

# PAARAgraphs



The Official Newsletter of the

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

Celebrating 80 years as an *active* amateur radio club—Since 1937

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



**Our Scheduled Speaker, Ron Sheffield, has been injured and will undergo surgery the day before our meeting.**

**We have been pursuing other speakers but as of our publishing date no decision has been made. Check the web site for additional information.**

## Upcoming Events

Nov 3	PAARA General Meeting, 7:00 PM
Dec 1	Cubberly Community Center, Room
Jan 5	H-6, 400 Middlefield Rd, Palo Alto
Nov 15	Board Meeting, 7:00 PM
Dec 20	Everyone welcome!
Jan 17	Location: Marty, W6NEV, QTH



## President's Corner

November 2017

Pacificon was an amazing experience this year. I hope you were able to be there, but if not, I'll tell you how it was for me. Band conditions have been less than great, but there was still DX to be had at the special event station. Have you tried FT8? Maybe that's the answer. It was for us. And we have Leadership Team elections coming up very soon.



As I write this, Pacificon is recently in the can for another year and I'm still processing all that happened. My experience started on Friday with a trip up in the afternoon to both check on the W1AW/6 special event station, and to meet someone from the Silicon Valley Japanese Ham Club. Getting out of the house proved to be problematic, though, so I didn't arrive until 2pm. By the time I got there, Christopher, AI6KG, had the computer-to-rig interfaces well in hand, so

that I was essentially out of a job! That's exactly what I like to see. Thank you Christopher. I had an appointment to meet Masa, JR1AQN, at the station to set up FT8. I got a text and escorted him to set things up. We had to poke around a bit to get the SignaLink USB working that he had had donated for use with the station. We didn't have rig control working, so we ended up doing it the simple way - VOX. With a few level adjustments and tweaking of the VOX settings, we were on the air. We had an almost immediate pileup on 15 meters from stations across the US. I guess W1AW is a bit of a draw. At that point we began to wonder if these were the first W1AW contacts on FT8. Who knows. I'll bet that they are the first W1AW/6 contacts, at least. I signed him up for Saturday. With that in the bag, and a bit more schmoozing, I headed to dinner with Darryl, KI6LDM, and Linda, K6GRL, up from Fort Ord. We had a great meal. From there I headed to the bar where I met my friend Mark, W6MES, from SoCal. Mark and I seem to meet each other at hamfests all over the place. I stayed for a while, but not too long since I was going home that evening. It was so great seeing everyone and talking.

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## Digital for Field Day

FREDERIC M HULETT, III

### What I wanted to accomplish:

For the past three years, I have joined the PAARA field day operation at Palo Alto's Bedwell Park. I was so impressed with the operation in 2015 that I joined the club, and continue to be impressed with the stations, and the membership.

This year, I was encouraged to captain the CW-B station (20m/80m, by Stonehenge). The FD committee discussed digital operation as an additional point source, but we decided not to pursue this. I enjoy the digital modes: It was PSK31 that rekindled my interest in ham radio about 10 years ago.

So, I gathered information to build the case that W6ARA should include digital modes in our next Field Day outing. Here's what I came up with.

### Why should we operate digital?

Everybody is "fresh meat". Even stations we have worked before during the contest we can work in digital mode, and get credit. According to the FD rules, we can work each station once per band and mode. Aside from the fun of RTTY and/or PSK31, there are points to be made. Digital QSO's, like CW, are worth 2 points each. SSB QSO's count one. We could have increased presence on a hot band, 20 or 40. We could potentially improve the club's results against other 4A stations, or against our Santa Clara Valley competition.

### It's not a contest, but...

The PAARA FD operation is pretty effective, and competitive. Since 2008, we have entered in class 4A. During that time, we have the scores and ranking as shown in Table 1.

To move up one spot in the 4A rankings would take an average of 288 additional CW or Digital QSOs. However, in 2016, 33 more Q's would have moved us into a tie with K8ES (Delaware ARA).

