

# PAARAgraphs



The Official Newsletter of the

**Palo Alto Amateur Radio Association, Inc.**

Celebrating 79 years as an *active* amateur radio club—Since 1937

<http://www.paara.org/>



## Introducing the PAARA Repeater W6OTX

Joel Wilhite, KD6W

At long last, the PAARA Repeater is FINALLY starting operation this month and with it, there will be many questions. This presentation will cover much of the details about the system, how it came about and how it came to be. The repeater we built is much like many other machines in the Bay Area but this one belongs to PAARA and is currently an all-digital machine with some amazing capabilities.

And so in celebration of PAARAs first repeater, we are announcing the current level of operation and some of the future plans. And just in time for Field Day 2016, we will finally have our very own machine for managing operations at the FD site. This talk will also include a small tutorial on DMR radio operation, what type radios will work with this systems; what to look for and where to get them. We will also have a guest speaker to meet with us to talk briefly about the NORCAL DMR group which PAARA will be a member of and how the link system works and it's current capabilities. We will also have computers for programming most of the DMR radios available on the market today, set up at the meeting and future meetings so you can bring your new radios to the meeting and get it programmed for free.

## Upcoming Events

- June 3 PAARA General Meeting, 7:00 PM
- July 8 Cubberly Community Center, Room
- Aug 5 H-6, 400 Middlefield Rd, Palo Alto
- June 15 Board Meeting, 7:00 PM
- July 20 Everyone welcome!
- Aug 17 Location TBD



## President's Corner

June 2016

It's June already and that means just one thing: ARRL Field Day. Yes, it's that time of the year again, and PAARA will be there at Bedwell Bayfront Park on June 24-26 to set up our amazing station once again. This past month I had a chance to talk to the new ARRL CEO on the phone. I also did a bit of outreach to the Conejo Valley Amateur Radio Club in Thousand Oaks. Then there was the Maker Faire too!



The big PAARA effort at Field Day is almost upon us. At this point in time we've had several organizational meetings, and Doug, KG6LWE, has had our first Antenna Party and the second one is being scheduled now. It's almost time for our traditional Network Day, where we connect all of the radios, computers, keyers, and network gear together to see if everything will play together nicely. We've found over the

*(President — Continued on page 6)*

**CQ CQ CQ**  
**Whiskey One Alpha Whiskey Stroke 6**  
**W1AW/6**  
**Special event station Pacificon calling**  
**CQ CQ CQ**

That was my call sequence Friday evening while working the PAARA sponsored and supplied station at Pacificon 2015. Now here is my story of how this came to be.

I had decided to go up to Pacificon in San Ramon on Friday. I live in Gilroy south of San Jose and did not want to be up before dawn to get to the event Saturday morning. So I drove up on Friday afternoon. After I checked into the hotel, I then went to see what was happening. I found the Pacificon desk, checked in and got my badge and other papers. I had chosen not to attend the antenna seminar. However the vendor rooms were open. As there was a very small crowd; I was able to spend time not only browsing the booths, but also talking with the vendors themselves. I made some purchases and went out to the car to put them away. Next I went to check out the radio station our PAARA radio club was providing.

I found the station setup under a canopy on the patio next to the hotel. I talked with Rick N6DQ about the setup there. He invited me to work a station as there was only one other operator there at that time. Even though it was nearly 6 PM and I was thinking of supper; I sat down and thought I would work the station for an hour or so. Rick set me up on 80 meter sideband. He tweaked the tuner for my operating frequency. And I began to call CQ. It took a bit to familiarize myself with the setup. But it was basic the field day station I had worked before; Icom transceiver, Hy-Toko amp and a

big tuner, also a laptop computer with the logging program running.

CQ CQ CQ W1AW/6 calling. I made several quick contacts. After a bit, Rick walked over and said to me “Doyle... this is not a contest, you can talk with these people”. So I switched to a more normal chatty operating mode. I made a point to not only get a call sign from my contact, but to also get a signal report and a name as that was the exchange for confirming the contact with the ARRL special event station as we were running under their call W1AW. Much of my conversations were the usual, about radios, antennas, weather, location, and so forth.

It was also my first time operating on 80 meters. At my station I operate on 40 meters, with 20 meters and 15 meters being my favorites. 80 meters was different.



