

PAARAgraphs



The Official Newsletter of the

Palo Alto Amateur Radio Association, Inc.

Celebrating 77 years as an *active* amateur radio club—Since 1937



Upcoming Events



- June 6 PAARA General Meeting, 7:00 PM
Cubberley Community Center, Room H-6 400 Middlefield Rd, Palo Alto
- June 14 1pm - location TBD
Care and Feeding of HT's - A tutorial, review, and radio roundup. Bring your charged radio(s)!
- June 18 Board Meeting, 7:00PM
Everyone welcome!
Round Table Pizza Parlor in Menlo Park
- June 28-29 Field Day!



President's Corner

June 2014

CQ Field Day, CQ Field Day - Yes, it's that time of the year again, and PAARA is ready to have another KB Field Day at Bedwell Bayfront Park this year. We had another fantastic Electronics Flea Market experience over at De Anza College. I've heard reports of some GUD DX out there, and worked a bit myself too. I hope you have.



Rob Brownstein, K6RB

Rob will be joined by two other DXpedition members to present a talk about the 2013 C82DX DXpedition to Xai Xai, Mozambique, Africa.

Rob Brownstein, K6RB, was first licensed at age 11 as KN2UMU in New York City's borough of Queens. He has maintained a consistent level of operational activity for 56 years. His preferred operating mode is CW and he spends nearly 99 percent of his time 'pounding brass.' His preferred activities are rag chewing and contesting with CW. Rob is president of the CW Operators Club (CWops) whose members number above 1000 and include hams in more than 70 countries. CWops' signature program is called "CW Academy" and teaches hams Morse code skills - both copying and sending - via three levels of courses from beginners to advanced. CW Academy is free, and its 20+ volunteer advisors train over 200 students per year.

Field Day is our big chance to get out there and display our hobby for all to see. Clubs and individuals from around the USA and Canada will be setting up stations in parks, campsites, emergency centers, and elsewhere to show that Amateur Radio works when all else fails. On the weekend of June 28th and 29th, and starting with setup on the 26th and 27th, we will all make the trek to our FD sites and erect the best setup we can get going. We will have emergency power, portable stations, tower trailers, wires in trees, tents, RVs; whatever it takes. As ham radio operators, we do what is necessary to make the contacts under the circumstances we encounter. That's what makes us different from other radio services, and that's what we are showing in our Field Day exercise each year. It's more than an operating event or a contest; it's a chance to show what we're made

(President—Continued on page 6)

SIX FIELD PHONES OF WWII: AMERICAN (2), BRITISH, GERMAN, JAPANESE AND RUSSIAN

A slightly different version of this article first appeared in Nov. 2013 issue of Electric Radio
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Part 1

We all love radios. But what exactly is it that we love so much? The Merriam-Webster English dictionary defines radio as:

“the wireless transmission and reception of electric impulses or signals by means of electromagnetic waves”

Making use of these characteristics and capabilities, our species has built all sorts of radio systems and radio transmitter/receiver devices for use in business, personal, civic and military communications over distance, and radio sets in their myriad forms have become indispensable and ubiquitous for day-to-day as well as emergency communications and entertainment. But in military applications, especially when secret and reliable communication is of paramount importance, there are a couple of major problems due to particular attributes of radio. One is that a radio wave always radiates from a single point but travels to infinite points in a continuum within its reach, determined by effective power of radiation. That makes it easy for transmitted messages to be intercepted by enemy or unintended parties¹. Use of coded or cyphered messages, frequency hopping and other methods have been devised to cope with this problem. The other major problem is that a radio signal is vulnerable against interference, both intended and unintended as well as environmental conditions; we are all familiar with static noise, jamming, water damage to tubes and other radio components. Thus, the most reliable method to communicate over distance, to avoid these problems, is to employ “wired” communication by using field phones whenever you can string wires. Unless the enemy can tap into



Fig. 1 (from left) American EE-8B in leather case, American EE-8B in canvas case, British “L” MK-1, German FF33, Japanese Type 92, Russian TAI-43

the wire itself it is not possible for him to secretly monitor messages or jam ongoing signals. Signals in wired communication are carried from one point to another point only².

Field phones, in their typical form, are battery operated or self-powered portable phones with a ringer and a handset. These phones can be used between just a pair or several phones can be connected together by daisy-chaining them. They can also be connected through a switch board with a bank of switches and powered by central batteries. They are generally designed to communicate up to a few miles but distance can be extended beyond 100 miles if large gauge and good conductive wires and higher voltage DC source are used. In WWII these phones were widely used by every nation and in every battle field.

