

W6OTX

W6ARA

PAARA NEWSLETTER

VOLUME 60, NUMBER 5, May 2010

K6OTA

K6YQT

PAARAgraphs



The Official Newsletter of the

Palo Alto Amateur Radio Association, Inc.

Celebrating 73 years as an *active* amateur radio club—*Since 1937*



CALENDAR



MAY 7, PAARA Meeting, 7:00 p.m.
Menlo Park Rec Ctr
700 Alma Street, Menlo Park

May 19, Board Meeting, 7:00 p.m.
Palo Alto Red Cross
400 Mitchell Lane

May 19, DEADLINE for April PAARAgraphs submissions
Send items for publication to Robin Yee, KI6YTA,
at KI6YTA@ARRL.net, or Paul Petach, KI6QXV,
at paaraeditor@gmail.com

President's Corner

This year is unfolding as quickly as ever and we are now just a short two months (about 8 weeks) away from Field Day as of this writing. We have also been right in the midst of vernal equinox propagation, but the sun has been just a bit too busy.



We have had a few very nice sunspots that provided openings for some of the recent contest activity. In the CQ Magazine WPX (world prefix) SSB contest at the end of March, 15 meters was open for most of the day on Saturday and 20 meters was open nicely after 15 closed. I was able to work Senegal, 6V7M, on 20 meters on Saturday afternoon. That was a new one for me and that sure made my day. As we got into April, there were a number of CMEs (coronal mass ejections) that made conditions on HF much worse. At one point the planetary A index, a measure of geomagnetic instability, reached a high of 49, the highest since 2006. That made the bands unusable for a

(Continued on page 43) Pres Corner



You won't want to miss our next meeting!

MAY 7, 2010

Our speaker will be...

...Bill Dale ~ H2RHV

Bill Dale, H2RHV, our ARRL Santa Clara Valley Section Manager, will update us on the latest goings-on at the League.

Also, we will auction off the HP 1631D.





Welcome New PAARA Members!

- Peter Chow, AF6DS, Sunnyvale
- Tony Jorajuria, KJ6GBC, Mountain View
- Robin Moore, AF6QC, San Jose
- Greg Norton, AF6TH, Los Altos
- Lodema Epperson, KI6UGV, Hayward
- Douglas Osborne, KI6VNI, Redwood City

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/>

LIVERMORE SWAP MEET. Now in Robertson Park, Livermore, every first Sunday of the month. 7 am to 11:30 am. Free admission for buyers. For further info, see: www.larkswap.com or contact Ian Parker, W6TCP at swapmeet@livermoreark.org

PAARA Palo Alto Amateur Radio Association

Meets 1st 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, 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 2nd Friday 7:30pm each month,
 repeater for member info 147.360, Thursday 8:00PM
 contact: <http://nedxc.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 1st 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 3rd 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

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/secara/> 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 ctess UHF: 147.39 (+600) 151.4 ctess 441.35 (+5.0 88.5) ctess
 223.96 (+1.6) 156.7 ctess 1286.20 (-12m) 100.0 ctess

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://santaclaravalley.redcross.org/> or Scott Hensley KB6UOO, (408) 967 7924
fhensley@Novell.com

(please send changes to PAARAgaphs editor: K16YTA@arrl.net)

Please contact Rick Melrose to
 settle your 2010 membership dues so
 you can keep receiving your
 PAARAgaphs.

Palo Alto Amateur Radio Association, Inc.

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PAARAgaphs—May 2010
Celebrating 73 years as an active ham radio club—Since 1937

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time. Using my 3D Sun iPhone app, I was able to hear the bow shock of the particle flux as recorded by radio astronomer Thomas Ashcroft. According to a notice on that application today, we are about to see another nice sunspot rotate into view. Hopefully this will lead to more DX on the bands.

