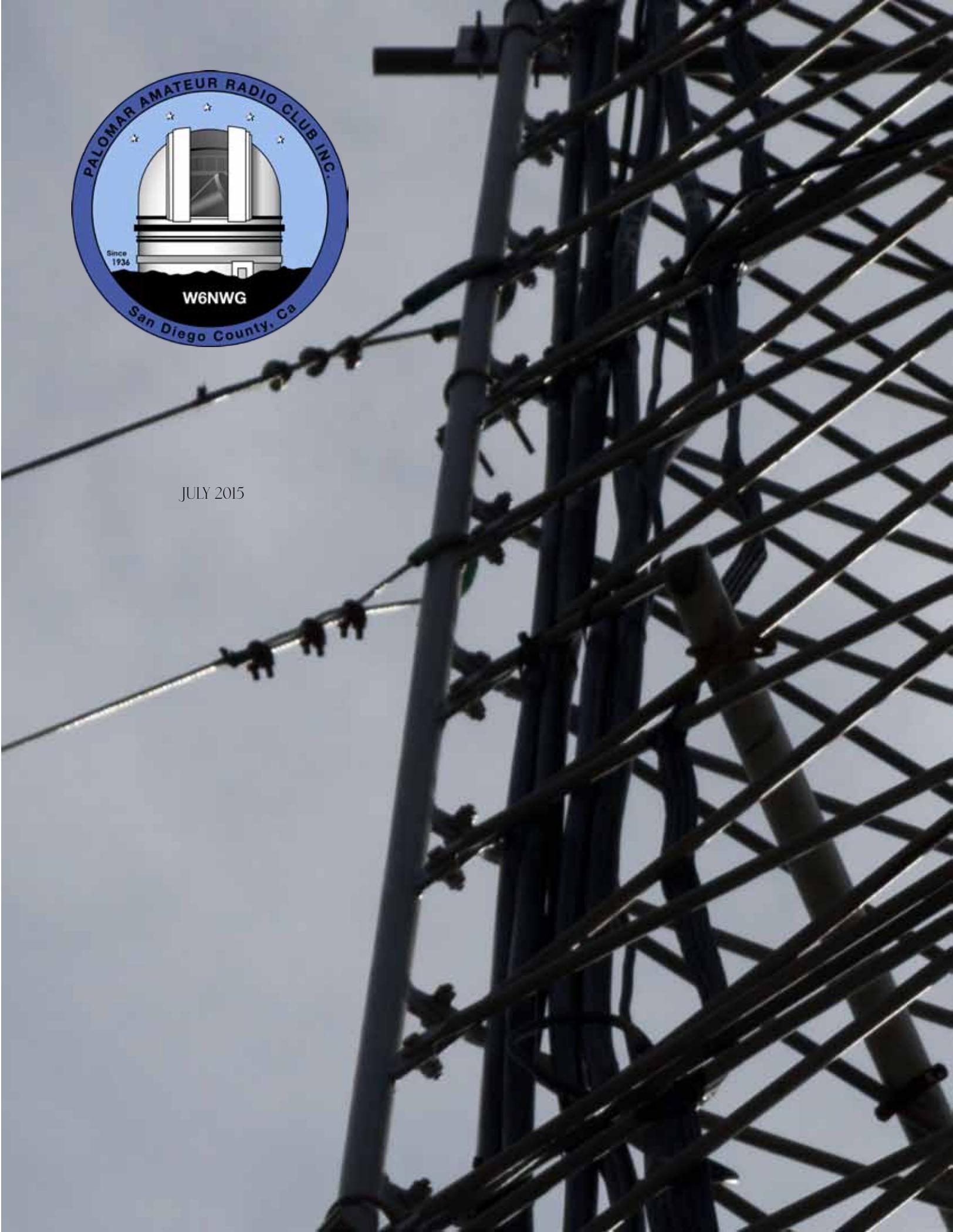




JULY 2015



# Save the Date

## Club Meeting 1 July 2015

Come hear about the rewards and challenges of 2m spectrum management!