I have recently acquired and restored six field phones manufactured and used by major war parties during WWII, 1939-1945 (with the exception of the Soviet phone which was built in the post-WWII period albeit with the 1943 design). There were many more models of field phones used in the war but the ones presented here are the most common ones. They are shown in Figure 1 above.

Each phone in more details looks like this:



Fig. 2 American (1) EE-8B in leather case



Fig. 3 Inside of EE-8B



Fig. 5 British "L" MK-1

Editor's note: Fig. 4 American EE-8B in Canvas elided.



Fig. 6 Inside of "L" MK-1



Fig. 7 German FF33

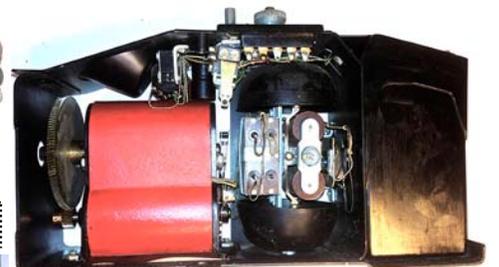


Fig. 8 Inside of FF33



Fig. 9 Japanese Type 92



Fig. 10 Inside of Type 92

(Phones — Continued on page 4)

(Phones — Continued from page 3)

The exact years of manufacture of these particular phones could not be ascertained from the markings on the sets themselves except the Japanese set which had a plate affixed on the set indicating the manufacture date of April, 1943 (the 18th year of Showa), the factory name and the serial number.



Fig. 11 Russian TAI-43



Fig. 12 Inside of TAI-43

From various sources, however, we know for certain that all of these phones were indeed manufactured and used during WWII (1939– 1945) and the same basic design was used well into the 1960s and even 70s in some cases.³ There is a reason that WWII field phones (and radios and related equipment) often did not carry the date and place of manufacture or the serial number on the sets; if fallen in enemy's hands they could reveal military intelligence regarding factory locations, production capabilities, etc. In fact I have read that American bombers used the information gleaned from captured Japanese radios to target radio factories around Tokyo⁴.

The six field phones I acquired needed various degrees of repair and restoration work to make them operational. One of the American phones and German and Russian sets needed only thorough cleaning and lubrication; they immediately worked without any work on electronics or components as soon as I installed batteries. The second American set had a broken contact piece inside the receiver as shown in the photo.

It took only a simple soldering job to restore it. The housing of the British set, made of steel, was badly corroded and



Fig. 15 Corroded British phone

the case would not open at first due to the frozen hinges and locking mechanism.

It looked hopeless initially and took considerable scraping, many applications of lubricant, banging and tapping to open it. But when I finally opened it the inside was surprisingly clean and showed only minor corrosion; no electronic parts were damaged. After installing batteries it began to work without further work.



Fig. 14 Broken contact piece inside American phone



Fig. 13 Data plate on Japanese phone

The Japanese set required the most restoration work. The

cord connecting the handset and the body of the phone was cloth-covered and was badly frayed. The wires inside were broken and exposed at several places. Obviously, the cord deteriorated by humidity, water, sun light, fungus and the like. I replaced the cord with a modern four-wire cord housed in a plastic sheath. The 1945 US Navy booklet intended for all American communication officers and signal officers which described captured Japanese radio equipment and their technical characteristics noted that "... the majority of Japanese radios studied are ... lacking in weatherproofing of any kind. [They] are apparently not built to withstand fungus or extreme humidity".⁵

The cord used for the American sets, in contrast, was sheathed in rubberized tube and it is still robust after seventy or so years. All the American radios and field phones were obviously treated for fungus and humidity. However, the EE-8A and early EE-8B phones were housed in leather cases: leather does not withstand high humidity well. Leather was soon replaced by canvas and later, in post-WWII period, by nylon.

To Be Continued

Endnote:

1. On the other hand, Amateur radio exploits this particular property of radio for maximum pleasure. The magic of amateur radio, especially DXing, owes precisely to this capability of point-to-infinite points communication. John Steinbeck, though not a ham, captured the magic most beautifully:

"They were always groping out to the distances, these hams. They would rather hear a dull man from 5000 miles than an interesting one from 500. A strange brotherhood they were, almost a lodge. Their dearest acquaintances they never saw. A ham who could make an acquaintance in Timbuktu was just twice as fortunate as one who only had friends in Guam."

John Steinbeck, *Bombs Away: The Story of a Bomber Team*, Penguin Books, 2009, p. 123 (First published by The Viking Press 1942)

2. An even more reliable and fool-proof method of point-to-point communication, of course, is a use of a human message carrier. Even that, however, is not absolutely perfect: a carrier can be captured and made to reveal the message. It is interesting to note that Osama bin Laden in his hiding in Pakistan mostly depended on human messengers to communicate with his cohorts in Afghanistan, but what finally did him in was an intercepted cell phone communication by his subordinates – a form of a radio communication, to be sure – which led to revealing his hideout location.

