

PAARAgraphs



The Official Newsletter of the

Palo Alto Amateur Radio Association, Inc.

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



The Modernized Global Positioning System (GPS III)

Arthur Lange, W6RXQ

What is all this talk about GPS III?

Arthur will discuss how it works and what other countries are doing for their own Global Navigation Satellite Systems (GNSS) including Russia, China, European Union, and Japan.

Arthur was first licensed in 1954, as a novice class with the call KN2OQQ in New Jersey. His current license is Amateur Extra. Arthur's primary Ham Radio interest is playing with microwaves. He is one of the founding members of the 50MHz and Up Group.

Arthur has been with Trimble since 1985, working on a variety of GPS receivers and systems for agricultural applications including GPS steering assist for farm vehicles.

Feb 7, 2014 — 7:00 pm

**Cubberley Community Center, Room H-6
4000 Middlefield Road, Palo Alto, CA 94303**

Donation by Mr. Joe Barta

The PAARA Club thanks Mr. Joe Barta of Palo Alto for his very generous donation of the following equipment:

- Kenwood TS-570D 100 Watt HF Transceiver: 500 KHz to 30MHz W/mike and Power Cable

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President's Corner

February 2014



It's well into the new year now and we've just finished the Winter Banquet at Michael's at Shoreline. I hope you've had some time to get on the air. We have a trip coming up, and we also have the Spring Contest Season on the way before too long. The Yuma Hamfest is also coming up this month.

As many of you have probably heard, it's been a difficult few months for me and my family. I generally don't like to make a big deal of such things, but I did want to take this opportunity to thank all of you for your well wishes and support as I went through this loss. I have a very small family, particularly here on the West Coast, and it's great to know that my extended ham radio family is here with me. Thank you everyone.

I hope that you had some time to attend the FARS/PAARA Winter Banquet at Michael's at Shoreline on January 17th. I might not have had a chance to talk to you, since I don't usually get all the way around the room. If you missed it, we had a great time seeing all of our friends and having a post-Holiday shindig with a ham radio spin. We topped it off by hearing all about

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2014 PAARA Field Trip

Military Vehicle Technology Foundation

When: Sunday, March 16, 2014

Where: Portola Valley CA

Times: 10AM and 1 PM

Cost: \$20 per person donation at the site.
\$10 for children under 12 and seniors over 65

Come join us on a field trip to the Military Vehicle Technology Foundation (MVTF). Learn about the many and varied types of military vehicles and the process of restoration from discovery of a vehicle to the final result. MVTF has a collection of over 240 vehicles.

There are two tour times, 10 AM and 1 PM. The 10 AM tour can accommodate 32 people and the 1 PM, 34 people. The tour takes about 2 hours. Because of limited parking space at MVTF site, we encourage car pooling. A good place to meet for car pooling is at the Cubberley Community Center, 4000 Middlefield Road, Palo Alto. There is ample parking in the Cubberley main parking lot to the East of the facility (directly across from Montrose Ave). Directions will be posted to the parking lot and the MVTF site on the PAARA website when available. This promises to be a fun and interesting field trip.

To reserve a spot please contact Marty at w6nev@arrl.net or call me at **408-234-8023**. Give your first and last name, your call, how many are coming, and whether you want the 10 AM or 1 PM tour. If you sign up, please show up. We are responsible for all reservations whether they are used or not.

Marty, W6NEV

CQ CQ AF6IM Parachute Mobile on 3885 AM QRP

By Mark Meltzer, AF6IM, Jumper 1

I have always enjoyed playing with surplus radio gear. The obsession started sixty years ago at age 4 when my nursery school received a large load of brand new BC 604 tank transmitters for kids to play with. The other children tired of the radios quickly, but I didn't. Using pliers and screwdrivers I took several completely apart and constructed hybrid imaginary comm devices out of the combined pieces. I was obsessed with war at that age and called in endless fantasy air strikes on Nazi positions using my "home brew" gear. My nursery school teacher was a pacifist and tried unsuccessfully to redirect my violent radio dialogues. I wasn't interested in talking to Gandhi; I wanted to blow things up.