Table 1 — Historical Records

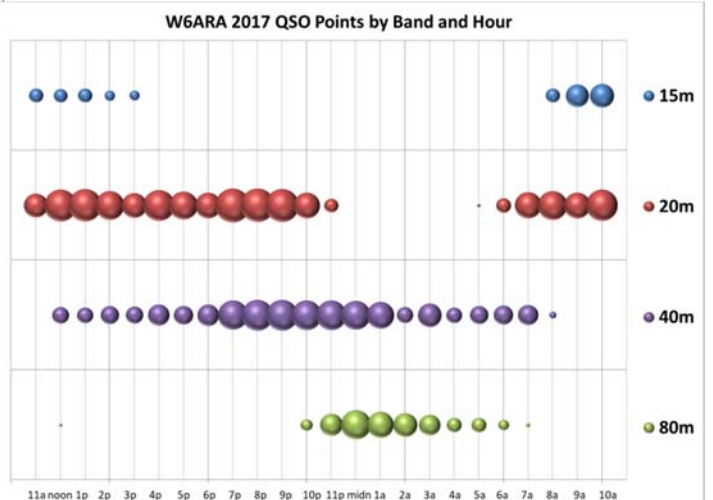
Year	Rank	Points	Class	QSOs
2016	3	13,352	4A	3,896
2015	3	15,186	4A	4,648
2014	2	15,716	4A	4,648
2013	3	14,172	4A	4,308
2012	1	17,158	4A	5,332
2011	4	14,066	4A	4,356
2010	3	13,570	4A	4,114
2009	3	11,326	4A	3,480
2008	5	10,738	4A	3,276

To become the top scoring 4A station would take an average of 654 additional Qs.

### What are the logistics?

Here is how we work the bands: We have 4 HF stations (not counting GOTA and VHF), two A stations and two B stations. Because of the antennas and the proximity, we can only operate two stations on a band, i.e. 20 phone, 20 CW.

There are not many times when three bands have good activity. Here is a graph of our QSOs by band in 2017:



So, if we move to a digital station, we have to take one of the Phone or CW operations on a working band down while we run digital.

### But do we really?

Class 4A allows us 4 simultaneous transmitted

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signals. What if we used the tribander from the GOTA station to put a third station on 20m?

Field Day rules prohibit using a transceiver under more than one callsign during the event: Once we use the GOTA rig under W6OTA, we can't use it as W6ARA.

If we use a different transceiver, we are not bound by the transceiver limitation. We could take one of the other stations off the air while we operate digital. (Or, we could slip up to class 5A).

### **When would we operate and on what band?**

The 'money bands' for digital are going to be 20m and 40. When 20 meters is open, we should not step away from the productive CW and SSB modes. Same goes when 40 is the hot band.

It's important to have the GOTA station on the air for as long as we have guests. This might slow down after about 8:00 pm, or early on Sunday morning, after 20m opens up. This year, the GOTA station was busy as long as there was activity on 20m, but Sunday morning was not occupied.

We could move to 20M on the GOTA tribander, with a different transceiver, for an hour or two on Sunday morning. By adding a wire dipole, we could also exploit 40m in the night / early morning.

### **How effective would we likely be?**

A step up in the ranking might require a couple hundred QSOs.

Any PSK or RTTY QSO's have to be in addition to any QSO points that we are giving up from the station we take off the air. For this reason, the best station to take down would be SSB-A (15/40m).

