

W6OTX**W6ARA**PAARA NEWSLETTER
VOLUME 65, NUMBER 4, April 2014**K6OTA****K6YQT**

PAARAgraphs



The Official Newsletter of the

Palo Alto Amateur Radio Association, Inc.Celebrating 77 years as an *active* amateur radio club—*Since 1937*

DXpedition Video

2009 DXpedition to Desecheo Island K5D

Mar 7, 2014 — 7:00 pm**Cubberley Community Center, Room H-6
4000 Middlefield Road, Palo Alto, CA 94303**

President's Corner

April 2013

It's finally spring, and the propagation is really looking good. As I write, there is a great contest right around the corner. We had a great trip to the MVTF; were you there? The 9 A.M. Talk Net - nearly 30 years and still going strong.



We are right past the vernal equinox at this time, and propagation is really looking up. A quick glance at the ionospheric activity at <http://dx.qsl.net/propagation/> shows that the solar flux index is around 150 and the sunspot number is 135. Those are great numbers, though not spectacular. Unfortunately the K index, a logarithmic scale of geomagnetic activity causing noise on the HF bands, is at 3. That's a somewhat high value indicating that the bands might be rather noisy. The CQ World Wide World Prefix Contest, SSB has started, and I'll probably drop in on Saturday to see how things are

and troll for DX. I'm betting that 10 meters will be quite workable, but I'm not sure how far the F-layer propagation will take me. Time will tell. If that fails, it's down to 15 meters for some fun. We'll see how much the K index will affect things. We've had a couple of M-class flares over the last 24 hours, which is probably why the K is so high. If those settle down, things will get better.

The trip to the Military Vehicle Technology Foundation was one of PAARA's best trips yet. If you missed it, you really missed something spectacular that's not to be seen again in the Bay Area. As I've mentioned before, this display is partially leaving for the East Coast, and also partially being broken up and auctioned off. Fortunately roughly 60 PAARA members and friends were able to see it before that, and capture it in pictures. Of course, with the high density of hams, our tour guide was peppered with questions about everything. I think he was surprised by how inquisitive the group was, and how knowledgeable we were. There weren't many radios in evidence, but if you looked carefully, you could see them. I got a few pictures. Regardless, there were tanks of every description, era, and style. You could see the evolution of each country's engineering through time, and whether they learned from their experiences or not. You could also see what they valued. For example, maintainability vs. ruggedness; ease of mass manufacture vs. low-skilled labor adapted; over engineered vs. under engineered. It was really fascinating. There was even one radar truck that had a nice big pair of

(Continued on page 3)

Instant QSLing?

Did you realize how easy it is to make DX contacts even with a modest station & antenna?

Did you know that some stations provide virtually instant confirmation of your contact (QSL)?

I currently subscribe to the ARRL Propagation reports, which are available via email to any ARRL member. The latest report for the week of November 17th predicted sun spot numbers in the high 170 range, which was not as high as the numbers were last week, but I thought the numbers were high enough to give the bands a try. I turned on ten meters and spun the dial picking up RA0CGY, from Russia, calling CQ. He came back to me on my first call. We chatted for a few minutes and he told me that he was running 600 Watts to a 5-element 10-meter Yagi up on a tower. No wonder he was 5 by 7 on my vertical! Yuri told me he was located in Russia! After finishing the QSO, I looked him up on www.QRZ.com. To my surprise, I found the attached chart on QRZ. It lists Yuri's last 15

RA0CGY

Yuri Samyshev
ul. Trekhgornaya 76-48
680054 Khabarovsk
Russia

[+] Mailing label

Lookups: 54661 Ham Member

Email: Use mouse to view..

 Asiatic Russia

From QRZ.com



Biography

Detail

Logbook 1356

Log a NEW contact with RA0CGY...