Life went on, but I never lost my taste for surplus radios. A few months ago, Bob Burmeister AG6QL, showed me his working mint condition BC 611 WW2 handie talkie. Normally I like old radios with lots of dials, switches, knobs and meters. The BC 611 had not even one of these features. Nevertheless, I was intrigued by its utter simplicity and just had to have one of my own. Bob and his son helped me in that endeavor and I obtained a working BC 611 just in time for our Pacifcon 2013 parachute jumps scheduled for Oct 12.

The BC 611 is a marvel of minimalist engineering design and uses only 5 tubes to accomplish superhet receiving and AM transmitting. The only overly complex part of the BC 611 is a very elaborate multi contact mechanical TR (PTT) switch which dashed my hopes of an easy relay conversion to allow use of an external PTT mic. It has one crystal controlled channel in the 3.5-6.0 MHz range and operates in AM mode only with 360 mW of RF power. My only non-original component is a solid state DC-DC converter which provides the 103 volt B+ voltage for the tube plates. It is made by a ham in Italy and fits perfectly inside the battery case taking the place of the original multicell B battery. It is powered by D cells.

For a good article on BC 611 specs, circuitry with photos of the interior and exterior see: http://www.greenradio.de/e_bc611.htm.

Fast forward to the morning of October 12. Our Parachute Mobile ground team is at the DZ in Byron helping me prepare for the jump. Jim Wilson, a li-

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censed parachute rigger, carefully checks the safety of my jury rigged BC 611 carrying case and safety tether. One misrouted tie wrap or wire can prove fatal if it interferes the parachute gear, especially the cutaway mechanism for emergency release of the main chute. Our team uses lengthy pre-jump safety checklists that are printed on laminated cards prepared by our team leader Rob KC6TYD (Jumper 3). Rob's cards look exactly like the ones used by military pilots and even include the same border design. Despite the proven effectiveness of written checklists in aviation, we are apparently the only folks in skydiving who use them.

A few "normal" skydivers crack jokes about my "antique cell phone" as I stow the monster HT in its canvas case in preparation to board the plane. It does resemble the old Motorola "brick" phone quite a bit which may be no coincidence since it was designed by the Galvin Corp, which later became Motorola. Perhaps later designers at Motorola were tipping their hat to the company's BC 611 heritage when they designed their famous "brick".

During the climb I communicate on 2 meters with our team members sited at the DZ and Mt Diablo. My ham gear payload includes APRS telemetry gear designed by Mike NE6RD that reports my position, altitude, speed and also heart rate and blood oxygen level. When I started jumping in 1968, large loads were carried by DC 3s, Lockheed Lodestars and other piston engine transports which often took 40 minutes to reach 13,500 feet. Today I'm riding in a twin turboprop King Air C 90 aircraft that climbs more than twice as fast. Before long the plane is on jump run and I start focusing on that heart stopping leap that I'll be making in a few seconds.

I've been a skydiver for 45 years. I've jumped from airplanes many hundreds of times. I still feel a cold chill of fear and that addictive massive surge of adrenaline when standing at the open door, hearing that freight train roar of the slipstream and looking down at the ground miles below. Despite attempts to appear nonchalant, jumpers know that once they leave the plane, their remaining lifespan is about 70 seconds unless they perform a number of tasks correctly and in the proper sequence. Gravity is a lurking killer that preys on unlucky or careless jumpers. Deploying a parachute and landing it safely are your only means of self-defense. You are betting your life on nylon, thread and the ability to keep a cool head. Part of the thrill of skydiving is doing battle with the Grim Reaper and winning. On the less morbid side,

it's really not difficult to do things right with modern skydiving gear, as long as you don't panic. Also, we have a plan B, a reserve parachute. The old military surplus parachute gear used in the 60s and 70s was not well designed for sport use and many deaths were attributable to that shortcoming.

One last check of harness straps and emergency handles and then out the door staying low to avoid striking the King Air's horizontal stabilizer which is uncomfortably close. Serious injuries and deaths still occur from skydivers who forget the warnings, leap up when exiting a C 90 and hit the stabilizer. I free-fall for a few seconds to get into a stable position for chute deployment and open at about 13,000 feet. I love the sound of my main parachute deploying at sub terminal speeds. It's a combination of ripping and crackling sounds as I watch it unfold and inflate. It sounds like canvas ripping with a staccato chorus of firecrackers in the mix. Fortunately the ripping sound is an acoustic illusion and everything remains intact. It is a nice day and temps aloft are not chilly. Jim Wilson exits right after me and deploys nearby. I see several aircraft below us but none poses a collision hazard. The entire Sacramento River Delta system and SF, San Pablo and Suisun bays are visible and look gorgeous. What an incredible ride for only \$22.

