

W6OTX**W6ARA****PAARA NEWSLETTER****K6OTA****K6YQT**

VOLUME 66, NUMBER 11, November 2015

PAARAgraphs



The Official Newsletter of the

Palo Alto Amateur Radio Association, Inc.Celebrating 78 years as an *active* amateur radio club—*Since 1937*

APRS for All

It's easier than you think

Ed Lafargue, W6ELA

November 6, 7:00 PM

Upcoming Events

- Nov 6 PAARA General Meeting, 7:00 PM
- Dec 4 Cubberly Community Center, Room
- Jan 8 H-6, 400 Middlefield Rd, Palo Alto
- Nov 18 Board Meeting, 7:00 PM
- Dec 16 Everyone welcome! Round
- Jan 20 Table Pizza Parlor in Menlo Park



President's Corner

November 2015

As the year winds down, we are well into the fall contest season and getting ready for all of our year-end activities at PAARA. This includes our Dream To Reality Raffle in December. Pacificon was a great success again this year, as was the PAARA sponsored W1AW/6 Special Event station. Last, but not least, the PAARA/FARS FARS/PAARA Winter Banquet is getting closer.



This past weekend I spent some time playing around in the CQWW DX SSB contest. I say playing around because I wasn't seriously in the contest, but instead was just handing out a few points to those who were calling CQ. It's a win-win in that I get to have some fun operating, maybe working some fun DX, and the serious contest

participants get to put a few more in the log. My home station is very modest, with a lot of local RF noise, so I never expect to make a serious effort from there. I always look forward to these kinds of contests, though, as an opportunity to maybe work a new one. At the very least, I can have some fun making a few quick contacts. Band CONDX seemed so-so, nevertheless I worked a few DX countries and also worked a (the?) Yukon Territory contest station on 20 meters. There are several more contests coming up soon, including several state QSO parties, but there are big ones out there too. The ARRL Sweepstakes CW is the weekend after the PAARA meeting, and the SSB version is 11/21~11/23. And at the end of November is the CQWW DX CW contest. Why not join me in handing out a few points? If you submit your logs, so much the better.

The PAARA Dream To Reality Raffle is almost here! The December general meeting is always a special one, and this year is no exception. While we have been able to raffle off an Elecraft K3 for more years than any other club (I've confirmed that we hold the record), unfortunately the K3 is no longer available and the K3S doesn't quite fit

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Planning an Antenna Raising

de Rich Stiebel, W6APZ

About 25 years ago, I threw together a coat-hanger $\frac{1}{4}$ -wave ground-plane antenna for 2 meters to try to get my son interested in packet radio. We made one planned packet contact and he lost interest. Off to college he went, but I still had the antenna available, so that's what I used for many years when checking into the SPECS nets on 2 meters and on 440 MHz. I subsequently bought a Diamond X-50 dual-band antenna and planned to put it up over the steel arbor we have over our patio.

The project stayed on the back burner for years as other priorities took my attention. In the meanwhile, the $\frac{1}{4}$ -wave ground-plane antenna seemed to do most of what I needed. Then one day, that antenna rusted through, and I was off the air. Well, not quite. In the intervening years I had put up a GAP-Titan HF antenna. It was fed with 50 feet of RG-8U, which is fine for HF, but lossy at 144 & 440 MHz. I figured that the coax loss would help make up for the obvious mismatch between the feed line and the antenna at those frequencies, so I connected my HT to the feed line and Voila! I was back on the air. Never mind that I could not communicate across Palo Alto on 440, I was able to reach the SPECS repeater. This poor performance was the spur that revived my thoughts about the X-50.

I started planning how I was going to set up this antenna. My GAP vertical was only about 15 feet from the center of the arbor where I wanted to mount the X-50. Knowing that anything in the vicinity of an antenna could affect its radiation pattern, I decided to mount the X-50 on PVC pipe. I had several ten-foot sections of $1\frac{1}{2}$ "-diameter schedule-40 PVC pipe left over from another project, so knowing that PVC was virtually transparent to RF, I decided that I'd use PVC for the mast. A ten-foot section of this PVC pipe is pretty stiff – or so I thought.