Speaking of iPhones, our last meeting featured a talk by Bob Iannucci, W6EI, about his new iPhone app for transmitter hunting. It was a wonderful application of a handheld general purpose computing platform with sensors to one of our hobby's specialty areas. Bob's application makes use of the iPhone OS's Core Location services to find position and bearings. Using that information, and properly compensating for the Earth's curvature, something that turns out to be essential for accurate results, he is able to plot the results on a map on the phone's screen. This application was used on real t-hunts with great success. Bob also has some more integrated t-hunt software and hardware in the works. We'll keep in touch and see what he comes up with next.

I recently attended the Field Day team's first planning meeting. Doug, KG6LWE, our Field Day coordinator, has gotten us off to a great start as we put together all of the details that make each PAARA Field Day such a success. We discussed many of the logistic issues from radios to food. We also talked about band plans and how to better integrate GOTA station operation with our other stations. I think we will have even more of a commanding signal this year on all bands. As Doug said, this year every station gets a tri-bander! Between that and improving propagation, we will be ready to light up "Signal Ridge" in Bedwell Bayfront Park come the last full weekend in June (the 25th - 27th). I'm sure we'll be needing more help and we would welcome your contribution. If you are interested in operating, putting up or tearing down, helping out with the food, or any other kind of help, please contact Doug or any PAARA officer or board member.

Just a little over a month ago, PAARA lost a great friend when Elaine, WA6UBE, became a silent key. It was quite sudden and many of us were so very stunned and saddened by the loss of part of our ham family. Elaine was a real supporter of PAARA, a passionate and knowledgeable ham, and a very special person. All of us who knew her will miss her greatly. Our deepest condolences go out to Elaine's wife, Carla, at this difficult time.

Thanks to all of you who have been working on new stories for PAARAgaphs. I have received several recently and would love to receive more. Please keep it up and help the PAARAgaphs editors, Robin, KI6YTA, and Paul, KI6QXV, continue to bring you the best newsletter around!

CUL DE K6WX

Board Meeting Minutes 4/2110

The Board Meeting was held at the Palo Alto Red Cross building, commencing at 7:15 PM on the 21st of April, 2010. Attending were Kristen McIntyre K6WX (Pres), Doug Teter KG6LWE (VP), Rick Melrose K6RDM (Sec, Database), Ron Chester W6AZ (Treas), Larry Rebarchik N6CCH (Dir), Byron Beck KG6UOB (Dir), Rob Riley KI6INR (Dir), and Robin Yee KI6YTA (Editor). A quorum was present.

Secretary's Report: Rick K6RDM reports that the minutes of the 17th of March Board meeting had been previously submitted and approved.

President's Report: Kristen K6WX reported that the presentation at the March general meeting was very well received. Planning and coordination regarding participation in the Maker Faire is proceeding apace. We will have a table indoors across from an ARRL table, where Kristen and Leigh Klotz WA5ZNU are planning to do oscilloscope demonstrations. Mike NE6RD will also have a table and is doing a fine job of organizing so ham radio will be well represented at the faire. And, regarding the website, plans are still in progress to relocate the hosting for the site.

Vice President Doug KG6LWE and Larry N6CCH report that the projects to upgrade the club's KT-34 beams and the Force 12 C3S are progressing well and plans are in the works for additional antenna parties to finish off the work. Plans for placement of the antennas for Field Day have been worked out as well as the locations and equipment for each of our Field Day stations. Station Captains have been appointed and the membership is encouraged to signup to operate the CW and Phone stations. Our GOTA operation is being reorganized with more comfortable quarters and a new location up on top of the ridge and is also looking for club members who want to help man the station and coach the new operators.

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LIFE MEMBERSHIP

Awarded by Action of the PAARA Board

Wally Porter K6URO Dec 2008

Steve Stuntz, K6FS Dec 2007

(Board Meeting Minutes—Continued from page 43)

Treasurer's Report: Ron W6AZ reported that raffle proceeds, sales of equipment at the Electronics Flea Market on April 10th, and membership renewals have done quite well. The club membership is reminded that contributions to thank the Red Cross in appreciation for our antenna trailer are still in order.

