

# PAARAgraphs



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



## The K1N DXpedition To Navassa Island John Miller, K6MM

John was first licensed as WV2BQJ in 1958 while living in Syracuse, NY. For the last decade, he has focused heavily on DXing, contesting, and recruiting new operators into the hobby. His DXCC total stands at 331 confirmed and he holds 8-Band DXCC.

John has been a member of several DXpedition teams: Operator at PJ7E (Sint Maarten), K9W (Wake Atoll) and K1N (Navassa Island). Webmaster or Relay Pilot for NH8S (Swains Island 2012), C82DX (Mozambique 2013), FT4TA (Tromelin 2014) and 3GØZC (Juan Fernandez 2015).

John is a Past-President of the Northern California Contest Club, a founding member of the CW Operators' Club, and a current Director of both the Northern California DX Club and the Northern California DX Foundation. He has also served as Co-Chairman of the International DX Convention for 2011, 2013, and 2015.

## Upcoming Events

- June 5 PAARA General Meeting, 7:00 PM  
Cubberly Community Center, Room H-6  
400 Middlefield Rd, Palo Alto
- June 13 PAARA Flea Market
- June 17 Board Meeting, 7:00 PM  
Everyone welcome! Round  
Table Pizza Parlor in Menlo  
Park
- June 27-28 Field Day
- Aug 30 Nile Canyon Train Ride and BBQ



## President's Corner

June 2015

Greetings from JA land. I've brought some gear with me this time. June is here and that means it's time for our favorite event - ARRL Field Day. The bands have been up and down, but Field Day will make its own propagation. And another PAARAtrip is in the works.



It's great to be in Japan again, particularly before it gets too hot. Today it was up to 38°C in Saitama prefecture, where I traveled this morning. Fortunately, though, it wasn't too humid. It's a comfortable 28°C in Tokyo, where I am at the moment. Before I left, I debated what gear to bring, finally settling on an FT-817 and a brand new Alex Loop that I bought at HRO. I tried the Alex Loop out at home a little bit and boy does it seem to work well. I didn't make any QSOs just holding it in my bedroom, but I could hear lots of stations and the SWR was well within the acceptable range. The E-M fields were really intense too. It set off all sorts of things that were nearby. I'm looking forward to having some time to place it in the 2nd floor window in my house and seeing what I can do with 10 Watts. If you hear J11ZZ on the air, give a shout back. That will be me.

We now have two Field Day planning meetings done. Doug, KG6LWE, is about to have the first of the antenna work parties. The rigs are chosen and there is a tentative antenna and band plan. That means that we are almost ready. The only thing

*(President — Continued on page 6)*

## HAVE 3 WATTS, WILL TRAVEL

### The joy of /MM QRP and other things

Hiroki Kato, AH6CY  
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Part 2

*Continued From May, 2015*

Back to my recent Norwegian coastline cruise. I took the following equipment on board:

1. A KX3 transceiver by Elecraft with a built-in antenna tuner and internal rechargeable batteries (8 AAs); a microphone and a built-in but detachable paddle and an internal automatic antenna tuner (these are sold as options by Elecraft)
2. A battery charger, an old no-name surplus wall wart that produces 14.5v/850ma DC from 110/220v AC. (I picked this one up in the De Anza electronic flea market.)
3. An AC plug adapter (Continental European to US plug connection)
4. Six feet RG58 50 ohm coax with a BNC female connector on one end and a UHF male connector on the other
5. A modified MP-1 portable vertical antenna by Super Antenna. Instead of the original radial wires that come with the MP-1 I took home brew 3 sets of 15 small radial wires, totaling 45 wires, fashioned from a computer ribbon cable, with a large and sturdy, but easily disengagable, clip to attach to the antenna base plate.
6. A pair of noise-canceling stereo headphones by Sennheiser.
7. A set of 8 AA Alkaline batteries in a holder sold by Radio Shack as a back up power source with a home brew Andersen connectors and short lead wires to connect to the KX3.
8. A small all-in-one tool (available in a travel store).