Knowing that at VHF and UHF, height is extremely important to getting a signal out, I decided to use two 10-foot sections of PVC coupled

together to give me a 20-foot mast. Mounting this on the top of the arbor would put the bottom of the X-50 at 30 feet above the ground. Noting that SPECS has a 220-MHz repeater that I could only marginally access with my HT, and the fact that I had purchased an "American Legion" (now SVECS) 220-MHz J-Pole antenna sometime in the past, I decided to add the J-Pole at the junction of the two ten-foot PVC pipes. This would put the J-Pole 20 feet above the ground and present minimal interference to the X-50 antenna ten feet above it.

For similar reasons, I decided to use Antenna Rope, the $\frac{3}{16}$ " double-braided polyester sold by HRO as guy ropes to avoid metal guy wires causing interference to the HF antenna. After a few sketches on paper, I started to place the pieces of the soon-to-be mast on our patio. Over a period of several weeks I cut the PVC as needed, reinforced part of the mast to accept the X-50, and designed and built a mounting bracket for the J-Pole out of PVC pipe. I then started to glue the parts together, using the standard PVC cement. When I had the mast completed, I attached the antennas, ran the two coax cables through the mast, and finally had two sets of guy ropes (one at the ten-foot level and one at the top of the mast) cut to size and coiled up, ready to raise the antenna.

Placing our bathroom scale on the patio, I weighed myself. I then picked up the mast with antennas and reweighed myself. From this, I calculated that the mast, guys, and antennas weighed less than 20 pounds. This should be a snap to raise and place into position....or so I thought. I figured I'd need a minimum of 6 people to put the antenna mast in place: one person at each of the four corners to hold the guy ropes to keep the mast straight while raising, and two to pick up the mast and put it into the cup on top of the arbor.

Figuring that people had busy schedules, I invited about a dozen hams to help, reasoning that not everyone would be able to make it on the designated day & time. In fact, I did have several who said that they were otherwise occu-

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(Raising — Continued from page 2)

pied, and several who were not sure. On August 19th at 3:30 PM, eight hams assembled at my QTH to start the job. By the time we were in the process of actually raising the antenna, we had 14 hams participating. With this quantity of people, not everyone had a designated job. However, everyone participated by watching the action and alerting the people with the guy ropes when to let up on a particular rope and when to pull.

We had a few surprises during this operation. Twice we were within 2 feet of placing the bottom of the mast in the metal cup welded to the top of the arbor and just at that point, there was apparently a miscommunication to those holding the guy ropes and the 20-foot mast bent over to almost 90 degrees. I had no idea that schedule 40 PVC was that flexible, but apparently the weight of the X-50 and the twenty-foot lever arm was sufficient to allow the mast to bend. Fortunately it did not break, nor did it damage anything. On the third try, we were successful in erecting the mast assembly!

The Crew

Kudos to the crew that made this happen.



Looking at the attached picture, in the back row, from left to right, we see: George, KC6NYU; Andy, KI6SEP; Grant, KK6FMQ; Doug, KG6LWE; & Peter, WA2COM. Middle row: Gary, KI6HIG; Janie, KI6SER; Rick, K6RDM; Dan, W6ASD; and Andy, WB6CLS. Front row: Phil, W6PSO; Steve, AD6AB; Paul, AA6PZ; & Rich,

W6APZ. Photo courtesy of Alice, W6ANT.

The Antenna

The completed antenna is shown in the second attached photo. Note particularly the downward facing 90-degree bends where the coax comes out of the mast to connect to the antennas. This prevents rain from entering the mast. Not obvious in this picture are the water drain holes drilled in the bottom of the arm holding the 222-MHz J-Pole. W6APZ photo.

