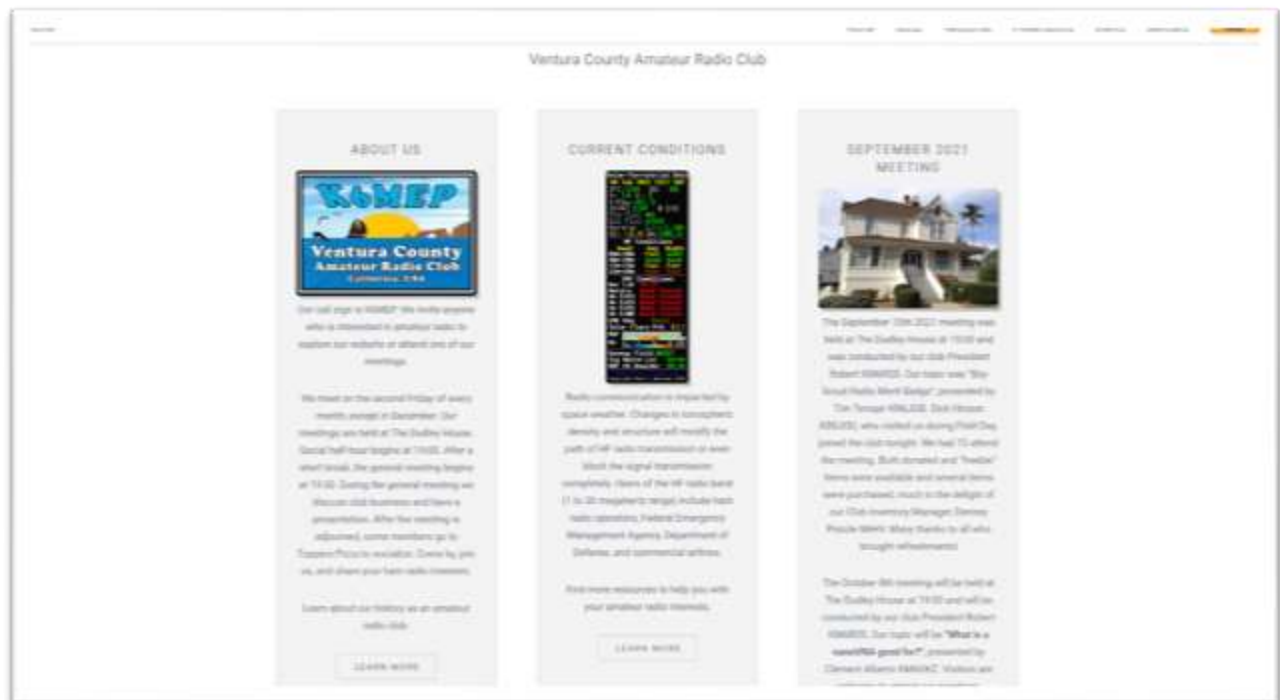
K6MEP.org Website News Robert KM6RSS

Events Page: In the upper center of the page is a **calendar** that can be changed to see past, current, and future events. Clicking on the event opens it up so that you can read the details. Below the calendar are three boxes; the left-most one has the **upcoming meeting details**, the center box has the **most recent meeting** and the right box has the **meeting previous to the recent one**. If photos were taken at the meeting, there will be a **“Photos box”** below the text. Below the meetings boxes are other events, such as our **recent picnic**, and a photo of the **Dudley House**, with a map, as well as a link to **Toppers** where many of us go for pizza after the meetings.

Members Page: This page has a left and a right section. On the left is our **“For Sale/Wanted”** section, where there is a box that says **“For Sale”** that links to a spreadsheet where the items are listed as well as a **“photos box”**, that shows the photos for the items. (**From the October edition of the Keyer on, all of the “for sale” and “wanted” items will be listed on the website and not in the Keyer**). On the right section of the page is a statement about our meetings and our nets. Also listed are links to our current **Bylaws and Articles of Incorporation**. Below both sections is a **list of our board members**, showing the title, full name, call sign and email address.

Donate: The final header menu is the **Donate link**. Clicking on it takes you to the PayPal website where you can pay your club dues, make donations, or pay for club items that you have purchased from the club during meetings or directly from Denney.

If you have any questions or recommendations about the K6MEP.org website, please contact me. 73, Robert KM6RSS



Minutes of the September 5th 2021 Board Meeting

- President Robert Shank opened the meeting at 19:00 via Zoom. All club members were invited to attend the Zoom meeting.
 - Attendees
 - Robert Shank, President
 - Clem Alberts, Vice President
 - Pedro Morillas, Secretary
 - John Gartman, Treasurer
 - Dave Schmidt, Board Member At Large
 - Mark Swaney, Board Member At Large
 - Not in Attendance
 - Richard Abbey, Board Member At Large
 - The meeting opened at 19:04 and there were 6 out of a possible 7 board members present. Stewart Stone was the only guest.
 - **Secretary's Report:** We now have 52 paid-up members.
 - Board and general membership minutes from August meeting were accepted as published in the September Keyer.
 - It was confirmed that the Secretary has added the new members to the roster and that the updated membership process is working.
 - **Treasurer's Report:** The treasurer provided the details for our savings, checking and petty cash account.
 - **Old Business**
 - Member's Health and Safety
 - Board unanimously voted and approved holding September's General Membership Meeting at Dudley House based on the current Ventura County Health Department Regulations, with the addition of the following conditions:
 1. Masks will be worn at all times while in the meeting room
 2. No drinks or food will be consumed in the meeting room.*
 3. Members are welcome to attend and participate via Zoom
 - The Secretary will advise the membership via Groups.io.
 - **Inventory:**

The Board to decide no additional procedures are necessary to specifically indicate when donated items are offered for sale to the general public.

(Continued on next page)

Minutes of the September 5th 2021 Board Meeting (Continued)

- **By Laws**
 - Status report by Mark Swaney. Committee progress. Reviewing documents; comments and presentation to board in October.
- **PayPal**
 - “Auto-Sweep” has been implemented to automatically deposit into bank account as well as report source of deposit.
- **Accounting Process Discussion**
 - The Treasurer will go to Ventura County Credit Union (VCCU) to obtain two deposit-only cards or two ATM cards, to facilitate the electronic deposits.
 - Bylaws might have to be amended to authorize this change.
 - Status report on accounting package (VCCU, ZipBooks)
 - Members offered to provide clerical assistance while classifying account categories available in the VCCU’s accounting offering. The Treasurer accepted the offer.
 - Proposed account classifications will be sent to The Treasurer for his approval or editing
 - The President will access the VCCU account to insert/populate the existing data as required for reports.
 - Zips Books might be considered as an option. The Treasurer will decide what accounting software will be used after he is presented with both accounts populated with actual data
- **Social Functions**
 - All social functions will be included in the yearly budget.
 - Authorization by the Board is required, if not previously authorized in the yearly budget.
 - Members may be required to pay for their food, to defray costs of the function.
- **K6MEP Website “Facelift”**
 - Request for all members to provide club history to Club Historian
- **New Business:**
 - Youth Programs

(Continued on next page)

Minutes of the September 5th 2021 Board Meeting (Continued)

- Board must to authorize before proceeding with outreach program, including Youth Programs
 - Any member who desires to initiate an outreach program is encouraged to do so, after Board Authorization.
 - Authorization might be secured via email or in person presentation to the board.
- **Meeting adjourned at 8:38 PM.**

***The membership later voted to approve having refreshments.**

K6MEP September 10th, 2021 General Meeting Minutes

MEETING ADDRESS: The Dudley House 197 N Ashwood Ave, Ventura, CA93003

CALL TO ORDER at 19:30

Attendance: 15 members physically present; 5 members via Zoom, 1 guest

- Meeting call to order by President Robert Shank KM6RSS
- Welcome and Flag salute. At-large board member Richard Abbey WB6AEW led the Pledge of Allegiance

Introductions

- President Robert made introductions and welcomed current, new and prospective members (A.K.A. guests)
- New member Dick Hinson, KB0JOU from Iowa was introduced. He joined VCARC at the beginning of the meeting. Linda Shank joined during last month's meeting and is the club's refreshment coordinator.

Secretary's Report

- We have 52 members, gaining two additional members since last meeting and losing one. Dean Johnson KD6IJJ has moved to Idaho and left the club. Dick Hinson, KB0JOU joined the Club.
- Pedro reminded the membership that invoices for 2022 membership dues will be emailed October 15. Members were urged to pay through the PayPal account.
- Minutes of the September 5, 2021 Board meeting was read.

Treasurer's Report

- John reported the club's savings, checking, and petty cash amounts.

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K6MEP September 10th, 2021 General Meeting Minutes (Continued)

- Tonight's income: \$ 1,221.00 (\$40 from membership dues, \$40.00 donation, \$1,181 equipment sales from TRW and tonight's meeting)

Status of the club's inventory (Denney)

- Denney reported approximately \$1,000.00 was collected from items sold at TRW swap meet.
- Denney offered to take items to the swap meet for the members.
- The TRW swap meet takes place the last Saturday of each month.

Club picnic and breakfast get-togethers

- Robert announced the club picnic will take place tomorrow September 11, from 11:00 AM to 3:00 PM. There will be plenty of food and drinks for all attendees
- There will be a Club breakfast Saturday, September 18 at 8:30 AM. The location is Denny's restaurant in Camarillo.

New Website

- Robert showed everyone the new website and its features

Accounting

- John obtained an ATM card

New Business:

- There wasn't any new business

Presentation:

- We had a 15 minute break to set up for tonight's speakers (projector and screen)
- Introduction of tonight's speaker: Tim Tenopir: Youth Programs

"Tim is a senior scientist at the Naval Surface Warfare Center, Port Hueneme Division NSWC PHD). His academia background includes Associate, Bachelor, and Master of Science degrees in the mechanical and materials engineering fields. He's worked at NSWC PHD for over 42 years covering combat, communication, hull, mechanical, and electrical systems on many types of US Navy ships. Thus, his work often involves bridging and bringing together the mechanical, materials, radar and electrical engineering disciplines. As far as his social life goes, he is the Treasurer for the Oxnard Noontimers Lions Club/Foundation, serves as an usher at Mary Star of the Sea Church, and is very active in youth organizations such as YMCA Camp Arbolado and Scouting. He received his Amateur HAM license in the winter of 2020 and joined the Ventura County Amateur Radio Club shortly thereafter. He is currently working some major HAM radio projects, such as establishing amateur radio station capabilities at Camp Arbolado and thus the entire Barton Flats mountain area and starting outreach opportunities between the Ventura Amateur Radio club and local youth."

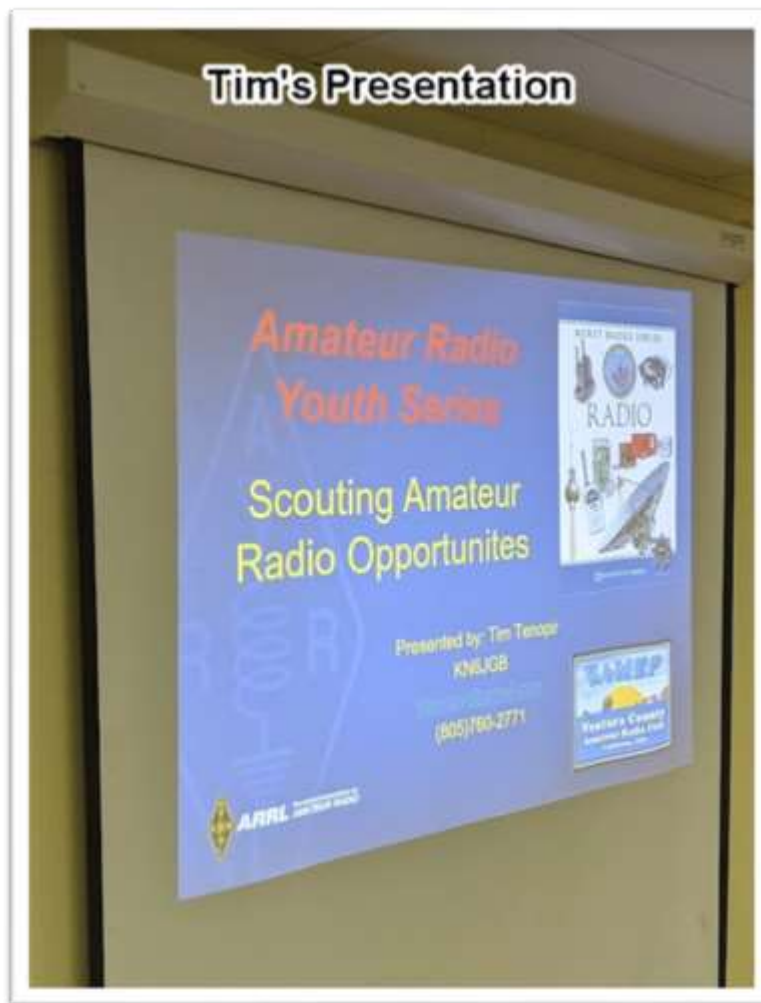
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K6MEP September 10th, 2021 General Meeting Minutes (Continued)

After the question period was over, Tim received applause and was thanked by Robert for all of his hard work and preparation. Robert asked Tim to send a copy of the presentation to be placed on the club's website.

- Robert thanked the members for their attendance and acknowledged those who brought refreshments.
- The attendees were invited to Toppers to socialize.
- Robert asked for a motion to adjourn the meeting, the motion was made, seconded and the members voted to adjourn.

The meeting was adjourned at 21:14 hours.



K6MEP Monday Night Net Update

Our 2021 Contest started on January 11 and will end on December 6th. Make sure to set your calendar alarms to remind you to check-in and join the Zoom get-together that follows.

Our Net is held each Monday night at 20:00 hrs. local time (we won't hold the net on Christmas Eve/Day or New Year's Eve/Day if they fall on a Monday). We welcome all Ham operators so please check-in and join the roundtable discussion. The net is on Two Meters on the WD6EBY Repeater of Oxnard on 145.200 MHz with a negative offset and a PL of 127.3. Many thanks to PVARC and Paul WD6EBY for hosting our meeting on the repeater. We also have a Zoom meeting following the net at 20:30; see K6MEP.groups.io for details.

The rules are as follows: The person who checks-in to the K6MEP Monday Night Net Contest must hold a valid Amateur Radio License. If a non-member wins, they will be given a two-year membership in the club. The awards consist of \$100.00 for first place, \$50.00 for second place and \$25.00 for third place. In case of ties, the awards will be split equally among the members who qualify for the monetary award.