The celebrated Navaho and Comanche code talkers of WWII depended much on the field phone though they used radios as well. Pairs of code talkers were assigned in battlefields with field phones. It is said that the victory in Iwo Jima could not have been accomplished without these code talkers using the field phones and providing communication on difficult terrains of the island. Henry Steele Commager and Donald L. Miller, *The Story of World War II*, Simon & Schuster, 2010, p. 551

3. The most extensive collection of field phones I have come across is in the RKK Radio Museum in Moscow. http://www.rkk-museum.ru/collections/telephones/telephones_e.shtml The site helps to identify many phones.
4. US soldiers bringing home captured radios and related equipment were asked to send the plates to Washington DC for analysis in what was called the "JAPLATE" program. This explains why we often see plates show up on the Internet market and why the Japanese radios on the market often are missing the plates. www.armyradio.com/customer/pages.php?url=/publish/Articles/William_Haward_Japan/Conclusion.htm I thank Brian Harrison, KN4R, for leading me to this information.
5. Japanese Radio Communications and Radio Intelligence: "Know your Enemy", CinCPac – CinCPOA Bulletin 5-45, p. 25

W1AW/6 Signup Now Open!

The ARRL Centennial QSO party has garnered tremendous global attention and participation.

The second CA operation is scheduled for 10/1 to 10/8 and sponsored by NCCC. This coincides with CQP so this presents a great opportunity to showcase and promote the premier state QSO party as well all the great stations and operators we have in N. California.

The first CA operation netted 37,151 QSO's. Our goal for the October operation is at least 60,000.

To meet this goal we will need coverage of as many band-mode slots as possible during the week. There are 1400+ prime HF slots so there is plenty of opportunity to get on and operate in all modes.

The pileups have been huge so this is a rare chance to be on the "other side" without having to leave your own station.

Before signing up, please consider:

- The station owner must be an ARRL member.
- The station owner will be responsible for securing the log and forwarding it to the coordinator daily.
- Each slot is 2 hours. You are responsible for the covering entire time.

If you are interested in signing up, please send an email to w1srd@arrl.net to request a username and password for the W1AW/6 website. Include your station particulars and any plans you have beyond SO. M/S, M/2 and M/M operations are encouraged!

Anyone can view the site without a password at <http://www.w1srd.com/w1aw-schedule>.

Once you have access to the site you can select the time slot(s) by band and mode you would like to request.

Please understand that there is no guarantee of getting the slots you request and we may also need to juggle stations to get maximum coverage.

Please let me know if you have any questions or feedback.

73,
 Steve
 W1AW/6 Coordinator

(President—Continued from page 1)

of, and a chance to demonstrate the unique ability of Amateur Radio to perform when nothing else can.

PAARA's Field Day is, of course, unique in the Bay Area. We put lots of aluminum in the air, and we take this event seriously. This doesn't mean we don't have a lot of fun, though. We have a great time operating, setting up, tearing down, keeping things going during the day, handling the Get On The Air, or GOTA, Station, doing technology demonstrations, eating great food, staying up all night, and just enjoying the company of our wonderful friends. I hope you will all join us this year at the site. We are also looking for ops (particularly night ops) and crew, so contact Doug, KG6LWE, to help out. As usual, I'm really looking forward to the CW night shift on the 4 element 40m beam. I hope to step out in the dead of the night, and see the stars and the planets shining brightly in the cool night sky. It's a glorious sight. As I do that, I'll just imagine those electromagnetic waves being guided off the antennas to launch over the Bay and beyond.

If you stopped by the ASVARO Electronics Flea Market this past month, you might have seen some familiar faces manning the food concessions, and hanging out at the vendor ticket sales area. PAARA was the sponsor for the May EFM, and financially it was the best Flea Market we've had in several years. We sold many vendor spaces and a fair amount of concessions. Gerry, N6NV, and his truck full of "junk" did very well also. Thank you Gerry! Many people helped out on the flea market, and I'm sure I'll miss someone. If I do, please let me know, and I'll list you next month. A big PAARA thanks (in no particular order) to: Doug KG6LWE, Gerry N6NV, Seth KF6UZX, Rolf N6NFI, Jim KI6KVV, Rob KI6INR, Darryl KI6LDM, Doña KI6DAR, Clark KE6KXO, George N6NKT, Ron W6AZ, Marty W6NEV, Joel KD6W, and Daniel KJ6SEE. Thank you all.