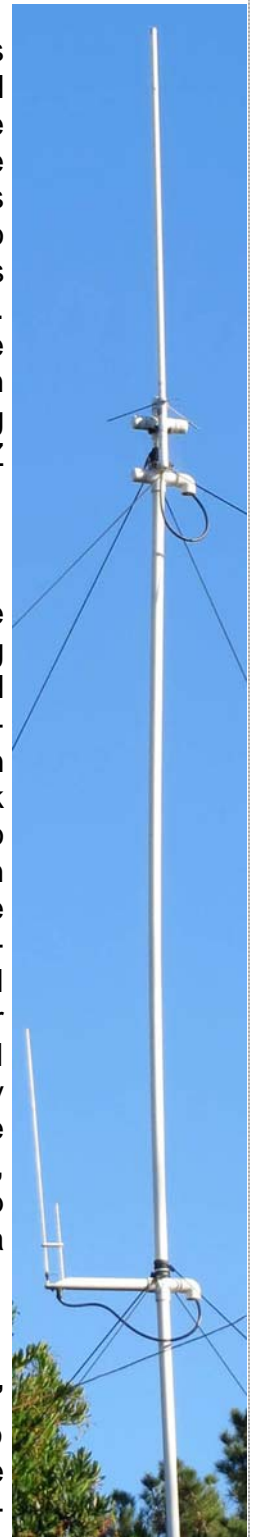
Results

For the last 14 months these antennas have been operating very well. My primary intended use has been for local emergency communications. On 440 MHz, I've been able to talk to HTs on the far side of Palo Alto. On 2-meters, I've been able to hear almost everyone on our Palo Alto simplex frequency and on 222 MHz, I get into the SPECS repeater with a solid signal, which I was not able to do with my HT even on 5 Watts. Once the guy ropes were secured, the antenna has stood up very well in winds for over a year.

Lessons Learned

- **Schedule 40 PVC (1 1/2" diameter) is marginal** to support the weight (during the process of raising the antenna) of the X-50 antenna mounted at one end. This PVC seems to be supporting the antenna just fine now that the antenna is up. For a twenty-foot height, a

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thicker-walled PVC should be used.

- To the actual weight of the mast and antenna assembly, one has to **add the downward component of the force generated by the guy ropes**. This significantly adds to the “dead weight” of the actual antenna and mast while raising the antennas. It took all our strength for two of us to lift the mast assembly into place. A third person would have been helpful.
- When raising an antenna, it is important to **take up or let out the guy ropes only a little at a time**. Miscommunication and letting too much rope out at a given time resulted in the near disasters. We should have had one “project manager” who would have directed the guy rope holders and coordinated the overall operation.
- Two sets of guy ropes attached to the arbor seemed sufficient in the planning stage. The arbor measures 12 feet x 22 feet. That meant that the guy ropes were intended to tie off only 6 feet off center in two dimensions and 11 feet off center in the other dimension. Only 6 feet off center is really too close for good stability. This was part of the problem in raising the antenna. **The farther away from center the guys attach, the more stability during raising the antenna and for the final installation.** We ended up using a roof chimney bracket as one tie point and a second tie down point on the roof that I had put in for a previous antenna. These two off-arbor tie down points added greatly to the final stability.
- **Make your guy ropes/wires longer than you think they need to be.** Since I had done that, we were able to use two tie points on the roof that I had not initially planned on using.
- Hams really do try to help each other in a time of need. We’ve got a great ham community in this area! I really appreciated all the support.

de Rich, W6APZ

(President — Continued from page 1)

into our budget. Of course, we still want to offer a great raffle to our membership, so the board and our Raffle Chair Jim, K6AK, decided to get another great Elecraft product for you. This time it’s a KX3, complete with the antenna tuner, the 2 meter option, and enough other goodies to make this a fun addition to your shack. I hope you will join us for this very special raffle and to help elect the new PAARA Leadership Team for 2016. Remember that to participate in the election, you have to be a member for 2015. If you want to renew, either go to paara.org, or see our Secretary Jim, K6SV. It’s also a good time to renew for 2016. We look forward to having you back.

I hope you all had a chance to get to Pacificon this year at the San Ramon Marriott. Once again it was the premier Ham Radio Conference, featuring two vendor areas, great talks, a wonderful banquet with PAARA member John, K6MM, as speaker, and of course Wouff Hong at midnight! The biggest deal, though, was the PAARA sponsored W1AW/6 station. There were thousands of contacts made at this amazing station, organized by PAARA Vice President Marty, W6NEV, with equipment, expertise, and hard work provided by the incomparable duo of Joanna, K6YL, and Rick, N6DQ. It was an incredible setup inspired by years of experience with CQP County Expeditions.