To give those who are interested in the experience of being part of our Monday Night Net Contest as Control Operators, we've created a sign-up sheet so that all those who would like to get in front of their microphones and lead our nets have a chance. Many thanks to all of our members who have volunteered and provided our net control operations. There are still openings for net control operators, as shown in the table on the next page: (Continued on next page)



K6MEP Monday Night Net Update (Continued)

Date	Net Control Operator
4-Oct	Tim KN6JGB
11-Oct	Open; please volunteer to take the net
18-Oct	Burt KA6BJA
25-Oct	David AI6VX
1-Nov	Open; please volunteer to take the net
8-Nov	Open; please volunteer to take the net
15-Nov	Open; please volunteer to take the net
22-Nov	Open; please volunteer to take the net
29-Nov	Jeremy KN6JMD
6-Dec	David AI6VX and the net contest will be complete after this net is over.

If you would like to volunteer, please contact me with the date you would like and I'll update the list, which is saved to our K6MEP.groups.io website.

As of September 30th, we've held 38 nets and had a total of 680 check-ins including 117 visitor check-ins and an average of 17.89 per Monday night. 3 members have checked in every Monday night for 38 Monday nights in a row. They are Dave AI6VX, Robert KM6RSS and Denney N6HV. On the next page is the Monday Night Net Contest Totals to Date. Our groups.io has all of the documents in the files folder.



K6MEP Monday Night Net Update (Continued)

Monday Night Net Contest Totals to Date			
Week #	Date	Total	Visitors
1	1/11/2021	22	4
2	1/18/2021	22	3
3	1/25/2021	22	6
4	2/1/2021	18	3
5	2/8/2021	17	2
6	2/15/2021	18	3
7	2/22/2021	20	4
8	3/1/2021	17	3
9	3/8/2021	26	8
10	3/15/2021	20	5
11	3/22/2021	22	7
12	3/29/2021	17	3
13	4/5/2021	20	7
14	4/12/2021	19	4
15	4/19/2021	18	3
16	4/26/2021	17	4
17	5/3/2021	20	4
18	5/10/2021	13	2
19	5/17/2021	15	1
20	5/24/2021	19	5
21	5/31/2021	16	2
22	6/7/2021	20	3
23	6/14/2021	14	2
24	6/21/2021	23	5
25	6/28/2021	14	1
26	7/5/2021	21	5
27	7/12/2021	19	2
28	7/19/2021	17	2
29	7/26/2021	16	1
30	8/2/2021	17	1
31	8/9/2021	16	1
32	8/16/2021	13	2
33	8/23/2021	16	1
34	8/30/2021	16	1
35	9/7/2021	16	1
36	9/13/2021	14	2
37	9/20/2021	15	2
38	9/27/2021	15	2
Total		680	117

Heard on the Net by Denney N6HV

The Monday night Ventura County Amateur Radio club two meter net is going strong. On Monday the 27th we had 15 check-ins. This is your net, check-in and say hello, listen in, or join in and get your questions answered.

During the round table Burt KA6BJA and Robert KM6RSS told us about the test run for the upcoming “Did You Feel It” (earth quake drill) event. They found that HF does not work well for local communication. It will work for stations that are a couple of blocks from each other, but for county wide communication it was a bust, even when using Near Vertical Incidence Skywave (NVIS) antennas.

The club has had experience with trying to set up HF nets and having trouble connecting with members throughout the county.

This points out our dependence on repeater during emergencies. But repeaters are susceptible to fire and prolonged power outages. The power outages can cause the backup generators to deplete their fuel reserves, plus long periods of smoke and storm cloud cover can prevent solar arrays from powering the repeaters.

Burt and Robert also talked about channel management. Keeping everyone from talking at once is hard. It is a good thing to practice now and it’s not something to hash out in a disaster.

They both mentioned using cell phones with a program called Zello, but remember hurricane Ida knocked out 1437 cell phone sites. Some of those sites had their towers knocked over. In my home town there have been minor earthquakes that have shifted cell towers and disrupted the microwave link that connected the site to other sites.

Keep up the good work, but don’t get dependent on one way of communicating.

Dave AI6VX got himself a signal generator. Sounds like it needs a little work, but he’s gathering a good set of test equipment. He also got another scanner at the TRW swap meet.

Jeremy KN6JMD got his two meter beam antenna in that will replace the one he borrowed. He’s looking for a mast to put it on. He uses the beam to ensure a solid signal into the ARES nets.

Mark KI6PTE is continuing to work on the wing tips of his airplane. He also has friends in Wyoming that are working on getting their ham license.

Pedro K6MIL noted that propagation was poor the previous week.

John W6JPG’s dog went silent bark. I know how it feels when you lose a longtime friend.
(Continued on the next page)

Heard on the Net by Denney N6HV (Continued)

Clem KM6OKZ was grossing about having to figure out how to use night vision goggles. He did say that he and Mark WA6ASL have gone over the rewrite of the club's bylaws. A second draft is in the works. Clem also said he worked several stations, propagation is not great but there are stations to work out there.

Jim KG6GCC, a visitor to the net who lives in Camarillo, checked in and said he was trying to get on WINLINK. Several hams on the net offered to help him with WINLINK and he was offered a flurry of advice during the net.

Tim KN6JGB got an Arrow antenna in. He plans to use it for satellite and portable work.

Simhan KM6ZXP, a steady visitor to our net from Camarillo, asked for some help. I did not hear him well, I hope someone was able to get back to him and offer assistance. Robert KM6RSS, provided him his email address.

Paul WD6EBY has been on a cleaning spree. He got his garage in shape for the next big project. He was also on top of Chatfield peak cleaning up the brush and replacing antennas and equipment.

James KB6JWM bought a 15 foot mast to get his dish high enough to see over his neighbor's house.

After the net, the weekly zoom get together was held.

More discussion on the Great Shake Out preliminary test. There was a report that some participating hams tried to talk on the 60 meter digital frequencies. They were disappointed that the 80 meter net that they tried to set up did not work well.

Burt KA6BJA connected through Robert's station to get into Rob's VERA FM site. It worked well.

Both of them mentioned that Zello worked well. That led to most of the members on Zoom playing with their cell phones until they got Zello working. There was some confusion with the terminology that Zello uses (loading the program, users, groups, and channels).

Jeremy KN6JMD got some help from Dave AI6VX with programming DMR radios.

Burt and Robert are helping with the Ride for the Red event. This is a fund raiser for the Red Cross to support Red Cross services for the armed services. Stewart KG6BOV should be down for the event.

Denney N6HV

Thoughts from the West - Reese West KQ6TT

VOLTAGE GAIN WITH PASSIVE CIRCUITS

Last month we started to look at why the voltage in a simple antenna can be higher than the applied voltage. There are reasonable correlations between the antenna, a series RLC circuit, and a child on a swing.

Let's start with the child in a swing as discussed several months ago. When the swing is at rest, give it a little push. When it comes back, give it another small push. This causes the child to swing a little higher than the first push did. If you continue giving the same small push each time, the child will finally get to a steady state repeating constant height. This height is established when the energy lost each cycle equals the energy put in by each constant push. When the swing is at its highest point the energy is stored in the height. It is potential energy. When the swing is at its lowest point, the energy is stored in the velocity. The high point correlates with the series circuit when the energy is stored in the capacitor. The energy is $\frac{1}{2} * C * \text{Voltage}^2$. At the lowest point the energy correlates with the energy stored in the coil which is $\frac{1}{2} * L * \text{Current}^2$. Notice that the major amount of energy is stored from one push to the next push.

Now let us look at the series equivalent RLC circuit for the antenna. Assume that the antenna is driven by a sine wave voltage source with zero output impedance and a frequency where the impedances of the inductor and the capacitor are equal. Note that when the power source is turned on, it takes several cycles for a steady state current level to be established. It is steady state when the power lost each cycle is equal to the power input each cycle. The ratio of the total power stored divided by the power lost each cycle is the quality factor, Q, of the circuit. The long time stored energy in cycling back and forth between the L and the C lasts for a time even if no more power is applied. This stored energy in the circuit means that higher voltages exist than the applied level.

At the chosen frequency with the impedances of the L and the C being equal, they cancel and sum to zero in the series circuit. The current is simply the applied voltage, C, divided by the R. The ratio of the impedance of the L or the C divided by the R is the Q. The voltage across either the L or the C is the current times the impedance therefore the voltage across the L or the C is the applied voltage times the Q. In addition, the higher the Q, the narrower band the antenna is.

All this is a rough example of the stated problem of why the voltage at the open-circuited end of an antenna can be very high. The actual capacitance in the antenna is not a single capacitor at one point. It is distributed over the entire length of the antenna. It follows that an exact calculation of the end voltage is far more complex than what is shown here. How high can the voltage get at the end of a antenna? Roughly, arcing starts at thirty thousand volts per inch.

Laurice West KQ6TT

Ham Tips de Steve, WA6EJO

ANOTHER APPROACH TO BATTERY OPERATION...

The last free used gel cell batteries I got turned out to be duds. Next time I think I'll just buy new ones and be done with it. In the mean time I had a need to power my optical and microwave transceivers. I remembered I had some really nice Makita tool batteries. After the Thomas Fire I had to replace all of my tools and one of the first things I bought was a Makita circular "Skil" saw. Not a wimpy one, it takes two batteries and the saw kit came with four and a charger. I note that these 18V 5 Amp-Hour batteries charge quickly and power the saw, also my sander, drill, jigsaw, router, and vacuum for the longest time, seldom needing recharging. I was surprised to find that battery adapters for making electrical contact with these batteries are readily available from several manufacturers on Amazon and eBay. Also from Amazon or eBay a \$2 DC-DC buck converter reduces the 18V down to 12V albeit with a 3A limit. I'm looking for converters to handle the full battery output.



73, Steve WA6EJO

September 11th K6MEP Picnic

The September 11th 2021 K6MEP Fall Picnic was held at the beautiful Dudley House from 11AM to 3PM (15:00) and we had excellent weather. Seventeen members and their guests attended and enjoyed BBQ ribs and chicken, soft drinks, potato and other salads, chips and dip and desserts (including brownies). Many attendees brought main and side dishes and there was more than enough for everyone. Everyone remembered the terrorist attack on the United States, which ended lives and affected so many families and loved ones, occurred on this date twenty years ago. However, ham radio and other lighter subjects were also discussed and Denney N6HV, our club photographer and inventory guru, took many photos of the fun times. Thanks to those who arrived at the beginning of the picnic and helped carry the tables and chairs up to the patio, as well as set up the food and drinks. By the time 15:00 rolled around, there were a few of us left who cleaned up, moved the tables and chairs back into the basement, and made everything ship-shape for the next group to enjoy the Dudley House's conveniences. Thanks to all who brought food, camaraderie, and great stories to the picnic. More photos can be found on our K6MEP.org website under "Events".



September 18th Club Breakfast

The September 18th 2021 K6MEP Fall Breakfast (first one in a number of years) was held at Denny's Restaurant located at 1659 Daily Dr, Camarillo, CA at 8:30 AM. Although seven members responded that they would attend, there must have been some great openings in the early morning ham bands (20-30m) and only three attended (organizer Dana KG6WXE, Pam and Mark Swaney KD6ASL). Dana provided the photo, below, showing plenty of room and a great breakfast menu with coffee already poured.



The lonely life of a ham radio operator. 😊

Selected October Contests & Special Events

Please see QST or the ARRL website (www.arrl.org) for any details and QSL information.

Maty Weinberg, KB1EIB, events@arrl.org; www.arrl.org/special-event-stations

Special Event Stations

Working special event stations is an enjoyable way to help commemorate history.
Many provide a special QSL card or certificate!

Through Dec. 31, 0000Z – 2359Z, all calls, all areas. VE2GT and VE2NCG. **Quebec Parks on the Air (QCPOTA)**. Certificate. *This is an operating event. See website for details.* qcpota.ca

Mar. 15 – Nov. 30, 0000Z – 2300Z, I13VE, Venezia, Italy. ARI Venezia. **1,600 Years of the Foundation of Venice**. All bands. Certificate & QSL. Sezione ARI Venezia, S. Croce 1776/B, Venezia 30135, Italy. *Detailed rules on ARI Venezia website and QRZ.com for I13VE. Both I13VE and club call IQ3VE are valid. QSL via eQSL or bureau.* www.arivenezia.it

Sept. 18, 1300Z – 1900Z, W1M, Russell, MA. Western Mass Council BSA. **Moses Scout Reservation 75th Anniversary**. 14.250 7.250. QSL. eQSL or Tom Barker, WA1HRH, 329 Faraway Rd., Whitefield, NH 03598.