My entire QRP travel setup weighs less than 10 lbs and I can carry the whole thing in a small backpack or in a corner in my suitcase.. Simple and nonchalant as it may look, the current lineup is a result of quite a bit of trial and error on my

part. Here are a few things I have learned and I have incorporated in my travel package:

The KX3, of all the small form-factor QRP transceivers available in the market currently (and there are many others, including kits, single band and CW or digital mode only radios, not counting home brew variety), meets my QRP portable operations' requirements the best (no, I don't work for Elecraft, nor am paid by them). Until it became available last year, I regularly carried Yaesu's FT-817 which is still a very good QRP radio, especially for the money, and remains as my backup rig. The FT-817 includes the two meter and 440 bands in addition to all HF bands, which the KX3 doesn't (the two-meter option has recently become available but not the 440). I only operate HF while traveling, so the exclusion of the VHF/UHF does not matter to me. What matters most for my purposes is how long the internal batteries last. The KX3's current drain on receive is much lower than the FT-817 or any other multi-band QRP rigs I know. I usually operate under three watts output even though the KX3 can produce up to 10-12 watts (with external 12v supply) and the FT-817 5 watts. By limiting my power to under 3 watts (SSB or CW or mixed), I can operate more than three hours after a single full charge. With the FT-817 I usually last about an hour after a full charge.

I work both SSB and CW (and once in a while PSK31), but I prefer SSB because I enjoy casual HF DX rag chewing more than amassing the number of DX stations I have worked. I switch to CW when conditions are poor. I don't do award hunting or contests. Even after having been an active ham for over 50 years I still don't even have the WAC or WAS certificate, let alone the DXCC plaque, on my wall though I am fairly certain that I have worked more than 100 countries/entities and all of the US states, certainly all the continents plus the Antarctica. I am not a "dedicated" ham by the usual definition, but I am definitely dedicated to having fun through many aspects of hamming. But I digress.

Back to the question of batteries, there seems to be an assumption among some hams that CW would allow you to operate longer than SSB with

*(Will Travel — Continued on page 3)*

*(Will Travel — Continued from page 2)*

the same set of batteries. That is not my experience. Of course, how long the batteries last depends much on your operating style. The ratio of receiving vs sending is the key factor though it is not the only one. My listen/talk ratio is roughly 9:1 when operating QRP. How often you call CQs as opposed to listening for and calling the station calling a CQ or calling him/her when s/he has finished with the other station is another factor. I generally do not initiate CQs when operating QRP but there are some exceptions. When operating /MM I call CQ more often than when on land. More about this later.

Batteries have constantly been improving and I have tried many different kinds of batteries. I have settled on Sanyo's NiMH rechargeable AAs, brand named Eneloop, for my internal installation. Eneloop seems to hold charge longer than other brands when not in use and when in use it tends to keep voltage high until it drops off suddenly rather than gradually dropping voltage, the characteristic desirable for QRP transmission. They are rated 1900 ma but they seem to do much better than other brands that claim 2200 ma or even 2650 ma. The ones they claim higher capacity do not seem to tolerate frequent charge/recharge cycles, in my experience. I installed a set of 8 Eneloop (bought at COSTCO) about a year ago and they are still going strong after many charge/discharge cycles.

My auxiliary backup external batteries are a set of 8 AAs of a run-of-the-mill alkaline variety. I have hardly had to use them but I always carry them just in case I am at a QTH where I cannot recharge the internal batteries. Many QRP portable operators using batteries have a frustrating experience of running out of juice in the middle of a juicy conversation or hearing rare ones just as you are running out of the charge. I certainly have and would hate to repeat the experience. AA size alkaline batteries are, of course, most commonly available batteries in the world, at a corner drug store, grocery store, toy store, anywhere.