My last 15 QSO

CALL	DX	TIME	BAND	MODE	RSTs	RSTr
RA0CGY	CX3IE	2013-11-19 23:15	10M	SSB	56	56
RA0CGY	W6APZ	2013-11-19 23:13	10M	SSB	56	57
RA0CGY	N3PV	2013-11-19 23:09	10M	SSB	55	57
RA0CGY	KJ4ZMV	2013-11-19 23:07	10M	SSB	56	55
RA0CGY	K7XE	2013-11-19 23:03	10M	SSB	58	59
RA0CGY	LU1DSM	2013-11-19 23:01	10M	SSB	54	57
RA0CGY	WN6E	2013-11-19 22:58	10M	SSB	54	59
RA0CGY	W5MTB	2013-11-19 22:57	10M	SSB	58	59
RA0CGY	KK6FSS	2013-11-19 22:55	10M	SSB	56	59
RA0CGY	K6BIG	2013-11-19 22:50	10M	SSB	59	59

QSOs! There I was, the second one down on the list. I was IN his logbook! That's the fastest QSL I have ever gotten from a DX station.

While I was aware that some DX expeditions published their logs on the Internet, I did not know that it was possible to do this on QRZ. This type of listing might be of interest to our members who work DX. I'd be interested in hearing a talk at PAARA on how to set up such as table on my QRZ page.

You don't think you can work DX? Watch the propagation predictions. When the sunspot numbers exceed 100, get on the air and give it a try. Even a modest station, such as my 100 Watts with a vertical can make some interesting contacts when the sunspot numbers get high enough. If you listen and don't hear anything, call CQ for a while. Maybe the band seems dead only because everyone is listening and no one is transmitting.

Good luck and good DX hunting!

de Rich, W6APZ

(President's Corner — Continued from page 1)

final tubes in it that resembled 3Z-500s. I think the most amazing thing of all was that the entire collection was the result of one man, Jaques Littlefield's, lifetime obsession with tanks. We will be posting pictures from the tour on our website at paara.org.

If you haven't stopped by the 9 A.M. Talk Net recently, how about dropping in? We'd love to hear from you, particularly if you're a new ham who has questions. But even if you're a seasoned op, we still love hearing from you! We meet Monday through Friday from 9 A.M. until whenever on the N6NFI Repeater, 145.230 MHz, negative offset, 100Hz PL. The net was started in the 1980s as the 10 A.M. talk net to help new hams who had questions. We are still going strong almost 30 years later. I just passed my 11th anniversary as net control this month. You can hear me on Fridays, though I used to do Mondays and Fridays until about 5 years ago (remember that?). Please stop by and join Rob KC6TYD, Pink K7ILA, Steve KG6EVZ, Mikey NE6RD, and me at 9 A.M. Jump on in; the water's fine :).

Well, that's it for this month. I hope to see you at PAARA in April, and on the air. Until then ... GUD DX TO U DE K6WX.

PAARA Board Meeting Minutes 19 March 2014

The Board Meeting was held at the Round Table Pizza Parlor in Menlo Park, commencing at 7:50 PM on the 19th of March, 2014. Attending were Kristen McIntyre K6WX (Pres), Jim Thielemann KI6KVW (Sec, Membership), Ron Chester W6AZ (treasurer), Larry Rebarchik N6DB (Dir), Rob Riley KI6INR (Dir), Byron Beck N6UOB (Dir); and non board members, Joel Wilhite KD6W (Technical Coordinator), Doug Teter KG6LWE (Field Day Coordinator), Rick Melrose K6RDM (Chaplain). A quorum was present.

President's Report: Kristen, K6WX, reported that the March 7th General Meeting was well at-

tended. There was lots of interest in Leigh Klotz's interesting talk on Ham Radio and Modern Micros. She also reported that the MVTF tour was very well attended. Discussion followed on how few clubs have any "field trips". Discussion followed on the topic of future trips and possible destinations. The board urges all members to let Marty know if they know of an interesting destination for a future trip.

Kristen indicated her reserve of stories for PAARAgaphs is still very thin and in need. She could really use the stories members have committed to write and haven't yet done so. 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, was on vacation watching grain grow. Prior to his departure he advised the board that he visited the Tee shirt shop to check into Field Day Team shirts. The artwork is in process for review. Unlike the past Field Day shirts, these shirts will only be available on a preorder basis. If you plan on supporting this year's PAARA Field Day effort and might want a shirt, start thinking now as there will be a short window in which to order them.