Sept. 18, 1400Z – 2100Z, W0EBB, Leavenworth, KS. Pilot Knob Amateur Radio Club. **Harvey House on the Air**. 28.380 21.380 14.280 7.260. Certificate & QSL. Charles Jackson, 717 Mt. Calvary Rd., Lansing, KS 66043. n0cs@arrl.net

Sept. 25 – Sept. 26, 1521Z – 1519Z, N0N, Lincoln, NE. Southeast Nebraska Amateur Radio Club. **85th Anniversary**. 7.180 14.230. Certificate & QSL. Charles Bennett, P.O. Box 67181, Lincoln, NE 68506. senebrradioclub@gmail.com or www.facebook.com/SENRC

Oct. 1 – Oct. 31, 0001Z – 2359Z, W2RDX/73, East Rochester, NY. Rochester DX Association. **73rd Anniversary**. 14.250; CW, SSB, and digital on all bands. QSL. Chris Shalvoy, K2CS (W2RDX), 512 Beechwood Dr., East Rochester, NY 14445. *New York QSO Party (NYQP) on Oct. 16; find rules at nyqp.org.* www.rdxa.com

Oct. 2, 1400Z – 2000Z, K8HO, Hillsboro, OH. Highland Amateur Radio Association. **World's Largest Horseshoe Crab Roadside Attraction**. 14.220 7.220. Certificate. Highland Amateur Radio Association, 21 Highland Dr., Hillsboro, OH 45133. highlandara@gmail.com

Oct. 2 – Oct. 3, 1500Z – 2359Z, W0D, Macon, MO. Macon County Amateur Radio Club. **Lester Dent — Doc Savage Special Event**. 14.250 7.200. Certificate. Dale Bagley, 1402 Eastern Dr., Macon, MO 63552. dbagley@cvalley.net

Oct. 2 – Oct. 5, 1800Z – 2300Z, W4BLT, Alton, AL. Blount County Amateur Radio Club. **35 Year Celebration**. 21.370 14.270 7.275 3.870. QSL. Daryl Isbell, W4DAI, P.O. Box 51, Alton, AL 35015. www.w4blt.org

Oct. 3, 1300Z – 2000Z, N1EPJ, East Greenwich, RI. Massie Wireless Club. **2021 Yankee Steam-Up**. CW: 14.058 7.058 3.558; SSB: 14.258 7.250 3.825. QSL. Massie Wireless Club N1EPJ, P.O. Box 883, East Greenwich, RI 02818. www.newsrm.org or www.qrz.com/db/n1epj

Oct. 3 – Oct. 9, 0000Z – 2359Z, N0F through N9F, KF2IRE, and VA3FIRE, East Hanover, NJ. Siemens Fire Safety USA Amateur Radio Club. **Fire Prevention Week Special Event**. 21.250 14.225 7.175 3.800; all bands, all modes. Certificate & QSL. Siemens Fire Safety USA Amateur Radio Club, 8 Fernwood Rd., East Hanover, NJ 07936. *Certificate for working any 10 of the 12 stations. Watch for spots.* hamfire.com

Oct. 3 – Oct. 9, 1800Z – 2200Z, KD9FDH, Madison, IN. Royal Rangers Amateur Radio Club. **National Royal Rangers Week**. 28.435. Certificate & QSL. Jerry Barnes, 601 Spring St., Madison, IN 47250. wjbarnes@cinergymetro.net or www.qrz.com/db/kd9fdh

Oct. 4 – Oct. 9, 1500Z – 2100Z, K7UGA, Chandler, AZ. Central Arizona DX Association. **Senator Barry M. Goldwater Memorial and AZ QSO Party**. All bands, all modes. QSL. Bob Davies, K7BHM, 1623 N. Los Altos Ct., Chandler, AZ 85224. *Five-day Special Event leading up to AZQP.* www.cadxa.org

Oct. 9, 1300Z – 1800Z, W0IN, Joplin, MO. Joplin Amateur Radio Club. **Joplin Hamfest/Tailgater**. 147.210. QSL. Joplin ARC, P.O. Box 2983, Joplin, MO 64803-2983. jimjohannes@sbcglobal.net

Oct. 9, 1500Z – 2000Z, KS0KS, Olathe, KS. Sant Fe Trail Amateur Radio Club. **200th Anniversary of the Santa Fe Trail**. 18.080 14.280 10.118 7.280. QSL. SFTARC, P.O. Box 3144, Olathe, KS 66063. www.sftarc.org

Oct. 9, 1600Z – 2300Z, N16IW, San Diego, CA. USS Midway (CV-41) Museum Ship. **US Navy Birthday**. 14.320 7.250 PSK and CW on various HF bands, D-STAR on various reflectors. QSL. USS Midway Museum Ship COMEDTRA, 910 N. Harbor Dr., San Diego, CA 92101. *Check spotting networks to find us on HF.* www.dstarusers.org to find N16IW, and Reporting Note to see what reflector we're using. www.qrz.com/db/n16iw

Oct. 9 – Oct. 11, 1400Z – 0200Z, W5D, Tuskahoma, OK. Vm Okla Nan Ola Amateur Radio Club. **World War I Code Talker Commemoration**. PSK31: 21.070 14.070 7.070; LSB: 7.218; USB: 21.318 14.318. Certificate. W15ND Attn: Holly Sharrock, KG5SSJ, 12715 N. 410 Rd., Hulbert, OK 74441. www.facebook.com/VmOkla-Nan-Ola-104220878292184/ or www.qrz.com/db/wi5nd

Oct. 9 – Oct. 17, 0000Z – 2359Z, many 1×1s, worldwide. US Affiliate (KFF), Worldwide Flora & Fauna. **Get Your Park ON! Celebrating Earth Science Week**. All bands, all modes. Certificate & QSL. *Check WWFF website for a list of participating calls, including N0M, N2G, and N4G.* www.wwff.us

Oct. 16, 1300Z – 1900Z, W1M, Russell, MA. Western Mass Council, BSA. **JOTA/JOTI**. 7.060 7.250 14.060 14.250. QSL. Tom Barker, 329 Faraway Rd., Whitefield, NH 03598. W1M will also be on BrandMeister TG 907.

Oct. 16, 1400Z – 2000Z, K4RC, Williamsburg, VA. Williamsburg Area Amateur Radio Club. **Yorktown Surrender Day Event**. 14.265 7.265. Certificate & QSL. QSL Manager, P.O. Box 1470, Williamsburg, VA 23187. www.k4rc.net

Selected October Contests & Special Events (Continued)

Oct. 16 – Oct. 17, 2200Z – 1700Z, W9DUE, Metropolis, IL. Massac County Amateur Radio Club. **Fort Massac Encampment Honoring Fort Massac Heritage**. All bands, all modes. QSL. Massac County ARC, P.O. Box 5, Metropolis, IL 62960. www.facebook.com/groups/151861769202256

Oct. 17 – Oct. 23, 0600Z – 0600Z, W4DO, Charlottesville, VA. Albemarle Amateur Radio Club. **Shenandoah National Park Special Event**. 7.240 14.310. Certificate & QSL. AARC/SNP Special Event, P.O. Box 6833, Charlottesville, VA 22906. *Contact all stations for a clean sweep and certificate.* www.albemarle-radio.org

Oct. 22 – Oct. 24, 0000Z – 2300Z, W5M, Spavinaw, OK. Mayes County Amateur Radio Club. **Mickey Mantle Day**. 14.285 7.240 3.850. QSL. Mayes County ARC, P.O. Box 1195, Pryor, OK 74361. www.qrz.com/db/wx5mc or www.mcarc.me

Oct. 30 – Oct. 31, 1500Z – 2355Z, W0JH, Split Rock, MN. Stillwater Amateur Radio Association. **Remembering the Edmund Fitzgerald (Split Rock Lighthouse)**. 21.360 14.260 7.260 3.860. Certificate. By email only SplitRock2021@radioham.org. W0JH stations operating from Amateur Radio Lighthouse Society USA 783 and Parks On The Air K-2524. Grid Square: EN47. www.radioham.org

Oct. 31 – Nov. 1, 0001Z – 0400Z, KC5BOO, Cleburne, TX. Club KC5NX. **Boo to You!** 14.310. QSL. Judy Cox, 3701 Park Rd. 21, Cleburne, TX 76033. kc5boo@yahoo.com

Certificates and QSL cards: To obtain a certificate from any of the special event stations offering them, send your QSO information along with a 9 × 12 inch self-addressed, stamped envelope (three units of postage) to the address listed in the announcement. To receive a special event QSL card (when offered), be sure to include a self-addressed, stamped business envelope along with your QSL card and QSO information. *Note: Some clubs may ask for a nominal fee to cover the cost of the certificate or QSL. Request will be made on air during the event or on the club's website.

Special Events Announcements: For items to be listed in this column, use the ARRL Special Events Listing Form at www.arrl.org/special-events-application. A plain-text version of the form is available at that site. You may also request a copy by mail or email. Off-line completed forms can be mailed, faxed (Attn: Special Events), or emailed.

Submissions must be received by ARRL HQ no later than the 1st of the second month preceding the publication date; a special event listing for **January QST** would have to be received by **November 1**. In addition to being listed in QST, your event will be listed on the ARRL Web Special Events page. Note: All received events are acknowledged. If you do not receive an acknowledgment within a few days, please contact us. ARRL reserves the right to exclude events of a commercial or political nature.

You can view all received Special Events at www.arrl.org/special-event-stations.



Contest Corral

Bruce Draper, AA5B, aa5b.corral@gmail.com

Contest Corral

October 2021

Check for updates and a downloadable PDF version online at www.arrl.org/contest-calendar.

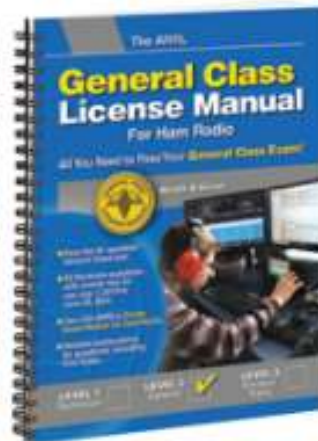
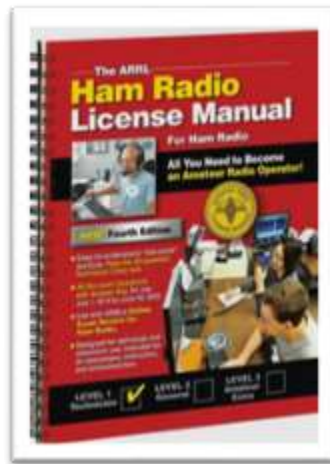
Refer to the contest websites for full rules, scoring information, operating periods or time limits, and log submission information.

Start - Finish Date-Time Date-Time	Bands	Contest Name	Mode	Exchange	Sponsor's Website
2 0600 3 0600	1.8-28	Oceania DX Contest, Phone	Ph	RS, serial	www.oceaniadxcontest.com
2 0600 3 1800	3.5-28	TRC DX Contest	CW Ph	RST, serial, "TRC" if member	trcdx.org/rules-trc-dx
2 0700 2 1000	3.5, 7	German Telegraphy Contest	CW	RST, LDK (if member)	agcw.de/index.php/en
2 1200 3 1159	1.8-28	Russian WW Digital Contest	Dig	RST(Q), oblast code or serial	www.rdrclub.ru
2 1300 2 1330	144	Two-Meter Classic Sprint	CW Ph	Serial, 4-char grid square	fwrc.info/2021/05/21
2 1600 3 1100	3.5, 7	International Hell-Contest	Dig	RST, serial	darc.de/der-club/referate/conteste
2 1600 3 2200	1.8-28	California QSO Party	CW Ph	Serial CA county or SPC	www.cqp.org/Rules.html
2 1800 3 1800	All	SKCC QSO Party	CW	RST, SPC, name, 4-char grid	www.skccgroup.com
3 0500 3 2300	3.5-28	RSGB DX Contest	CW Ph	RS(T), serial	www.rsgbcc.org/hf
3 0600 3 0900	3.5	UBA ON Contest, SSB	Ph	RS, serial, ON Section (if ON)	uba.be/en/hf/contest-rules
3 2200 3 2359	3.5-14	Peanut Power QRP Sprint	CW Ph	RS(T), SPC, peanut nr or power	nogagr.org/PeanutPower
4 1900 4 2030	3.5	RSGB 80-Meter Autumn Series, CW	CW	RST, serial	www.rsgbcc.org/hf
5 0100 5 0300	3.5-28	ARS Spartan Sprint	CW	RST, SPC, power	arsqr.blogspot.com
6 1700 6 2000	144	VHF-UHF FT8 Activity Contest	Dig	4-char grid square	ft8activity.eu/index.php/en
6 1900 6 2300	432	432 MHz Fall Sprint	CW Ph Dig	4-char grid square	svhfs.org
6 2000 6 2100	3.5	UKEICC 80-Meter Contest	Ph	6-char grid square	ukeicc.com/80m-rules.php
7 1700 7 2000	3.5	SARL 80-Meter QSO Party	Ph	RS, serial, grid locator	www.sarl.org.za
7 1700 7 2100	28	NRAU 10-Meter Activity Contest	CW Ph Dig	RS(T), 6-char grid	nrricontest.no
7 1900 7 2100	1.8-50	SKCC Sprint Europe	CW	RST, SPC, name, mbr or "none"	www.skccgroup.com
8 1400 9 0200	All	YLRL DX/NA YL Anniversary Contest	CW Dig Ph	Serial, RS(T), SPC	ylrl.org/wp/dx-na-yl-contest
9 0000 9 2359	1.8-28	QRP ARCI Fall QSO Party	CW	RST, SPC, mbr or power	qrparci.org
9 0000 10 1559	3.5-28	Makrothen RTTY Contest	Dig	4-char grid square	www.pl259.org/makrothen
9 0300 10 2100	1.8-UHF	Nevada QSO Party	CW Ph	RS(T), NV county or ARRL section	nvqso.com/contest-rules
9 0600 10 0600	1.8-28	Oceania DX Contest, CW	CW	RST, serial	www.oceaniadxcontest.com
9 0800 9 1400	902 and up	Microwave Fall Sprint	CW Ph Dig	6-char grid square	svhfs.org
9 1200 10 1200	3.5-28	Scandinavian Activity Contest, SSB	Ph	RST, serial	www.sactest.net
9 1200 10 2359	1.8-50	SKCC Weekend Sprintathon	CW	RST, SPC, name, mbr or "none"	www.skccgroup.com
9 1500 10 0500	1.8-144	Arizona QSO Party	CW Ph Dig	RS(T), AZ county or SPC	www.azqrp.org
9 1600 10 0400	144-432	Cosack's Honor VHF/UHF Contest	CW Ph Dig	RS(T), serial, 6-char grid	cshonor-vhf.ho.ua/eng1.html
9 1600 10 2200	1.8-UHF	Pennsylvania QSO Party	CW Ph	Serial, PA county or ARRL section	paqso.org
9 1800 10 1800	1.8-144	South Dakota QSO Party	CW Ph Dig	RS(T), SD county or SPC	www.sdqso.org
9 2000 10 2000	1.8	160-Meter Great Pumpkin Sprint	Dig	RST, SPC	www.podxs070.com
10 0001 10 2359	28	10-10 International 10-10 Day Sprint	CW Ph Dig	Name, mbr or "0" SPC	www.ten-ten.org
10 0600 10 0900	3.5	UBA ON Contest, CW	CW	RST, serial, ON Section (if ON)	uba.be/en/hf/contest-rules
11 0000 11 0200	1.8-28	4 States QRP Second Sunday Sprint	CW Ph	RS(T), SPC, mbr or power	www.4sqrp.com
11 0030 13 0230	3.5-14	NAQCC CW Sprint	CW	RST, SPC, mbr or power	naqcc.info
13 1700 13 2000	432	VHF-UHF FT8 Activity Contest	Dig	4-char grid square	ft8activity.eu/index.php/en
13 1900 13 2030	3.5	RSGB 80-Meter Autumn Series, Data	Dig	RST, serial	www.rsgbcc.org/hf
16 0000 17 2359	3.5-28	JARTS WW RTTY Contest	Dig	RST, age of operator	jarts.jp/rules2021.html
16 0001 17 2359	28	10-10 International Fall Contest, CW	CW	Name, mbr or "0" SPC	www.ten-ten.org
16 1400 17 0200	All	New York QSO Party	CW Ph Dig	RS(T), NY county or SPC	www.nyqrp.org
16 1500 17 1459	3.5-28	Worked All Germany Contest	CW Ph	RS(T), DOK or "NM" or serial	darc.de/der-club/referate/conteste
16 2000 16 2359	1.8-7, 21-50	Feld Hell Sprint	Dig	RST, mbr, SPC, grid	sites.google.com/site/feldhellclub
16 2130 16 2230	7	Argentina National 7 MHz Contest	Ph	RS, 2-digit year first licensed	www.lu4aa.org
17 0000 17 0200	14, 21	Asia-Pacific Fall Sprint, CW	CW	RST, serial	jsfc.org/apsprint
17 0700 17 1000	144	UBA ON Contest, 2 Meters	CW Ph	RS(T), serial, ON Section (if ON)	uba.be/en/hf/contest-rules
17 1700 18 0100	1.8-144	Illinois QSO Party	Ph	RS(T), IL county or SPC	www.w9awe.org/ilqp
17 1900 17 2030	3.5	RSGB RoLo CW	CW	RST, previous 6-char grid received	www.rsgbcc.org/hf
17 2300 18 0100	1.8-28	Run for the Bacon QRP Contest	CW	RST, SPC, mbr or power	qrcontest.com/pigrun
18 1300 22 2359	All	ARRL School Club Roundup	CW Ph	RS(T), Class (K/C/S), SPC	arrl.org/school-club-roundup
18 1900 18 2030	3.5-14	RSGB FT4 Contest Series	Dig	4-char grid square	www.rsgbcc.org/hf
20 1900 20 2030	3.5	AGCW Semi-Automatic Key Evening	CW	RST, serial, year first used a bug	ait.agcw.de/index.php/en
23 0000 24 2359	2.3 GHz and up	ARRL EME Contest	CW Ph Dig	Signal report	arrl.org/eme-contest
23 1200 24 1200	3.5-28	UKEI DX Contest, SSB	Ph	RS, serial, District Code (if UKEI)	ukeicc.com/dx-contest-rules.php
23 1500 24 1500	1.8	Stew Perry Topband Challenge	CW	4-char grid square	www.kkn.net/stew
24 0000 24 0400	3.5-14	North American SSB Sprint Contest	Ph	Other's call, your call, serial, name, SPC	ssbsprint.com/rules
24 1400 27 0800	1.8-144	Classic Exchange, CW	CW	Name, RST, SPC, radio model	www.classicexchange.org
24 1800 26 0300	1.8-UHF	Telephone Pioneers QSO Party	CW Ph Dig	Chapter nr or RS(T), name	www.tpqso.com
27 0000 27 0200	1.8-50	SKCC Sprint	CW	RST, SPC, name, mbr or "none"	www.skccgroup.com
27 2000 27 2100	3.5	UKEICC 80-Meter Contest	CW	6-char grid square	ukeicc.com/80m-rules.php
28 1900 28 2030	3.5	RSGB 80-Meter Autumn Series, SSB	Ph	RS, serial	www.rsgbcc.org/hf
29 1600 29 2359	3.5-14	Zombie Shuffle	CW	RST, SPC, Zombie nr or area code, name	www.zianet.com/grp
30 0000 31 2359	1.8-28	CQ Worldwide DX Contest, SSB	Ph	RS, CQ Zone	www.cqww.com