Fig 1. — W1AW/6 at Pacificon 2015

Most contacts were relatively local, the bay area and the central valley. But there were some distant contacts as well. San Diego for several, a few in Seattle and Colorado and one in Texas. I took a supper break about 8:30 PM and returned to work the band until just after 11 PM. I had a good time.

I also had several memorable contacts. One was with an operator in British Columbia. He wanted to make sure I knew he was located as far north in BC as one could be and not be in Alaska. I had several contacts with people who did not realize Pacificon was happening. A couple of those operators said they would make the trip on Saturday. One amusing contact was with a fellow in the central valley. He said “Pacificon??? That means it is October already.... I better take the kids out to get pumpkins.” One time I hear a very weak call just above the noise level. I went back to him.

(W1AW/6 — Continued from page 2)

He returned with a now very strong signal. He told me he had his transmitter turned down to 1 watt and as he was doing some testing and neglected to turn up the power. He was amazed I had heard him. Yup... the Icom has a good receiver. Several contacts asked about the call I was using W1AW/6. One fellow even asked if I was for real! YES... was my reply, this is a special event station operating under the ARRL call for the 50<sup>th</sup> anniversary. Late that evening I had a older operator return my CQ call. He told me he had been waiting to get a turn talking with me. He was on a ranch in south central Texas. I told him I had grown up in Texas, but he declined to get more specific as to his location. As our conversation concluded he commented he need to be off to bed as he had to be out on the tractor at day break. I realized it was after 11 PM; that would be after 1 AM for him.

As it was getting late I declared the frequency clear and made my last sign off.

Yes it was well after 11 PM and I need to be off to my room for a nights sleep.

Tomorrow was Pacificon!

On Saturday I checked by the station several times. Each time it was a busy place with multiple operators making contacts and lots of people chatting.

I had a great time there at Pacificon.

A big "Thank You" to Rick N6DQ, Joanna K6YL, Marty W6NEV, and all the others who made the event station a reality.

CQ CQ CQ Whiskey One Alpha Whiskey Stroke 6 W1AW/6 Special event station Pacificon calling CQ CQ CQ...

Doyle Kisler KG6YUN

## The PAARA Repeater

**Joel Wilhite – KD6W**

Nobody was more surprised than me when Howard Califf (K6HOC – SK) wheeled in a stack of new ICOM boxes on a hand truck to the PAARA general meeting one night, donating an entire stack of D-Star repeater modules to the club. It was all his fault. And so began the very long story of how it all started. But let us fast forward to today and we are now moving away from D-Star for 2M and 70cm operation and launching our new high level site with DMR. There is a HUGE back story to this which I will get around to telling someday so you can tell your grandchildren this nearly unbelievable story of how it all started with the kind and generous gift from our departed friend from Ham Radio Outlet.

The system is nearly finished for all but a handful of punch list items which are being cleaned up as I write this. The repeater system is now partially operational at its new home up 650 feet above sea level; the new site has a commanding view of the entire West Bay all the way up into parts of Marin County and into parts of Gilroy. The advantage of the new site is the shielding we get from the mountain behind us in the direction of Beale AFB and so we can safely run our 440 machine without concern of interference with PAVE PAWS.

For those who are knowledgeable about how machines are coordinated in Northern California, observers would have noticed we let our coordinations lapse and this was because we were under construction before they expired. I let NARCC know our intentions to move the repeater to a whole new location and so they agreed it was better to drop the current coordination and simply update the coordinations with the new information once the work was completed. We have resubmitted the coordinations, including our previous 2 meter machine which some still consider controversial but is now becoming more accepted. The digital machines above and below us on the band have all been running at those pairs for over a year now and has not met any major resistance. It seems we can coexist without thermo-nuclear warfare.

(Repeater — Continued on page 4)

*(Repeater — Continued from page 3)*

### **The Machines – W6OTX**

|                               |  |
|-------------------------------|--|
| 144 – 144.9625 up 2.5 MHz     | DMR—NOR CAL<br>Brandmeister<br>Network |
| 440 – 444.475 up 5 MHz        | DMR                                    |
| 1.2G – 1284.15<br>down 12MHz  | D-Star Voice                           |
| 1.2G – 1249.15<br>half duplex | D-Star Data                            |

We are not ready to launch the 900 MHz machine just yet as we are anxious to get our new location lit off and back into coordination as a digital site and will circle back around to get the 900 equipment installed later. We also are shifting our DMR affiliation from the C-Bridge gateway community to the BrandMeister Gateway to stay aligned with the NOR CAL DMR Group. For real-time network status updates please visit:

<http://dashboard.brandmeister.us/>

### **May 18, 2016 Board Meeting Minutes**

The meeting was held at the home of Marty Wayne, W6NEV, commencing at 7:28 PM on May 18th, 2016. In attendance were Marty Wayne, W6NEV (VP), Jim Thielemann, K6SV (Secretary/Membership), Ron Chester, W6AZ (Treasurer) [via videoconference], Darryl Presley, KI6LDM (Dir), Larry Rebarchik, N6DB (Dir), and non-Board Member Joel Wilhite, KD6W (Technical Coordinator). A quorum was present.