The board discussed a number of additional topics including logistics and equipment for Field Day, the preparation of a PR announcement, and the possibility of a field trip to one-time commercial CW station KFS, here in the south Bay.

The meeting was adjourned at 8:30 PM.

Congratulations to the winners of the April 2010 Raffle!



- 1st Prize: Tony Kooij / W6AWK / LDG Z100 Plus Antenna Tuner
- 2nd Prize: Tony Kooij / W6AWK / Icom IC-V80 / 2m / 5.5W / HT
- 3rd Prize: John Cameron / KG6MSM / Deltran Battery Tender Junior Charger
- 4th Prize: Rob Fenn / KC6TYD / Two Uniden FRS / GMRS Radios
- 5th Prize: Mike Pechner / NE6RD / Rotary Tool / 35 Pc. Accessory Kit
- 6th Prize: Michael Gregg / KF6WRW / 9 LED Flashlight
- 7th Prize: Marty Wayne / W6NEV / Yaesu Log Book
- 8th Prize: Pat Sullivan / W6ABA / Icom Band Plan

**THANK YOU FOR YOUR SUPPORT
of PAARA's exciting monthly raffles!**

PAARA had a remarkable year in 2009! If you aren't a member, please join PAARA now and experience fun 2010 events with the "friendliest club around."

Need your License? Ready to Upgrade?

Announcing Ham testing by the Tri-City VE Group

Where: Hurricane Electric
48233 Warm Springs Blvd
Fremont, CA

When: Saturday, May 8, 9:00 a.m.
Thursday, June 17, 6:30 p.m.
Saturday, July 10, 9:00 a.m.
Thursday, August 19, 6:30 p.m.

For more information, contact
Rita, KI6SSQ@arrl.net, (510) 703-7090

or

Bernhard, AE6YN@arrl.net, (510) 364-0611

or visit

www.sbara.org.

Hope to see you soon!

PAARA Exemplary Service Award

Gerry Tucker, N6NV 2005

Rice Family 2006

Jim K6AK, Lisa KG6KQS, Kyle KG6MSK

Wally Porter, K6URO 2007

Vic Black, AB6SO 2008

??? - 2009



PAARAgaphs—May 2010
Celebrating 73 years as an active ham radio club—Since 1937

PAARA “The Friendliest Club Around”

May 7th Raffle Prizes

FIRST PRIZE: Icom IC-V80 / 2m / 5.5W / HT



- Rugged / Water Resistant / 750mW of Loud Audio
- NiMH / 1400mAh Battery Pack / 13 Hours Operating Time
- Drop-In Charging Base
- PC Programmable with Optional CS-V80
- WX Channel and Weather Alert Function (USA Version Only)
- Transceiver-to-Transceiver Cloning (Optional)

SECOND PRIZE: Super Antennas MP1 Portable HF 7-450MHz

- 3.5 - 4MHz with Optional Coil
- QRP to 200W Operation
- Adjust Slider to Frequency and Snug Down Band Lock Screw
- Portable / Easy to Set Up Operation
- Antenna Mount Included



THIRD PRIZE: West Mountain COMspkr



- RF Proof Amplified Stereo Computer Speaker System
- Stereo High Fidelity Response for Use with Voice or Music
- Optimized for Operation in Close Range of any Radio Transmitter

FOURTH PRIZE: Two Uniden FRS / GMRS Radios with Batteries

FIFTH PRIZE: APC Surge Protector 7 Outlet Power Strip w/Safety Covers

SIXTH PRIZE: (Three) 3-LED Push-Lites / Stick Where You Want / Push On-Off

SEVENTH PRIZE: ARRL 2009-2010 Repeater Directory

EIGHTH PRIZE: Yaesu Log Book

Since February 2003, **175 Radios**, including THREE 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.