There are a number of weekly contests not included in the table above. For more info, visit: www.qrpfoxhunt.org, www.ncccsprint.com, and www.cwops.org. All dates refer to UTC and may be different from calendar dates in North America. Contests are not conducted on the 60-, 30-, 17-, or 12-meter bands. Mbr = Membership number. Serial = Sequential number of the contact. SPC = State, Province, DXCC Entity. XE = Mexican state. Listings in blue indicate contests sponsored by ARRL or NCJ. The latest time to make a valid contest QSO is the minute listed in the "Finish Time" column. Data for Contest Corral is maintained on the WA7BNM Contest Calendar at www.contestcalendar.com and is extracted for publication in QST 2 months prior to the month of the contest. ARRL gratefully acknowledges the support of Bruce Horn, WA7BNM, in providing this service.

Upcoming FCC Exam Session Preparation Sites

(Virtual only; physical classes are unavailable this month within 250 miles of Ventura)



Upcoming FCC Exam Test (within 100 miles)

GLAARG is offering remote testing; see <https://glaarg.org/remote-sessions/> for details

Van Nuys CA 91406-6472

10/02/2021

Sponsor: LAX ARES NW

Date: Oct 02 2021

Time: 10:30 AM (Walk-ins allowed)

Contact: James W. Laage
(818) 368-8710

Email: cllaage@verizon.net

VEC: [ARRL/VEC](#)

Location: Woodley Park
6350 Woodley Ave
1st driveway on the left
past Victory Blvd
Van Nuys CA 91406-6472

Lancaster CA 93535-4474

10/04/2021

Sponsor: AVARC

Date: Oct 04 2021

Time: 7:00 PM (No Walk-ins / Register or Call ahead)

Contact: Adrienne J. Sherwood
(661) 480-5227

Email: wa6yeo@arrl.net

VEC: [Greater LA VEC](#)

Location: Blend Family Church
1702 E Avenue J
Lancaster CA 93535-4474

Ridgecrest CA 93555

10/09/2021

Sponsor: Sierra ARC

Date: Oct 09 2021

Time: 9:00 AM (No Walk-ins / Register or Call ahead)

Contact: Michael D. Herr

Email: wa6ara@gmail.com

VEC: [ARRL/VEC](#)

Location: Due to COVID TBD

Pre-Register Required
Ridgecrest CA 93555

Tehachapi CA 93561

10/09/2021

Sponsor: Tehachapi Amt Radio Assoc

Date: Oct 09 2021

Time: 2:30 PM (No Walk-ins / Register or Call ahead)

Contact: John R. Dyer
(661) 750-2878

Email: topshotca@yahoo.com

VEC: [ARRL/VEC](#)

Location: Salvation Army Comm Center
538 E Tehachapi Blvd
Tehachapi CA 93561

Downey CA 90242

10/16/2021

Sponsor: Downey Amt Radio Cub

Date: Oct 16 2021

Time: 8:30 AM (Walk-ins allowed)

Contact: Robert P. Reeder
(562) 553-2811

Email: paisley.reeder@gmail.com

VEC: [ARRL/VEC](#)

Location: Downey Fire Station 1
12222 Paramount Blvd
Downey CA 90242

Huntington Beach CA 92647-4359

10/21/2021 **Sponsor:** West Coast ARC

Date: Oct 21 2021

Time: 5:30 PM (No Walk-ins / Register or Call ahead)

Contact: Kenneth O. Simpson
(714) 651-6535

Email: w6kos@arrl.net

VEC: [ARRL/VEC](#)

Location: Community United Methodist Church
6652 Heil Ave

Huntington Beach CA 92647-4359 **(Continued on next page)**

Upcoming FCC Exam Test

(Continued)

La Habra CA 90631-5401

10/21/2021

Sponsor: Western ARA

Date: Oct 21 2021

Time: 6:00 PM (No Walk-ins / Register or Call ahead)

Contact: George T. Jacob

(562) 544-7373

Email: jac2247@gmail.com

VEC: ARRL/VEC

Location: La Habra Community Center

101 W La Habra Blvd

Pre-registration preferred.

La Habra CA 90631-5401

Location: On-Line

10/24/2021

Sponsor: Goodkin Family

Date: Oct 24 2021

Time: 9:30 AM (No Walk-ins / Register or Call ahead)

Contact: Norm Goodkin

(818) 613-2257

Email: hamclass@goodkin.net

VEC: Greater LA VEC

Location: On-Line

ONLINE ONLY - visit website to register

Calabasas CA 91302

Website: <https://hamstudy.org/sessions/glaarg/wb6ohw>

Redondo Beach CA 90278-1001

10/30/2021

Sponsor: Crescent Bay VE Grp/W6TRW ARC

Date: Oct 30 2021

Time: 10:00 AM (Walk-ins allowed)

Contact: Scott Swanson

(310) 459-0337

Email: k6pyp@arrl.net

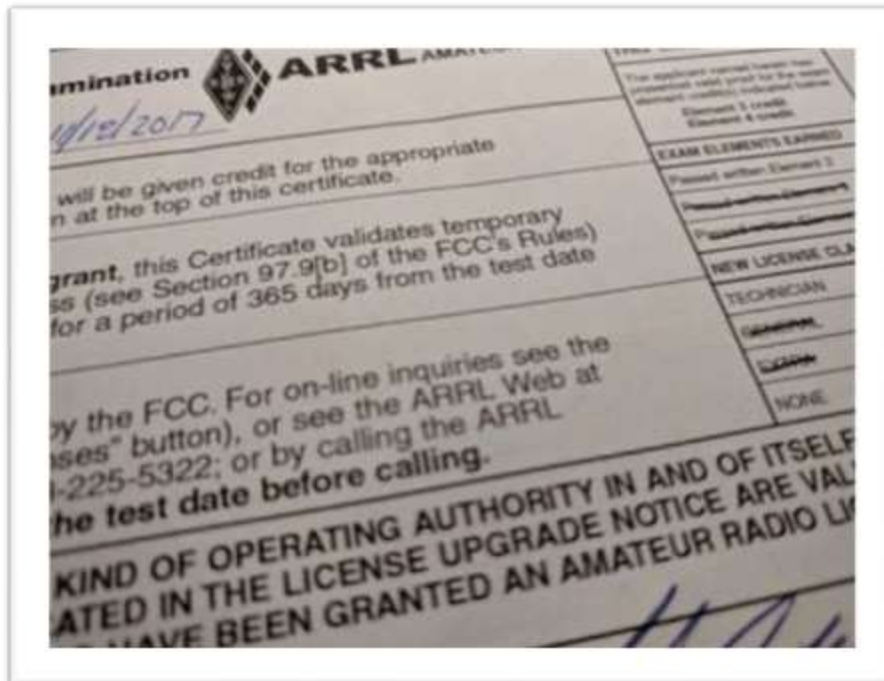
VEC: ARRL/VEC

Location: Space Park Business Park

1 Space Park Blvd

<https://w6trw.com/> for updates

Redondo Beach CA 90278-1001



On Exam Day Bring the Following Items:

1. One legal photo ID (identification):
 - a. State Driver's License, b. Government issued Passport, c. Military or Law Enforcement Officer Photo ID card, d. Student School Photo ID card, e. State Photo ID card.
2. If no photo ID is available, two forms of identification:
 - a. Non-photo State ID card (some states still have them), b. Birth certificate (must have the appropriate seal), c. Social security card, d. Employer's wage statement or Minor's work permit, e. School ID card, f. School or Public Library card, g. 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/minors without a photo ID need to bring only one of the above items if a legal guardian presents their photo ID; otherwise two non-photo IDs are required. Minor children (under the age of 18) may be accompanied in the room by an adult during the test.
4. FCC Registration Number (FRN): VECs are required by the FCC to submit your FRN with your license application form. New license applicants must create an FCC user account and register their Social Security Number (SSN) in the FCC Commission Registration System (CORES) before attending exam sessions. Registrants will be assigned an FRN which will be used in all license transactions with the FCC. For instructions on how to register your SSN and receive an FRN from the FCC, visit the FCC's Registration page and the FCC's Registration instructions page. Per FCC rules, a valid email address is also mandatory on the application form.
5. If applicable, bring a printed copy of your Amateur Radio license. Acceptable copies or printouts of licenses are available from the following sources: the official license or reference license printed from the FCC website or license data printed from the ARRL website or QRZ website. The original(s) and photocopy(s) of any Certificates of Successful Completion of Examination (CSCE) you may hold from previous exam sessions. If your license has already been issued by the FCC, the CSCE showing license credit is not needed. The candidate is required to show proof of the current license to the team but the team is no longer required to submit the proof to the VEC. Expired license proof must be submitted to the team and to the VEC for processing to FCC. These photocopies will not be returned. Instructions on how to obtain an official FCC license copy are on our Obtain License Copy web page.
6. Two number two pencils with erasers and a pen for in-person sessions.
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 and the phones' calculator function may not be used. In addition, iPhones, iPads, Androids, smartphones, Blackberry devices and all similar electronic devices with a calculator capability, 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 fees. The FCC hasn't started to accept the \$35 fee, which will be paid directly to the FCC.
9. Be aware that some information about you will be made publicly available on the FCC's website.

Trivia for October 2021

1. The White House, under Benjamin Harrison, had the first electric lights installed. It is told the President was so afraid of electric device he had others turn on the lights for him.
2. The first gold rush was in 1828. But it was in Georgia not California. 1849 was the start of the California gold rush in Sutter's Mill in California.

Happy Halloween 🎃🎃
Dana KG6WXE

Calendar October 2021

- 2: Share the Road Ride, CVARC Radio School, ARRL Simulated Emergency Test (SET)
- 3: K6MEP Board Meeting (Zoom) and Newbie Net; ARRL Simulated Emergency Test (SET);
- 4: K6MEP Monday Night Net and Zoom Meeting
- 5: ACS/ARES Tuesday Night Net (also Simplex)
- 6: Great Shakeout Zoom Meeting
- 8: K6MEP Monthly Club Meeting and Presentation "nanoVNA; what is it good for?" by Clem KM6OKZ
- 9: CVARC Radio School
- 10: Newbie Net
- 11: Columbus Day, etc.
- 11: K6MEP Monday Night Net and Zoom Meeting
- 12: ACS/ARES Tuesday Night Net
- 14: Winlink Thursday
- 15: Boy Scouts On The Air; Pacificon

- 16: Boy Scouts On The Air; CVARC Radio School; Pacificon
- 17: Boy Scouts On The Air; Newbie Net; Pacificon
- 18: K6MEP Monday Night Net and Zoom Meeting
- 19: ACS/ARES Tuesday Night Net
- 20: Great Shake Out Zoom Meeting
- 23: CVARC Radio School
- 24: Newbie Net
- 25: K6MEP Monday Night Net and Zoom Meeting
- 26: ACS/ARES Tuesday Night Net
- 30: CVARC Radio School
- 31: Newbie Net, Halloween

(Repeated from the CVARC website). The wildly successful "Auxiliary Bored Meetings" will continue on a new schedule beginning Monday, June 29, 2020. The informal nets have been running four times daily on the Bozo repeater. Over 7,500 calls from 275 unique hams have been logged on the nets. Under the new schedule, the net will be called to order at 9 A.M. Monday through Saturday. The Saturday morning net will run 9 A.M. to noon with a swap and the repeater will linked with Paul Strauss' (WD6EBY) repeater network for full Ventura County coverage. Starting July 11, 2020, there will be a second Saturday net at 9 P.M.

