

**W6OTX****W6ARA****PAARA NEWSLETTER**  
VOLUME 62, NUMBER 10, October 2012**K6OTA****K6YQT**

# PAARAgraphs



The Official Newsletter of the

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

## Exploring the Lunar Environment with NASA's LADEE Mission

**Brian Day**, of NASA's Lunar Science Institute will tell us how our understanding of the Moon is changing dramatically as a result of findings from a new generation of robotic lunar explorers. NASA's next mission to the Moon, the Lunar Atmosphere and Dust Environment Explorer (LADEE), offers exciting opportunities to greatly extend our understanding of the Moon's dynamic exosphere. It also offers students and the public exciting ways to participate in science supporting the mission through observations of meteoroid impacts on the Moon and meteors in the Earth's atmosphere. In this meeting, we will take a new look at the Moon, get an overview of the LADEE mission, and discuss the unique opportunities and challenges that could be provided by forward scatter radio observations of meteors by amateur radio operators.

**October 5, 2012****7:00 pm****Cubberley Community Center  
Room H-6  
4000 Middlefield Road  
Palo Alto, CA 94303**

## President's Corner

October 2012

The Fall contest season is here, and so is the equinox. Unfortunately, propagation has only been so-so, but don't let that stop you



from getting on the air. We also had our first PAARA meeting at the Cubberly Community Center. Were you there? And then there's CQP coming up soon. It's an exciting month.

As I write this we've just passed the Autumnal Equinox, and the nights are now longer than the days. Winter will bring less of an enhancement on the upper HF bands, but there will still be plenty of opportunity to work DX on the bands. You'll have to adjust your timing and expectations for the MUF, or Maximum Usable Frequency. At this moment, the solar flux index is at 139 and the sunspot number is at 113. Even with the days being shortened, this should support reasonable propagation. With the sun already down at 8pm, DX Summit ([www.dxsummit.fi](http://www.dxsummit.fi)) reports 20 meters being open to Russia from North America. In fact I see a 10 meter opening to Australia from the Northwest and from Canada. So, don't give up. There is DX to be worked, and propagation to work them with.

*(Continued on page 2)*

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In the next week and a half Team Trinity takes off for our county expedition to the radio-quiet land of Trinity County. You will hear us this time as W6T, and we have a website this year too: [www.w6t.org](http://www.w6t.org). We also welcome two new members (also PAARA members) to our team, Dave, AA6XV, and past PAARA President Andreas, N6NU. Dave and Andreas join Rick, N6DQ, Joanna, K6YL, Rhona, K6RHO, and myself in our cabin in the wilderness with more radios than ever and lots of power. We have a very elaborate setup this year, and we're trying to beat last year's score by a lot. It will be challenging, but we think we can do it. We hope to hear you on the air, and work you too. Listen for us on all bands, and on both SSB and CW simultaneously (!) this year. We'll bring back lots of pictures to show at the next PAARA meeting. Of course, this means that I will miss the next meeting, so PAARA Vice President Marty, W6NEV, will be your host on October 5th.

At the last PAARA meeting we made the big switch to our new venue at the Cubberly Community Center from the Menlo Park Recreation Center. I hope there was no confusion, and everyone made it to the new meeting room without a hitch. We had PAARA board member Rebar, N6DB, at the old site ready to direct you to the new location, however, he reported that nobody was there to redirect! That was actually good news. The new room was full, and I really enjoyed the homey atmosphere. I also was quite pleased with the acoustics, compared to rebuilt Rec Center. In fact, it reminded me very much of the Rec Center before it was rebuilt, with just the right amount of reverb and warmth. We are still working on what we will do about the screen, as the screen we had for that meeting was borrowed from Jim, KI6KVV. We will borrow it again for October, but the board has authorized the purchase of a new screen which will be mounted in the room. We are currently finalizing the details. After the meeting, we trekked up to the Roundtable Pizza and had our usual after-meeting get-together. It was a bit of a drive, but it was still well attended. Thank you everyone for making this a smooth transition, and thanks to the PAARA

board for making this all work. Great job everyone!