## Board Meeting 8 July 2015

Palomar Amateur Radio Club board meeting at 7:00pm at W6GNI QTH.

## Club Events 3-4 October 2015

San Diego's first full two-day Maker Faire at Balboa Park. Amateur radio will be a big part!

## Advertisements are free for members

Have items that need to find a new home? Advertise here! Send your ads to [scope@palomararc.org](mailto:scope@palomararc.org)

Wanted: E. F. Johnson electronic T-R switch, working or not. Matt, 619-865-8497, [ae6hf@arrl.net](mailto:ae6hf@arrl.net).  
Matt AE6HF

Goodie Table Update For July!

WB6IQS will bring three 2-meter beam antennas (9 to 11 elements each) and several UHF antennas. There also will be bulk RG-58/U cable (no connectors), resistors / capacitors and antenna tuner parts. Contact [WB6IQS@att.net](mailto:WB6IQS@att.net) for any specific requests. John Kuivinen, WB6IQS

Amateur Radio will be a big part of the San Diego Maker Faire. This will be an amazing event full of all sorts of DIY techie goodness! It's the world's biggest show and tell.

If you are interested in volunteering for the Maker Faire through PARC, or volunteering directly, then contact: Michelle at [w5nyv@yahoo.com](mailto:w5nyv@yahoo.com)



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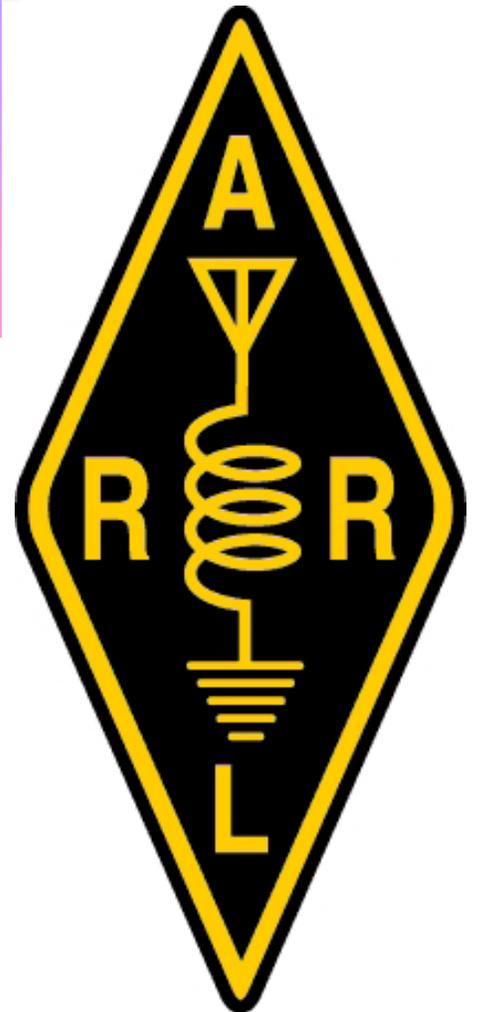
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Check out more  
photos starting page 7



# Presidential Address

As I write these comments, we just completed a FANTASTIC FD. But in order to meet our Scope deadline, I can't yet comment on the details of how things went, since it just happened. But I do know there were many Club members who made this a great success, and a chance to have fun. The club members can be thankful for the arduous job performed principally by KD6TUJ (Dennis), and KI6RXX (Gregg) in bird dogging the possibility of finding a FD site. That is never easy. Likewise, a thanks to the various band captains for taking the time to organize the band operation. More on FD results next month.

On the club's infrastructure work and maintenance, we've had several good work parties carrying out tasks on the mountain. Particular thanks to WB6IQS (John) and NI6H (Rich) for the detailed work they've performed on restoring the PARC packet repeater. If you are a Packet devotee, check the repeater on 146.700 MHz.