The Bozo Repeater operates with the following settings:

Frequency: 147.885 MHz

Offset: —

PL: 127.3

Stu AG6AG

<http://www.cvarc.org/event/auxiliary-bored-meetings-on-bozo-3/2023-02-11/>

K6MEP Monday Night Net Script

QST- QST- QST. This is _____ (Name) _____ (Call Sign), with the Ventura County Amateur Radio Club Net. If there is 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) _____ (Call Sign), 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 net, open to all amateur radio operators and is 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. repeater on 146.385 MHz with a positive offset and a PL of 127.3 Hz as backup.

All amateurs are welcome to check in after the following announcements.

A roundtable will follow the check-ins. A rag chew session may follow the formal net. We will have a Zoom meeting following the 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. The club meeting will also be on Zoom. Our next meeting will be on Friday _____ (insert date). We urge any non-members interested in the VCARC to contact us at K6MEP@qsl.net. Non-members interested in amateur radio are welcome to attend our meetings.

When you check-in, please give your call sign (phonetically), name and if you are a VCARC member. If you are not a member of the club, please include your QTH or location.

(Check-ins completed): Hearing no other check-ins, we will now begin with our Roundtable *****

Any last comments? ***** Any late, missed, or visitor check-ins?
Please check-in now.

Hearing no new check-ins does anyone have anything else they would like to add to tonight's net?
Hearing none;

(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) _____ call sign), tonight's VCARC net control, signing off and returning the repeater to its normal use.

Convention and Hamfest Calendar

Steve Ewald, WY1X, sewald@arri.org; www.arri.org/hamfests-and-conventions-calendar

Convention and Hamfest Calendar

A = AUCTION
D = DEALERS / VENDORS
F = FLEA MARKET
H = HANDICAP ACCESS
Q = FIELD CHECKING OF QSL CARDS
R = REFRESHMENTS
S = SEMINARS / PRESENTATIONS
T = TAILGATING
V = VE SESSIONS

Abbreviations

Spr = Sponsor
TI = Talk-in frequency
Adm = Admission

Alabama (Chickasaw) — Oct. 23 D F H Q R S V
8 AM – 2 PM. Spr: Deep South ARC. J.C. Davis Auditorium, 400 Thompson Blvd. TI: 146.745 (123 Hz). Adm: \$5. www.k4dsr.com

Arizona (Congress) — Nov. 6 D Q T
8 AM. Spr: Hassayampa Amateur Radio Klub. Escapees North Ranch, 30625 Hwy 89. TI: 146.580 (no tone). Adm: Free. www.harkaz.org

ARRL PACIFIC DIVISION CONVENTION

October 15 – 17 San Ramon, California

D F H R S V
8 AM – 10 PM. Spr: Mt. Diablo ARC. San Ramon Marriott Hotel, 2600 Bishop Dr. TI: 147.06 (100 Hz). Adm: \$25 advance, \$30 door. www.pacificon.org

Connecticut (Gales Ferry) — Oct. 30 H R T
10 AM – 3 PM. Spr: Radio Amateur Society of Norwich. Our Lady of Lourdes R.C. Church Hall, 1650 Route 12. TI: 146.730 (156.7 Hz). Adm: \$5. www.rason.org

Florida (Bradenton) — Oct. 23 F T
8 AM – 1 PM. Spr: Manatee ARC. Bible Baptist Church of Bradenton, 2113 57th St. East. TI: 146.820 (100 Hz). Adm: \$5. www.manatee-arc.org

Florida (New Port Richey) — Oct. 16 T V
8 AM – noon. Spr: Gulf Coast ARC. Millennium Academy, 10005 Ridge Rd. TI: 146.67 (146.2 Hz). Adm: \$5. Email: keavbv@msn.com

ARRL GEORGIA STATE CONVENTION

November 6 – 7 Lawrenceville, Georgia

D F H Q R S T V
Sat. 8 AM – 4 PM, Sun. 8 AM – 2 PM. Spr: Alford Memorial Radio Club. Gwinnett County Fairgrounds, 2405 Sugarloaf Parkway. TI: 147.075 (82.5 Hz). Adm: \$8 advance online, \$10 door. www.stonemountainhamfest.com

Indiana (Lynnville) — Oct. 23 D F H R T
7 AM – 2 PM. Spr: Tri State ARS. Lynnville Community Center, St. Rt. 68. TI: 146.790 (88.5 Hz) analog, 145.250 Yaesu C4FM. Adm: Free. www.hamtoberfest.com

Indiana (Shelbyville) — Oct. 16 D F H R T
3 AM – noon. Spr: Blue River Valley ARS. Shelby County Fairground, 500 Frank St. TI: 145.48 (88.5 Hz). Adm: Free. www.brvars.com

Iowa (Boone) — Oct. 30 D F H Q S T V
3 AM – 1 PM. Spr: 3900 Club. Boone County Iowa Fairgrounds, 1601 Industrial Park Rd. TI: 146.850 (no tone). Adm: \$7; 14 years old and under free with adult. www.3900club.com

ARRL LOUISIANA STATE CONVENTION

October 8 – 9 Slidell, Louisiana

D F H R S T V
Fri. 2 PM – 5 PM, Sat. 8 AM – 3 PM. Spr: Ozone ARC. Slidell City Auditorium, 2056 2nd St. TI: 147.270 (114.8 Hz). Adm: \$5. www.w5sla.net/hamfest-2021.htm

Michigan (Kalamazoo) — Oct. 17 D F Q S V
8 AM – noon. Spr: Kalamazoo ARC and Southwest Michigan Amateur Radio Team. Kalamazoo County Expo Center and Fairgrounds, 2900 Lake St. TI: 147.040 (94.8 Hz). Adm: \$7. www.kalamazooahamfest.com

Michigan (Muskegon) — Oct. 16 D F H R S V
8 AM – noon. Spr: Muskegon County Emergency Communication Services, Inc. Fellowship Reformed Church, 4200 E. Apple Ave. (M-46). TI: 146.820 (94.8 Hz). Adm: \$5. www.mcecs.net/Hamfest.htm

Missouri (Kirkwood) — Oct. 30 D F H R V
7:30 AM – 1 PM. Spr: St. Louis ARC. Kirkwood Community Center, 111 S. Geyer Rd. TI: 147.150 (141.3 Hz). Adm: \$4 each or 3 for \$10 advanced, \$7 door. Email: bcsluder@msn.com

Missouri (Sedalia) — Oct. 16 D F H R T
8 AM – 1 PM. Spr: Sedalia Pettis ARK. Our Savior Lutheran Church Gymnasium, 3700 W. Broadway Blvd. TI: 147.030 (179.9 Hz). Adm: \$5. www.wa0sdo.org

New Jersey (Wayne) — Oct. 16 H R
8 AM – 1 PM. Spr: WRAET ARC. United Methodist Church, 99 Parish Dr. TI: 145.21 (79.7 Hz). Adm: \$5. www.wraet.com

New Mexico (Socorro) — Oct. 16 F H Q R S T V
8 AM – 12:30 PM. Spr: Socorro ARA, Tech ARA, New Mexico Firefighters Training Academy, 600 Aspen Rd. TI: 146.68 (100 Hz). Adm: Free. www.socorroara.org/socorro-hamfest

New York (Palmyra) — Oct. 2 D F H R T
8 AM – 1 PM. Spr: Drumlins ARC. Palmyra VFW Post 6778, 4306 Rt. 31. TI: 146.745 (71.9 Hz). Adm: \$5. www.drumlinsarc.us

North Carolina (Winston-Salem) — Oct. 16 D F H T
7:30 AM – 11:30 AM. Spr: Forsyth ARC. Robinhood Road Baptist Church, 5422 Robinhood Rd. TI: 145.47 (100 Hz). Adm: \$7. www.w4nc.com

Ohio (Georgetown) — Nov. 6 D F H R
8 AM – 2 PM. Spr: Grant ARC. ABCAP Building, 406 West Plum St. TI: 146.73 (162.2 Hz). Adm: Free. Email: w8ujm@yahoo.com

Ohio (Green) — Oct. 31 D F H R V
8 AM – 4 PM. Spr: Massillon ARC. Military Air Preservation Society Hangar, 5383 Massillon Rd. TI: 147.18 (110.9 Hz). Adm: \$5. www.w8np.org

Ohio (Westminster) — Oct. 9 F R T
8 AM – 1 PM. Spr: Northwest Ohio ARC. Westminster UMC (Warm Building), 6650 Faulkner Rd. TI: 146.670 (no tone). Adm: \$5, 12 years old and under free with adult. www.nwoarc.com

Oklahoma (Ardmore) — Oct. 22 – 23 D F H Q R S T V
Fri. 3 PM – 8 PM, Sat. 8 AM – 1:30 PM. Spr: CORA and Texoma Hamarama. Ardmore Convention Center, 2401 Rockford Rd. TI: 146.97 (131.8 Hz). Adm: \$8 advance, \$10 door. www.hamholiday.com

(Continued on next page)

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Convention and Hamfest Calendar (Continued)

Oklahoma (Enid) — Nov. 5 – 6 **D F H R S T V**

8 AM – 5 PM. *Spr:* Enid ARC. Garfield County Fairgrounds – Hoover Building, 305 East Oxford Ave. *Tl:* 145.290 (no tone), 147.150 (no tone), 444.825 (no tone), EchoLink. *Adm:* \$5.
www.enidarc.org/enidhamfest

Pennsylvania (Washington) — Nov. 7 **D F Q R V**

8 AM – 5 PM. *Spr:* WACOM. Washington County Fairgrounds, 2151 North Main St. *Tl:* 146.790 (no tone). *Adm:* \$5.
wa3com.com/hamfest.html

South Carolina (Gaffney) — Oct. 23 **D H R T V**

7 AM – 3 PM. *Spr:* Carolina ARES. Southside Baptist Church, 204 W. O'Neal St. *Tl:* 145.430 (162.2). *Adm:* \$5. Email: dianemccoy@charter.net

South Carolina (Rock Hill) — Oct. 2 **D F H R S T V**

8 AM – 2 PM. *Spr:* York County ARS. Newport Baptist Church, 175 Museum Rd. *Tl:* 147.030 (88.5 Hz). *Adm:* \$5.
www.ycars.org

Tennessee (East Ridge) — Oct. 16 **D F H**

8 AM – 2 PM. *Spr:* Chattanooga ARC. Camp Jordan Amphitheater, Camp Jordan Pkwy. *Tl:* 146.790 (107.2 Hz). *Adm:* \$5.
www.w4am.net

West Virginia (Mineral Wells) — Oct. 9 **F H R T V**

8 AM – 2 PM. *Spr:* Wood County Emergency Communications. Wood County 4-H Campground, Butcher Bend Rd. *Tl:* 147.255 (131.5 Hz). *Adm:* \$5. www.wc8ec.org

Wisconsin (Kaukauna) — Nov. 7 **D F H R V**

8 AM. *Spr:* Fox Cities ARC. Starlite Club, W2091 County Rd. JJ. *Tl:* 146.760 (100 Hz). *Adm:* \$5 advance, \$6 door.
www.fcarc.club/hamfest.php

Wisconsin (Milwaukee) — Nov. 6 **D H R**

6:30 AM – 3:30 PM. *Spr:* Milwaukee Repeater Club. Elks Lodge, 5555 W. Goodhope Rd. *Tl:* 146.910 (127.3 Hz). *Adm:* \$5. www.mrc91.org



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

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



FEMA Courses

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-20.19 [Diversity Awareness Course 2019](#) - (1/30/2019)
- 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-33.19 [FEMA Initial Ethics Orientation 2019](#) - (1/30/2019)
- IS-35.19 [FEMA Safety Orientation 2019](#) - (1/30/2019)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-162 [Hazard Mitigation Floodplain Management in Disaster Operations](#) - (11/16/2016)
- 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.b [An Introduction to the National Incident Management System](#) - (6/25/2018)
- 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-906 [Workplace Security Awareness](#) - (10/31/2013)
- 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)
- IS-2200: [Basic Emergency Operations Center Functions](#) - (5/17/2019)
- IS-2500 [National Prevention Framework, an Introduction](#) - (3/27/2018)
- IS-2600 [National Protection Framework, An Introduction](#) - (3/27/2018)
- IS-2700 [National Mitigation Framework, an Introduction](#) - (3/27/2018)
- IS-2900.a [National Disaster Recovery Framework \(NDRF\) Overview](#) - (7/11/2018)

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.

ACS/ARES 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 (-) PL 127.3 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

WD6EBY SP 145.420 Mhz (-) PL 127.3

WD6EBY 447.480 (-) PL 156.7 Hz South Mtn.

K4INGL 145.360 Mhz (-) PL 156.7 Kimberly Peak

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

Other Good Area Frequencies ...

AA6DP 147.090 Mhz (+) No PL Catalina

K0AKS 147.150 Mhz(-) PL 127.3 TOaks

K6CPT DCS 145.300 Mhz (-) PL 100.0 LA DCS

K6CPT DCS 147.270 Mhz (-) PL 100.0 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 (-) PL 131.8 SBARC

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

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 Hanson, W6RH, Email: w6rh@arri.net

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

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

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

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

Area 4 Oxnard, Hueneme, Mugu EC: Jim Inman, KB6JI Email: jamesinman@roadrunner.com

Area 5 Ojai EC: Wayne Francis, W6OEU Email: w6oeu@arri.net

Area 6 City of Ventura EC (acting): James (Jim) Aguirre KM6GUE Email: KM6GUE@gmail.com

Area 7 Santa Paula, Fillmore, Piru EC: James (Jim) Aguirre KM6GUE Email: KM6GUE@gmail.com

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

ACS/ARES Training and News Rob Hanson W6RH

Rob Hanson W6RH Ventura County ACS Radio Officer, Ventura County ARES District
Emergency Coordinator

2021 Simulated Emergency Test

Assess your emergency preparedness on October 2 – 3, 2021.

Steve Ewald, WV1X

ARRL's annual Simulated Emergency Test (SET) is a nationwide exercise that focuses on the amateur radio community's commitment to being prepared and practicing how to respond before, during, and after a communications emergency.

This is a great time to check readiness for yourself, as well as your home station and portable radio equipment, antennas, and accessories in a simulated emergency-like deployment. The ARRL SET is an invitation to get involved, practice your skills, and test your response plan.

Partner Agencies and Organizations

ARRL Field Organization, Amateur Radio Emergency Service® (ARES®), National Traffic System (NTS), and Radio Amateur Civil Emergency Service (RACES) leaders and participants are among the many radio amateurs active in public service and emergency communications. They're developing simulated emergency scenarios in consultation with a number of agencies and organizations for whom radio amateurs are known to provide service during disasters and emergencies.

ARRL has formal relationships with several national organizations, including the American Red Cross, the National Weather Service (NWS), the Federal Emergency Management Agency (FEMA), and the Salvation Army (among several others). Visit www.arrl.org/served-agencies-and-partners for more information.

