



Moreno Valley Repeater

Moreno Valley Amateur Radio Association

July-August- 2019

MESSAGE FROM THE PREZ

REMINDER: No Membership Meeting or Breakfast in July !

As we enter our "dark" month of July, on behalf of your Board I want to thank everyone who participated in our 2019 Field Day. Support of the members is essential in keeping our Club strong and we really appreciate you. Rich Palmer, David Bell, Susan Stanley, Steve DeLong, and Ed Nijst joined me as the set-up and take-down team, and Steve and Ed barbecued hamburgers and hot dogs. Doug Rimmer and several former members dropped by, and one visitor, Bob Capps, N6SHT, joined the Club! David Bell brought the Red Cross Emergency Response Vehicle and manned the Red Cross radio. Photos are included in this newsletter and on the website. As usual, Field Day provided challenges and opportunities similar to those that operators may experience in the field during times of off-grid communication.

73 Bob Morris KK6BXJ

MVARA WELCOMES NEW MEMBERS



Bob Capps N6SHT



Mike Barker AI6PD

ROSTER 2019

PAID MEMBERS

Michael Anderson W6OSO
Michael Barker AI6PD
 David Bell N6DJB
Bob Capps N6SHT
 Mike Cruz Ki6MGX
 Steve DeLong W7DTH
 Steve Evans AF6HR
 Tom Morey KK6DOG
 Bob Morris KK6BXJ
 Ed Nijst AJ6ET
 Rich Palmer KK6CXA
 Alan Pearson KB6DMZ
 Ryan Reuther KM6SPZ
 Doug Riggie KK6D
 Susan Stanley KG6NKF

LIFETIME MEMBERS

Mike Box N6BOX
 Robin Box K6BOX
 Larry Froehlich K9ALR
 Glen Johnsen KA6GMA
 Carl Schmidt KF6JE
 Cheryl Schmidt KA6WRD
 Glenn Tobey AB6PA
 Betty Hapeman KE6V
 Jerry Lloyd N6MEJ
 Larry Marcum KA6GND
 Steven Rathbone AJ6Y
 Glen Sperry Ki6GDD
 JD Weiss NK7W

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"END-FED (RANDOM) WIRE ANTENNAS" by GLEN JOHNSEN

Today							July 2019		Print Week Month Agenda	
Sun	Mon	Tue	Wed	Thu	Fri	Sat				
30	Jul 1	2	3	4	5	6				
		7:30pm mvara net		NO MVARA mtg - L						
7	8	9	10	11	12	13				
7pm NO WRC ARES	7:30pm mvara net			7pm WRC ARES Net						
14	15	16	17	18	19	20				
		7:30pm mvara net		7pm WRC ARES Net		NO BREAKFAST				
21	22	23	24	25	26	27				
		7:30pm mvara net		7pm WRC ARES Net						
28	29	30	31	Aug 1	2	3				
	6pm board call	7:30pm mvara net		6:30pm mvara mtg	7pm WRC ARES Net					

Today							August 2019		Print Week Month Agenda	
Sun	Mon	Tue	Wed	Thu	Fri	Sat				
28	29	30	31	Aug 1	2	3				
		6pm board call		6:30pm mvara mtg						
		7:30pm mvara net		7pm WRC ARES Net						
4	5	6	7	8	9	10				
		7:30pm mvara net		7pm WRC ARES Net						
11	12	13	14	15	16	17				
7pm WRC ARES mtg	7:30pm mvara net			7pm WRC ARES Net		9am Polly's Pies				
18	19	20	21	22	23	24				
		7:30pm mvara net		7pm WRC ARES Net						
25	26	27	28	29	30	31				
		7:30pm mvara net		7pm WRC ARES Net						

MVARA Field Day

1986

Under a parachute

at

March Air Force

Base!



2019 Field Day

Field Day activities were held on Saturday, June 22nd at Moreno Valley Community Park. David Bell, N6DJB, was the lucky raffle winner of the Yaesu FT70DR HT.



MVARA SALUTES ALAN PEARSON



President Bob Morris, KK6BXJ, presented a Certificate of Appreciation and a dual desk clock to Alan Pearson, KB6DMZ, at the May 2019 member meeting in recognition of over 30 years of support of the MVARA. Alan was recruited to join the Club in 1986 by Lifetime member Larry Marcum, KA6GND

The following is from an article by Adele Elkins in the Moreno Valley Butterfield Express April 20, 1988

Volunteer handles communications



“Without communications, a disaster can easily turn into chaos,” Alan Pearson, volunteer emergency communications coordinator for Moreno Valley’s Disaster Response Force, said. “Moving information is critical in order to provide direction and not end up duplicating services,” Pearson said. A two-year resident of Moreno Valley, Pearson became involved in the city’s disaster plan at its onset in March of 1987. “When I moved here with my family I got interested in earthquakes and ended up taking Red Cross classes on damage assessment and first aid,” Pearson said. He is employed by the California Employee Development Department and finds he easily spends between 10 and 20 hours per week organizing the efforts of the communication for the city’s disaster program. The use of amateur radio allows communications to be totally portable and Pearson said this is crucial in order to be able to dispatch operators to locations where they would be most useful.