(President—Continued on page 7)

(President—Continued from page 6)

I hope you've had a chance to get on the air lately. I haven't had much time, but HF CONDX have been good. Working into western and eastern Europe has been pretty easy on 15m. The CQWW WPX CW contest was fun, and I just looked around for some DX. I worked SN5X in Poland on the second call from my crummy station, no problem. Contests, as I always say, are a great chance just to work a few.

Well, that's all for now. I hope to CU AT PAARA FD ES KB DE K6WX

21 May 2014 PAARA Board Meeting Minutes

The Board Meeting was held at the Round Table Pizza Parlor in Menlo Park, commencing at 7:53 PM on the 21st of May, 2014. Attending were Kristen McIntyre K6WX (Pres), Jim Thielemann KI6KVW (Sec, Membership), Ron Chester W6AZ (Treasurer), Byron Beck N6UOB (Dir), Larry Rebarchik N6DB (Dir), Darryl Presley KI6LDM (Dir); and non board members, Doug Teter KG6LWE (Field Day Coordinator), Joel Wilhite KD6W (Technical Coordinator), Vick Black AB6SO (Technical Tips). A quorum was present.

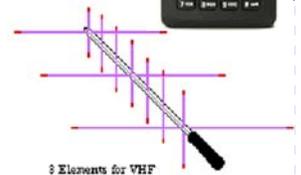
President's Report: Kristen, K6WX, reported that the May 2nd General Meeting was very well attended. The attendees enjoyed the presentation by Jim Brown, K9YC, on "A better way of planning for HF antennas". She also mentioned that the friendly atmosphere of club meetings is much different, and thus more inviting than other clubs she's visited.

Kristen indicated her reserve of stories is better than in the past but new stories are always needed. The board wishes to encourage the general membership to submit articles to be published in upcoming issues of PAARAgaphs. Do you have any projects, technical articles, hints n kinks, DX, on the air experiences that might be of interest? We can even help you write them up, "even if it's only 4 sentences", says Kristen.

(Minutes—Continued on page 8)

June Raffle Prizes

- 1st Wouxon KGUUV3D-2-UHF HT Transceiver, 2M/440 DUAL BAND HT, 128 Memories, 1700mAh LI-ON BATTERY
- 2nd Arrow Yagi / 3 Element VHF / 7 Element UHF / Max Gain
- 3rd Daiwa CS-201 2-Position Coax Switch, 2 Position, DC-600 MHz, 1KW CW / 2.5kW (PEP), Insertion Loss: < .2 dB of Loss, Isolation: Better than 50dB @ 300 MHz, Unused Position Grounded, Connectors: SO-239 (UHF-Female)
- 4th Two FRS Radios
- 5th ARRL Repeater Directory 2012-2013
- 6th Two Rolls Rescue Tape
- 7th Small Precision Screwdriver



8 Elements for VHF
7 Elements for UHF



PAARA 5/2/14 Raffle Prize Winners

- 1st Prize Norma Chamberlain / KK6HAF / Wouxon Dual Band HT
- 2nd Prize Norma Chamberlain / KK6HAF / HT Antenna
- 3rd Prize Bill Parsons / AF6AE / Battery Tender Junior
- 4th Prize Shekhar Tipnis / KG6UEF / HT Cup Holder
- 5th Prize Tom Minnis / WB6HYD / Two FRS Radios
- 6th Prize Daniel Rahamim / KJ6SEE / ARRL Repeater Directory
- 7th Prize Joe McVeigh / AG6ZC / Two Rolls of Rescue Tape

(Minutes—Continued from page 7)

Vice President's Report: Marty, W6NEV, though not able to attend, advised the board that this year's Field Day shirts have been ordered. He'll have them just before the next meeting. If you ordered one, come prepared to pay & pick yours up. He also reported the speaker for the June meeting is Rob Brownstein, K6RB. Rob will be joined by two other DXpedition members to present a talk about the 2013 C82DX DXpedition to Xai Xai, Mozambique, Africa.

Secretary's Report: Jim, KI6KVW, reported that there were 6 new members and twenty-one renewals at the May 2nd meeting and in the following weeks. He also reports that the 37 members who hadn't renewed for 2014 have been dropped from the roster. Our current membership is 150. The postcard reminder seems to have spurred members who wished to continue to be members to renew. Also in the mix are the 10 new members over the last 2 months. Jim also reminded the board that June 1st the badge price increases to \$15. He also reminded the board that when we voted for the increase we also voted to offer a \$10 badge with the purchase of a T-shirt. This change will be announced at the next meeting.

Jim reported that adding a membership portal to the web site is still in progress.