For me, the Sennheiser ear-covering noise-canceling headphone set is just the right kind of headphones to use for portable QRP though they are bulky and pricy, if not heavy. I bought this headphone set originally to use on an airplane to

listen to music or watch movies. Bose, SONY and other manufacturers also sell similar headphones. You can use the cheapest set of ear-buds (non-noise canceling) available in a dollar store, though. Noise canceling is most effective against continuous low frequency noise and on cruise ships you often encounter such noise from the ship's engine. Also, using the radio's built-in speaker is impractical in areas where other passengers are around on a ship, which is typical, unless you are operating from your own personal patio space outside of your cabin. There is another reason that I prefer a "big ear" variety of headphones. People around you tend to leave you alone when they see a person with a big visible thing over your head as opposed to in-ear buds.

As for the antenna to use on board, the choice is limited but requires some serious thoughts. You are faced with two contradictory demands when it comes to a portable antenna: when deployed the larger and taller the better; when carrying it in your suit case/backpack the smaller and lighter the better. Since there is no way to deploy a full size vertical or dipole or any wire antennas on board, any antenna you would use must be collapsible or foldable into a small form factor with a small foot print (no large support base). Any portable antenna therefore is a compromise antenna. For an outdoor portable operation you might be able to run a long wire variety to hang from a tree, or even a collapsible and packable Yagis, but you cannot hang from or affix anything to the boat structure when going /MM on a cruise. All these requirements and constraints boil down to the fact that there are essentially only a few choices of the antenna you can use on board: a vertical, a magnetic loop or a random wire.

There are many varieties of portable vertical available on the market. You can home brew one, too. I have tried many of them and I have settled on the MP-1 by Super Antenna Company. It is a center loaded, manually tuned screw type from 40 to 6 meters (80m also, if you add an optional coil.). The top/mast portion is a light weight telescopic piece that looks like a typical antenna used with a portable shortwave radio (which is an advantage as it is not attention getting; bystanders often assume you are listening to the broadcast

*(Will Travel — Continued on page 4)*

*(Will Travel — Continued from page 3)*

shortwave radio.) Pros for the MP-1 include 1) it is light 2) it collapses into a small bundle not longer than a foot and 3) it comes with two L shaped base plates and a clamp, the combination of which allows flexibility in mounting on practically anything. Super Antenna sells a small collapsible tripod base with a small foot print that can be placed on a ground/floor or any flat place such as a picnic table, adding the ease of deployment. Cons include that it is not particularly sturdy and requires careful handling. I have dropped a fully extended MP-1 once from a height of only 5 feet. The telescopic mast broke in half and was not repairable. That is the price you pay when you want your antenna light. Perhaps someone can produce a similar antenna with light but sturdy metal material. I once left the MP-1 in the rain for a few days. Within a short time, corrosion set in on the screws and the coil of the antenna. Since then I have been careful to wipe and dry the antenna after use in rain. The current MP-1 is a third one, after I abused the first two.

A vertical antenna can work without radials/counterpoise - but only poorly. Radial wires are a must and more wires the better. A single counterpoise antenna with a 1/4 wave length for a given band works fine with some directivity but not as effectively as with multiple wires.

For my QRP outdoor and portable operations, I like the magnetic loop antenna as much as I like verticals and a mag loop would work on board just as effectively as a vertical. The reason I chose the MP-1 vertical over the AlexLoop mag loop that I own and use often (there are other collapsible mag loops available on the market, but the AlexLoop is light and foldable into a smallest size.) for this last cruise is that a mag loop tends to be somewhat more conspicuous and arouse passengers' curiosity more. The MP-1 looks more like an ordinary telescopic antenna for a shortwave radio, as mentioned. I do like the fact that the mag loop does not require radial wires. There is another reason. With the MP-1 vertical combined with the KX3's built-in automatic antenna tuner I can QSY from one band to another very quickly. Once I tune the MP-1 for the 17 meter band (manually turning the coil cover to get 1:1 SWR) I can QSY to 20, 15, 10 simply by pushing the tuner button and obtaining 1:1 or close to it; to

QSY to 40, 30 and 12 I do need to manually turn the MP-1's coil. With any mag loop, not just the AlexLoop, you need to manually retune every time you QSY not only from one band to another but within a band. I know Alex Grimberg, PY1AHD, the manufacturer of the AlexLoop, is working on a remote automatic tuning system to be marketed in the near future and some hams have home brewed their own automatic tuning system, but for now manual tuning is the only choice available for most of us.