National Preparedness Month is recognized each September to promote family and community disaster planning, now and throughout the year. This is a nationwide effort to encourage

everyone to take steps to prepare for emergencies in their homes, workplaces, schools, and communities. The US Department of Homeland Security works with a variety of organizations to highlight the importance of emergency preparedness and promote individual involvement through events and activities across the nation. We encourage you to consider this year's ARRL SET and all preparations for it as a demonstration of amateur radio's commitment to being prepared and ready. More information on National Preparedness Month can be found at www.ready.gov.

SET to Go!

ARRL Field Organization leaders have the option of conducting their local or Section-wide SET on another weekend besides October 2 and 3, 2021. SETs should be conducted no later than the end of the fall season or the calendar year.

To find out how to be involved in this year's SET, contact your local ARRL Emergency Coordinator or Net Manager. Contact your local club or other area clubs to find out who the Emergency Coordinator is and where the nearest ARES or NTS nets meet. In addition, refer to the ARRL Section web pages at www.arrl.org/groups/sections.



During the 2020 ARRL SET, a search and rescue team gathered prior to a simulated exercise to find two lost hikers in Shawnee State Park in western Pennsylvania. ARES members of the Bedford County Amateur Radio Society (BCARS) provided supplementary communications for 75 volunteers from 16 federal, state, and local agencies. [Lloyd Bankson Roach, K3QNT, photo]

Guidelines and specific SET reporting forms for the ARRL Section and Field Organization leaders are posted at www.arrl.org/public-service-field-services-forms. Download the forms, fill them out as appropriate, and return them to sewald@arrl.org at ARRL Headquarters (copying your Section Manager, Section Emergency Coordinator, and Section Traffic Manager).

ACS/ARES Training and News Rob Hanson W6RH (Continued)

ARES Resources

- [Download the ARES Manual \[PDF\]](#)
- [ARES Field Resources Manual \[PDF\]](#)
- [ARES Standardized Training Plan Task Book \[Fillable PDF\]](#)
- [ARES Standardized Training Plan Task Book \[Word\]](#)
- [ARES Plan](#)
- [ARES Group Registration](#)
- [Emergency Communications Training](#)

The Amateur Radio Emergency Service® (ARES) consists of licensed amateurs who have voluntarily registered their qualifications and equipment, with their local ARES leadership, for communications duty in the public service when disaster strikes. Every licensed amateur, regardless of membership in ARRL or any other local or national organization is eligible to apply for membership in ARES. Training may be required or desired to participate fully in ARES. Please inquire at the local level for specific information. Because ARES is an amateur radio program, only licensed radio amateurs are eligible for membership. The possession of emergency-powered equipment is desirable, but is not a requirement for membership.

How to Get Involved in ARES: Fill out the [ARES Registration form](#) and submit it to your local Emergency Coordinator.

ARES Membership Requirements

Every licensed amateur, regardless of membership in ARRL or any other local or national organization is eligible to apply for membership in ARES. Training may be required or desired to participate fully in ARES. Please inquire at the local level for specific information. Because ARES is an Amateur Radio program, only licensed radio amateurs are eligible for membership. The possession of emergency-powered equipment is desirable, but is not a requirement for membership.

How to Get Involved in ARES

Fill out the ARES Registration form and submit it to your local Emergency Coordinator.

Volunteers Wanted!

If you're an individual Emergency Communication volunteer...-

- You need to be trained. In order to provide support in the event of an emergency—or even in a non-emergency situation—you need to have the proper training and licensing. Learn more about the ARRL Emergency Communications Training course.
- You need to be equipped with sustaining skills. What if when you get to a location, there is no food and the sleeping conditions are undesirable? Before you leave on your assignment, you need to make (Continued on next page)

ACS/ARES Training and News Rob Hanson W6RH (Continued)

ARES Resources (Continued)

sure you have coping skills that enable you to be able to do your job operating under the conditions you are assigned to—from hardship conditions to making sure you're able to work the equipment.

- You need to prepare your family for your absence. When you leave home and head for a disaster area, your family has to be both physically and mentally able to cope. After a disaster, when a volunteer comes home, he or she can be confronted by some mental health issues, for which there are several resources. Many volunteers experience everything from fatigue or exhaustion to depression.
- You need to find ways to volunteer. You would first want to become a member of your local ARES, CERT, RACES or local emergency management organization. Then try the American Red Cross or Web sites like Ready.gov.

If you're a member of the ARRL ARES program...+

"What should I bring with me?"+

Where Will Volunteers be Needed?+

Working with government organizations+

Working with non-government organizations.



73, Rob W6RH

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ARES Training and News (Continued)

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 2018, 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.

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.

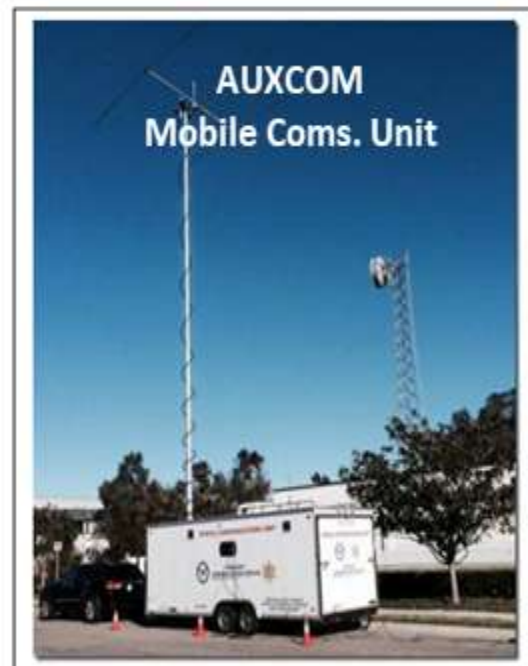
PR-101: ARRL Public Relations (EC-015)

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 Weekly Nets

Monday

Cuckoo Net **146.790 MHz (-) 131.8 Hz PL and 145.180 MHz (-) 131.8 Hz PL** MTWThF from 08:00 Hrs

Auxiliary Bored Meeting: MTWThF at 09:00 and on Saturday at 21:00 Hrs : Bozo Repeater Frequency: **147.885 MHz Offset: -PL: 127.3**

California Rescue ARES Net **7.25 MHz** MTWThF 08:30 Hrs

Santa Barbara South County ARES net 19:30 Hrs on **146.79 MHz (-) PL 131.8.**

Southwest ACS Nets Every Monday at 18:30 Hrs, on a local station on the Cactus Intertye Network. Check-in by roll call. 4th Monday “grid test” 20:30 Hrs.

LA DCS-22 Net – 19:30 Hrs - **K6DCS - 147.225 MHz (+) then on 7.2353 MHz LSB**

K6MEP Net -20:00 Hrs **145.200 MHz (-) 127.3 PL**

CESN (California Emergency Services Net) at 20:00 Hrs **Primary frequency - 3992 kHz, Backup frequency - 3960 kHz.** All free to listen, check-in by membership only.

LA Section ARES Net - HF Every Monday following the VHF/UHF net (21:30 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** MTWThF from 08:00 Hrs

California Rescue ARES Net **7.250 MHz** MTWThF 08:30 Hrs

Ventura County ARES-ACS 6 Meter Net - between 18:45 Hrs to 19:00 Hrs **K6SMR 52.980 MHz (-) PL 82.5 SMRA Red Mt**

Ventura County ARES-ACS Simplex Net - 18:30 Hrs on **147.510 MHz Simplex** ORT schedule only!

Ventura County ARES-ACS HF Net - between 18:30 Hrs to 19:00 Hrs 40M on **7.235 MHz LSB +/-**

Ventura County ARES/ACS Nets between 19:00 and 20:00 Hrs. The County-wide net starts at 19:30 Hrs and normally finishes by 20:00 Hrs on **WD6EBY 145.200 MHz (-) /127.3 PL**

SBARC Swap Net **146.790 MHz (-) / 131.8 Hz PL and 145.180 MHz (-) / 131.8 Hz PL** 19:30-20:00 Hrs

West SB ARES HF Net (1" Tuesday, Monthly) **3822 kHz LSB** 20:30 Hrs

6-Meter Roundtable - **50.125 MHz USB** First Tuesday of each month 20:00 Hrs

ATV Net 20:30 Hrs **148.790 MHz (-) / 131.8 Hz PL RITZ** 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** MTWThF from 08:00 Hrs

California Rescue ARES Net **7.25 MHz** MTWThF 08:30 Hrs

CESN (California Emergency Services Net 10:00 Hours, Primary frequency 7192 kHz, Backup frequency - 7230 kHz All free to listen, check-in by membership only.

SMRA Tech Net **146.880 MHz (-) / 127.3 PL** (SMRA Red Mt) 20:00 Hrs

SBARC Swap Net **146.790 MHz (-) / 131.8 Hz PL** K872 20:00 Hrs

Teamtalk Voice Net.20:00 Hrs k6pvr-svr.local.mesh server
<http://www.pvarc.club/mesh/mesh-applications/>

Thursday

Cuckoo Net **146.790 MHz (-) 131.8 Hz PL and 145.180 MHz (-) 131.8 Hz PL** MTWThF from 08:00 Hrs

California Rescue ARES Net **7.25 MHz** MTWThF 08:30 Hrs

So Cal 6 meter net. **51.940 MHz - pl 82.5.** 19:00-20:00 Hrs

Southern Calif 6M SSB Technical Roundtable Net 20:00 Hrs on **50.2 MHz USB SSB**

SBARC / K6TZ Technical Mentoring Net 20:00-21:00 Hrs **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** MTWThF from 08:00 Hrs

California Rescue ARES Net **7.250 MHz** MTWThF 08:30 Hrs

Saturday

Military Radio Collector Net 18:00 Hrs **3985 kHz AM**
www.mrcuwestord/mrca-radio-nets/

Sunday

ARRL Southwestern Division Net 08:00 Hrs 3965 MHz. ARRL Officers check in first. All visitors welcome at end of that net

Newbie Net 19:00-19:30 Hrs Bozo Repeater **147.885 MHz (-) PL127.3**

News from the Pleasant Valley Amateur Radio Club and MESH September 18, 2021

This morning Paul WD6EBY, Bill AB6BW, Eric KB6DYJ and I went to Chatsworth Peak for a mini-work party. Eric and Bill whacked weeds. Paul replaced the ailing transmitter in the UHF repeater. Paul gave Eric an ADS-B antenna which he installed on the camera mast above the container. Paul replaced a microwave dish/radio. Paul and I discussed possible locations for a couple of tower sections to improve antenna positions sometime in the future. I took photos :-) A few are attached.



News from the Pleasant Valley Amateur Radio Club and MESH (Continued)



73

Orv W6BI

ARRL Santa Barbara Section John Kitchens NS6X

(Will be repeated until John contacts me that the positions are filled)

Hello all,

I have been trying to fill Section volunteer positions for a while. I am giving another push. I am pleased to let you know that our Section Emergency Coordinator is Richard Tate, KQ6NO from Santa Paula.

(Congratulations and thanks to Rick for taking on this position in addition to his ACS/ARES assignment as Assistant ACS Radio Officer/ARES Assistant DEC.

Richard will be contacting you to see how each county operates emergency communications, and to see how the ARES SEC role will be able to assist and coordinate between the 3 counties in the Section. I have been the SEC for about 3 years. I should not be both the Section Manager and SEC. We need to have more focus on each position.

I am looking forward to spending more time on being SM. One of the tasks that I have passed off to Rick, among others, is the EmComm and volunteer hours reporting to ARRL headquarters.

Additionally, Andy Ludlum, K6AGL, member of the Conejo Valley Amateur Radio Club, has been appointed as the first Assistant Section Manager in the Santa Barbara Section. The SM position will be a club liaison for me, the Section Manager, to have a person in the know hopefully at each club. I really have little to no secret ARRL information, but when I am aware of issues, successes, opportunities, we can work together to accomplish our goals.

There are many volunteer positions to fill in the Section. The one that I am focusing on right now is the Section Traffic Manager. The STM will manage the Section's involvement in the National Traffic System. We need to work on and develop the NTS in the Section. There is quite a bit of work to do, but there are several dedicated volunteers in the Section, working within the NTS, who will make the system work.

Let me know if you would like to volunteer for the STM position, or any volunteer position. I'll be talking about specific positions in the coming months.

Santa Barbara Section Volunteers

Right now, we have 2 Section email systems. That is partly why we need volunteers to help rectify (electrical term) this issue. To make sure that everyone is getting the information, I will be sending emails through both systems. This email is for hams registered at the ARRL website as being in the Santa Barbara Section.

So, what do you get for being a volunteer? A special name/callsign badge and a certificate. And the satisfaction of helping ham radio in many aspects. I am still looking for volunteers to fill the remaining Section Leadership positions. The jobs are:

Assistant Section Manager (essentially a club liaison - one from each club, preferably)

Local Government Liaison (a person to be the contact for the local government, could be a city or county - to understand the local issues. Not to be a political operative or community organizer, but to be a positive contact for the local government, answer the government leader's questions, be aware of whom the players are) (Continued on next page)

ARRL Santa Barbara Section (Continued)

Traffic manager - (the traffic system in the Section runs well, but needs a bit of coordination throughout the Section, and most importantly, finding new bodies to join the traffic system. Maybe the various Morse groups could provide people to be trained as traffic messengers).

Public Information Coordinators - (We have an excellent PIO, but each club should have someone who handles public information contacts, such as social media, print media, video (television, cable, YouTube etc.) media and more.)

Section Youth Coordinator (Doesn't need to be a teenager, but it could be. Someone who will focus ham radio toward the youth - schools, makers etc. Someone to help clubs do so, if they are so inclined.)

Club Coordinator (help get clubs active, motivated and working in the general support for ham radio.

Some other type of groups will bring in a speaker to talk at all clubs for a reduced cost.

We would like to have a Santa Barbara Section conference again. Need someone to help make it happen - just a small conference/Hamfest - look at the Yuma Arizona Hamfest.

Technical Specialist (working with the Technical Coordinator, maybe have experts "Elmers" for various aspects and specialties. How to get on FT8 (why won't my computer key my KX3; I can decode signals, just not key the radio), contesting, setting up a station, RFI solutions, use of chokes and why, homebrewing, how to solder - or crimping - how to install a coax connector, what is DMR/etc. and how to make my radio work - what is a hotspot, and more. We could use a dozen or more people.