I traded e-mails with Bill Frantz, AE6JV. He's the digital wrangler for the WVARA field day op-

eration. He told me:

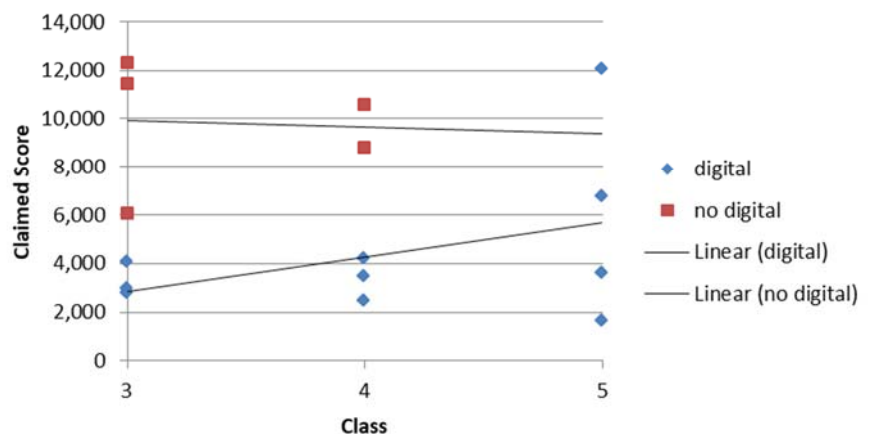
"slightly over 11% of our QSO points were from digital QSOs... We used both PSK31 and RTTY. I didn't see much activity on other modes. There aren't nearly as many stations using digital for field day as are using SSB/CW/FM."

A few of the field day stations post their results to 3830scores.com. I compared the scores posted by class 3A, 4A and 5A stations, and plotted the trend of stations reporting digital QSO's, compared with stations reporting no digital. In this limited sample, the 'no digital' stations had significantly higher scores.

### **So, what's the bottom line?**

I started out wanting to show that a digital operation would be an advantage for our operation at W6ARA. The data sent me in another direction:

**3A,4A,5A scores: digital vs no digital  
Field Day 2016 from 3830.com**



Top-scoring stations don't use digital, the logistics of putting a third signal on 20 are challenging, and the activity on digital is low compared to SSB or CW.

It would still be fun to try some digital operation next year, but we can't expect a big payoff. The final decision will be made by the Field Day Committee, and the interested operators. What do you think?

*(President — Continued from page 1)*

Saturday morning I headed back up for the big day. A quick check of the station told me that everyone was having fun working stations. I ran into my dear friend Michael, AC6Y, and we had a great time talking about the setup and I took him to see the Shelby. By then it was time for my talk. I was very fortunate to have the large room again this year and it was full to overflowing. I was very honored to have so many people come. A special thanks is due to Alex, KE7JDE, a new PAARA member who recorded the talk with not one, but two cameras! We should have the video up on YouTube at some point. The rest of the day was a blur of talking to people and having fun. In particular, I got a chance to see Jeri, AI6TK and Amy, KM6FZE, both of whom I hadn't seen since Field Day. It turned out that Amy had just gotten her Amateur Extra upgrade - Congratulations! I checked back on Masa at W1AW/6 to give a hand setting up, and then he was on the air. Before long it was time to get ready for the banquet. This time I had a room for the evening, so I got myself a nice drink and made my way into the banquet hall. We got a PAARA table together, and invited Mark to eat with us. We settled in for the speakers (there were two). First up was Carole Perry, WB2MGP, who told us about her years of teaching Amateur Radio to middle school students. Then there was Rick Roderick, K5UR, President of the ARRL, who admonished us to do more for our hobby and bring it into the future. Both were great. A trip to the bar followed, with more great conversation with my ham radio friends. Sunday was mostly taken up by the East Bay open section meeting and then the ARRL Forum. Both were informative. Of note was the imminent retirement of the East Bay Section Manager, Jim Latham, AF6AQ. I will miss Jim's leadership, which had guided us for a decade. And then it was over, all too soon. I can't wait until next year, though.