This month's program will be a presentation by the Two Meter Spectrum Management Association (TASMA). This is the ham radio volunteer association that coordinates use of our VHF/UHF frequencies, with an eye towards minimizing interference, particularly those that arise when repeaters may have overlapping coverage. In those cases, TASMA will endeavor to allocate different "channels" in the spectrum in order to eliminate the interference. If you wish to learn how this works, you may find it interesting to start by looking at the immense list of coordinated repeaters for California that is shown at <http://www.tasma.org/repeaters/>.

Again, thanks to all who participated in the PARC Field Day, and made it such a wonderful event. Lots of fun! Hope to see you at next year's FD which will take place June 24 - 26, 2016.

-Charlie NN3V

# Ham Radio Shouting at Random People

By Howard Groveman W6HDG

I always envy other hams that have kids who also became a ham. I have three sons who were more into active stuff like swimming, wakeboarding and motocrossing. In fact, one of my kids sent a dagger through my heart by once saying, "What is the point of ham radio? You just shout at random people!"

Our hobby is sometimes hard to get across to others.

Have you ever had a dinner party and for one reason or another got the opportunity to show off the ham shack to the uninitiated? I don't know about you, but I rarely have a good experience doing this. Maybe I'm just a poor ham ambassador, but my friends develop a courteous but blank stare and inevitably start asking questions like, "So what exactly do you say to them?"

My wife loves ham radio only because it makes me happy. I don't think she understands how I can enjoy spending hours on the air.

But rather than this turning into a Rodney Dangerfield joke (no respect), I have to defend our hobby.

First off, there are in fact many "ridiculous" hobbies, at least on the surface. I don't ridicule my friends who are into golfing, fishing, bird watching, or coin/stamp collecting. I don't ask golfers, "So what do you do after hitting the little ball in the hole?" Golfers will also claim that theirs is a physical sport. But how can it be a sport when you burn less than 100 calories in 18 holes if you use a cart? Heck, I can burn more than that cranking up a tower or feverishly sending CW in the WPX Contest. I think stamp or coin collectors get away with their activities because there is the possibility of financial gain – and that is always an easy one to get across to others. They don't get asked, "so you put them in a little book and then what do you do?"

[The editor would like to interject here that that's exactly what she asks stamp collectors. She would like to share that they don't appreciate this question very much, but the results are quite entertaining.]

The fact that we get passionate about radios, antennas, ragchewing, elmering, contesting and rare DX is in fact hard to explain. Others may not get it, but the knowledge, skills, and challenges of our hobby create a special thrill that is hard to put into words. All I know is that we deeply love our hobby. Fortunately we have the ham fraternity to understand our magnificent obsession.

# Club Financial Update

## Income/Expense by Category - MTD

6/1/2015 through 6/18/2015



## Income/Expense by Category - MTD

6/1/2015 through 6/18/2015

Category Description	6/1/2015- 6/18/2015
<b>INCOME</b>	
Donations	300.00
Dues	278.50
<b>TOTAL INCOME</b>	<b>578.50</b>
<b>EXPENSES</b>	
Rptr Electric	70.72
Rptr Phone	31.90
Scope Printing	179.82
<b>TOTAL EXPENSES</b>	<b>282.44</b>
<b>OVERALL TOTAL</b>	<b>296.06</b>

### Club Members ONLY!

PARC has a tube bank that includes many 6 & 12 volt receiving tubes (and some transmitting types) for use by club members to repair their own personal equipment. Not for commercial use or resale. If we have your requests, we will pre-check the tubes and deliver them to you at the next club meeting.

Contact John WB6IQS [WB6IQS@att.net](mailto:WB6IQS@att.net)

# Congratulations to the Team!

Congrats for spectacular finish in JIDX CW 2014 Contest to NX6T Ops N0DY, NB7V, W6JBR, N6KI!