Special Thanks to Bob, Howard, Dan, Mark, and everyone at HRO for their continued support!

de K6AK Jim

MAY 2010

in association with the
 National Contest Journal



CONTEST CORRAL

| Start and Finish | HF | VHF+ | Contest Title | Phone | CW | Digital | Exchange | Sponsor's Web Site |
|---------------------------------|--------|--------|-----------------------------------|-------|----|---------|---|--|
| May 1, 6 AM - May 1, 1 PM | | 90Z+ | Microwave Spring Sprint | X | X | X | Grid Square (5-character preferred) | tinyurl.com/springprints |
| May 1, 6 AM - May 2, 8 PM | | 2-40+ | 2 GHz and Up World Wide Contest | X | X | X | 8-char grid locator | www.ham-radio.com/sbms |
| May 1, 0000Z - May 2, 2400Z | 3.5-28 | 50-43Z | MARAC CW and SSB Contests | X | X | X | RS(T), state, county abbreviation | www.marac.org |
| May 1, 0001Z - May 2, 2359Z | 28 | | 10-10 Spring Digital Contest | X | X | X | Call sign, name, 10-10 number, state | www.ten-ten.org |
| May 1, 1300Z - May 1, 1900Z | 3.5-7 | | QRP-QRP-Party | X | X | X | RST, serial, category | www.qrcw.org |
| May 1, 1300Z - May 2, 0700Z | 1.8-28 | 50,144 | 7th Area QSO Party | X | X | X | State and county code | www.7cp.org |
| May 1, 1600Z - May 2, 0400Z | 1.8-28 | | Indiana QSO Party | X | X | X | RS(T) + S/P or IN county, DX RS(T) only | www.hdxcc.org/inqp |
| May 1, 1700Z - May 2, 0459Z | 3.5-21 | | Radio Club of America QSO Party | X | X | X | RS, QTH, name, equipment | www.radio-club-of-america.org |
| May 1, 2000Z - May 2, 1859Z | 1.8-28 | | ARI International DX Contest | X | X | X | RS(T), serial or Italian province | www.qsl.net/contest_ari |
| May 1, 2000Z - May 2, 2400Z | 3.5-28 | | New England QSO Party | X | X | X | RS(T) and S/P or New England county | www.necp.org |
| May 8, 1200Z - May 9, 2400Z | 1.8-28 | | Armed Forces Comm's Test | X | X | X | RS(T) | www.nelcom.army.mil/mars |
| May 8, 1200Z - May 9, 1200Z | 1.8-28 | | QO-M International DX Contest | X | X | X | RS(T) and serial | www.cq-m.andys.ru |
| May 8, 1200Z - May 9, 1200Z | 3.5-28 | | Alessandro Volta RTTY DX Contest | X | X | X | RST, serial, CQ zone | www.contestvolta.com |
| May 8, 1500Z - May 9, 1500Z | 3.5-28 | | Portuguese Navy Day | X | X | X | RS(T), serial, CQ zone | www.nra.pt |
| May 8, 1700Z - May 9, 1700Z | 3.5-28 | | FISTS Spring Sprint | X | X | X | RS(T), S/P/C, name, FISTS nr or power | www.fists.org/sprints.html |
| May 8, 1700Z - May 9, 1700Z | 3.5-28 | | Nevada QSO Party | X | X | X | RS(T) and S/P/C or NV county | nv.arrl.org/inqp |
| May 8, 1700Z - May 9, 0300Z | 50 | 50 | 50 MHz Spring Sprint | X | X | X | Grid Square (6-character preferred) | tinyurl.com/springprints |
| May 15, 0800Z - May 15, 1500Z | 3.5-28 | | Portuguese Navy Day | X | X | X | RST, serial, CQ zone | www.nra.pt |
| May 15, 1200Z - May 16, 1200Z | 3.5-28 | | EU PSK DX Contest | X | X | X | RST and EU area code or serial | www.eu.srars.org |
| May 15, 1200Z - May 16, 1200Z | 1.8-28 | | His Majesty King of Spain Contest | X | X | X | RST and serial or EA province | www.ure.es |
| May 15, 1500Z - May 16, 2359Z | 3.5-28 | | All America Contest | X | X | X | RST, continent, and category | www.powerline.com.br/cw/length.htm |
| May 16, 1000Z - May 16, 1400Z | 1.8-7 | 1.2G | Worked At Britain - LF Phone | X | X | X | RS, serial, and WAB nr or DXCC entity | www.worked-at-britain.co.uk |
| May 22, 0000Z - May 23, 2400Z | | | EU EME Contest | X | X | X | TMO/RS(T) and "R" | www.dubus.org |
| May 22, 2100Z - May 23, 0200Z | 3.5 | | Baltic Contest | X | X | X | RST and serial | www.lstf.tu/bocontest/english/rules_html.htm |
| May 29, 0000Z - May 30, 2400Z | 3.5-28 | | QO WW WPX Contest | X | X | X | RST and serial | www.qcwpk.com |
| May 30, 8 PM - May 30, Midnight | 3.5-28 | | QRP ARI: Hootlow Sprint | X | X | X | RST, S/P/C QRP number or power | www.qrparcl.org |
| May 31, 2300Z - Jun 1, 0300Z | 1.8-28 | | MI QRP Memorial Day CW Sprint | X | X | X | RST, S/P/C, MI QRP number or power | www.miqrp.org |