Don't forget that we have Leadership Team elections on the horizon. Nominations close at the end of the November general meeting, and then the election is at the December meeting. You need to be a member for 2017 to vote. CU ON FT8 DE K6WX

## Oct 18, 2017 Board Meeting Minutes

The meeting was held at Marty's QTH, commencing at 7:23 PM on October 18, 2017. In attendance were Kristen McIntyre, K6WX (Pres), Marty Wayne, W6NEV (VP), Jim Thielemann, K6SV (Secretary/Membership), Darryl Presley, KI6LDM (Dir), Walter Gyger K6WGY (Dir), Joel Wilhite, KD6W (Dir & Technical Coordinator). A quorum was present.

Kristen, (K6WX), opened with a discussion regarding an email she received about the "friendliness" or lack thereof of PAARA. The board discussed the topic and resolved that the board members could do a better job of mingling during the breaks at meetings and introducing members to each other, especially new members.

Kristen mentioned her reserve of stories is still rather thin and at best, has a one month backlog. Please, if you've committed to a story but not submitted it (there are several people out there fitting this category) 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 PAARAGraphs and get that story submitted to Kristen for publication. "Remember it is 'home grown' stories that make PAARAGraphs great", she said.

Vice President's Report: Marty, W6NEV, reported that the November speaker will be Ron Sheffield who will be presenting on the Hubble Space Telescope, history and achievements. Marty also reported that he has a speaker for December from Elecraft. However next year is a bit light, if you know of a potential speaker, please let Marty or a board member know. Marty also mentioned, that no one has come forward to take over the coffee and cookies at PAARA meetings, thus there will be none at the meetings until someone is found to take over. If

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you wish to step up and take over this job, let a board member know.

Secretary's report: Jim, K6SV, reported that there were 7 new members joining in October! Currently the membership stands at 196. He also mentioned that it's renewal "season" with all 2017 memberships expiring December 31<sup>st</sup>. You can renew at a meeting or by using PayPal though the [www.PAARA.org/pages/members-main.html](http://www.PAARA.org/pages/members-main.html) link.

Treasurer's Report: Ron, W6AZ, wasn't able to attend the meeting due to relocating his QTH to Illinois.

### **Under Old Business,**

As you recall, on February 6<sup>th</sup>, the PAARA board sent a letter to the ASVARO board requesting they call a general meeting of all participating clubs. A meeting with the ASVARO board and other clubs was held on May 6, 2017. Action items were documented, however, to date there still doesn't seem to be much of any action on any of the items discussed at the meeting except the creation of a Face Book account.

Darryl, KI6LDM, updated the board on his data mining for Bay Area hams who have either renewed or received their 1<sup>st</sup> licenses. He reported that there were 26 newly licensed hams in September. The board is still working on the card to send to new hams.

The board had a short discussion to explore some possibilities for a PAARA banquet next year. Alternate locations, types of gatherings, key events were discussed. Kristen is still putting together the survey to send out to members.

Marty, W6NEV, updated the board on the status of the preparation for the Pacificon W1AW/6 special event station. He reported that things were taking shape and most all needs were covered. He hoped to see everyone there. Kristen, K6WX, indicated that the local JA club she

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## **Don Rodoni, KE6CFX, SK**

**Born August, 1944, Died August 2017**



Don was a quiet, reserved man with a generous and giving heart. He was a Journeyman Plumber for over 45 years. He went into the family business, first with Rodoni-Becker and Company, then he left the family business and went to Cooper Brothers Plumbing (now owned by another company). He was Vietnam Veteran - 1965 to 1971; SGT - E5 upon discharge. Don won a Bronze Star with Oak Leaf Cluster and Purple Heart.

Don was a stalwart member of PAARA, was deeply involved with our Field Day activities, club antenna parties, Electronic Flea Market, and antenna removal and installation work PAARA did for other hams. He was always there at the field events, usually the first one to arrive, and always with the right tools. That was Don. If he had it, he'd use it and help, if he didn't have it, he'd either get it or adapt something to do the job.