Speaking of CQP, did you get out there and work the contest where everyone is looking for California stations? Perhaps you even worked our teams up in Alpine county. I say teams plural because there were actually two stations: W6O and W6L. I was operating single-op as W6L and everyone else was at W6O. Both stations were part of the Gold Rush for the 50th Running of CQP. If you spelled out GOLDRUSH with 1x1 call suffixes, you can get a special challenge coin. See cqp.org for more info.

The Winter Banquet date has been set: 22 January 2016 at Michael’s At Shoreline. Save the date, and more information will be available soon. And look for the next PAARApLink in February.

CU AT PAARA IN NOV DE K6WX

Oct 21, 2015 Board Meeting Minutes

The October Board Meeting was held at the Menlo Park Round Table Pizza Parlor, commencing at 7:35 PM on October 21th, 2015. In attendance were Kristen McIntyre, K6WX (President), Marty Wayne, W6NEV (VP), Jim Thielemann, K6SV (Secretary/Membership), Darryl Presley, KI6LDM (Dir), Rob Riley, KI6INR (Dir), and non-Board Member, Gerry Tucker, N6NV (Property Manager), Doug Teter, KG6LWE (Field Day Coordinator). A quorum was present.

President's Report: Kristen, K6WX, informed the board that she met several hams at Pacificon that she'd met at other ham conventions that she's visited. "It is encouraging that going to other conventions and talking with the local hams has resulted in them visiting Pacificon and PAARA", she said. All members of PAARA should keep up the outreach wherever they travel as you never know when you will be rewarded.

At Pacificon, Kristen and Jim, K6SV, were told how great the continuity consistent leadership brings to PAARA with respect to that of some other clubs. The observation being; that having leadership consistency for a longer term, which is supported by its members, seems to result in a "stronger" club than a club where the leadership changes frequently.

Kristen also reported that she and the board are still looking for a member or members to represent PAARA at ASVARO board meetings and possibly sit on their board. Here is a great opportunity to represent PAARA at ASVARO and assist in the single largest money making event for the club. Contact Kristen or any board member if you're interested in this important opportunity.

Kristen indicated her reserve of stories is quite low and is in urgent need of more stories. Have you committed to a story but not submitted it (there are several out there), do you have any projects, Field Day experiences, technical articles, hints n kinks, DX, setting up your station or antenna, on the air experiences that might be of interest? Now is the time to put pen to paper or exorcise the demons out of your word processing program and get a story submitted to

Kristen. "Remember that it is 'home grown' stories that make PAARAgaphs great", she said.

Vice President's Report: Marty, W6NEV, reported the speaker for November is Ed Lafargue, W6ELA, who will present a talk entitled "APRS for all". Marty also reported that he has speakers for the rest of the year and connected with several potential speakers at Pacificon. He is still looking for speakers to fill out next year. If you have any ideas, let him know.

Marty also reported there aren't any field trips setup for next year yet and is looking for new ideas. Several were floated out during the board meeting but for the most part they were repeats of other adventures from several years ago.

Secretary's report: Jim, K6SV, reported that currently there are 170 PAARA members. The total of PayPal renewals and other sales now totals 158. As it's now October, it's time to avoid the renewal rush, and make it easier on me, by renewing your membership either through PayPal or at the next meeting. There are currently only 21 members with memberships good through 2016. He also reported that there were 5 new members joining at the October meeting and 1 rejoining member.

Jim also discussed the upcoming holidays and PIP's Holiday schedule. Due to Thanksgiving and Christmas holiday closer, the date to compile the November issue is Friday November 20th so it can go to press on Monday November 23rd. The Christmas compile date is Friday December 18th so it can go to press on Monday December 21st.

Treasurer's Report: Ron, W6AZ, wasn't at the meeting but, via email, reported the finances are in fine shape.

Darryl, KI6LDM, who ran the October meeting, reported that the October video of the presentation Riley Hollingsworth, K4ZDH, gave to the Forsyth Amateur Radio Club entitled *Amateur Enforcement "Very Much Alive"* was enjoyed by the meeting attendees. Kristen and the board thanked Darryl for running the meeting in Kristen's absence. Darryl also wished to thank Joel,

(Minutes — Continued from page 5)

KD6W, for providing gifts the visitors at the October PAARA meeting.