The board wishes to thank Marty for the OUTSTANDING MVTF filed trip he orchestrated. Even though he missed the actual trip, everyone agreed that the trip was a great success. The board received many positive comments from multiple participants.

Secretary's Report: Jim, KI6KVW, reported that there were 2 new members and eleven renewals at the March 7th meeting. He also reports that there are 62 — 2013 members and 112 that have renewed for 2014 bringing the total to 174 current members. Mailing labels for the April issue of PAARAgaphs have a notice in red that this is the last issue of PAARAgaphs

(Continued on page 5)

Radio In The Park

Join your fellow hams for a casual morning playing with radios and antennas! Bringing your own equipment is not required, though practicing the portability of your station can be beneficial. The park is open to the public and provides restrooms, picnic areas, benches, beautiful trees and grass areas.

When

9:30am to 12:30pm, Sundays:

- April 13th
- May 4th

- June 8th
- July 13th
- August 3rd

QTH:

Agnews Historic Park
 4030 Lafayette St.
 Santa Clara, CA 95050

N 37° 23.549 W 121° 57.297

Joanna K6YL

2014 PAARA FIELD DAY T-SHIRTS NOW AVAILABLE TO ORDER.

The 2014 PAARA Field Day T-Shirts are available for order. The cost is \$20.

The shirts are Royal Blue with the club logo on the front and PAARA FIELD DAY TEAM on the back. Sizes are Med, Lg, XL, and 2XL. Last day to order is May 16th. Estimated delivery date is the June 6th PAARA meeting. Get yours on order now or forever be left out. Contact Marty, W6NEV at w6nev@arrl.net or call at 408-234-8023 to place order.



(Minutes — Continued from page 3)

for 2013 members. There is an additional line in red suggesting renewing via PayPal.

Jim reported that progress has been made on the idea of adding a “donations” button, a method for international membership along with setting up a member only area to the web site. These changes to the web site are still in progress but the basic logistics of process have been worked out.

Treasurer’s Report: Ron, W6AZ, The club remains in good financial condition. Areas where the club brings in revenue to cover operating expenses have been positive for the last 3 months. The only unknown area at the time of the meeting was the flea market.

Under New Business, the Flea Market changes were a lengthy topic of discussion. There have been several big changes that are causing some head scratching. The two biggest ones are the increase in fees being charged by De Anza College and Red Cross largely backing out. Currently there are more questions than answers. With the Red Cross backing out, PAARA now will be sponsoring the Flea Market in the month of May on the 10th. The last Flea Market of the year will be September 13th so plan ahead! There will still be a Flea Market at Pacificon in October. Some discussion waged on other methods of selling equipment donated to the club such as eBay.

Kristen mentioned that Joanna, K6YL, Rick, N6DQ, and Mikey, NE6RD orchestrated an event called, “Radios in the Park” which was held at Agnews Historic Park in Santa Clara on 3/15/14. It’s a casual gathering of hams some of whom came with radios etc to work off the grid. Ron, W6AZ, went and had a great time. There is the probability that this event will become a regular monthly event so keep your ears open.

Byron commented that he will be involved with 3 special event stations this year. As plans solidify, he’ll provide more information to the members.

Rebar mentioned that the 1st phase of antenna

work at Bob Vallio’s (W6RGG) QTH has been completed. Bob is in the process of gathering parts for the final phase of reinstalling some aluminum onto his naked tower.

Joel informed the board that he still wants to move ahead with the location for the D-Star repeater the club was given a few years ago. The board is still looking for a lawyer to draft a memorandum of understanding. If any member knows of a suitable lawyer, better yet a ham lawyer, please advise someone on the board so we can move this process along.

Doug talked about field day and the 1st antenna party. Dates and action items were discussed [sec update: 3/22 was the 1st antenna party, the most important items were checked off the list]. Also discussed was the need for someone to handle the NTS traffic. This was a problem last year that didn’t become one until Field Day. Also discussed is the need to find someone else to be the GOTA captain. Rob KI6INR has ever increasing family responsibilities that will preclude him from being captain this year. If any club member has ideas on these topics, please contact Doug.