Don also had a wide variety of interests. He loved to tinker and putter. He would take apart and rebuild all sorts of mechanical items, fixing them. He built the family's first entertainment system. It included a turntable, 8-track player, radio, reel-to-reel recorder, with editing and a sound board. He also did lighting and sound work for the family stage group, UnScene, for many years. He worked with William Shakespeare and Friends doing a lot of Shakespeare plays and other plays of that time period. Don rebuilt the family 1972 VW bug engine and taught the family about cars at the same time.

Don will be truly missed by all he touched.

*(Minutes — Continued from page 5)*

belongs to will be using the radios at one point to make JT65 contacts with Japan.

Marty presented a quote for additional PAARA T-shirts as discussed at the last board meeting. The board agreed to move ahead with the acquisition of additional shirts.

Jim, K6SV, and Joel, KD6W, reported some progress toward getting a battery backup system installed in the PAARA repeater shack. Two new equipment racks were installed in the shack along with re-racking the repeater equipment into one of the racks. This was done in order to have more room for more equipment. Two 100# 200Ah batteries were also moved to the shack. The 2<sup>nd</sup> rack will contain the batteries and needed power distribution to back up the equipment. We also noted that a bit of tree trimming is needed around the antennas. During their visit, they documented how much electricity had been used by the site, 1036 kWh. The board voted to pay the site owner \$0.25 per kWh, which is the current high demand PG&E power rate.

Kristen, K6WX reminded the board that it's election "season". Clark, KK6ISP, wasn't able to attend but via email indicated no one had come forward yet to run for office outside of the existing board members. All club members are encouraged to let Clark know if they wish to nominate a member or run for office themselves. Nominations will close at the end of the November 3<sup>rd</sup> meeting. All members with current memberships will vote at the December 1<sup>st</sup> meeting.

The board renewed the discussion on what to do with the PAARA property which is currently stored at various members' QTH's. The board is still gathering information on what PAARA has, if there is truly any value in keeping it somewhere or if it should be liquidated in one manor or another. This is an ongoing process with several answers waiting on the completion of fact gathering activities.

There are several other items on the agenda that haven't been worked on very much or could wait until the next meeting, thus at this point

there is no new news on them.

### **Under New Business:**

The board discussed the merits of dividing the Office of the Treasure's responsibilities. With Ron Chester, W6AZ, relocating to Illinois, his ability to attend meetings to collect money and pay bills is not realistic. For the past year plus, Bob Korte, KD6KYT, has attended meetings, collected the money, made bank deposits and paid bills at Ron's direction. Ron has attended the board meetings via videoconference. The board examined the bylaws for anything that would preclude this arrangement from continuing. As none were found, the board agreed to continue with this distribution of responsibilities and Ron's method of "attending" the board meetings, assuming Ron and Bob agree on the arrangement. Ron will maintain the responsibilities of Office of the Treasure with Bob assisting Ron at Ron's direction.

Kristen, K6WX, sent an email out to the board before the board meeting regarding an opportunity for a fund-raising activity. The opportunity is to have one of several participating restaurants give a small percentage of the proceeds to the club from members having a meal at the selected restaurant on a selected day. After a short discussion, the board agreed to move forward with further exploration of the opportunity.

The Board meeting was adjourned at 9:02 PM.

Jim Thielemann, K6SV  
Secretary/membership

### **Please welcome new members:**

Jim Nomura	AI6VF,
Patrick Elliott	W6HKD,
Marco Verdesla	AF7TG,
Mike McKiernan	N6WGY,
Ted Niemira	AI6YN,
Alessio Sangalli	KE7JDE,
John Kristian	KM6LQZ

### **Also, welcome a non-ham PAARA member now a new ham:**

Steven Andrews	KM6SJA
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## PAARA November Raffle Prizes