Under Old Business, Rebar, N6DB, emailed the board that he had a perspective party interested in the clubs PE-95 generator. The only “catch” is that we have to deliver it to Willits. The board discussed the offer and voted to sell the generator. Doug, KG6LWE, will arrange using his trailer to get it up to Willits.

Kristen, K6WX, announced that the December raffle prize is arranged for as discussed at the last board meeting. It’s time to start saving those pennies for raffle tickets. The grand prize this year is an Elecraft KX3-F radio, MH-3 hand mic, KXAT3 antenna tuner, KX3-2M-AT-G 2 meter option, SMA-BNC and SMA-RA adapters. The other prizes will be announced in the December issue of PAARAgaphs.

Jim, K6SV, reported that the Club Repeater shack was visited on Saturday October 10th by Eric, KJ6LAY and Jim, to finish install conduit for the power and network up to the shack. Romex was installed in the shack for outlet locations. Gerry, N6NV, also stopped by and finished installing the tarpaper roof. One ground rod was POUNDED into the rocky soil. They plan on visiting the location on Saturday the 24th to hopefully get the power finished.

Kristen indicated that Daniel Rahamim, KJ6SEE, is overseeing the election process again. Now is the time to consider running for a seat on the board of your club. You can contact Daniel at KJ6SEE@gmail.com or see him at the next meeting to throw your hat into the ring. You can also contact any board member to learn about the responsibilities of any position. Remember that you have until the closing of the November meeting to throw your hat into the ring. When the November meeting closes, nominations for the elections are closed.

Marty, W6NEV, reported that the special event station that he, Rick, N6DQ, and Joanna, K6YL, assembled and operated with the assistance of anyone who wished to operate W1AW/6 who attended Pacificon was a great success. He also thanked Bob Heil, K9EID, for providing the new HLS-PRO7 headsets for the special event sta-

tion. He wished to thank everyone involved! Look for his full report elsewhere in this issue.

Kristen, K6WX, mentioned the next PAARApLink. The general feeling of the board is to look at a date in February. She’ll work at setting the date.

Under new business, Kristen, K6WX, mentioned that she’ll be teaching a 2-3 day class to High School students on Ham radio. She thinks besides teaching them about radio that she may have them build a satellite antenna and work hams via satellite. This “adventure” is in the early planning stages.

Kristen also mentioned how much fun the CQP contest was. The team that went came back with memorable stories of antennas hung up in trees, snow, cold, bad band conditions but LOTS of fun.

The Board meeting was adjourned at 8:49 PM.

Jim Thielemann
 Secretary/membership
 K6SV

Rejoining:

Tom Walsh, K1TW, (Section Manager, East Mass.)

New Members

Hermon Segovia	working on license
Kristian McManus	working on license
Pieter Noordhuis	KK6VXV
David Bailey	N6DBI
Kelton Bailey	K6KEL

Election Candidates

President	Kristen McIntyre K6WX
Vice President	Marty Wayne W6NEV
Secretary	Jim Thielemann K6SV
Treasurer	Ron Chester W6AZ
2yr Board Member	Rob Riley KI6INR
1yr Board Member	Larry Rebarchik N6DB
1yr Board Member	Darryl Presley KI6LDM
Board Member	Walter McVeigh KK6GTU

List finalized at end of Nov meeting.



Raffle Prize Winners — Left to Right

- 2nd Prize Meg Bullock / KD6YDH / Two FRS Radios
- 6th Prize Joe McVeigh / AG6ZC / Key Chain Light
- 3rd Prize Joe Castellano / W6SNV / MFJ Clock
- 1st Prize Dox / K6DOX / Kenwood TM281A / 2m Mobile Transceiver
- 4th Prize Mike Wimble / KM6WP / Screwdriver Set
- 5th Prize Mike Gavin / W6WZ / Steel Rule
- 7th Prize Bob Korte / KD6KYT / Bungee Cords