The meeting was adjourned at 9:15 PM.

Jim Thielemann
KI6KVV

New Members

Joe Pistrutto	N3CKF
Barry Redding	W9FFL

Badges Ready for Pickup

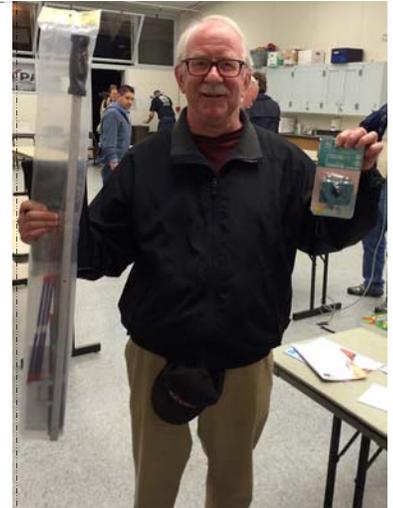
On June 1st the price of a badge will increase to \$15.00.

Art	KI6GYG	San Jose
Byron	N6UOB	Campbell
Chuck	KF6SRD	Palo Alto

(Continued on page 6)

PAARA 3/7/14 Raffle Prize Winners

- 1st Prize Joe Castellano / W6SNV / Wouxon Dual Band HT
- 2nd Prize Ron Chester / W6AZ / Arrow Yagi Antenna
- 3rd Prize Ron Chester / W6AZ / Coax Switch
- 4th Prize Kristen McIntyre / K6WX / “Ham Radio Arduino and Picaxe” book
- 5th Prize Paul Gorny / KK6HWN / “Hints and Kinks for the Radio Amateur” book
- 6th Prize Joe Pistritto / N3CKF / ARRL Repeater Directory book
- 7th Prize Joe McVeigh / AG6ZC / Bongo Ties
- 8th Prize Rebar / N6DB / Two Rolls of Rescue Tape

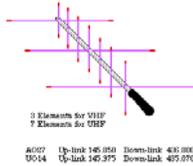


April Raffle Prizes

- 1st Wouxon KGUUV3D-2-UHF HT Transceiver, 2M/440 DUAL BAND HT, 128 Memories, 1700mAh LI-ON BATTERY
- 2nd Arrow Yagi / 3 Element VHF / 7 Element UHF / Max Gain
- 3rd Two FRS Radios
- 4th “Arthur Collins Radio Wizard” book “Thanks Rich Stiebel W6APZ”
- 5th “DXA” The real-time online radio log server book “Thanks Vic Black AB6SO”
- 6th ARRL Repeater Directory 2012-2013
- 7th Two Rolls of Rescue Tape



Work a Satellite with an HT



<i>(Badges — Continued from page 5)</i>			Mark	K6FTF	San Jose
Dave	K6WA	Menlo Park	Rob	KC6TYD	Redwood City
Francis	KG6QKN	Palo Alto	Ron	W6AZ	Santa Clara
George	K6TSR	Portola Valley	Scott	KI6QWM	
Henri	KG6ZWO	Palo Alto	Sreenidish	KJ6GBE	Redwood city
Joani	N6JCY	San Jose	Vincent	K6VVK	Palo Alto
Joanne	KI6JLS	Palo Alto	Xainde	KJ4SGT	Campbell
Kali	KG6QKO	Palo Alto			

Palo Alto Amateur Radio Association, Inc.

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 ab6so@smrn.com
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 thielem@pacbell.net
 Chaplain Rick Melrose K6RDM 408-341-9070
 k6rdm@arrrl.net
 Public Affairs *Position Vacant*
 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
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 dteter@wcv.com
 Historian Position *Position Vacant*
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 webaron@gmail.com
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 k16inr@arrrl.net
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 jdsinger@sbcglobal.net

Future PARRA Meeting Dates
 May 2nd, June 6th, July 11?