Lastly I want to remind all of you about the upcoming PAARA elections. David, KI6ZHD, is the Election Committee Chair, and will be handling the details. There will be an update at the next meeting. Also, we have been given the go-ahead for a new PAARASHOOT event. I have some details, but we still have to figure out a schedule, and a few more details. I'll miss you all in October, but hope to see you all in November with tales of adventure from Trinity. CU IN CQP DE K6WX

### Happening This Month

Hey! There's something huge happening this month, can you guess what it is? Well, CQP is one big event, but also Pacificon 2012 is taking place the weekend of October 14-16 at the Santa Clara Marriott Hotel. Not only that – the ARRL will hold its National Convention October 12-14, coinciding with Pacificon. So this year's event will be bigger. Even more important, PAARA members are contributing to this year's event:

- Kristen McIntyre, K6WX, will present "Maxwell's Equations in 45 minutes" on Saturday at 2:15 PM in the Golden Ballroom (Salon C). Will there be a final exam?
- Joel Willhite, KD6W, will present "Digital Amateur Television - Primer and Use Case" on Sunday at 10:45 AM in Salon A. Will there be live video?
- Parachute Mobile is back for the 3rd time on Saturday and, weather permitting, will start at noon for hams to have QSOs with Mark Meltzer, AF6IM, and Michael Gregg, KF6WRW, while they are descending under canopy over Byron Airport. The QSO frequency is 146.430 MHz simplex. Listen to the N6NFI and W6CX Mt. Diablo repeaters for up-to-date information. Parachute Mobile will have a display table with live streaming video at Pacificon.

There is much more happening at this year's Pacificon. Don't miss this exciting event. For all the latest details, please visit the Pacificon 2012 web site at: <http://pacificon.org/home.html>

## Palo Alto Amateur Radio Association, Inc.

PO Box 911 Menlo Park, CA 94026

### Officers

President .....	Kristen McIntyre, K6WX	510-703-4942
	kristen@alum.mit.edu	
Vice President.....	Marty Wayne, W6NEV	408-246-7531
	w6nev@arrl.net	
Secretary .....	Rick Melrose K6RDM	408-341-9070
	k6rdm@arrl.net	
Treasurer .....	Ron Chester, W6AZ	408-243 2221
	ron@taxhelp.com	

### Directors

Director (*13).....	Byron Beck K6UOB	408-369-1913
	kg6uob@arrl.net	
Director (*12).....	Rob Riley, K1GINR	650 799-1607 (cell)
	ki6inr@arrl.net	
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	n6db@arrl.net	
Director (*12).....	Darryl Presley, ki6ldm	650 255-2454
	ki6ldm@arrl.net	

### Appointed Positions

Membership .....	Vic Black, AB6SO	650-366 0636
	ab6so@smrn.com	
Database .....	Rick Melrose K6RDM	408-341-9070
	k6rdm@arrl.net	
Chaplain.....	<i>Position Vacant</i>	
Public Affairs.....	<i>Position Vacant</i>	
Station Trustee W6OTX, K6YQT, W6ARA	Gerry Tucker, N6NV	
Station Trustee K6OTA.....	Ron Chester, W6AZ	
Property Manager.....	Gerry Tucker, N6NV	
Fund Raising Coordinator..	Bob Korte, KD6KYT	408 396 4745
	bob@rgktechsales.com	
Badge Coordinator.....	Lynn Gentry, K6GJPV	
HistorianPosition.....	<i>Position Vacant</i>	
Raffle Coordinator.....	Jim Rice, K6AK	650-851-2274
Ticket Master.....	Marty Wayne, W6NEV	408-246-7531
Field Day Coordinator.....	Doug Teter, KG6LWE	650-367-6200
ASVARO Rep .....	Rolf Kliibo, N6NFI	650-856-2748
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Technical Tips.....	Vic Black, AB6SO	650-366 0636
	ab6so@smrn.com	
Photographer.....	Bill Young, K6VWO	
	jdsinger@sbcglobal.net	

### Future PARRA Meeting Dates

Nov 2<sup>nd</sup>, Dec 7<sup>th</sup>, Jan 4<sup>th</sup>

## 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](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 Menlo Park Rec. 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