After completing my parachute gear safety checks, I remove my helmet, stow it, unzip the BC 611 canvas carrying case affixed to my harness, remove the 611, extend the antenna and start calling. There is no volume control or even a power switch. To turn it on you just extend the antenna. Acoustic sealing on the headphone is adequate and I have no trouble hearing. All I hear, however, are very weak voice signals and some weak clashing carriers, nothing intelligible despite my best listening efforts.

I keep trying down to about 9000 ft, calling and listening. I am beginning to think my receiver isn't working properly when I hear Rebar N6DB transmitting from the Stanford club station. N6DB booms in very loud and crystal clear on 3885 KHz AM. He is about 45 miles away but can just barely hear a carrier from me, not enough for a real QSO. I continue to hear other very weak unintelligible sigs from stations trying to contact me. I had dreams of numerous 75M AM parachute mobile QSOs but it just isn't in the cards for this jump. It is frustrating but at least we confirm that a BC 611 can be operated under parachute.

Bob AG6QL and his son Bob K6CBB really helped

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AF6IM operating the BC 611 was shot by RCAF Capt. Jim Wilson who was flying his parachute in formation with Mark.

out getting a BC 611 for me on short notice and loaning me a rare genuine Army canvas BC 611 case to carry it in. They came to the DZ and did copy me very weakly on their BC 611 during my descent. I was unable to copy them clearly enough to claim a legit QSO however.



Bob Burmeister, AG6QL, at the drop zone working AF6IM

I had a sked to work the ARRL Pacificon hams during the jump on VHF so at about 8800 feet I stow the 611, put my helmet back on and make some 2M FM contacts with Parachute Mobile ops at the DZ

and on Mt Diablo using my trusty Kenwood TH F6A HT. What is odd is that I can see all the way to San Jose but am unable to work Pacificon. All I hear are weak garbled calls. I noticed during our climb that there was a razor sharp haze layer cutoff at about 6000 ft. I wonder if there is a temp inversion that is reflecting signals and preventing Pacificon contacts.

Jim and I finish our formation photo shoot and head back towards the DZ which looks far away. Winds are steady and light giving us ideal conditions for landing. Both of us make soft stand up landings on the DZ and are greeted in the field by Michael Wright K6MFW who hands us cold ice cream sandwiches. It's a warm day and the treat is most welcome. Michael is also a skydiver and knows how nice it is to have something cool and refreshing after you land. If it's the last jump of the day it's usually a beer but since we aren't done jumping we settle for something less intoxicating. We gather up our chutes, amble over to the Parachute Mobile ops area and watch Michael KF6WRW gear up for a live video jump. He is carrying 2.4 GHz analog video gear as well as VHF comm and APRS gear. Michael is quite the "maker" and has printed a custom video camera helmet mount using a 3D printer. The winds are starting to pick up steadily and we know Michael's jump will probably be the last for the day.

I meet with Bob AG6QL and we review the jump comm issues. The BC 611 with the OE antenna apparently doesn't have enough radiated power for reliable 75 meter HF comms from aloft. Its transmitter stage power is around 360 milliwatts. The telescoping antenna when fully extended is only about 30 inches long. Radiated power is probably under 200 milliwatts.

I don't think we can overcome the noise on 75M at any appreciable distance with such low radiated power from the BC 611 using the OE whip. It will likely take a trailing wire antenna to make it work for parachute mobile QSOs. Our jumpers have used jettisonable trailing wire antennas for 20 M PSK 31 beacon flights (Michael KF6WRW, Jumper 2) and VHF SSB work (Mark AF6IM, Jumper 1). The reason we release them (done at about 1500 feet above clear areas) is to eliminate the chance of a jumper dragging one across a power line on approach during an unexpected off DZ landing.

I won't give up though. Another BC 611 jump will be done, using a more efficient antenna. I am even thinking about carrying a surplus PRC 74 xcvr aloft someday and trying HF SSB QSOs. Thanks to all

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the patient hams who tried to work me on 3885 KHz AM QRP. I am sure we will have better luck next time.