Webmaster (I am not a web guy. Who is, or what groups of people are, who could help us? We need a Section website)

Special Event coordinator (We have a small Section budget that can cover some costs such as website hosting). The following clubs are ARRL affiliated:

Conejo Valley ARC (Andy Ludlum, K6AGL Assistant Section Manager)

Ventura County ARC (K6MEP)

Ventura County ARS

Simi Settlers ARC

Santa Barbara ARC

UC Santa Barbara ARC

Paso Robles ARC

Cal Poly San Luis Obispo ARC

Satellite ARC

And hopefully Pleasant Valley ARC soon.



There are more groups and clubs, which should not be ignored, but these are the "affiliated" clubs. The Section includes the counties of San Luis Obispo, Santa Barbara and Ventura. More schools, middle, high, community college and college/university should have a radio club.

Let me know if you would like to help, or get more information. Get one of those pretty, special color ARRL badges. No membership is required.

SB QST @ ARL \$ARLB016

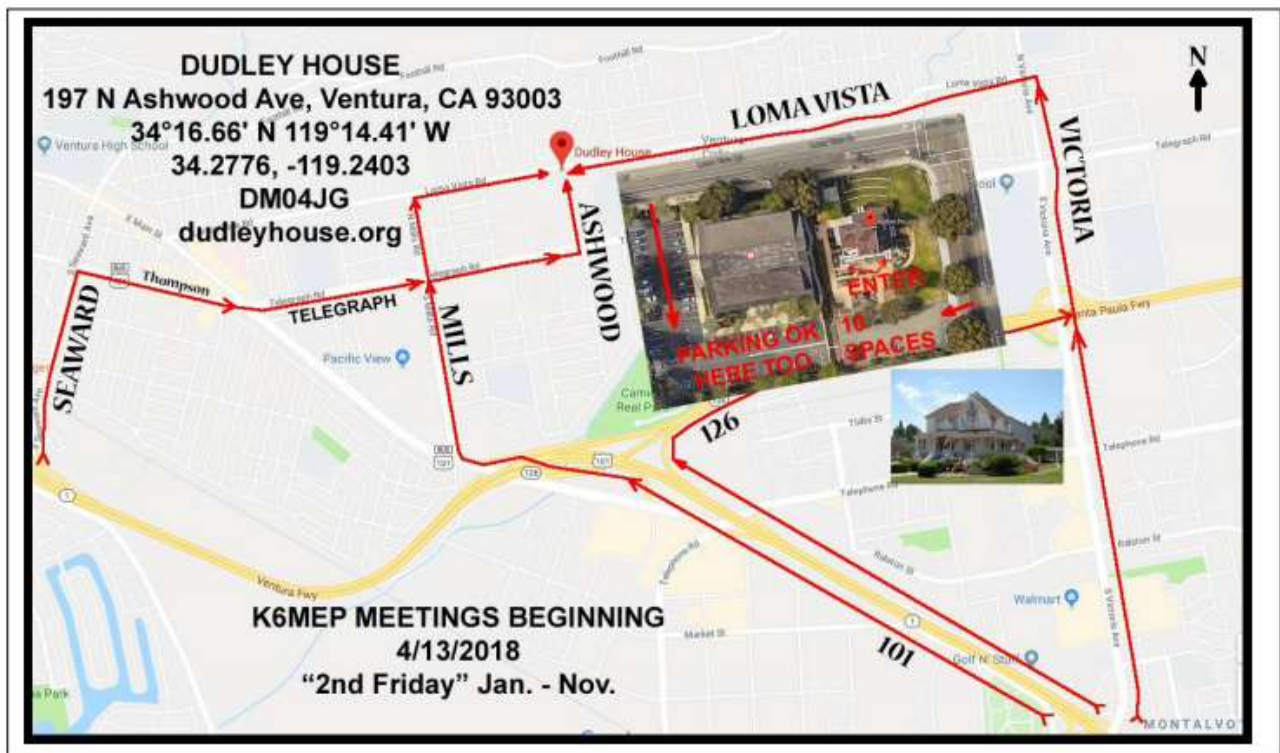
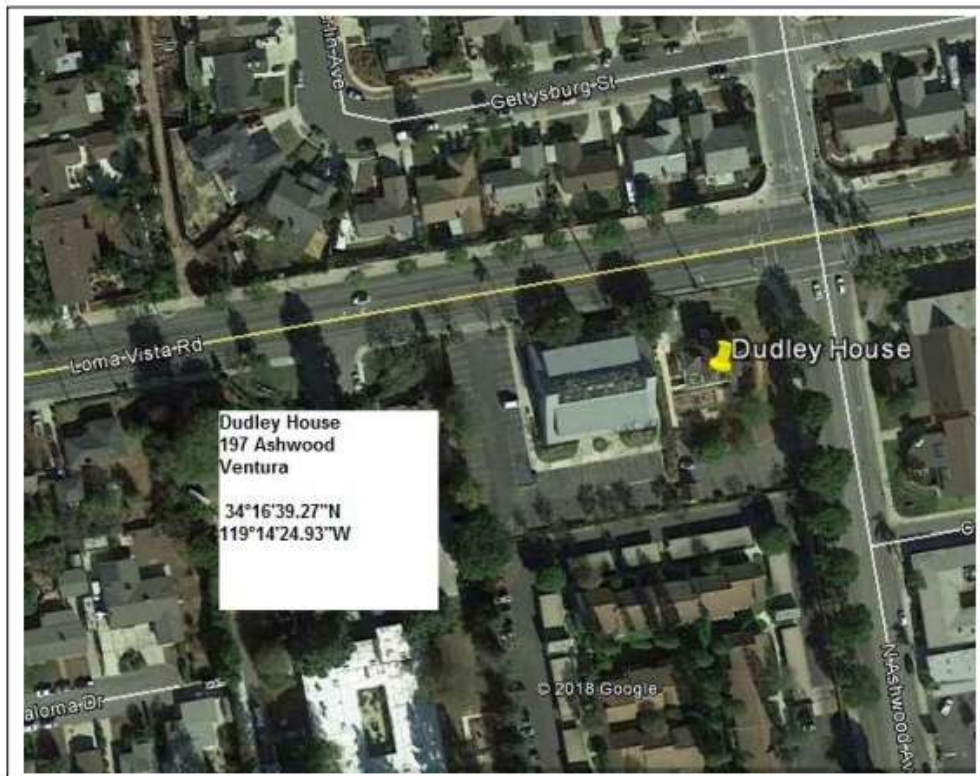
John Kitchens, NS6X

PO Box 178

Somis, CA 93066

805.216.2569 NS6X@ARRL.org

Meeting Location Maps



Y/N for the following: New Member ☐ Renewing ☐ Member of ARRL? ☐

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				
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 an oscilloscope				
Local Repeaters You Can Hit				
MESH				
Moonbounce				
More social events, picnics, etc.				
NVIS for regional HF communications				
QSLs, QSL cards, ARRL LOTW, eQSL				
SDR - Software Defined Radios				
Compact HF antennas				
Soldering				
Sulphur Mountain Repeater Association				
SWR, Meaning and Measurement.				
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				
ARRL American Radio Relay League topics				
I can give a presentation on:				

ARRL News

(All photos and icons from ARRL.org or other specified sources).

Lew Malchick, N2RQ, n2rq@arrl.net and Ken Gunther, WB2KWC, wb2kwc@kengunther.com

2020 – 2021 School Club Roundup Results

The next School Club Roundup will take place October 18 – 22, 2021.

The main purpose of School Club Roundup (SCR) is to acquaint school-age students with the fun of amateur radio. The most recent sessions were impacted by the COVID-19 pandemic, but students still found a way to enjoy the SCR and get on the air.

Participation

With only 80 entries this year, the number of entries decreased from last year's 139. Most notably, there were no entries from elementary schools during either session. In other years, entries usually represented more than 500 operators/participants with an average of more than 10 per school entry. Neither session topped 150 operators/participants from schools and clubs. W. Travis Loftin High School Amateur Radio Club, K4WTL, in Gainesville, Florida, was outstanding, with 40 reported operators/participants in each session. The full results are available at <https://contests.arrl.org/scrresults.php>.

Adjusting to COVID-19

All of the school clubs should be commended for their persistence and ingenuity during the pandemic.

A Connecticut school was resourceful. Anthony Girasoli, W1TTL, developed a remote-operation tool based on a Raspberry Pi and a relay board, allowing several Norwich Free Academy Amateur Radio and Engineering Club, W1HLO, members to operate their club station remotely. They were able to share receive-and-transmit audio and control push-to-talk (PTT). For more details, visit <https://github.com/discsofton/W1TTL-RI-Control>.

Schofield Middle School Radio Club, N4SMS, in Aiken, South Carolina, reported their operating conditions on the ARRL Contest Soapbox page (at <https://contests.arrl.org/scr/soaps>), saying, "No high-power HF amplifier, no beam antennas at 60 feet. As far as equipment, just a 100 W Icom IC-7300 and an out-of-production 80-meter CAROLINA WINDOM® wire antenna strung between pine trees."



Anna Matson, KN4IVD, operated from home as part of the Schofield Middle School Radio Club during the October 2020 School Club Roundup. [James Matson, KN4QQD, photo]

The club station of LaFayette Middle School in LaFayette, Georgia, shared, "For spring 2021 SCR, W4LMS operated from our football field's concession stand. It was a heated location on campus that allowed our community volunteers access to assist us. And just like the fall SCR, we operated on '100 W and a wire' with battery power. And once again, we operated with an all-female crew on the radio."

The SCR is a great way to introduce students to amateur radio. A fourth-year student at Case Western Reserve University wrote that their radio club, W8EDU, was "still able to get some new hams to the station, including two first-year students."

Looking Ahead

We look forward to the next two SCR sessions, with the hope that school activities will be closer to normal. All modes that support the full contact exchange are permitted. (Note that as of this writing, *WSJT-X* doesn't support the SCR.) JS8 might be a mode to try. Please share your stories and pictures and discuss any less-common digital modes you've used on our Soapbox page, along with your submission.

For more information and discussions about SCR, join our email group at scr@groups.io or visit www.arrl.org/school-club-roundup. You can also contact us at scr@limarc.org.

ARRL News (Continued)

----- Official NOAA 3-day -----				
Sep 30 Thu	Oct 1 Fri	Oct 2 Sat	Oct 3 Sun	Oct 4 Mon
M-class 25% <i>X-Class:5%</i>	M-class 25% <i>X-Class:5%</i>	M-class 25% <i>X-Class:5%</i>	M-class 30%	M-class 30%
2871, 2877, 2880, 2881	2871, 2877, 2880, 2881	2871, 2877, 2880, 2881	2877, 2880, 2881	2877, 2880, 2881
Solar flux: 100	Solar flux: 105	Solar flux: 110	Solar flux: 115	Solar flux: 115

FCC Application Fees Unlikely to Go into Effect Until 2022

The schedule of FCC amateur radio application fees likely will not go into effect before 2022. FCC staff confirmed during a July virtual meeting with Volunteer Examiner Coordinators (VECs) that the agency is still working on the necessary changes to the Universal Licensing System (ULS) software and other processes and procedures that must be in place before it starts collecting fees from amateur applicants.

Once it's effective, the \$35 application fee will apply to new, modification (upgrade and sequential call sign

change), renewal, and vanity call sign applications. All fees will be per application. Administrative update applications, such as those to change a licensee's name, mailing, or email address, will be exempt from fees. ARRL VEC Manager Maria Somma, AB1FM, said Volunteer Examiner (VE) teams will not face the burden of collecting the \$35 fee.

"Once the FCC application fee takes effect, new and upgrade applicants will pay the exam session fee to the VE team as usual, but they'll pay the \$35

application fee directly to the FCC using the FCC Pay Fees system," she explained. When the FCC receives the examination information from the VEC, it will email a link with payment instructions to each successful candidate, who then will have 10 days from the date of the email to pay.

After the fee is paid and the FCC has processed an application, examinees will receive a second email from the FCC with a link to their official license. The FCC no longer provides printed licenses.



ARRL Provides Free RF Exposure Calculator

Under new FCC guidelines and procedures for evaluating environmental effects of RF emissions, some amateurs must perform routine station evaluations to ensure that their stations comply with the RF exposure rules. This can be as simple as running an online calculator to determine the minimum safe distance between any part of your antenna and areas where people might be exposed to RF energy from your station. Amateurs can take their own measurements, but evaluations can also be done by calculation.

To simplify the task, ARRL now provides an RF exposure calculator on its RF

Exposure page, at <http://arri.org/rf-exposure-calculator>. To use the calculator, enter your transmit peak-envelope power (PEP) and operating mode, and answer the questions about the maximum amount of time you might be transmitting. The calculator will give users the minimum distance people must be from your antenna and human exposure.

Results may be printed for filing; these do not need to be sent to the FCC.



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ARRL News (Continued)

Rick Lindquist, WW1ME, ww1me@arrl.org

Happenings

ARRL Board Creates Emergency Communications and Field Services Committee

At its July meeting, the ARRL Board of Directors approved by-law changes creating a third Standing Committee that joins the existing Administration and Finance Committee and Programs and Services Committee. The charter of the new Emergency Communications and Field Services Committee (EC-FSC) is to develop and recommend new or modified Board policy and programs for emergency communications through the Amateur Radio Emergency Service® (ARES®) and National Traffic System (NTS™)

entities. The committee will also offer enhanced support for its Field Organization leadership volunteers, including Section Managers, and an increased focus on ARRL Affiliated Clubs.

Further, the EC-FSC will provide guidance to the CEO in translating Board policy into prioritized tasking, funding, and staffing of programs, services, and training in support of amateur radio emergency communications, field organization volunteers, and recruitment and retention of new

and existing members through assistance to Affiliated and Special Service Clubs.

The EC-FSC will have additional responsibility to monitor and assess trends in emergency communications technology and participant skills worldwide, and to identify “best practices” for voluntary emergency communications provided by ARES and NTS, coordinating and cooperating with other amateur radio national societies as appropriate.

ARRL Headquarters Holds Rededication Ceremony

On July 15, ARRL Headquarters hosted a rededication ceremony, recognizing ARRL's commitment to all radio amateurs who enhance the communications capability and security of the nation. The event coincided with the attendance of the ARRL Board of Directors. In his remarks, ARRL President Rick Roderick, K5UR, recognized members of ARRL's Amateur Radio Emergency Service® (ARES®) for serving their communities with essential communications When All Else Fails®. ARRL CEO David Minster, NA2AA, reflected on the commitment made to maintain the organization's operations for the benefit of its members during the pandemic. US Congressman John B. Larson presented Minster with a Congressional Recognition for “the dedicated and phenomenal service that the ARRL and its members” provide.