There are 55 amateur radio operators available presently,” he said. “When an amateur radio operator is licensed by the Federal Communications Commission they are obligated to provide their services when requested to do so in an emergency situation.” The volunteer amateur radio operators are receiving special emergency training which will make them more effective in a disaster situation,” he said. “We are providing them with all the basics, such as CPR and first aid training so they can take care of themselves and thereby be available to the city,” Pearson said. Volunteers are taught how to handle emergency messages and how to activate emergency power systems. Although there are 55 amateur radio operators signed up as volunteers Pearson said the need for more is still critical.

“At any given moment there needs to be enough operators to sufficiently activate the network we will need and if during the day a disaster happens a lot of our volunteer operators will be at work as far away as Orange County,” Pearson said. One solution to the problem is a program developed to train housewives and those who would most likely be in Moreno Valley during the day to become amateur radio operators. We think we’re setting a precedent in Moreno Valley by training ladies to be operators for the communication department. We have nine women in the process of getting their licenses with three already qualified with their service license and six more working on their Morse code,” Pearson said. The training is being provided by Bob Boyter, deputy communications coordinator. Many of the volunteer operators are members of the Moreno Valley amateur Radio Association whose primary function is support of emergency communications and to provide educational and social opportunities for its members.

Pearson has been an amateur radio operator for four years and also is the assistant emergency coordinator for the radio amateur civil emergency services (RACES). The RACES group is a county operated function through the fire department and covers Moreno Valley to Sun City and has approximately 180 members. “Most of the people involved in RACES are dedicated in their community,” Pearson said. The amateur radio operators are well represented in the city’s plan and have a voice in what goes on in the program, Pearson said. Communication is one of the prime aspects of the plan,” he said. “Getting information from point A to point B is critical when land lines are down.”

Each Tuesday night the communications plan gets tested during a network drill. “Over the air we activate the NET and a controller directs those who are on the air to talk when called upon,” Pearson said. In the event of an actual emergency the communications department would be responsible for moving information and passing along damage assessment is the emergency operating center. Special packet units which are computers that can be used to send large amounts of data over the air at tremendous speeds will be utilized by the communications department in the event of a disaster. “Right now we have access to one totally portable battery operated packet unit and hope to get more soon,” Pearson said. “The reason I’m involved and also the others that are part of the communication department is because we live here and take pride in our community. We want to do what we can to provide effective communication services.”

Thanks to Glen Johnsen KA6GMA for submitting the following article:

End-Fed (Random) Wire Antennas

This article is intended to get you thinking about using end fed wire antenna at your home location or in the field. Upon moving to Kingman, AZ, my 40 meter dipole signal wasn't reaching Moreno Valley as well as could be expected. So, WA6VWW and I recently installed an End Fed wire antenna at the Kingman, AZ residence. End Fed wire antennas are cheap, multi-band and portable. The antenna does require a transceiver built in Antenna Tuning Unit (ATU) or other matching device. The biggest benefit is only one standing support is required, (e.g., a tree, a building or a fishing pole).

A good earth connection is a must. My ground connection is a spiral dog tie out stake with one 80 meter quarter wave wire attached to the stake and spread across the top of the ground. It can be buried.

How long is full wave end antenna? The length of the full wave is dependent on Frequency.

Spectrum	Band	Frequency Megahertz	Length		Half Wave
	Meters		Meters	Feet	Feet
HF	80	3.5	85.6	281	140
	40	7.0	42	140	70
	10	28.0	10.7	35	17.5
VHF	144	144	2.0	6.7	3.35
UHF	440	440	.6	2.2	1.1

Antenna Length: To calculate the physical length of an antenna, use a correction of 0.95 for frequencies between 3.0 and 50.0 MHz. The figures below are for a half-wave antenna.

$$\text{Length (meters)} = \frac{150 \times 0.95}{\text{Frequency in MHz}} = \frac{142.5}{\text{Frequency in MHz}}$$

$$\text{Length (feet)} = \frac{492 \times 0.95}{\text{Frequency in MHz}} = \frac{468}{\text{Frequency in MHz}}$$

Use the following formula to calculate the length of a long-wire antenna (one wavelength or longer) for harmonic operation:

$$\text{Length (meters)} = \frac{150 (N-0.05)}{\text{Frequency in MHz}} \qquad \text{Length (feet)} = \frac{492 (N-0.05)}{\text{Frequency in MHz}}$$

N equals the number of half-wavelengths in the total length of the antenna. For example, if the number of half-wavelengths is 3 and the frequency in MHz is 7, then:

$$\text{Length (meters)} = \frac{150 (N-0.05)}{\text{Frequency in MHz}} = \frac{150 (3-0.05)}{7} = \frac{150 \times 2.95}{7} = \frac{442.50}{7} = 63.2 \text{ meters}$$

This end fed antenna gets a solid copy back to Moreno Valley and as far east as Tennessee on SSB. I have gotten completed QSO's from east Pennsylvania. The image below shows exactly my setup. For further information see ARRL antenna handbook.