Our group website is www.parachutemobile.com

AF6IM can be emailed at af6im@arrl.net

January 2014 Board Meeting Minutes

The Board Meeting was held at the Round Table Pizza Parlor in Menlo Park, commencing at 7:50 PM on the 15th of January, 2014. Attending were Kristen McIntyre K6WX (Pres), Marty Wayne W6NEV (VP), Jim Thielemann KI6KVV (Sec, Database), Darryl Presley KI6LDM (Dir), Larry Rebarchik (Dir) N6DB, Byron Beck (Dir) KG4UOB, Rob Riley (Dir) KI6INR; and non board members, Rick Melrose K6RDM (Chaplain), Joel Wilhite (Technical Coordinator) KD6W, Gerry Tucker (Property Manager) W6AZ, Vick Black (Technical Tips) AB6SO. A quorum was present.

President's Report: Kristen, K6WX, reported that the January 3rd General Meeting had a modest attendance. There weren't as many home brew projects presented as hoped but the ones that were shown were of interest to the majority of attendees. She also reported that PAARA continues to be recognized as the friendliest club around. At this point the board will continue to meet at the Round Table Pizza Parlor until another location is found.

On a continuing theme, 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.

Vice President's Report: Marty, W6NEV, tells us that the presentation for the February meeting will feature Art Lang, W6RGQ, on GPS 3. Marty also indicated he's got a couple of speakers lined up and a couple more in his sights but is looking for additional ideas from the member-

ship. He reminded the board that PAARA's will once again participate at Pacificon hosting the W100AW/6 special event station. Marty will start attending the MDARC Pacificon meetings and is looking for interested parties to help in station activities during Pacificon.

Secretary's Report: Jim, KI6KVV, reported that there were 5 new members and twelve renewals at the January 3rd meeting. He also reports that there are 90 2013 members and 78 that have renewed for 2014 bringing the total to 168 current members. He also mentioned to date 24 members have renewed through PayPal.

Treasurer's Report: Ron, W6AZ, wasn't present due to overseas travel. Kristen will look into having the backup treasure fill in at meetings Ron's not able to attend.

New Business, under the heading of "exploration work", Kristen indicated work is continuing to attempt to revive AmTech Day or something like it. The board voted to express full support of any such event should the revival be successful.

Rebar indicated he had the needed volunteers to take down 4 sizeable beam antennas from the tower of W6RGG on January 25th. One of the antennas will remain; the other 3 will become part of the club inventory.

Joel came upon a new sponsor for the club on a long flight from the East coast. During the flight he struck up a conversation with Ron Cordas of Rescue Tape. Ron has donated a number of rolls for our raffle and has expressed a desire to offer a discount to club members. The details of the arrangement are being worked out.

Marty and Kristen announced the next field trip. The plans are quickly coming together but it looks like the trip will be on March 16th to the MVTF (Military Vehicle Technology Foundation) in Portola Valley. Watch out on our web site for more info as the limited number of spots will fill up quickly.

The meeting was adjourned at 9:30 PM.

Jim Thielemann, KI6KVV

PAARA February 7, 2014 Raffle Prizes

1st

Wouxun KGU3D-2-UHF HT Transceiver
 2M/440 DUAL BAND HT 128 Memories
 1700mAh LI-ON BATTERY

2nd

Diamond SRH77CA HT Antenna

High quality, high gain + receive up to 900 MHz HT antenna. Increase the performance on your handheld or wideband scanner with a Diamond® SRH Series antenna. Specifications:

Bands: 2m/70cm + receive up to 900 MHz

*Gain (relative): +6dB

Watts: 10

Height: 15"

Connector: SMA

3rd

Battery Tender Junior Charger

Perfect for all lead-acid, flooded or sealed maintenance free batteries (AGM and gel cell).

* Complete 4-step charging program (Initialization, Bulk Charge, Absorption Mode, Float Mode).

* Automatically switches to float / maintenance voltage after fully charging the battery.

* If the battery voltage drops too far under load, full charger output power resumes.

* Solid state two color LED indicates stage of charger.

* Reverse polarity protected.