All dates refer to UTC and may be different from calendar date in North America. Times given as AM or PM are local times and dates. Refer to the contest Web sites for full rules, scoring information, operating periods or time limits and log submission information. No contest activity occurs on 60, 30, 17, 12 meters. Serial = Sequential number of the contact. S/P/C = State, Province, DXCC Entity. Publication deadline for Contest Corral listings is the first day of the second month prior to publication.

Check for updates and a downloadable PDF version online at www.arrl.org/contests

Sean's Picks

- QSO Parties this month, 7th Call Area, Indiana, Nevada.
- The weekend of May 1-2 will bring a lot of activity to the bands. Three major QSO parties encompassing 15 states (7th Area, New England and Indiana) coupled with the MARAC County Hunter contests adds up to a heck of a lot of fun. Try going mobile to activate rare counties, especially in states that are part of the QSO Parties this weekend, you'll make a lot of friends very quickly. This is a great activity for the ham family. See N3AX's article about mobile contesting on p 86 of the February 2008 QST.
- 50 MHz Spring Sprint (May 8). 4 hours of fun on a Saturday night

- to help warm up 6 meters for the coming summer sporadic-E propagation season. Exchange is simply your grid square.
- All-America Contest (May 15-16). How many countries in North and South America can you work? Find out in this CW-only event.
- CO WPX Contest, CW (May 29-30). Prefixed are the multiplier in this everybody-works-everybody competition. A KG4 is just as important as an XX9. This one's a lot of fun.
- MI QRP Club Memorial Day Sprint (May 31-June 1). 4 hours of QRP CW fun on Memorial Day evening. You'd be surprised what QRP can do? Don't believe me? Try it for yourself in this low-pressure, relaxed fun event.

MAY 2010 WIAW QUALIFYING RUNS

WIAW Qualifying runs are 7 PM EDT (2300Z) Monday, May 3 and 9 AM EDT (1300Z) Friday, May 21 (10-35 WPM). The West Coast Qualifying run will be transmitted by station K9JM on 3590 and 7047.5 kHz at 9 PM PDT Wednesday, May 12 (0400Z May 13)(10-35 WPM).

Net Control Opportunity!

We have an opening for
a Net Control operator
on the Monday night
PAARA net.

If you would like to take
a shot at net control,
contact Doug Teter,
KG6LWE, at
dteter@wcwi.com.

Contesting Webinars in May

Kirk Pickering, K4RO, National Contest Journal (NCJ) Contesting 101 column editor shares tips and tricks for the beginning contest operator and maybe even something for the old timer.

The on-line Webinar is sponsored by the Potomac Valley Radio Club (PVRC). The event will be held **Friday, May 7, 2010 at 9 PM EDT** (Saturday, May 8 - 01:00UTC). All you need is your PC, speakers, and an Internet connection.