November Raffle Prizes

- 1st Kenwood TM281A / 2m Mobile Transceiver
 - High Power 65W Output
 - Large Front Speaker
 - Vivid Amber LCD Display with 32-step brightness control
 - 200 Memory Channels, plus one call channel
- 2nd Daiwa CS-201a / Two Position Coax Switch
- 3rd World Atlas Map Book
- 4th ARRL Repeater Directory 2015-2016
- 5th FCC Part 97 Rules and Regulations
- 6th ARRL Minilog
- 7th PL259 Weather Proofing Material
- 8th Bongo Ties





Jim K6SV installing a light fixture in the Repeater Shack

Eric KI6LAY installing an outlet



Joel KD6W driving a ground rod

Palo Alto Amateur Radio Association, Inc.

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	thielem@pacbell.net	
Treasurer	Ron Chester, W6AZ	408-243 2221
	ron@taxhelp.com	

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	ki6inr@arrl.net	
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	n6db@arrl.net	
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	ki6ldm@arrl.net	

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Membership	Vic Black, AB6SO	650-366 0636
	ab6so@smrn.com	
Database	Jim Thielemann, K6SV	408-839-6815
	thielem@pacbell.net	
Chaplain.....	Rick Melrose K6RDM	408-341-9070
	k6rdm@arrl.net	
Public Affairs	<i>Position Vacant</i>	
Station Trustee W6OTX, K6YQT, W6ARA.....	Gerry Tucker, N6NV	
Station Trustee K6OTA.....	Ron Chester, W6AZ	
Property Manager	Gerry Tucker, N6NV	
Fund Raising Coordinator	Bob Korte, KD6KYT	408 396 4745
	bob@rgktechsales.com	
Badge Coordinator.....	Doug Teter, KG6LWE	650-367-6200
	dteter@wawi.com	
Historian Position.....	<i>Position Vacant</i>	
Raffle Coordinator.....	Jim Rice, K6AK	650-851-2274
Ticket Master	Marty Wayne, W6NEV	408-246-7531
Field Day Coordinator.....	Doug Teter, KG6LWE	650-367-6200
ASVARO Rep	Rolf Klibo, N6NFI	650-856-2748
	n6nfi@arrl.net	
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VE Exams

Redwood City Main Library, Community Conference Room, 4th Saturday 10:30 am each month and De Anza Park, Sunnyvale, 2nd Saturday 10:30 am each month except November and December. See website for details and exceptions: <http://amateur-radio.org> or Contact Al, WB6IMX@att.net

Electronics Flea Market

Sponsorship by A.S.V.A.R.O. — Association of Silicon Valley Amateur Radio Organizations

Second Saturday of month, March-October, 6am-2pm

Howard M. Krawetz, N6HM 650-856-9761

Contact: <http://www.electronicfleamarket.com/>

PAARA — Palo Alto Amateur Radio Association

Meets 1st Friday 7:00pm each month at Room H-6, Cubberley Community Center; Net 145.230 - PL 100Hz Mondays at 8:30. See our website at <http://www.paara.org> for more information or contact: Joel Wilhite KD6W, KD6W@ARRL.NET, 650-325-8239

FARS — Foothills Amateur Radio Society

Meets 4th Friday each month at 7:30pm

Contact: <http://www.fars.k6ya.org>

NCDXC — Northern California DX Club

Meets 3rd Thursday 7:30pm each month,

Repeater for member info 147.360, Thursday 8:00PM

Contact: <http://ncdxc.org> or Mike Gavin W6WZ, (650) 851 8699

QCWA Chapter 11

Northern California Quarter Century Wireless Association

Meets third Wednesday monthly at Harry's Hofbrau in Redwood City @ 11:30 AM.

Guests are welcome. Saturday morning net on 146.850 MHz, PL 114.8

50 MHz & Up Group

Meets 1st Thursday each month at 7pm in the Texas Instruments Building E conference room in Santa Clara.