We had top score in the WORLD outside of Japan and only 5 JA stations who have the advantage of working stns in their own country besides worldwide stns. This was best score we have ever done in JIDX CW! See more at <http://jidx.org/jidx2014cw-all.html>

Plaque will be mailed shortly.  
Dennis N6KI



If you think the choice of silver or black from the recent Yaesu FT1DR was the height of fashion, then you should check out these radios from... Creative Communications Technology Co., Ltd. Not exactly a familiar name to most hams!

you can choose from almost every color of the rainbow. Sadly, orange and purple are missing.

Peruse the whole line at <http://kdxcn.en.alibaba.com>



## MRHS Offers Radiotelegraph Exams!

The Maritime Radio Historical Society is now authorized to administer the examination for the commercial radiotelegraph license. Yes, the FCC still issues this ticket! When you take your exam with us you can visit to the KSM transmit and receive sites - and when you pass you can immediately exercise the privileges of your license by sitting the circuit at KSM. We'll even endorse your license with our special stamp certifying that you're a qualified commercial radiotelegraph operator.

We also offer exams for:

- General Radiotelephone Operator License (GROL)
- GMDSS Operator (full and restricted) Licenses
- GMDSS Maintainer License
- GMDSS Operator/Maintainer License
- Ship Radar Endorsement
- Marine Radio Operator Permit

We've set up a special Web page with all the information including dates, times, locations, costs and contact information.

If you don't already know about the Maritime Radio Historical Society, then you are in for a treat! Visit their home page at:

<http://www.radiomarine.org>

Go to this link for more information about these license exams:

<http://members.aceweb.com/royh/>

Where exactly is Point Reyes? It's near the Bay Area. it's a 71,000-acre park with a visitor center, hiking trails, expansive beaches and panoramic water views. Looking for a summer vacation? Here's the home page:

<http://www.nps.gov/pore/index.htm>

# May Meeting Photos from David Doan





# HAM RADIO OUTLET

H  
R  
O

Jerry Babin, N5MCJ  
(Manager)  
Joe Acevedo, N6SIX  
Ron Cole, N6OMW  
Pete Villevar, N3PV

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# Club HF Remote Station? Let's Install One!

There are at least three reasons for the club to get involved in the HF remote movement. The first one is technical. The challenge of making a quality remote installation is fun and rewarding. The project involves backhaul establishment, HF equipment selection, remote access protocol development, command channel identification and establishment, testing and tuning, documentation, and training, among other things.

Secondly, autopatch and casual repeater usage has declined due to the increase of cellular coverage. Exploring new services that can be offered from club equipment on the Palomar Mountain property is an important responsibility. A new broadband repeater has been installed, and fresh hardware for the voice repeaters is under active investigation. Adding an HF remote station would expand the services provided by the club. This is an exciting time to get involved with renovating equipment on the site.

Third, many members are negatively affected by CC&Rs and other limitations on putting up HF antennas on their San Diego properties. We live in an urbanized area where antennas may or may not be allowed. Plenty of us live in valleys or in places that are not good for radio. Having a remote station that members can reserve and use would go a long way towards making the hobby possible for people that live in places where radio is limited.

If you would be interested in helping explore a club remote HF station on Palomar Mountain, then please join up by writing me at [scope@palomararc.org](mailto:scope@palomararc.org) and I'll add you to the mailing list!

Mailing list archive located at <http://palomararc.org/pipermail/hfremote/>

This special interest group for HF remote will write a proposal for the Palomar Amateur Radio Club board of directors to vote on. If the vote is successful, then fundraising will begin immediately.

Current state: We think PARC needs to be 501c3 in order to get the required equipment, and we might need to use a base station in addition to Valley Center Wireless (ISP) to get audio up to the mountain. See page 11 for why 501c3 is important to capital-intensive projects like this one.

