



Moreno Valley Repeater

Moreno Valley Amateur Radio Association

September-October 2019

MESSAGE FROM THE PREZ

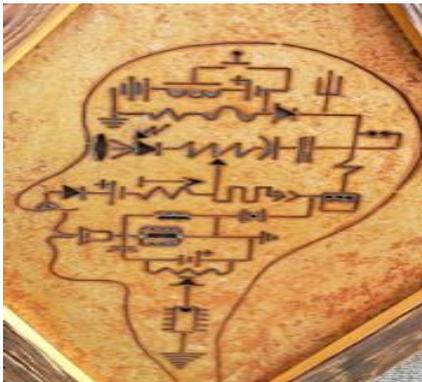
Just a reminder - anyone available for a few minutes on Tuesday nights please check in on the weekly MVARA Net even if you can't stay beyond check-in for the roundtable. Our Net is on the City Hall Box Springs Repeater (449.300 - pl 103.5) 7:30-8:00 pm. This is a great way to ensure we're all "communication-ready" in the event of a disaster.

It's that time of year: Election of officers to lead the Club in 2020! Nominations will be accepted October 1-31; Voting November 7th. Susan (KG6NKF) will be hitting the road for a year of full time RV-ing in 2020 so the office of secretary is open. We'd appreciate a member's self-nomination to fill that office. Please email all nominations to kk6bxj@outlook.com

73 Bob Morris KK6BXJ

MVARA WELCOMES NEW MEMBER

JESSE MCDONALD K6DR



Self-portrait of a ham enthusiast studying for FCC licensing exam

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
- Jesse McDonald K6DR
- Tom Morey KK6DOG
- Bob Morris KK6BXJ
- Ed Nijst AJ6ET
- Rich Palmer KK6CXA
- Alan Pearson KB6DMZ
- Ryan Reuther KM6SPZ
- Doug Riggle 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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2019 ROSTER

NEW MEMBERS

MVARA SALUTES LIFETIME MEMBER LARRY MARCUM

1986 interview with LARRY MARCUM

CALENDARS September & October

What is a CAVITY FILTER?

ab6mvnet@gmail.com

Today ◀ ▶ September 2019 ▼

Print Week Month Agenda ▾

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

ab6mvnet@gmail.com

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	7:30pm mvara net		7pm WRC ARES Net				
27	28	29	30	31	Nov 1		
	7:30pm mvara net		Officer Nomination 7pm WRC ARES Net				

MVARA SALUTES Lifetime Member LARRY MARCUM

The following is from an article in the Moreno Valley Butterfield Express February 25, 1988

Amateur radio association operators ham it up

It began with a handful of hams. Pork chops and pot roasts aside, the handful has grown to about 35. These hams are not the kind that are baked or broiled. They're amateur radio operators – hams. The Moreno Valley Amateur Radio Association, now in its fourth year in the valley, boasts members ranging in age from 14 to 65.



Larry Marcum, president of the association, says its main purpose is disaster preparedness. "We work closely with the city in their disaster drills. We're in the process of submitting a disaster plan to the city. When a disaster happens, let's say an earthquake, we first respond to City Hall – the heart of all the city offices. All we amateurs check into the emergency operations center via our ham radios. Our operators respond wherever we're needed – we're dispatched right away to those spots," Marcum says.

Marcum says ham operators don't get involved in the actual disaster aid and proceedings; their main function is communication. Ham radio operators use handy-talkies, which are similar to, but not the same as, walkie-talkies. They're also different from citizen's band radios. "Ham radio operators are different from citizen's band operators because we're federally licensed. It's against the law to operate a ham radio without a license," Marcum says. The battery-powered handy-talkies "can operate from anyplace. You can communicate with different parts of the country and all over the world. I've communicated with [people as far as Australia, New Zealand and Japan.]"

Marcum says he utilizes ham radios nearly every day. "You're driving down the freeway and an accident happens, so you call 911 or the California Highway Patrol. If there's a stranded motorist, you call it in and the highway patrol will respond."

The association meets monthly at 7 pm every fourth Monday at the Moreno Valley Unified School District office on Perris Boulevard. Newly-elected officers include Marcum, president; Jerry Lloyd, vice president; Glenn Sperry, secretary; Rick Littlefield, treasurer; Nancy Harrison, activities director, and Tony Rojas, member-at-large.

LARRY'S THOUGHTS TODAY



When I was honored with a MVARA Life Membership by the club over 20 years ago it made me feel old, as I was only in my 40's! When I joined the MVARA in around '85 or so hams were using Icom IC2AT handhelds which you tuned the frequency with thumbwheels on the top! They did not come with a pl tone capability so talented hams like Glen, KA6GMA could cut a rectangular hole in the back and wire in a dip switch to select a pl tone with. This was long before cell phones so us dedicated hams did not leave home without our h/t hung on our belt whenever we went to the store or anyplace. It paid off because we were always able to raise someone on the local repeater or use the autopatch to call in a car accident, brush fire or any other emergency quicker than anyone else.