One word about the TSA and ham radio equipment is in order. I have carried the FT-817 and/or the KX3 either as a carry-on item or in a checked-in luggage many times. I can count only a few times when the TSA agent asked me to take out and show the radio, but have never had a problem all these years in getting through security. I carry a copy of my ham license and a copy of the CEPT rule page regarding the reciprocal ham radio operation. The latter is downloadable from the ARRL website and is written in three languages. But I have never been asked to show them even though the CEPT rule stipulates that you have it available at all time. I had a lot more trouble with my CPAP ("breathing") machine which I always need to carry for my sleep apnea. You would want to take a set of screw drivers and a plier and any number of all-in-one tools are available. But the TSA does not look at a Swiss Army knife kindly if you have one in a carry-on bag. I have settled on a small foldable all-in-one tool available in a travel store. It does not have a knife blade, however.

For overseas travel or cruising you would need to deal with different AC source voltage and different plugs. 220-240v is the most common voltage in the world (I wonder why the US and Japan insist on 115 and 100 respectively? Why have we not switched to metric system for that matter?) and AC plugs are different in different countries even when voltages are the same, e.g., the UK and most continental Europe use different plugs. You would need to check the local voltage and plug before you go abroad. Most modern equipment which uses AC power supply can automatically adjust between 100-120 and 220-240 range, but not all of the appliances. You may need a trans-

*(Will Travel — Continued on page 5)*

*(Will Travel — Continued from page 4)*

former if your equipment is built only for the US voltage of 115. The Norwegian boat I was on had the common Continental European plug and 220v AC.

Finally, I wish to turn to the special pleasure and advantages of operating /MM. You may have heard the term "sea water amp," which refers to the powerful effect that the proximity to the large body of sea water has on your radio signal transmission. The effective radiated power is greatly enhanced when you transmit your signal near or on the sea water. I have often felt that my 2.5 watts from the Palo Alto's Bayland Preserve, which sits in the middle of the San Francisco Bay seawater marshland, produced more powerful signal than my 500 watts into a G5RV wire antenna from my former home in Portola Valley. I had many JA and VK contacts from the Bayland with 2.5 watts either with a vertical or mag loop antenna when the band condition was good. Several of our QRP club members regularly operate from that particular location. Operating /MM takes advantage of this sea water amp effect. You would likely receive surprisingly good signal reports with low power.\* (\*Three of our QRP club members have operated from various locations in the Death Valley National Park. At one time I operated from the middle of Bad Water basin sitting on the giant salt bed which is a dried lake. That QTH is 281 feet below sea level, the lowest point in the western hemisphere. I had one of the best QRP operations there, including a few good DX. Another favorite QRP operating QTH of ours is Jalama Beach park about 50 miles north of Santa Barbara. We operate right on the beach. At one point my friend Dave, W6VYC, was operating about 20 feet from the water's edge and I at about 50 feet from the water's edge. Both of us were using the KX3 and ground plane verticals. Dave shouted at one point that he heard a loud JA station on 17. I could barely hear him. But when I moved my antenna very close to the water's edge, about 10 feet, the same station's signal jumped up. The moral of the story is that one should operate as close as possible to the water's edge.)

The other thing you notice when you are operating near the sea water or on the ocean is that the noise level goes down considerably unless there are nearby interfering RF sources. Occasionally

the band is so quiet and you don't hear any noise between stations as you move your dial you might think that something is wrong with your radio.