1<sup>st</sup> prize

BTech UV-25X4  
VHF/UHF Trans-  
ceiver



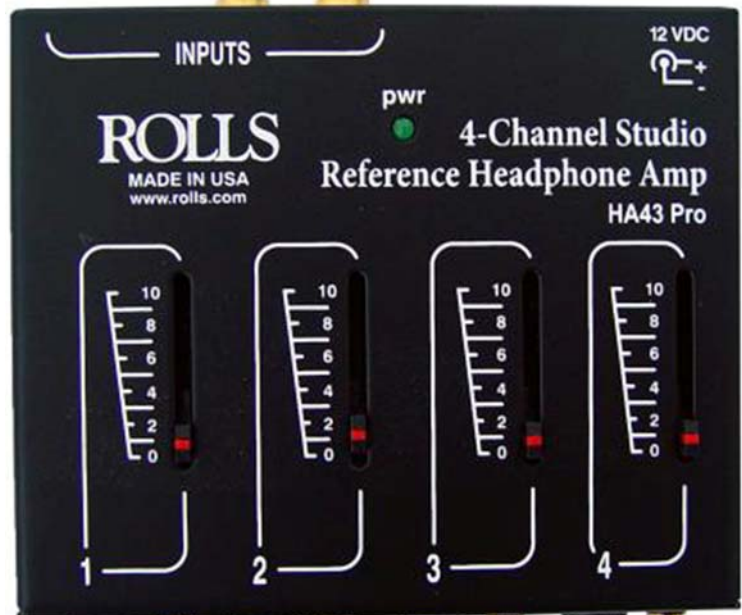
2<sup>nd</sup> prize

ROLLS HA43 Pro  
4 Channel Head-  
phone Amp  
(Thanks Marty  
W6NEV)



3<sup>rd</sup> prize

Pittsburg 7PC. Pro  
Nut Driver Set



4<sup>th</sup> prize

Pittsburg 10 inch  
Channel Lock Pli-  
ers

5<sup>th</sup> — 8<sup>th</sup> prizes To Be Announced







## PAARA October Raffle Winners

*Left to Right*

1 <sup>st</sup>	Joel KD6W	BTech UV-25X4 UHF transceiver
6 <sup>th</sup>	Joel KD6W	Hako Lead Trimmer
5 <sup>th</sup>	Mark AE6TT	12 Piece Bit Driver Set
2 <sup>nd</sup>	Dox K6DOX	Arrow Yagi
8 <sup>th</sup>	Matt W5MMW	LED Lantern
4 <sup>th</sup>	Alexia KM6LGG	200 Lumen Cap Light
7 <sup>th</sup>	Alexia KM6LGG	11 Piece Screwdriver Set
3 <sup>rd</sup>	Jim AF6AC	Cordless Lighted Screwdriver



## Palo Alto Amateur Radio Association, Inc.

PO Box 911 Menlo Park, CA 94026

### Officers

President .....	Kristen McIntyre, K6WX kristen@alum.mit.edu	510-703-4942
Vice President .....	Marty Wayne, W6NEV w6nev@arrl.net	408-234-8023
Secretary .....	Jim Thielemann, K6SV thielem@pacbell.net	408-839-6815
Treasurer .....	Ron Chester, W6AZ ron@taxhelp.com	408-243 2221

### Directors

Director ('17-'18) .....	Joel Wilhite, KD6W kd6w@arrl.net	408-839-5948
Director ('16-'17) .....	Walt Gyger, W6WGY walt@tradewindsaviation.com	408-921-5901
Director ('17) .....	Larry Rebarchik N6DB n6db@arrl.net	650 465-8210
Director ('17) .....	Darryl Presley, K16LDM k16ldm@arrl.net	650 255-2454