NOTE: at this moment the next board meeting location is TBD. If you're interested in attending the next meeting, contact a board member a few days before June 15th to confirm the location.

Though Kristen (K6WX) wasn't present, she indicated via email that her reserve of stories is doing OK but as always on the lookout for more stories. If you have committed to a story but not submitted it (there are several people

out there fitting this category) please put pen to paper or fingers on the keyboard and let your creative juices flow! Do you have any projects, Field Day experiences, technical articles, hints n kinks, DX contacts, or experiences setting up your station or antenna, on the air experiences that might be of interest? If you have not previously drafted that story or have a new story, now is the time to get a byline of your own in PAARAgaphs and get that story submitted to Kristen for publication. "Remember it is 'home grown' stories that make PAARAgaphs great", she said

Vice President's Report: Marty, W6NEV, announced that Joel, KD6W, will be giving a talk about the new PAARA repeater and DMR. Marty also announced having lined up speakers through the end of the year. He's now working at finding speakers for next year. If you know of someone who would be of interest to the group, let Marty know.

Secretary's report: Jim, K6SV, reported that there are currently 178 PAARA members. Last year at this time there were only 155 members! What a wonderful increase to the membership. He also reported that there were 3 new members joining in May. He hopes to update the PAARA roster on the web site this month.

Treasurer's Report: Ron, W6AZ, provided the board with fanatical reports on the status of PAARA. Additionally a report comparing 2104 to 2015 was reviewed. A detailed discussion on various aspects of the reports ensued. There was additional discussion on areas of increased expense as well as areas of reduced expenses. The long and short of it is the club is in a fine financial condition.

Ron also noted that there still aren't any proceeds from the Flea Market this year. It is hoped that this condition will change in the upcoming months as PAARA is hosting the July Flea Market.

Under Old Business, Marty, W6NEV, mentioned Field Day T-shirt sales have closed and

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the order for 28 shirts has been placed. He anticipates having the shirts for pickup at the June meeting. Should you not be at the June meeting, he'll have the shirts at the Field Day site.

Joel, KD6W, reported that he and Jim, K6SV, moved the repeater equipment into the shack and connected the feed lines to the antennas. There are a number of small items that must be completed and tests conducted before the repeater can go live but it's getting real close to being on the air!

Jim, K6SV, mentioned that at the last board meeting there was a discussion regarding the acquisition of 6 laptop computers for use at field day and other club sponsored events requiring computers either in standalone use or when connected to radios. As there wasn't a quorum at the last board meeting, an email vote was conducted as the decision couldn't wait until the next board meeting. The email vote passed and the computers along with USB to RS232 interfaces have been purchased. The board is looking for a club member to oversee this asset so the computers are ready for use when needed and their location can be kept track of. If interested, contact a board member.

Marty, W6NEV reported that plans for Field Day are progressing with most everything having a volunteer to cover. He's still looking for volunteers for setup, operation, and teardown. The antenna work party dates were announced as being May 21st and May 28th. See Doug, KG6LWE, or Marty if you can help in any way.

Marty also mentioned that Bob Korte, KD6KYT, the Field Day extra point's coordinator, emailed him about the new social media bonus point's category which requires having a presence on one of the social media sites in order to earn the 100 bonus points. As time is of the essence to implement a PAARA on line social media presence, there was a discussion on which site to create a presence on and who

in the club is best suited to make this happen quickly. If you are that person, please contact Bob immediately to get the ball rolling.

Ron, W6AZ, once again mentioned the inventory of PAARA "stuff" which is located at various members QTH's. As no one really has a handle on exactly what "stuff" there is, it was agreed that an inventory should be conducted to determine what the equipment is, its location and condition. Once the "stuff" is identified, it will be easier to manage and make decisions on what, if anything, should be done with it. This process will take a bit of time to complete and is in need of a champion to complete the task. If interested please let a board member know.