US Congressman John B. Larson (left) presenting ARRL CEO David Minster, NA2AA (right), with a Congressional Recognition for ARRL.

next page)

(Continued on

ARRL News (Continued)

Rick Palm, K1CE, k1ce@arrl.org

Public Service

ARRL Field Day at an Emergency Operations Center

This year, I participated in the North Florida Amateur Radio Club (NFARC) and Alachua County Emergency Operations Center (EOC) Radio Club ARRL Field Day operation, NF4AC. It took place on the large county EOC campus on the outskirts of Gainesville, Florida, a major university town prone to hurricanes and other severe-weather emergencies. Our focus for the 2021 ARRL Field Day was preparation and practice for providing emergency communications services to the community, especially for the EOC, where Amateur Radio Emergency Service® (ARES®) has worked hard for its excellent relationship with county emergency management administrators and staff. There's a room dedicated to an amateur radio station just off the EOC's center of activity room, where emergency support function professionals sit during an incident.

Last year, the group successfully carried out their first Field Day at the EOC, during the COVID-19 pandemic. This year, efforts began in April to obtain permission and plan for the June 26 – 27 event following Incident Command System (ICS) procedures. A new sheriff's administration posed an opportunity for forming new relationships, and Field Day would help establish them.

Leaders reviewed 61 Improvement Plan (IP) recommendations from the 2020 event and created an improved Incident Action Plan for 2021, recruiting Section Chiefs and Unit Leaders to work within an ICS structure.



Former FEMA Administrator Craig Fugate, KK4INZ, operated FT8 and GridTracker during the NFARC and Alachua County EOC Radio Club Field Day operation, NF4AC. [Gordon Gibby, KX4Z, photo]

Valuable Improvements

Significant advances resulting from this year's Field Day operation included testing an improved backup EOC HF antenna with successful PSKReporter checks, confirming near-equivalent performance of the primary and secondary antennas. For many of the operators, Field Day brought their first 6-meter experience. The participants gained a better understanding of EOC/sheriff volunteer vetting processes. Most significantly, the team improved its operating efficiency, doubling the number of contacts made over the previous year's operation.

Contributing to efficiency and performance was an improved computer-based automatic logging system for the FT8 station, which required almost no user intervention by the control operator other than verifying that it was logging. Other contributing factors included an operation management system that coordinated the stations through a microwave local area mesh network.

Here are some of the major strengths identified during this year's Field Day:

- Setup was completed in only 3 hours, including raising two HF antennas in a grassy field and an innovative 6-meter vertical antenna built on the base of a basketball hoop.
- Tear-down was completed in just 75 minutes.
- A 6-meter station greatly contributed to the contact total using the "free" VHF transmitter rule, allowing for a lot of youth participation.
- Two large RVs provided additional protection from the elements and offered a more comfortable operating experience for the VHF and FT8 station.
- Many new amateur radio operators gained valuable experience and training.
- The microwave network was a success for moving data in and out of the heavily reinforced EOC building.
- The decision to employ external RF power amplifiers was validated by higher contact rates.
- Interference issues between the higher-power stations 200 yards apart were found to be minimal, even without band-pass filters.
- A media campaign garnered wide coverage, resulting in visits from reporters and the public, which was far more than last year.

on next page)

ARRL News (Continued)

Calculating Transmission Line Loss with SWR Readings

Here is a remarkably simple way to determine the percentage power loss in your coax with any amount of standing-wave ratio (SWR). The accuracy will depend on the accuracy of your SWR meter, but that's not overly critical. The method consists of taking two readings and then consulting the chart shown in Figure 2. All readings are taken at the transmitter end of the coax.

Read SWR values directly at the coax input, not through an antenna tuner or other device in the line. A choke or current balun at the antenna will help ensure accurate SWR values and prevent strange readings. Just use the following steps:

1 If you know the matched (SWR = 1:1) loss of your coax in decibels, you can skip this step by using the small red numbers along the bottom of the chart. Otherwise, replace the antenna with a short or open on the antenna end of the coax and measure the SWR. By consulting the bottom scales on the chart, you can relate this SWR to the matched coax loss. The SWR measurements with an open and with a short may be different, especially if the coax is less than one quarter wave at your operating frequency. If so, convert the two SWR values to matched loss values using the red scale at the bottom of the chart. Then take the average of the two matched loss values as the value to use.¹

2 With the antenna connected, measure the SWR at the operating frequency.

3 Using the chart in Figure 2, find where the two SWR readings cross. Read the percentage of power reaching the antenna from the diagonal lines.

¹The reason why this averaging method is used is explained in Frank Witt's, AI1H, May/June 2005 QEX article, "Measuring Cable Loss."

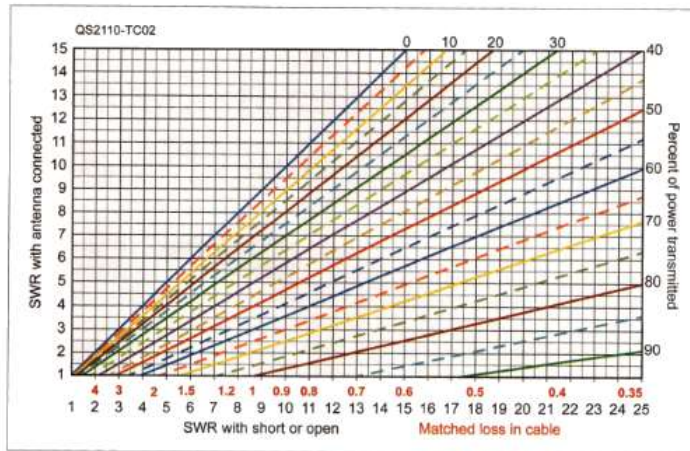


Figure 2 — Use this chart to calculate actual coax loss by comparing two SWR readings.

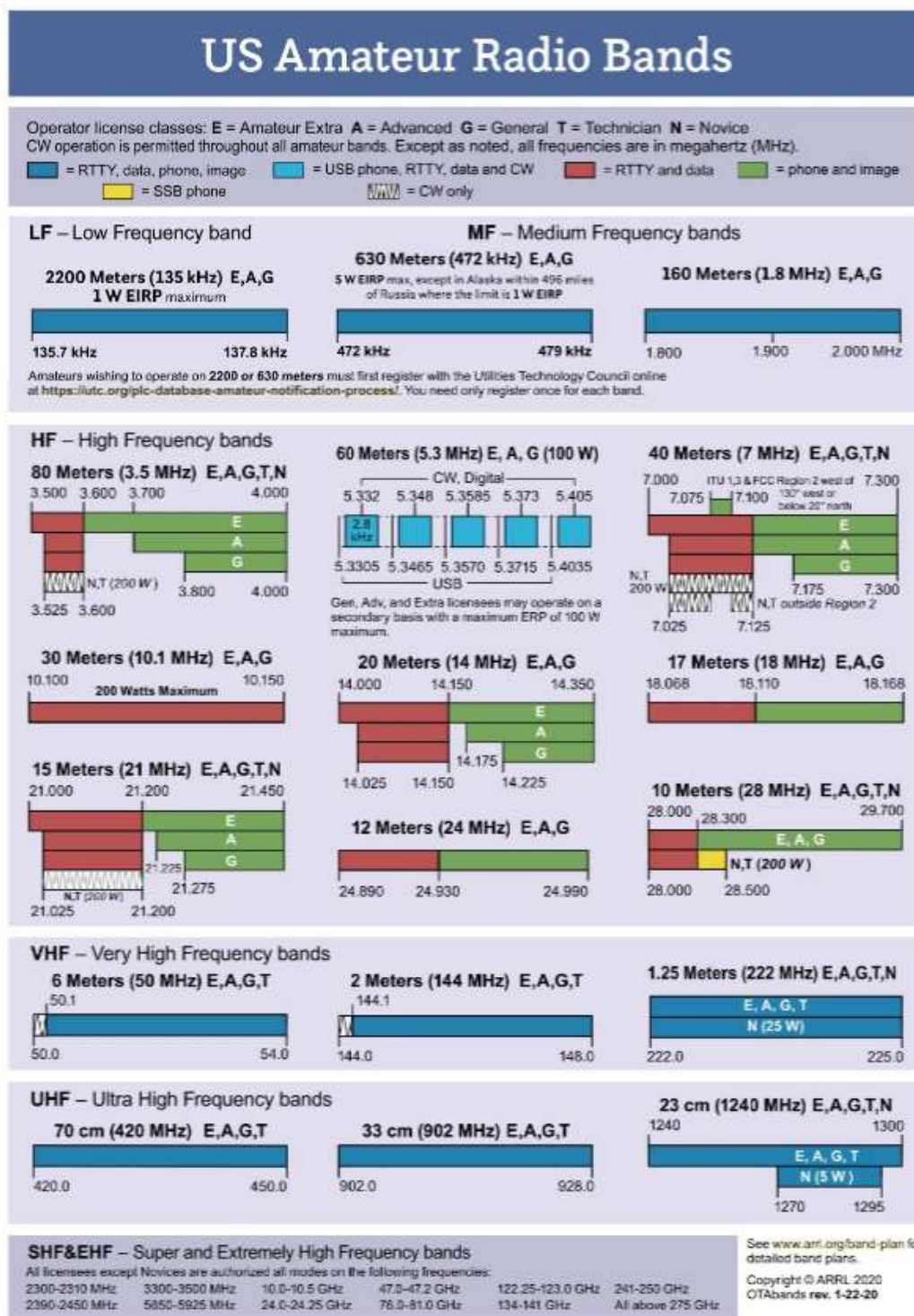
For example, if the SWR with a short or open is 10:1, the matched coax loss will be about 0.9 dB. If the SWR with the antenna connected is 3:1, 65% of the transmitter power will reach the antenna. By matching at the antenna (reducing the SWR to 1:1), about 82% of the power will reach the antenna. — 73, John Stanley, K4ERO, k4ero@arri.net

Technical Correspondence items have not been tested by QST or ARRL unless otherwise stated. Although we can't guarantee that a given idea will work for your situation, we make every effort to screen out harmful information.

Materials for this column may be sent to ARRL, 225 Main St., Newington, CT 06111; or via email to tc@arri.org. Please include your name, call sign, complete mailing address, daytime telephone number, and email address on all correspondence. Whether you are praising or criticizing a work, please send the author(s) a copy of your comments. The publishers of QST assume no responsibility for statements made herein by correspondents.



US Amateur Radio Bands



W1AW Schedule

W1AW Schedule

PAC	MTN	CENT	EAST	UTC	MON	TUE	WED	THU	FRI
6 AM	7 AM	8 AM	9 AM	1400		FAST CODE	SLOW CODE	FAST CODE	SLOW CODE
7 AM- 1 PM	8 AM- 2 PM	9 AM- 3 PM	10 AM- 4 PM	1500-1700 1800-2045	VISITING OPERATOR TIME (12 PM-1 PM CLOSED FOR LUNCH)				
1 PM	2 PM	3 PM	4 PM	2100	FAST CODE	SLOW CODE	FAST CODE	SLOW CODE	FAST CODE
2 PM	3 PM	4 PM	5 PM	2200	CODE BULLETIN				
3 PM	4 PM	5 PM	6 PM	2300	DIGITAL BULLETIN				
4 PM	5 PM	6 PM	7 PM	0000	SLOW CODE	FAST CODE	SLOW CODE	FAST CODE	SLOW CODE
5 PM	6 PM	7 PM	8 PM	0100	CODE BULLETIN				
6 PM	7 PM	8 PM	9 PM	0200	DIGITAL BULLETIN				
6 ⁴⁵ PM	7 ⁴⁵ PM	8 ⁴⁵ PM	9 ⁴⁵ PM	0245	VOICE BULLETIN				
7 PM	8 PM	9 PM	10 PM	0300	FAST CODE	SLOW CODE	FAST CODE	SLOW CODE	FAST CODE
8 PM	9 PM	10 PM	11 PM	0400	CODE BULLETIN				

W1AW's schedule is at the same local time throughout the year. From the second Sunday in March to the first Sunday in November, UTC = Eastern US time + 4 hours. For the rest of the year, UTC = Eastern US time + 5 hours.

♦ Morse code transmissions: Frequencies are 1.8025, 3.5815, 7.0475, 14.0475, 18.0975, 21.0675, 28.0675, 50.350, and 147.555 MHz.

Slow Code = practice sent at 5, 7½, 10, 13, and 15 WPM.
Fast Code = practice sent at 35, 30, 25, 20, 15, 13, and 10 WPM.
Code bulletins are sent at 18 WPM.

For more information, visit us at
www.arrrl.org/w1aw

♦ W1AW Qualifying Runs are sent on the same frequencies as the Morse code transmissions. West Coast qualifying runs are transmitted by various West Coast stations on CW frequencies that are normally used by W1AW, in addition to 3590 kHz, at various times. Underline 1 minute of the highest speed you copied, certify that your copy was made without aid, and send it to ARRL for grading. Please include your name, call sign (if any), and complete mailing address. Fees: \$10 for a certificate, \$7.50 for endorsements.

♦ Digital transmissions: Frequencies are 3.5975, 7.095, 14.095, 18.1025, 21.095, 28.095, 50.350, and 147.555 MHz.

Bulletins are sent using 45.45-baud Baudot, PSK31 in BPSK mode, and MFSK16 on a daily revolving schedule.

Keplerian elements for many amateur satellites will be sent on the regular digital frequencies on Tuesdays and Fridays at 6:30 PM Eastern time using Baudot and PSK31.

♦ Voice transmissions: Frequencies are 1.855, 3.99, 7.29, 14.29, 18.16, 21.39, 28.59, 50.350, and 147.555 MHz. Voice transmissions on 7.290 MHz are in AM double sideband, full carrier.

♦ Notes: On Fridays, UTC, a DX bulletin replaces the regular bulletins. W1AW is open to visitors 10 AM to noon and 1 PM to 3:45 PM Monday through Friday. FCC-licensed amateurs may operate the station during that time. Be sure to bring your current FCC amateur license or a photocopy. In a communication emergency, monitor W1AW for special bulletins as follows: voice on the hour, teleprinter at 15 minutes past the hour, and CW on the half hour.

W1AW code practice and CW/digital/phone bulletin transmission audio is also available real-time via the *EchoLink Conference Server* W1AWBDCT. The conference server runs concurrently with the regularly scheduled station transmissions. The W1AW Qualifying Run texts can also be copied via the EchoLink Conference Server.

During 2020, Headquarters and W1AW are closed on New Year's Day, Presidents Day (February 17), Memorial Day (May 25), Independence Day (July 4), Labor Day (September 7), Veterans Day (November 11), Thanksgiving and the following day (November 26 and 27), and Christmas (December 25).