Operating /MM or in a DX land with a US call followed by "MARITIME MOBILE QRP" or "POTABLE OE1" (or in the case of CW operation, "OE1/AH6CY QRP") and such commands curiosity, thus raising chances of having a QSO. It can at times create a small pileup. Interestingly, I have received emails after QSO from a number of SWLs requesting my QSL card. Amateur radio SWLing is still popular in Europe. These SWLs are often studying for a ham license and treat SWLing as a stepping stone, as it was once the case in the US and Japan. The US ham licensing exam has become much easier recently (dumbed down as some say) but obtaining a ham license is much more difficult in Europe and some countries haven't even dropped the CW requirement for the higher class license. By the way, the CEPT countries do not allow full privilege of operation if you do not have the US Extra or Advanced class license. The US General class is regarded as the equivalent of the entry class license in Europe and the Technician class license does not allow any reciprocal operations.

As you see above, the /MM operation has some great advantages that you don't have on land. You are far more likely heard and can be a target of curiosity. Because of these reasons I call CQs more than I do when on land or in home QTH. The situation calls for a different strategy. When I am QRP I generally do not call CQs much but instead spend a lot of time listening looking for right stations to call or waiting for a right timing to insert my call.

I hope many readers will have an opportunity to try /MM QRP. I guarantee that you will have a great time.

-end-

ps. Since this article was completed I had another /MM QRP operations from the Queen Mary II sailing from New York to Southampton. The condition was not as good as on the Norwegian coastal cruise but I had fun nonetheless.

*(President — Continued from page 1)*

we're missing is operators. We need lots of BIC (butt in chair) time to fill out the entire 24 hours of operation. We could use your help. Please contact Doug or any of the station captains (N6DQ, W6NEV, N6DB, and K6WX) to schedule some time. We had over 100 combined minutes of station idle time last year. If we can fill that with Qs, our score will be even better. I hope you can join us at the premier West Coast FD station and proudly call CQ for W6ARA this year. Field Day is June 27-28. You can meet us at Bedwell Bayfront Park, right at the junction of 84 and Marsh Road in Menlo Park. I hope to see you there!

Propagation hasn't been that great over the last couple of weeks. Right now the Solar Flux Index is only 97 and the Sunspot Number has been averaging about 70. Those are very low numbers for where we are in the solar cycle. The good news is that there were a significant number of sunspots about 4 weeks prior to Field Day. That means there's a chance that some of those sunspots will rotate back into view around the end of June. If that happens, we might have some usable propagation on 10 meters. 10m can be a really productive band if there is some F-layer support. Usually E-layer skip is too fickle to support much contest operating. We will have 10m capability this year on the off chance that the band might be usable, but time will tell. We will have to monitor the band as we operate to see if there will be significant activity there. Regardless, FD has a way of creating its own propagation. There are lots of stations on the air and lots of willpower to work through whatever CONDX there are. I suspect that we'll have as many contacts as we can handle, with good OPs in the chairs.

I've heard from PAARA VP Marty, W6NEV, that there is another PAARATrip in the offing. It probably won't be firmed up and announced for a while yet, but something is in the works that I think you will all enjoy. I hope you are all looking forward to another chance to have some fun with your fellow PAARA members.

Well, that's it for this month. Sadly, I won't be at the meeting to see you all since I won't be back in time. Rest assured, though, that you will be in good hands with a mystery sub. You'll just have to come to the meeting to find out who it will be. TAKE CARE ES CU ON THE BAND DE K6WX

## May 20, 2015 Board Meeting Minutes

The April Board Meeting was held at the Menlo Park 'Round Table Pizza Parlor, commencing at 7:21 PM on May 20<sup>th</sup>, 2015. In attendance were Kristen McIntyre, K6WX (President), Marty Wayne, W6NEV (V.P.), Jim Thielemann, K6SV (Secretary/Membership), Ron Chester, W6AZ (Treasurer), Darryl Presley, KI6LDM (Dir), Larry Rebarchik, N6DB (Dir) and non-Board Members, Doug Teter, KG6LWE (Field Day Coordinator), Gerry Tucker, N6NV (Property Manager); PAARA members, Garry Barnes, KI6HIG, Rick Huisman, N6DQ, Bob Korte, KD6KYT, and Chuck Hein, N6BO. A quorum was present.