## NorCalQRP — Northern California QRP Club

Meets 1<sup>st</sup> Sunday each month  
 Contact: <http://www.norcalqrp.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, San Carlos City Hall.  
 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)

## SCCARRA

### 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 223.96 (+1.6) 156.7 ctcss 1286.20 (-12m) 100.0 ctcss

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

## American Red Cross, Santa Clara Valley Chapter

Contact: <http://santacalaravalleym.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))

## It takes a small army

By  
**Jim Thielemann, KI6KVV**

During a recent PAARA meeting, we listened to the wonderful radio story on Field Day. In that report was a comment that “it took about 4 hours to set everything up”. Several of us “in the know” chuckled when hearing that. Maybe this would be true if you had enough people to setup everything at the same time, but that’s not possible. The thought occurred to me that maybe there were a larger number of people that really didn’t know what went into “setting everything up”. Let’s try to put some perspective on the effort it takes for PAARA to operate Field Day in the 4A class.

It all starts with a meeting of the radio station captains and several other key people at the conclusion of the prior years field day and after the points total has been submitted. A discussion on what worked, didn’t work, and what to consider for the next year’s event ensues. This meeting usually involves about 8 people and lasts around 3 hours equating to 24 man hours (MH).

Around March, an “antenna party” is held to work on antennas or whatever needs maintenance for the upcoming event. There are 3 to 5 of these parties through the upcoming months. Depending on what’s being worked on, it may even involve dragging the tower trailer out and erecting an antenna for testing. The final party also involves setting all the stations and computers up to make sure the network is working and each computer can “see” each other and control the radio they are assigned to. Each party usually has 6 to 10 people and lasts 6 hours. We’ll say the average number of participants is 8 equating to 48 MH per party. If there are 4 parties, that gives us 192 MH.

During the antenna party period, there are a 2 to 3 of meetings between the station captains and other key people, roughly 8 people. These meetings are to finalize the antenna plan, band plan, and make sure everything that needs

someone to attend to it has someone assigned to take care of the task. These meetings result in action items for everyone. The meetings alone equate to roughly 72 MH not to mention the time it takes to take care of the action items. For estimation purposes well say 8 hours per person or 74 man hours which totals 136 MH.

The week before Field Day a small number of people pick up the towers from their various storage locations, give them the once over and prep them with guy ropes etc. Food and other supplies for the event are purchased and prepped. These tasks equate to roughly 40 MH.

The Friday before Field Day weekend, the setup begins. We can’t start setting things up at the site until 10 AM but that doesn’t mean there is nothing to do. All the antennas, towers, support equipment, and supplies are loaded onto the trailers and trucks. Roughly 6 to 8 people work 2 hours to accomplish the task. There goes another 14 MH.

Leaving the staging area we travel the short distance to the site and start distributing the antennas and towers. Assembly of the antennas followed by the erection of all 5 towers follows. Late in the day 4 people go to pick up the U-Haul trucks. All this work doesn’t take many words to describe but takes upwards of 18 people. If all goes well, the setup is complete for the day by 5 PM. Thus another 105 MH spent assuming an average of 15 people.

The completion of setup resumes on Saturday morning by 8 AM with the goal of being complete by the 10 AM start time. Towers are extended, station captains set up each station, generators deployed, public info table setup, and the network made operational. Roughly 10 people or 20 MH are expended. NOW, PAARA is finally ready to make contacts. Hopefully all the preparation, testing, and setup pay off for another record year.

Oh, let’s not forget it takes another 8 hours work of another 10 people or so to take it all down and get the equipment back into the stor-

*(Continued on page 5)*

(Continued from page 4)

age locations for next year. This doesn't include the time it takes the captains to take their equipment home and get their own stations reassembled or the time to get the towers and other equipment back to the storage locations. We'll just chalk it up to another 80 MH of work.