4th

LM 801 EXP HT "Cup Holder HT Mount"

5th

Two FRS Radios

6th

ARRL Repeater Directory 2012-2013

7th

Bongo Ties





PAARA 1/3/14 Raffle Prize Winners

- 1st Prize / Dominic Cassarino / N6NSA / Arrow Yagi
- 2nd Prize / Kristen McIntyre / K6WX / Alpha Delta 2B Coax Switch
- 3rd Prize / Norma Chamberlain / KK6HAF / MFJ 24/12 Dual Clock
- 4th Prize / Doyle Kisler / KG6YUN / Two FRS Radios
- 5th Prize / Joel Wilhite / KD6W / LED Lite Flare
- 6th Prize / Daniel Rahamim / KJ6SEE / ARRL Repeater Directory
- 7th Prize / Dave Cooper / K6WA / Bongo Ties
- 8th Prize / Norma Chamberlain / KK6HAF / “Radios to Go” Book
- 9th Prize / Paul Laughton / AC6B / DX Zone Map

(Donation — Continued from page 1)

- Astron TS-35A DC Power Supply
- Yaesu VX-5R VHF/UHF Hand Held Transceiver W/auto car power adapter and rapid charge base
- W.M. Nye Low Pass Filter
- MFJ-816 HF SWR/Watt Meter
- Daiwa CN-101L 1.8 to 150 MHz Cross Needle SWR/Watt Meter. Appears unused.
- Cable Experts CXPC3XC100 TG8X Coax, 100 Ft. Appears unused.
- Thank you so much for your donation and support of our radio club.

Marty, W6NEV

(President's Corner — Continued from page 1)

how Elecraft started its business from one of its founders, Wayne Burdick, N6KR. Wayne and Eric have taken pretty divergent ideas of what they wanted from radios (something I didn't realize) and brought them together in a very interesting mix. Eric is more of a big radio guy, and Wayne is more of a QRP guy. The catalyst, though, was Field Day - something that PAARA members can relate to. It was a story of dreams, hard work, some luck, and friendship. I found it very inspiring, and I hope you did too. Lastly, we raffled off an Elecraft KX3, among other prizes. Carrol, KG6YPH, was the big winner. I'm sure he is having fun putting that thing together and getting it on the air.

We are putting together another PAARAtrip, this time to the Military Vehicle Technology Foundation. This is a military vehicle museum in Portola Valley. I think you'll really enjoy this. It's on a bit of short notice for us, since the dates that are available are only in mid-March. We have to split into two groups in the morning and afternoon. We'll be carpooling. More detailed information is available elsewhere in PAARAgaphs. I think you'll really enjoy this trip, so I hope to see you there. It should be a great time. As I understand it, this museum will be moving to the East Coast soon,

so this may be one of the last chances to see it before it's gone. Don't miss it.

It's still early in the year, but not too early to start thinking about the Spring Contest Season. Do you have the station tuned up? Are your antennas ready? Is the amp working right? Is the logging software working? Are you ready to put a few in the log? We are at the peak of the solar cycle for cycle 24, so why not log a few contest points, even if you're not going to participate seriously, while you have the chance. Starting in February, some the smaller contests begin anew, particularly the state QSO parties, and it's a great chance to get on the air. A great resource to keep abreast of the contest schedule is the WA7BNM contest calendar, which you can find at <http://www.hornucopia.com/contestcal/contestcal.html>.

I want to also remind you about the Yuma Hamfest coming up this month, on the 14th and 15th of February in ... wait for it ... Yuma, AZ. I've been invited to speak again this year, so I'll be there. It's a great hamfest, with the best raffle I've ever seen at a hamfest. Last year I had some Bay Area hams join me. Maybe you'll join me too. More info at <http://www.yumahamfest.org>.

Before Yuma, I'll of course, see you at the next PAARA meeting. Until then 73 DE K6WX.
Kristen (K6WX)

Badges Available at Meeting

| | | | |
|----------|--------|-------------|--------|
| Art, | KI6GYY | Joanne, | KI6JLS |
| Bud, | N6SN | Kali, | KG6QKO |
| Chuck, | KF6SR | Mark, | K6FTF |
| Cliff, | WA6PUX | Scott, | KI6QKM |
| Francis, | KG6QKN | Sreenidish, | KJ6GBE |
| George, | K6TSR | Vincent, | K6VVK |
| Henri, | KG6ZWO | Walter, | KK6GTU |
| Joani, | N6JCY | Xiande, | KJ4SGT |