Under new business, Joel, KD6W, brought up the need for a dedicated computer at the new repeater shack. This computer can be the same as the field day computers but it's needed at the shack at all times for a number of reasons including positive rig control. A vote was taken and the acquisition of one more computer matching the field day computers was approved.

Kristen, K6WX, reminded (via email) the board that July is PAARA's month for hosting the Flea Market. As it's directly after Field Day, it will be more challenging than usual. Remember that this is THE major money making event for PAARA so lots of volunteers are needed. See or contact Kristen to volunteer your services.

The Board meeting was adjourned at 9:01 PM.

Jim Thielemann  
Secretary/membership  
K6SV

**Please welcome to PAARA New members:**

|                 |        |
|-----------------|--------|
| Dr. Leo Barnard | AG6XQ, |
| Michael Wong    | K2MAW, |
| William Meng    | N/C.   |

*(President — Continued from page 1)*

years that this leads to a smooth setup on the actual day so that we can begin operating right at 11 AM without a hitch. The antennas also are marked for quick assembly, so that the set-up crew can minimize effort and misconfigurations. This year we will be operating 4A, as in prior years, with the stations separated by both band and mode. SSB-A will be on 20m and 80m, CW-A 15m and 40m. SSB-B will be on 15m and 40m, CW-B on 20m and 80m. And GOTA will be on 20m, 15m, and 10m as appropriate. If you want to operate one of these stations, please contact the Station Captains: CW - KG6O and K6WX, SSB - N6DB and W6NEV, GOTA - N6ETC. In particular, we need participants for the GOTA, or Get On The Air station. It's not so much that we get extra points for that activity, but that we have a chance to introduce new people to our hobby, and particularly to the magic of the HF bands. If you know of anyone, please contact any of the Captains, or anyone on the PAARA Leadership Team.

About 2 weeks ago, my phone rang with an unfamiliar number. I usually screen my calls, so I didn't answer immediately. It turned out to be someone from ARRL HQ. I was thinking, why are they calling me? Calling back, I spoke to someone named Tom who said that another person from HQ was at my talk in Las Vegas, and he reported that it was an enjoyable experience. The caller talked about how important Amateur Radio outreach is and how with new leadership at ARRL HQ, there would be many opportunities to bring the League up to speed in many ways with modern technology. I thought that was great, and discussed my own ideas for how that might unfold, as well as how important Amateur Radio and modern technology are here in Silicon Valley. We also talked about STEM outreach, and how to do that. It was a great conversation. After I hung up the phone, the callsign that he gave me tickled a memory, and that's when I realized it was Tom, NY2RF, our new ARRL CEO. I loved how he didn't start with the title, but just spoke about what mattered. After this conversation, I'm really excited by what the League can become in the future.

In my continuing outreach to clubs and ham-fests throughout the state, I ended up in Thousand Oaks at the Conejo Valley Amateur Radio Association last week. I gave a talk to the membership. We had a great turnout, and it was a wonderful chance to meet new hams and spread the good word about how Ground Is A Myth :). I was accompanied at the talk by my oldest friend from college George, KF6UBV, who lives nearby in Camarillo. That made it very special.

If you missed the Maker Faire, you missed out! It was great to see all of the creativity there, and to participate in the Amateur Radio testing booth organized by Mike, NE6RD. Many new hams were licensed over the course of 3 days. A total of 35 people were tested. There were other ham radio booths, so we had a great presence at the Maker Faire. I'm already looking forward to next year.

That's it for now. I hope to see you all the the June meeting. 73 ES CU AT FD BAYFRONT PARK MENLO PARK DE K6WX

### From the PAARAvault

This month Gerry will be bringing a Kenwood TS-520SE to the meeting for sale. This tube hybrid radio from the mid '70's was the pinnacle of the Kenwood hybrid line.



It operates at 10-160 m in 8 bands (no WARC bands) 1.8-2.0 MHz, 3.5-4.0 MHz 7.0-7.3 MHz, 14.0-14.35 MHz, 21.0-21.45 MHz, 28.0-28.5 MHz, 28.5-29.1 MHz, 29.1-29.7 MHz, + 15.0 MHz WWV receive only. RF output power: SSB: ~100 W PEP (200 W PEP input), CW: ~100 W DC (160 W DC input). There are lots of reviews of the radio on the web such as: <http://www.eham.net/reviews/detail/5880>

Gerry will entertain offers at the beginning of the meeting and conclude at the end of the meeting.