So what does this all mean? If you've kept track, there are 611 MH spent on the event as outlined above. This equates to 67.37 man days (assuming an 8 hour day)! That doesn't include the actual MH spent during the 24 hours of the contest. But let's go back to the statement that started this all, "4 hours to set everything up". If we just looked at the time from Friday to the time we were ready to operate, that totals 139 MH or 17.37 man days. In order to do the work in only 4 hours, we'd need 34.75 people! Wouldn't that be nice, though due to inefficiencies of large crews working on small projects, we still couldn't get it done in that short of time. Now that I've figured all this out I'm not sure I REALLY wanted to know but it does make for some interesting conversation.

Oh well, that gives us something to shoot for eh? On behalf of Doug (KG6LWE), to all those who donated time, effort, and equipment to PAARA's Field Day event, THANKS for making this another great year!

73's

Till it starts all over again,  
Jim Thielemann, KI6KVV

## 19 SEPTEMBER 2012 PAARA Board Meeting Minutes

The Board Meeting was held at the Palo Alto Red Cross building, commencing at 7:40 PM on the 19<sup>th</sup> of September, 2012. Attending were Kristen McIntyre K6WX (Pres), Marty Wayne W6NEV (VP), Rick Melrose K6RDM (Sec, Database), Rob Riley KI6INR (Dir), Darryl Presley KI6LDM (Dir), Byron Beck KG6UOB (Dir), Larry Rebarchik N6DB (Dir), Joel Wilhite KD6W (Technical Coordinator) and Gerry Tucker N6NV (Property Manager). A quorum was pre-

sent.

President's Report: Kristen K6WX reported that the September 7<sup>th</sup> General Meeting at our new Palo Alto location at Cubberly High School was very well attended and that the space, acoustics and parking worked out very well. (Rebar commented that no one turned up at the Menlo Park Rec Center having to be redirected – speaks well of our group!). What's more, the presentation by our former club President, Joel Wilhite KD6W, on the fascinating subject of Digital Amateur Television was compact, comprehensive and fact-filled. If you missed it, Joel will be doing a reprise at the upcoming Pacificon convention.

Kristen told us that the October 5<sup>th</sup> General Meeting will feature Brian Day of NASA speaking on Exploring the Lunar Environment using Laser Technology applied to moon dust kicked up by meteor strikes. We'll be finding out how hams can actually participate in the project.

We have begun our election cycle for club officers for 2013 with the appointment of our Election Committee Chairman, David Ranch KI6ZHD. The Chairman with his committee is in the process of putting together the slate and will open the agenda with nominations in the October meeting. Nominations will close in November for the December election.

Kristen mentioned we still want to invite the general membership to give some thought to writing up any projects, technical subjects and tips or operating experiences that might be publishable in upcoming issues of PAARAgaphs. If you have any ideas let us know. We can provide writing help if needed.

Vice President's Report: Marty W6NEV Reports that we have a program in place for the November meeting and will finish out the year with the Dream to Reality feature for the December meeting and the Show and Tell home brew night for January.

Secretary's Report: Rick K6RDM reports that

(Continued on page 7)



Photo by Kristen McIntyre, K6WX

## Congratulations: September 7, 2012 PAARA Raffle Prize Winners

- 1<sup>st</sup> Prize: Rick Melrose / K6RDM / MFJ 4230 MV / 30 Amp Switching Power Supply
- 2<sup>nd</sup> Prize: Gerry Tucker / N6NV / Diamond / 2m / 7cm / Dual Band Mobile Antenna with MFJ Magnet Mount
- 3<sup>rd</sup> Prize: Shekhar Tipnis / KG6UEF / Powerwerx DC Power Analyzer
- 4<sup>th</sup> Prize: Jon Gefaell / K6OJ / Battery Tender Junior / 12 Volt Charger
- 5<sup>th</sup> Prize: Peter Chow / AF6DS / MFJ -281 Clear Tone Speaker
- 6<sup>th</sup> Prize: Darryl Presley / KI6LDM / Pocket Reference / Thomas Glover
- 7<sup>th</sup> Prize: Daniel Rahamim / KJ6SEE / Bongo Ties
- 8<sup>th</sup> Prize: Nicole Penner / KJ6WOY / Berry Pie / *Thanks Lodema!*

PAARA Members and Visitors: THANK YOU FOR YOUR SUPPORT of the exciting monthly raffles! Since (Feb. 2003), 239 Radios, including Five Elecraft K3's, a Yaesu FT-847, an Icom 706 MK IIG, a Yaesu FT-897D, and TWO Elecraft KX1's have gone to Fellow Hams, THANKS TO YOU!