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/sccara> or Clark Murphy KE6KXO 408-262-9334
 ARRL/VEC license testing contact 408-507-4698

SVECS — Silicon Valley Emergency Communications

Operates AA6BT repeater (146.115 MHz+)
 contact: <http://www.svecs.net> or Lou Stierer WA6QYS 408 241 7999

TEARS — The Elmer Amateur Radio Society

Dedicated to operational training, knowledge building & FCC exam testing.
 KV6R repeater under construction.
 Contact: AA6T@ARRL.NET
 Most members are Extra Class or VE's. See QRZ dot com/kv6r for class info

WVARA — West Valley Amateur Radio Association

W6PIY six-meter repeater on 52.58MHz. Normally, six-meters is linked with 147 and 223,
 while 441 and 1286 repeaters are linked.
 VHF: 52.58 (-500) 151.4 ctcss UHF:
 147.39 (+600) 151.4 ctcss 441.35 (+5.0) 88.5 ctcss
 223.96 (+1.6) 156.7 ctcss 1286.20 (-12m) 100.0 ctcss
 Meetings are 3rd Wednesday of every month.
 Contact: <http://wvara.org>, Bill Ashby N6FFC, 408-267-3118, N6FFC@Juno.com, or
N6FFC@ARRL.NET

**American Red Cross,
 Santa Clara Valley Chapter**

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

(Please send changes to [PAARAgaphs editor](#))



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 Sales Manager

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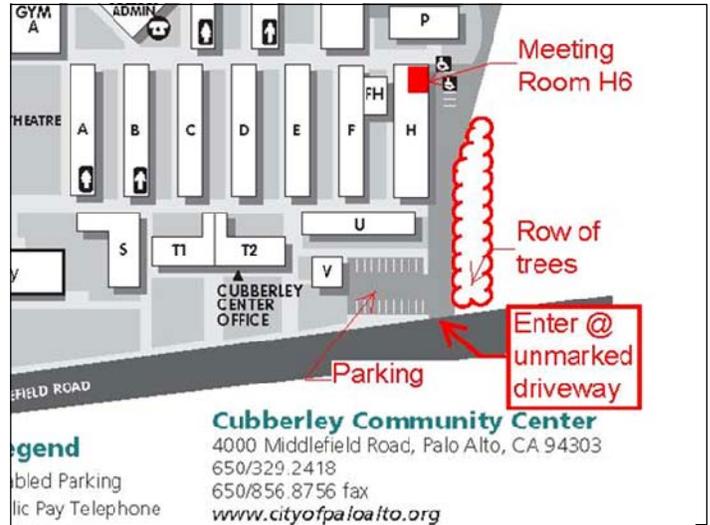
Badges are ready for pickup.

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

PAARA Weekly Radio Net
 Info and Swap Session every Monday evening at 8:30pm on the N6NFI 145.230 MHz repeater

<u>Week</u>	<u>Control Operator</u>
1 st	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

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

Vladimir Vladimirovich
 SHKURKIN

Editing and Translation Services
 English-Russian-English

shkurkin@ix.netcom.com

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
 Palo Alto Amateur Radio Association,
 P.O. Box 911, Menlo Park, CA 94026-0911

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**RADIO
IN THE
PARK**

9:30am - 12:30pm
Sundays, 4/13, 5/4,
6/8, 7/13, 8/3

QTH:
Agnews Historic Park
4030 Lafayette St.
Santa Clara, CA
95050

N 37° 23.549
W 121° 57.297

Ilse Beck, E. A., KI6IBM

Beck Business Services

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Campbell, CA 95008

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3rd Wed to: rrvt@swde.com

Text: .doc, .rtf, or .txt

Photos: jpg, png or tiff

Subscription Problems? Contact Database

Manager: Jim Thielemann, KI6KVV,
408-839-6815, thielem@pacbell.net

PAARAgaphs Ad Rates

PAARAgaphs accepts paid advertisements from non-members. (short personal ads remain free for members in good standing). **All ad rates listed are per issue.**

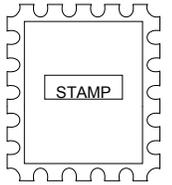
1. Not-for-profit ads by association members for ham-related items and wants. No cost for business card-size ads (additional space at \$2.50 per business card size per issue).