President's Report: Kristen, K6WX, reported that she and the board are looking for a member or members to represent PAARA at ASVARO board meetings and possibly sit on their board. At a meeting with Mikel, KN6QI, a couple of weeks ago it was learned that PAARA currently doesn't have a representative attending the meetings and that there are 2 vacancies on the ASVARO 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.

She also reminded everyone that the Flea Market, which PAARA sponsors this month, is on June 13<sup>th</sup>. She's in need of volunteers to help with all aspects of the event. If you want to get an early start on checking out what's for sale, come early and help setup the sales area. Other opportunities include staffing the sales area, monitoring the activities, taking down the sales area, and helping with cleanup. Let Kristen know of your interest to participate.

Kristen indicated her reserve of stories is reasonable but always in need. Have you committed to a story but not submitted it, do you have any projects, like those for home brew night in January, technical articles, hints n kinks, DX, setting up your station or antenna, on the air experiences that might be of interest? It's time to put pen to paper or exorcise the demons out of your word processing program and get one submitted to Kristen.

*(Minutes—Continued on page 7)*

*(Minutes — Continued from page 6)*

Vice President's Report: Marty, W6NEV, reported that the speaker for June is John Miller, K6MM, who will inform us on the K1N DXpedition to Navasa Island. He also reported that the July speaker is Paul Wesling, KM6LH, who will talk about the history of Silicon Valley as it relates to Hams. Marty is still looking for speakers for the rest of the year. If you have any ideas, let him know.

Marty mentioned the PAARA special edition 2015 Field Day shirt sales will close on 5/22/15. At the time of the meeting the total sales were just under the minimum needed. The board voted for PAARA to purchase shirts needed to meet the minimum. As of this writing, enough shirts have been sold to meet the minimum.

Secretary's report: Jim, K6SV, reported that currently there are 149 PAARA members. The total of PayPal renewals now totals 128 and the total for this year almost matches the total number for last year. He also reported that he'll not be at the Flea Market or at the next Board Meeting as he'll be away on business.

Treasurer's Report: Ron, W6AZ, reported that the club's finances were in fine shape and that there were no badge or membership renewals last month's meeting.

Under Old Business, Doug, KG6LWE, commented that he's still looking for a GOTA captain for Field Day. There are a couple of other positions that need to be filled but this is the most important one. Please let Doug know if you'd like to help in any way with Field Day. That includes operators, especially for the night shift. Doug hopes to have an antenna party at his place the weekend of May 30<sup>th</sup>. He'll be sending an email out to the FD team.

Rebar, N6DB, mentioned that the club's PE-95 generator is still for sale. He's looking for someone who is interested in purchasing it. Let Rebar know if you know of anyone who might be interested.

Marty, W6NEV, advised the board that he's looking into another field trip, possibly involving a train. He'll advise the board once he has more information. He also found a new source for side panels which fit the club's dining shade. The

board voted for him to purchase 4 side panels.

Gerry, N6NV, reported on the Club Repeater shack progress. The piers are in place and the floor framed. The materials are on site for everything but the roof. He's hoping to get started on the walls in the next week or two.

Under New Business, Rebar, N6DB, mentioned that Flicker is offering 1Tb of photo storage for free. Kristen will look into setting up a PAARA account.

The Board meeting was adjourned at 8:09 and was immediately followed by a Field Day meeting.

Jim Thielemann  
Secretary/membership  
K6SV

## August PAARATrip

Whoop, Whoop. She'll be coming 'round the mountain when she comes!

August 30, 10:30 AM, join us for a ride on the Niles Canyon Railway through beautiful Niles Canyon in a private caboose. There will be a picnic and BBQ at the Fremont Central Park/Elisabeth Lake after the ride.

The cost is \$25 per person. The caboose capacity is 28. Reserve your seat early or you may miss out. If you do miss the train ride, join us for the BBQ at Lake Elisabeth. Cost is \$5 per person.

This is a drive yourself tour. There appears to be plenty of parking at the Sunol depot but carpool if you can. Much more fun that way.