## June Raffle Prizes

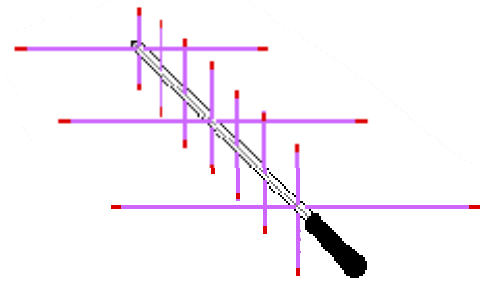
### 1<sup>st</sup> Kenwood TM281A / 2m Mobile Transceiver

- High Power 65W Output
- Large Front Speaker
- Vivid Amber LCD Display with 32-step brightness control
- 200 Memory Channels, plus one call channel



### 2<sup>nd</sup> Arrow 2m Yagi Antenna

- 3 Element VHF / 7 Element UHF / Max Gain



### 3<sup>rd</sup> Daiwa CS-201a / Two Position Coax Switch



### 4<sup>th</sup> ARRL Pocket Repeater Directory

### 5<sup>th</sup> DXCC List

### 6<sup>th</sup> Mini Log

### 7<sup>th</sup> Insulators



## **PAARA 5/6/16 Raffle Prize Winners**

Left to Right

- 5th Prize** Leo, AG6XQ — World Atlas Book
- 4th Prize** Rob, KK6YRV — PL to BNC Cable
- 2nd Prize** Joe, AG6ZC — Two Com Speakers
- 1st Prize** Tanya, KI6TAR — Kenwood TM-281A / 2m Mobile Transceiver
- 6th Prize** Tanya, KI6TAR — ARRL Pocket Repeater Directory
- 8th Prize** Tanya, KI6TAR — Bongo Ties
- 7th Prize** Darryl, KI6LDM — Electric Radio Book
- 3rd Prize** Frank, AF0XX — Battery Tender Junior



## Palo Alto Amateur Radio Association, Inc.

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### Officers

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|                         | n6db@arrl.net          |                  |
| Director ('16).....     | Darryl Presley, KI6LDM | 650 255-2454     |
|                         | ki6ldm@arrl.net        |                  |

### Appointed Positions

|   |                        |                  |
|---|------------------------|------------------|
| Membership .....                        | Vic Black, AB6SO       | 650-366 0636     |
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| 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@wvci.com        |                  |
| Historian Position.....                 | <i>Position Vacant</i> |                  |
| Raffle Coordinator .....                | Jim Rice, K6AK         | 650-851-2274     |
| Field Day Coordinator....               | Doug Teter, KG6LWE     | 650-367-6200     |
| ASVARO Rep .....                        | Clark Martin, KK6ISP   |                  |
|   | kk6isp@comcast.net     |                  |
| Webmaster .....                         | John Miller K6MM       |                  |
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| Technical Coordinator ...               | Joel Wilhite. KD6W     | 408-839-5948     |
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| Photographer.....     | <i>Position Vacant</i> |                       |

## 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](mailto: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 1<sup>st</sup> 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](mailto:KD6W@ARRL.NET), 650-325-8239

## FARS — Foothills Amateur Radio Society

Meets 4<sup>th</sup> Friday each month at 7:30pm  
 Contact: <http://www.fars.k6va.org>

## NCDXC — Northern California DX Club

Meets 3<sup>rd</sup> 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 1<sup>st</sup> 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 3<sup>rd</sup> 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](mailto: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 2<sup>nd</sup> 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](mailto: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 3<sup>rd</sup> Wednesday of every month.  
 Contact: <http://wvara.org>, Bill Ashby N6FFC, 408-267-3118, [N6FFC@Juno.com](mailto:N6FFC@Juno.com), or [N6FFC@ARRL.NET](mailto:N6FFC@ARRL.NET)

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Info and Swap Session  
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 on the N6NFI 145.230 MHz repeater

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

If you're interested in trying out at Net Control,  
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**Palo Alto Amateur Radio Association  
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 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  
 8:30pm, on the 145.230 –600 MHz repeater, PL 100Hz.

Membership in PAARA is \$20.00 per calendar year,  
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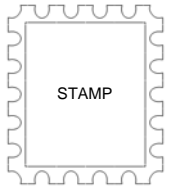
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