PAARA had a remarkable year in 2012! If you aren't a member, please join PAARA now, and experience fun 2012 events with the "friendliest club around."

K6AK Jim

*Minutes (Continued from page 5)*

the minutes of the 15<sup>th</sup> of August Board meeting had been previously submitted and approved and that there were three new members and eight renewals at the September 7<sup>th</sup> meeting.

Treasurer's Report: Ron W6AZ was unable to attend the meeting due to other commitments.

Under New Business, consideration was given to the purchase of a suitable projection screen for the Cubberly meeting room. The board will be looking into appropriate specifications and costs. Also, regarding the prospect of a re-established PAARASHOOT, no news yet but we are still looking into the possibility. Plans are also in progress for the Winter Banquet proposed for January 18<sup>th</sup> at Michael's on Shoreline. Joel KD6W indicated that the best date for the PAARAFest would appear to be early October, probably the 6<sup>th</sup>. The date will be announced when set. Pacificon runs the 12<sup>th</sup> through the 14<sup>th</sup> of October. Kristen, Joel, Dean Straw N6BV and Leigh Klotz WA5ZNU are all scheduled to present this year. More details are available at Pacificon.org

Kristen thanked the team that worked on taking down a tower for Mary Prochnow and authorization was given for the possible purchase of an aluminum crank-up tower that has become available.

The meeting was adjourned at 9:10 PM.

There were three new members at the September meeting and one mail-in:

Michael Wimble	KM6WP	Sunnyvale
Joanne Petersen	KI6JLS	Palo Alto
Scott Petersen	KI6QWM	Palo Alto
Paul Ewing	N6PSE	San Jose

N6MLK	Matt	Cupertino
KJ6PVN	Josh	Castro Valley
KG6QKN	Francis	Palo Alto
KG6QKO	Kali	Palo Alto
KJ6SGT	Xiande	Campbell
KF6SRD	Chuck	Palo Alto
K6TSR	George	Portola Valley
K6VVK	Vincent	Palo Alto
K6WV	Jon	Cupertino
K6XOX	Nimit	San Jose

### October 5, 2012 Raffle Prizes

- 1<sup>st</sup> Yaesu FT-60R / Dual Band HT / 144-430 MHz / 5W / Wide Receiver Coverage / Emergency Automatic Identification (EAI) / Outstanding Audio**
- 2<sup>nd</sup> Heil Pro Micro Single Sided Headset / PMS-6 / HC-6 Broadcast Quality Mic Element / Suggested for Mobile Applications**
- 3<sup>rd</sup> Two West Mountain COM Speakers / RF Proof / Stereo / Amplified / with Audio Cables and UL Approved Wall Supply**
- 4<sup>th</sup> Kill-A-Watt / AC Usage Monitor**
- 5<sup>th</sup> ARRL Repeater Directory 2012-2013**
- 6<sup>th</sup> ARRL Repeater Directory 2012-2013**
- 7<sup>th</sup> Bongo Ties**

### Available Badges

K6FTF	Mark	San Jose
KJ6GBE	Sreendish	Redwood City
AG6GH	Lee	Redwood City
KG6GYG	Art	San Jose
N6JCY	Joani	San Jose



Kickoff Speaker With  
Breakfast Food  
Available for Purchase

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Banquet  
with Special  
Speaker



Latest  
Ham Radio  
Equipment

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Ham  
License  
Testing



# PACIFICON 2012

## ARRL National HAM RADIO CONVENTION

*Produced by the Mt. Diablo Amateur Radio Club*

October 12 - 14, 2012  
Marriott Santa Clara Hotel  
2700 Mission College Blvd  
Santa Clara, California