HF was going strong as we were at the peak of solar activity and you could work around the world on 10 or 20 meters loaded up to a wet string of spaghetti. Well, not quite, but the world was open to us on a modest station.

Packet was really cool. We were able to get on 2 meter packet at a fast speed of 1200 baud, wow! Sadly, the internet came along and we stayed stuck at 1200 baud on 2 meters. The MVARA did have a packet bulletin board system where we could send each other messages like email is today, upload and download files of ham interest and read the latest bulletins from ARRL and other sources.

So many of us were in our 40's and 50's so finding help to raise an antenna was easy to find help for, I am sure that some of you remember those youthful days?

We had so much to choose from, so many modes and facets of this hobby to learn about and enjoy. I think about where we are today and know that although many of us have since passed on to be Silent Keys and activity on the bands is not what it was back then, we have so much to still learn and explore and enjoy today! The old rigs from back then still work and are completely usable alongside the new SDR (software defined radio) and so many other fancy new-fangled devices ha a. I am not really the old codger that I am making myself out to be because I sit here typing this on my iPad and will send it out via wifi. My new Kenwood TH 74A tri-band digital handheld is sitting right next to me tuned in on D-Star to a net with check-ins from all over the world. It is receiving and sending signals via UHF on my h/t to a hot spot in my living room through my wifi router. Who would have imagined that back then? Some question is this "real ham radio"? Well, it enables me to have QSO's with hams all over the world when conditions on hf are so bad that I cannot even hear WWV.

Also sitting in front of me is a hf rig and vhf/uhf rig that speaks to me all commands so that I can operate them even though I am blind. Then there is Echolink that Glen, KA6GMA demonstrated to me on his smart phone about 7 or 8 years ago in the dining room of Don WA6VWW & Beckie KC6EHW when we visited Moreno Valley. I have met hams on Echolink in other parts of the world who can no longer have antennas where they live. I would never have met and talked with these wonderful hams in other countries without Echolink.

What I am trying to say is that times change and advance and there are always new things coming along in technology that open new doors to us in this interesting and sometimes mysterious hobby of amateur radio.

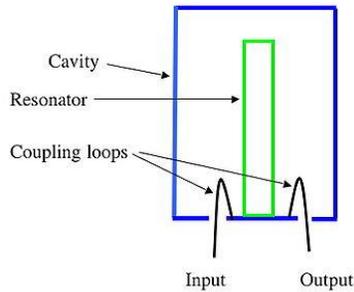
73 for now, time to call CQ on my vintage straight CW key which I still love. The sky is the limit with amateur radio!

Larry Marcum, K7GND formerly KA6GND
Florence, Oregon
K7gnd1@gmail.com

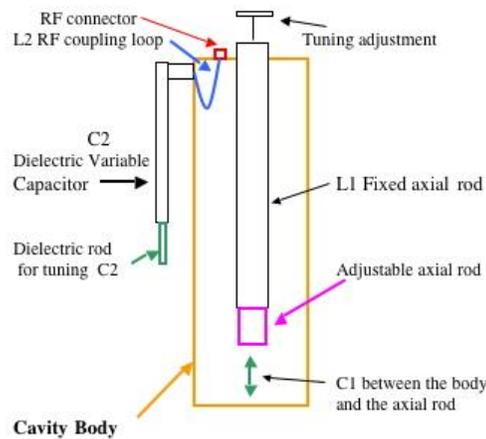
What is a cavity filter?

From Amateur-radio-wiki

Cavity filters are the basic circuitry behind a **Duplexer** and are sharply tuned resonant circuit that allow only certain frequencies to pass. Generically, filters of this kind are known as notch filters. Physically a cavity filter is a resonator inside a conducting "box" with coupling loops at the input and output, as follows:

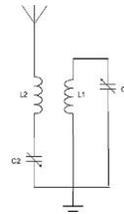


Cavities are usually constructed as cylinders, with an axial tuning capacitor



Electrical equivalent

In this diagram a tuned circuit is formed by L1 and C1 which are the cavity body and a "central" tuning capacitor, and a tunable series LC coupling circuit using L2 and C2.



What does a cavity filter do?

A cavity filter has two functions: to pass the desired frequency and to reject as much of the undesired frequencies as possible. Cavities are often grouped in series with each other to increase filter effectiveness by making the pass band "deeper" with respect to surrounding frequencies. This can be very useful when ham repeaters are situated very close to other spectrum users such as pager whose unwanted signals can interfere with the ham equipment. Cavity filters are a very effective way to create a "notch" at the repeater frequencies.

Why use a cavity when other tuned circuits can do the job?

Other tuned circuits can do the job but not as effectively as a cavity. The "**Q**" of a tuned circuit is a measure of how sharply it attenuates unwanted signals. Simple, component based tuned circuits do not have a high enough **Q** for repeater use, particularly in shared positions as described above

What is a duplexer?

A duplexer is a group of filters linked together so that the two antenna connections on a repeater can be linked to the same antenna, at different frequencies.