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# Why Should PARC Apply for 501(C)(3) Status?

by Robert Reichman

Today's Tax Code as enforced by the United States Internal Revenue Service is excessively complex and ever changing. Included in this code is the provision for a 501(c) organization that is a non-profit organization, which is tax-exempt. Many of the San Diego ham clubs have filed for and obtained 501(c)(3) status. Included in these ranks are: San Diego ARES, Coronado Emergency Radio Operators (CERO), San Diego Six Shooters, and Escondido Amateur Radio Society (EARS). Aside from the benefits of "tax-free" status for the club, they may receive charitable donations in the form of money, equipment, vehicles, or other property. These donations may be used by the club or sold to benefit the club. The benefit to the donor is a tax deductible credit to their annual income tax filing for the fair market value of their donation documented by a letter from the club treasurer.

At first glance the process seems onerous, but when systematically approached is quite straightforward and can be filed by a layperson without need for either legal or accountant consultation. This is a piece of cake for anyone who can pass an FCC exam.

The first step is to file Articles of Incorporation with the State Attorney General using the formal name of the Corporation and the purpose of the non-profit (i.e. public benefit, education, scientific purposes, etc.). Next the Board of Directors, Officers, and Bylaws are adopted into the Corporation structure. An EIN is obtained from the IRS, a Form CT-1 filed with the California Attorney General, Form SI-100 filed with the California Secretary of State, and finally the Form 1023 application for exempt status under Internal Revenue Code (IRC) Section 501(c)(3). Once Federal Tax exemption is obtained file for State exemption. The process is a stepwise function with data from each step applied to subsequent applications. The time frame for the entire process is nominally 3-6 months at a cost of less than \$1000. The largest portion of the cost is to file the Form 1023 which costs \$850, much of which may be refunded by IRS dependent upon the charitable income to the corporation for their first year.

Overall, it's good for the club conferring Tax Exempt Status and receiving donations, good for the donors allowing them to receive tax credits for their donations and mobilizing unused radio equipment which can be put to use by either the club or resold by the club, and good for San Diego allowing expansion of clubs with a public benefit to our entire community.

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## What Would 501(C)(3) Status Immediately Affect?

by Michelle W5NYV

Being able to accept donations would mean that capital-intensive projects would be more likely to proceed past the design stage. For example, installing an HF remote station for club use requires equipment that is relatively expensive. Being a 501(C)(3) would make seeking the donation of expensive gear a bit easier.

For every action there is an opposite and equal reaction. As several have pointed out along the way, becoming a 501(C)(3) does incur an additional accounting burden on the organization. This is something that we as a club would have to take care of every year. However, it's the opinion of the active members of the hfremote team that it's worth it in order to get the ideal set of equipment donated to the club.

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Scope Volume # 46, Issue # 11 (USPS #076530) is published monthly by the Palomar Amateur Radio Club 1651 Mesa Verde Drive, Vista, CA 92084.

POSTMASTER: Send address changes to SCOPE, P.O. Box 73, Vista, CA 92085. Periodicals postage paid at Vista, CA 92084 and at additional mailing offices. Dues are \$20 per year or \$35 per year for a family. Dues include a subscription to Scope.

You can join or renew your membership, find a repeater listing, find contact information for the board all on the club's web site <http://www.palomararc.org>

Editor: Michelle Thompson W5NYV

Submissions: [scope@palomararc.org](mailto:scope@palomararc.org)

Questions? Ideas? Comments? [W6NWG@amsat.org](mailto:W6NWG@amsat.org)

### Featured Program:

At 7:30pm on 1 July 2015, Palomar Amateur Radio Club will present a program about 2m spectrum management. We look forward to seeing you at the Carlsbad Safety Center, 2560 Orion Way, Carlsbad, CA. Arrive at 7:00 for socializing.

Sign up for the PARC Email Lists:

<http://www.palomararc.org/mailman/listinfo>