**GENERAL ADMISSION:  
\$23 IN ADVANCE - FOR ALL 3 DAYS!**

*Tickets at the door will cost \$28  
\* Some events are additional \**

If you need hotel accommodations  
either call Marriott Hotel Reservations at  
1-800-228-9290 by Sept 26, 2012 to ask for  
the Special Pacificon rate of \$109/night,  
or reserve your room on-line at  
[www.pacificon.org](http://www.pacificon.org)

**Go to the Pacificon Website for  
Events - Schedules - Registration**  
**WWW.PACIFICON.ORG**



Outstanding  
Technical  
Forums

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Great Saturday  
Swap Meet

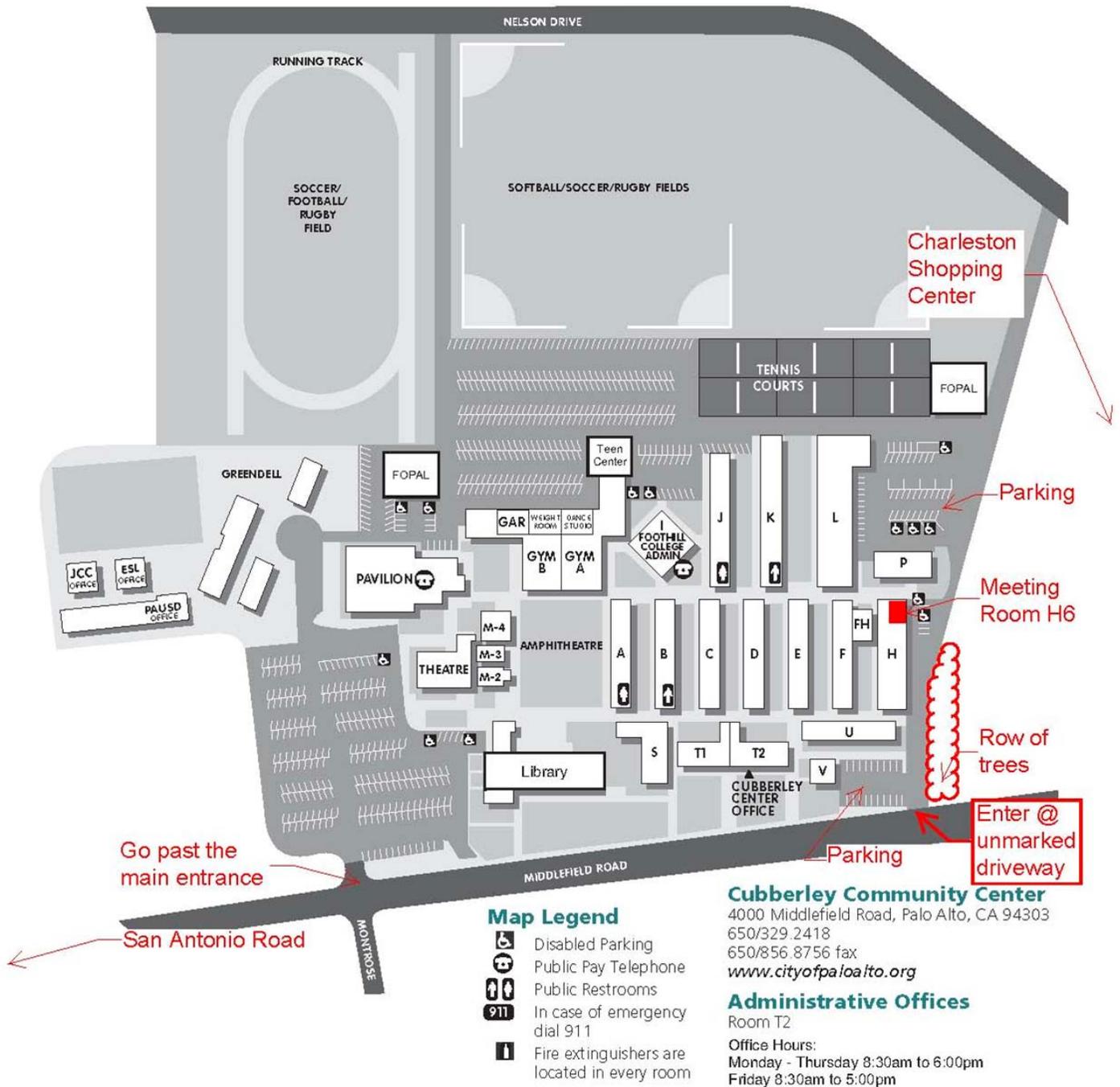


Antenna  
& Legal  
Seminars

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QRP  
& HFpack  
Activities





## Meeting Room Location

The Meeting Room is in Room H6 of the Cubberley Community Center.  
It is located at 4000 Middlefield Road between San Antonio Road and East Charleston Road.  
From San Antonio Road pass Montrose Avenue on the right (see above).  
Turn Left into unmarked driveway and park in parking lot.  
Follow road opposite entry to Bldg H.  
Room H6 is near the far end of Bldg H from the parking lot.



James Farrey  
 Sales Manager

James Electronics Ltd  