Registration is free, but you must register by going to <https://www2.gotomeeting.com/register/604051586>. You can also find the link, and recorded events from earlier Webinars, by going to www.pvrc.org.

PVRC is also sponsoring the **May 25 "VHF Contesting: What To Do and How To Win"** Webinar (<https://www2.gotomeeting.com/register/978706411>). Questions or comments can be sent to k4zw@comcast.net

Support the Red Cross— They support us!

As a thank you to the Bay Area Chapter of the Red Cross, who gifted PAARA with a fabulous Tower Trailer, won't you please consider making a donation to the Red Cross? *Ron Chester has agreed to match the first \$150 donated with his own check of \$100.* Checks should be made out to "**American Red Cross Bay Area Chapter.**" In the memo line write **For: Response Communications.**

You can give your check to any club officer at the next PAARA meeting, or you can mail it to **Aaron Litwin, American Red Cross Bay Area Chapter, 85 2nd St. 8th Floor, San Francisco, CA 94105.**

Send a note to Ron regarding your donation and we will see what happens. Thanks one and all!! de, Gerry N6NV



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 Sales Manager

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 Tel: 650•592•6718 x 350 Fax: 650•802•1520
 Direct: 650•802•1511 jfarrey@jameco.com

www.jameco.com

YOUR AD HERE
See the next
page for details

Where's your badge?

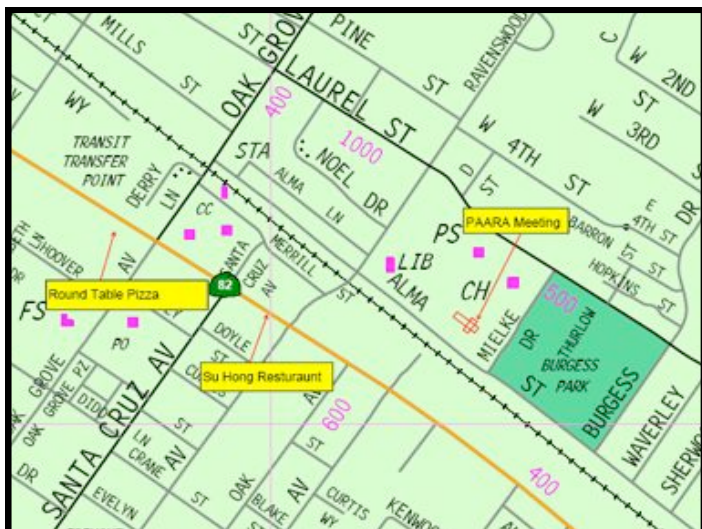
If you ordered a badge but have not yet picked it up, or if you would like to order a badge, see **Lynn Gentry, KG6JPV**.

PAARA Weekly Radio Net

Info and Swap Session every Monday evening 8:30pm on the N6NFI 145.230 MHz repeater.

Control operators:

| Week | Operator |
|-----------------|-------------------------------------|
| 1 st | Doug Teter KG6LWE |
| 2 nd | Paul Petach KI6QXV |
| 3 rd | Peter Sheerin K6WEB |
| 4 th | AVAILABLE—Contact Doug Teter |
| 5 th | Mike Bray N6MEB |



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



Join us for pre-meeting eyeball

Eye Ball QSO gab & gobble

Food will be served at 6:00 sharp, so guests will be on time for the PAARA meeting. Those arriving late will be responsible for their own food order.

5:30 pm—at Su Hong Restaurant
 1039 El Camino Real
 Menlo Park

*across from Kepler's Book Store
 on El Camino Real
 Walking distance from Caltrain!*

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Club meetings are on the first Friday of each month, 7:00pm at the Menlo Park Rec Center, 700 Alma Street, Menlo Park, CA.

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).

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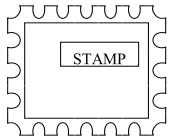
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