2. For Profit organizations and/or individuals: \$5-business card size, \$25-half page, \$50 full page or back cover per issue. These fees may be reduced or waived in exchange for a valuable consideration that is given to the Association or its general membership. Such consideration must be in addition to any existing arrangements with the association. The PAARAgaphs editors reserve the right to reject any ad deemed to be not in the best interest of the Association.

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PAARAgaphs — April 2014

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Palo Alto Amateur Radio Association, Inc.
 PAARAgaphs Newsletter
 P.O. Box 911
 Menlo Park, California 94026

FIRST CLASS MAIL

ANHEIM, CA
 (Near Disneyland)
 5531 N. Central St., 92801
 (800) 554-6046
 Mark, W7YU, Mgr.
radio@hamradio.com

BIRBAK, CA
 1525 W. Memorial Blvd., 94106
 (800) 942-7768
 (877) 892-1748
 Eric, K8EJC, Mgr.
 So. from Hwy. 8 & Sierra Vista
hamradio@hamradio.com

OAKLAND, CA
 2210 Livingston St., 94606
 (510) 594-5757
 (877) 892-1745
 Mark, W7YU, Mgr.
 1-880 at 23rd Ave. ramp
radio@hamradio.com

SAN DIEGO, CA
 5275 Kearny Villa Rd., 92123
 (602) 592-4900
 (877) 892-8093
 Hwy. 153 & Carrington Mesa
sandiego@hamradio.com

SUNNYVALE, CA
 510 Lawrence Exp. #102, 94085
 (408) 736-9496
 (877) 892-1749
 Jon, K6WV, Mgr.
 So. from Hwy. 101
sunnyvale@hamradio.com

NEW CASTLE, DE
 (Near Philadelphia)
 10001 Quaker Hwy., 19720
 (800) 942-7768
 (800) 544-4175
 Chuck, W1UC, Mgr.
 RT1314 Rd., So. I-295
marc@hamradio.com

PORTLAND, OR
 11705 S. W. Pacific Hwy.
 97223
 (503) 598-6556
 (800) 554-4267
 Hwy. 171 & 15th
 From Hwy. 5 & 217
portland@hamradio.com

DENVER, CO
 8400 E. Hill Ave. #3, 80231
 (303) 746-7273
 (800) 444-9176
 East, N. on I-70
denver@hamradio.com

PHOENIX, AZ
 11613 L. 43rd Ave., 80729
 (602) 242-3616
 (800) 559-8938
 East, N. on I-17
phoenix@hamradio.com

ATLANTA, GA
 2244 Dunwoody, 30340
 (770) 252-7700
 (800) 444-7927
 Mark, K4AO, Mgr.
 Dunwoody, 1 mi. no. of I-285
atlanta@hamradio.com

WOODBRIDGE, VA
 (Near Washington D.C.)
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 • 50W 2M & 440
 • Optional Voice synthesizer
 • 100 memories • Dual receiver
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YAESU
 50W 440/220V/440 TX 440
 20W 440 w/ built-in GPS (V-CAD)
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 • Lithium battery
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Call For Low Price!

FT-897D
 Ultra compact HF, VHF, UHF
 • 100W HF/50W 2M, 20W UHF
 • DSP included • 32 color display
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 2210 Livingston St., 94606
 (510) 594-5757
 (877) 892-1745
 Mark, W7YU, Mgr.
 1-880 at 23rd Ave. ramp
oakland@hamradio.com

SUNNYVALE, CA
 510 Lawrence Exp. #102, 94085
 (408) 736-9496
 (877) 892-1749
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 • 200 memories • Accessible on-hand
 • Wide band TX
Call For Low Price!

YAESU FT-2000 HF + 60W 10V
 • 100W w/ auto tuner
 • Built-in power supply
 • DSP included • 32 color display
 • 200 memories • Accessible on-hand
 • 3 ft. rotator base
Call For Low Price!