 1355 Shoreway Road, Belmont, CA 94002  
 Tel: 650•592•6718 x 350 Fax: 650•802•1520  
 Direct: 650•802•1511 jfarrey@jameco.com

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*Badges are ready for  
 pickup.*

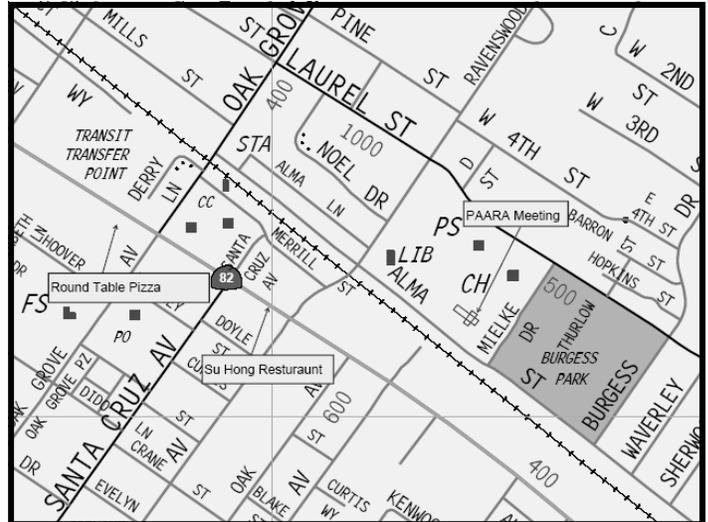
If you would like to  
 order a badge, see  
**Lynn Gentry, KG6JPV.**

## 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>	Michael - N6MEB
2 <sup>nd</sup>	Doug - KG6LWE
3 <sup>rd</sup>	Jack - N1VSL
4 <sup>th</sup>	Marty - W6NEV
5 <sup>th</sup>	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.



**Directions to PAARA meeting:**  
<http://paara.org/meetings/>

Join us for pre-meeting eyeball  
**Eye Ball QSO  
 gab & gobble**

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Radio NET & Swap Session every Monday evening, at 8:30pm,  
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Membership in PAARA is \$20.00 per calendar year,  
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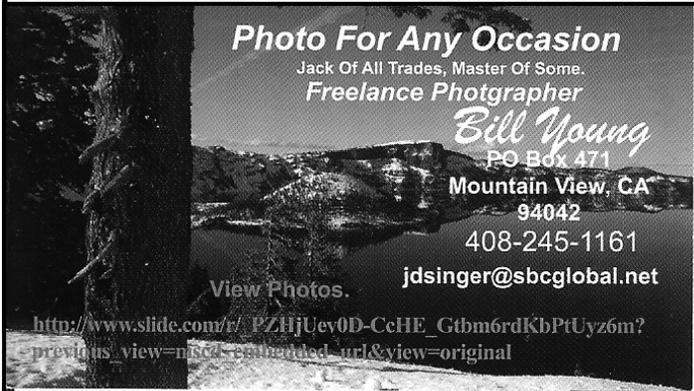
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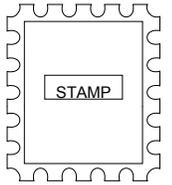
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# PAARAgaphs — October 2012

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