### Appointed Positions

Membership .....	Vic Black, AB6SO ab6so@smrn.com	650-366 0636
Database .....	Jim Thielemann, K6SV thielem@pacbell.net	408-839-6815
Chaplain .....	Rick Melrose K6RDM K6RDM@yahoo.com	408-341-9070
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 bob@rgktechsales.com	408 396 4745
Badge Coordinator .....	Doug Teter, KG6LWE dteter@wci.com	650-367-6200
Historian Position .....	<i>Position Vacant</i>	
Raffle Coordinator .....	Jim Rice, K6AK	650-851-2274
Field Day Coordinator ...	Doug Teter, KG6LWE	650-367-6200
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QSL Manager .....	Marty Wayne, W6NEV	408-234-8023
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Technical Tips .....	Vic Black, AB6SO ab6so@smrn.com	650-366 0636
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-September, 6am–12 noon

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 2nd Wednesday of every month except July, August and December.

Contact: <http://wvara.org>, Bill Ashby N6FFC, 408-267-3118, [president@wvara.org](mailto:president@wvara.org)

## American Red Cross,

### Santa Clara Valley Chapter

Contact: <http://santaclaravalley.redcross.org> or Scott Hensley KB6UOJ, (408) 967 7924

[shensley@Novell.com](mailto:shensley@Novell.com)

(Please send changes to [PAARAgaphs editor](#))



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*Badges are ready for  
 pickup.*

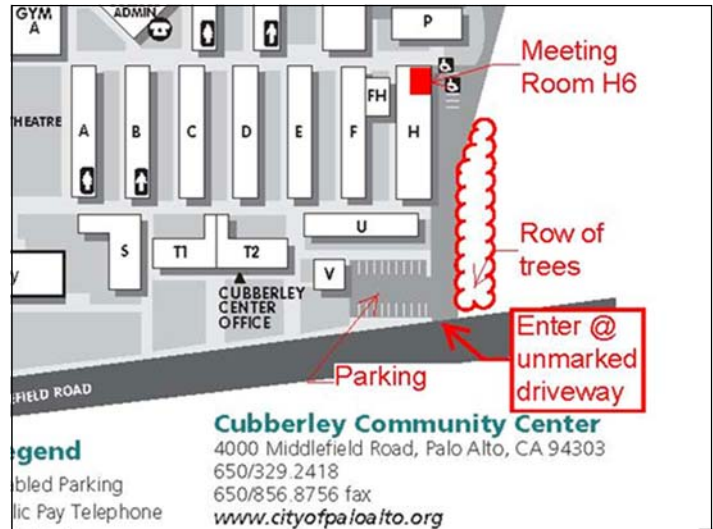
If you would like to  
 order a badge, see  
**Doug Teter, KG6LWE.**

## 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 <sup>st</sup>	Joel KD6W
2 <sup>nd</sup>	Doug - KG6LWE
3 <sup>rd</sup>	Jack - W1VSL
4 <sup>th</sup>	Rob - KC6TYD
5 <sup>th</sup>	Rob - KC6TYD

If you're interested in trying out at Net Control,  
 Contact Doug, KG6LWE. It's good practice,  
 and lots o' fun! Give it a try.



**Meeting Location — Middlefield Road  
 between San Antonio and Charleston in Palo  
 Alto. 4000 Middlefield Road**

<http://www.foto.mail.ru/list/shkurkin>

Vladimir Vladimirovich

SHKURKIN

Editing and Translation Services  
 English-Russian-English

shkurkin@ix.netcom.com

**Palo Alto Amateur Radio Association**  
**P.O. Box 911, Menlo Park**  
**California 94026-0911**

Club meetings are on the first Friday of each month,  
 7:00pm at the Room H-6, Cubberley Community Center.

Radio NET & Swap Session every Monday evening, at  
 8:30pm, on the 145.230 –600 MHz repeater, PL 100Hz.

Membership in PAARA is \$25.00 per calendar year,  
 which includes one subscription to PAARAgaphs  
 \$6 for each additional family member (no newsletter).

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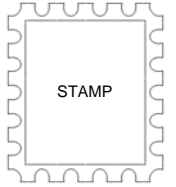
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# PAARAgaphs — November 2017

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