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| Station Trustee K6OTA | Ron Chester, W6AZ | |
| Property Manager..... | Gerry Tucker, N6NV | |
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| | bob@rgktechsales.com | |
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| Historian Position | <i>Position Vacant</i> | |
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| Field Day Coordinator | Doug Teter, KG6LWE | 650-367-6200 |
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Future PARRA Meeting Dates

Mar 7th, April 4th, May 2nd

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.electronicflea.com/>

PAARA — Palo Alto Amateur Radio Association

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

FARS — Foothills Amateur Radio Society

Meets 4th Friday each month at 7:30pm
 Contact: <http://www.fars.k6ya.org>

NCDXC — Northern California DX Club

Meets 3rd Thursday 7:30pm each month,
 Repeater for member info 147.360, Thursday 8:00PM
 Contact: <http://ncdxc.org> or Mike Gavin W6WZ, (650) 851 8699

QCWA Chapter 11

Northern California Quarter Century Wireless Association

Meets third Wednesday monthly at Harry's Hofbrau in Redwood City @ 11:30 AM.
 Guests are welcome. Saturday morning net on 146.850 MHz, PL 114.8

50 MHz & Up Group

Meets 1st Thursday each month at 7pm in the Texas Instruments Building E conference room in Santa Clara.
 Contact: <http://50MHzandUp.org>

SPECS

Southern Peninsula Emergency Communication System

Meets each Monday 8:00pm on Net 145.27, 440.80 MHz
 Contact: <http://specsnet.org> or Tom Cascone, KF6LWZ, 650-688-0441

SCARES

South County Amateur Radio Emergency Service

Meets 3rd Thursday 7:30pm each month, Belmont EOC, Belmont City Hall, One Twin Pines Lane, Belmont CA 94002. Net is on 146.445 [PL 114.8] & 444.50 (PL-100) 7:30 Monday evenings. Contact: President Gary D. Aden, K6GDA 650-743-1265 (D), 650- 595-5590 (N)
 Web: <http://k6mpn.org> E-mail: pres@k6mpn.org

SCCARA

Santa Clara County Amateur Radio Association

Operates W6UU & W6UU/R, repeater 146.985-pl
 Nets: 2m, 7:30pm Mon; 70cm, 442.425+ (pl 107.2) Thur.
 Meets 2nd Mon each month @ 7:30 PM
 Contact: <http://www.qsl.net/scgara> 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
shensley@Novell.com

(Please send changes to PAARAgaphs editor)



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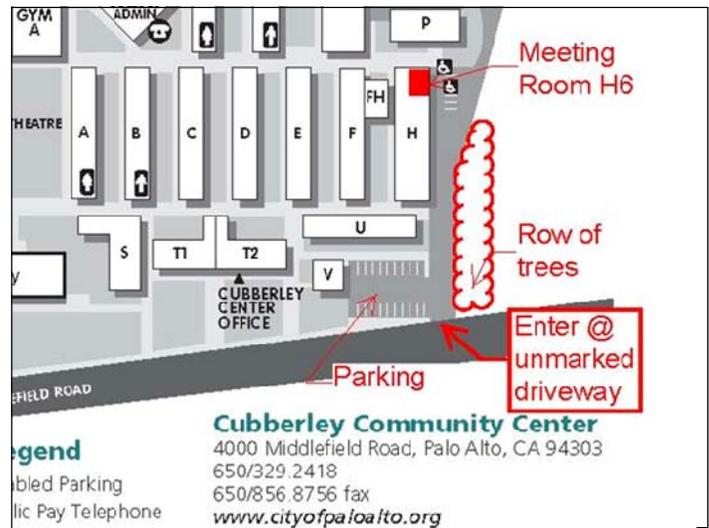
If you would like to
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Doug Teter, KG6LWE.

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 st | Open |
| 2 nd | Doug - KG6LWE |
| 3 rd | Jack - N1VSL |
| 4 th | Marty - W6NEV |
| 5 th | Up for Grabs! |

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**

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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
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Membership in PAARA is \$20.00 per calendar year,
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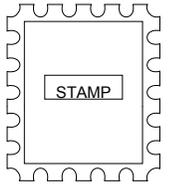
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PAARAgaphs — Feb 2014

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