## June 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 Lido LM801 EXP HT Cup Holder**



### PAARA 5/1/15 Raffle Prize Winners

Left to Right Order

- 3<sup>rd</sup> Prize Aaron / Guest / Atlas Map Book  
 5<sup>th</sup> Prize Doug Teter / KG6LWE / Pocket Reference  
 2<sup>nd</sup> Prize Tony Kooij / W6AWK / Two FRS Radios  
 4<sup>th</sup> Prize Tony Kooij / W6AWK / LED Headlight  
 1<sup>st</sup> Prize Doyle Kisler / KG6YUN / Kenwood TM281A / 2m Mobile Transceiver  
 7<sup>th</sup> Prize Joe Saugier / AG6CZ / Bongo Ties  
 6<sup>th</sup> Prize Gerry Tucker / N6NV / Color Ties (not shown)

- 3rd MFJ Mag Mount**

- 4th World Atlas Map Book**

- 5th ARRL Pocket Reference**

- 6th Bongo Ties**

- 7th ARRL Lanyard**

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Photographer .....	Bill Young, K6VWO	
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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](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.k6ya.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: 441.35 (+5.0) 88.5 ctcss  
 147.39 (+600) 151.4 ctcss 1286.20 (-12m) 100.0 ctcss  
 223.96 (+1.6) 156.7 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)

## American Red Cross, Santa Clara Valley Chapter

Contact: <http://santaclaravalley.redcross.org> or Scott Hensley KB6UOO, (408) 967 7924  
[shensley@Novell.com](mailto:shensley@Novell.com)

(Please send changes to [PAARAgaphs editor](mailto:PAARAgaphs editor))



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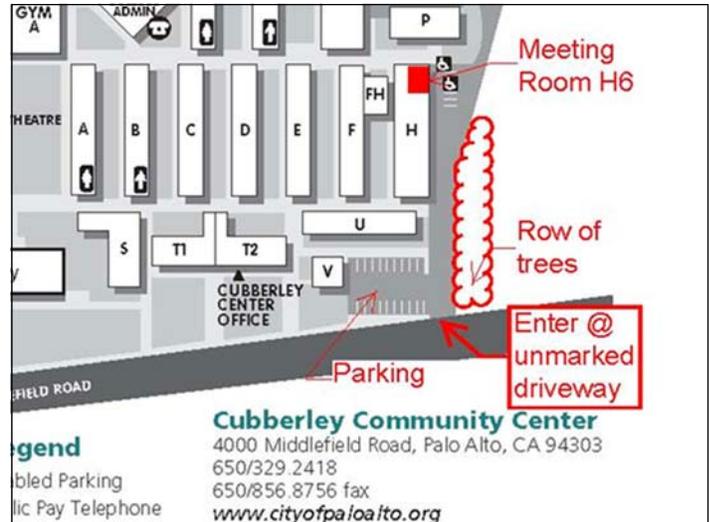
If you would like to  
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**Doug Teter, KG6LWE.**

## 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 - N1VSL
4 <sup>th</sup>	Marty - W6NEV
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  
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 Alto. 4000 Middlefield Road**

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

Vladimir Vladimirovich

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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,  
 which includes one subscription to PAARAgaphs  
 \$6 for each additional family member (no newsletter).

Make payment to the  
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<p><b>RADIO IN THE PARK</b></p> <p>9:30am - 12:30pm Check Back In the Spring</p> <p><b>QTH:</b> Agnews Historic Park 4030 Lafayette St. Santa Clara, CA 95050</p> <p>N 37° 23.549 W 121° 57.297</p>	<p>Ilse Beck, E. A. , KI6IBM</p> <p>Beck Business Services</p> <p>441 N. Central Avenue, #9 Campbell, CA 95008</p> <p>Enrolled Agent Income Tax Bookkeeping/Payroll Elder Care Consultations Billing and A/R</p> <p>Phone/FAX: 408-267-8234 Email: ilsebeck@jps.net</p>
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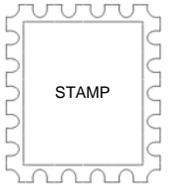
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# PAARAgaphs — June 2015

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