Treasurer's Report: Ron, W6AZ, reported the club remains in good financial condition. Areas where the club brings in revenue to cover operating expenses have been positive for the last 5 months. Even with the Flea market changes, PAARA came out on the right side of the bottom line.

Under old business, the board wishes to thank all volunteers who helped make the Flea Market a success. The Flea Market changes were again a topic of discussion. Kristen reported the last minute success with increasing the vender fee by \$5 meant the gate fees covered the increase in costs charged by the Asvaro. Only a couple of venders commented about the increase. The equipment normally provided by the Red Cross was successfully picked up and transported to the site, though it was a bigger "pile" than originally thought. An event like this isn't without its

surprises and this one wasn't the exception. But like field day, it's a test of one's resourcefulness.

Kristen mentioned that "Radios in the Park", which is held at Agnews Historic Park in Santa Clara, was reportedly well attended last month. The next event is June 8th and runs from 9:30 to 12:30.

Doug talked about field day and the 3rd antenna party. He currently plans on holding it on June 7th. Watch your email for more information. Doug has filed the use permit with the City, reserved the U-haul trucks and the all important port-a-potty. We are getting close to having all the "ducks in a row" but have an **urgent** need for a GOTA captain, a network administrator, and NTS traffic plan. Now is the time for club members, or non members, to step up and help with the clubs Field Day effort! **These are important positions that need to be filled.** Please contact Doug Teter, contact info can be located at www.paara.org under the officer section found on the left, or the masthead of PAARAgaphs, or contact any board member. If you wish to operate at Field Day, at the next meeting will be the time to start signing up. Signup sheets will be available in the back of the room.

Under new business, Vic mentioned that Steven Dyer, W1SRD, is rounding up hams interested in operating as W1AW/6 during October. You'd operate a 2 hour time slot from your own station. You can choose the band and mode you wish to operate. Contact Steven W1SRD@ARRL.net for information.

The meeting was adjourned at 9:00 PM.

Jim Thielemann
KI6KVW

New Members:

Larry Bruguera	KG6UVY
Jon Kim	AF6BG
Bob Perlman	KG6AF, VE
Patrick Buder	AE6ZY, VE
Alan Young	AG6ZE
Steve Cramer	KK6JOL

Returning member:

Karl Dresden	KJ6GUK
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 Chaplain..... Rick Melrose K6RDM 408-341-9070
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 Public Affairs *Position Vacant*
 Station Trustee W6OTX, K6YQT, W6ARA.... Gerry Tucker, N6NV
 Station Trustee K6OTA..... Ron Chester, W6AZ
 Property Manager Gerry Tucker, N6NV
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 dteter@wawi.com
 Historian Position..... *Position Vacant*
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VE Exams

3rd Saturday each month, 10:30AM, 145.23- PL=100Hz
 Redwood City Main Library, Community Conference Room
 1044 Middlefield Road, Redwood City, CA
 Contact: <http://amateur-radio.org> or 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.k6va.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.gsl.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://santacalaravalley.redcross.org> or Scott Hensley KB6UOO, (408) 967 7924
fshensley@Novell.com



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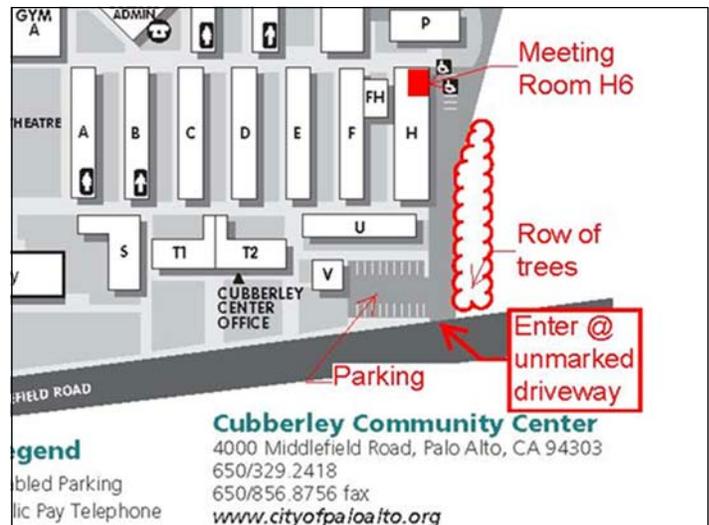
If you would like to
 order a badge, see
Doug Teter, KG6LWE.

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 st	Joel KD6W
2 nd	Doug - KG6LWE
3 rd	Jack - N1VSL
4 th	Marty - W6NEV
5 th	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

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**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 \$20.00 per calendar year,
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