Contact: <http://50MhzandUp.org>

SPECS

Southern Peninsula Emergency Communication System

Meets each Monday 8:00pm on Net 145.27, 440.80 MHz

Contact: <http://specsnet.org> or Tom Cascone, KF6LWZ, 650-688-0441

SCARES

South County Amateur Radio Emergency Service

Meets 3rd Thursday 7:30pm each month, Belmont EOC, Belmont City Hall, One Twin Pines Lane, Belmont CA 94002. Net is on 146.445 [PL 114.8] & 444.50 (PL-100) 7:30 Monday evenings. Contact: President Gary D. Aden, K6GDA 650-743-1265 (D), 650- 595-5590 (N)

Web: <http://k6mpn.org> E-mail: pres@k6mpn.org

SCCARA

Santa Clara County Amateur Radio Association

Operates W6UU & W6UU/R, repeater 146.985-pl

Nets: 2m, 7:30pm Mon; 70cm, 442.425+ (pl 107.2) Thur.

Meets 2nd Mon each month @ 7:30 PM.

Contact: <http://www.qsl.net/sccara> or Clark Murphy KE6KXO 408-262-9334

ARRL/VEC license testing contact 408-507-4698

SVECS — Silicon Valley Emergency Communications

Operates AA6BT repeater (146.115 MHz+)

contact: <http://www.svecs.net> or Lou Stierer WA6QYS 408 241 7999

TEARS — The Elmer Amateur Radio Society

Dedicated to operational training, knowledge building & FCC exam testing.

KV6R repeater under construction.

Contact: AA6T@ARRL.NET

Most members are Extra Class or VE's. See QRZ dot com/kv6r for class info

WVARA — West Valley Amateur Radio Association

W6PIY six-meter repeater on 52.58MHz. Normally, six-meters is linked with 147 and 223, while 441 and 1286 repeaters are linked.

VHF: 52.58 (-500) 151.4 ctcss UHF:

147.39 (+600) 151.4 ctcss 441.35 (+5.0) 88.5 ctcss

223.96 (+1.6) 156.7 ctcss 1286.20 (-12m) 100.0 ctcss

Meetings are 3rd Wednesday of every month.

Contact: <http://wvara.org>, Bill Ashby N6FFC, 408-267-3118, N6FFC@Juno.com, or

N6FFC@ARRL.NET

American Red Cross,

Santa Clara Valley Chapter

Contact: <http://santaclaravalley.redcross.org> or Scott Hensley KB6UOO, (408) 967 7924

shensley@Novell.com

(Please send changes to PAARAgaphs editor)



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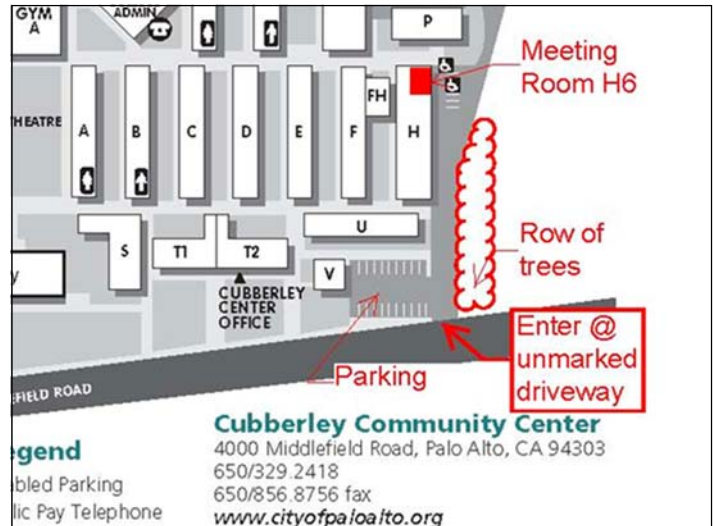
If you would like to
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PAARA Weekly Radio Net

Info and Swap Session
 every Monday evening at 8:30pm
 on the N6NFI 145.230 MHz repeater

<u>Week</u>	<u>Control Operator</u>
1 st	Joel KD6W
2 nd	Doug - KG6LWE
3 rd	Jack - N1VSL
4 th	Marty - W6NEV
5 th	Rob KC6TYD

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 P.O. Box 911, Menlo Park
 California 94026-0911**

Club meetings are on the first Friday of each month,
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Radio NET & Swap Session every Monday evening, at
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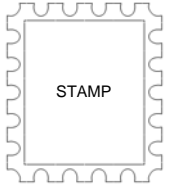
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PAARAgaphs — November 2015

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