

W6OTX**W6ARA****PAARA NEWSLETTER**

VOLUME 57, NUMBER 8, August 2007

K6OTA**K6YQT**

PAARAgraphs



Celebrating 70 years as an *active* ham radio club—*Since 1937*
The Palo Alto Amateur Radio Association, Inc.



CALENDAR

- August..... 3, **PAARA Meeting**, 7:30
Menlo Park Recreation Center
700 Alma Street, Menlo Park
- August..... 8, **PAARA Board Meeting**, 7:30
Red Cross Bld., 400 Mitchell Ln., Palo Alto
- August ...18 PAARA tour of Radiomarine Station KPH.
departing from Menlo Park Recreation Center parking lot at 10:00AM, (see page 89)
- Sept..... 7, **PAARA Meeting**, 7:30
- Sept..... 12, **PAARA Board Meeting**, 7:30
- Oct..... 5, **PAARA Meeting**, 7:30
- Oct..... 10, **PAARA Board Meeting**, 7:30



President's corner



August 07, Wow, this has been quite a month for PAARA. Since I last spoke to you in this column, ARRL Field Day, a PAARA general meeting, a board meeting, and the PAARA sponsored ASVARO Electronics Flea Market have come and gone. We've been busy! Our Field Day effort was supported by many people who worked very hard. There are far too many of you who put your time and effort into this annual project to list individually, but a few stand out for special mention and thanks. These people are there each year to contribute and, if fact, make Field Day possible for this club. Special thanks to **Gerry, N6NV, Ron, W6AZ, Doug, KG6LWE, and Andreas, N6NU**. Thank you all and thanks to all of those who are not mentioned here who helped out so much.

In reviewing feedback from our membership about Field Day, it has become clear to me that our club would benefit from revisiting our overall goals for this event. While some people enjoyed it as it was this year, there were a significant number of you who seemed disappointed that club members were not able to directly participate in station operation. Over the course of the next year, I would like to challenge you to think about whether you'd like to see PAARA's Field Day be a contest oriented event with only the best operators in front of the radios or a chance for the general membership to operate and have the Field Day experience. My personal opinion is that, in a quest for points, we have lost sight of our moniker: 'the friendliest club around'. Please don't hesitate to contact me with your thoughts and suggestions for next year.

This year's PAARA sponsored ASVARO Flea Market was, as far as I could tell, a real success. We had many of you volunteer to take up the various tasks that needed to be done to make it such a success. In fact, so many of you volunteered that everything worked out fine, even though I overslept and arrived very late! Sorry about that everyone, but your hard work made up the difference. We sold 30 dozen donuts, lots of coffee, and most of the sodas. We even had **Les, WY6H**, serving our 3 drive-thru customers. That was fantastic! Special thanks to **Rich, W6APZ**, who got the early coffee going and who gave me much helpful advice, **Tom, KF6LWZ** from the Red Cross

(Continued on page 92) pres corner



NEXT MEETING

August 3, 2007

PROGRAM:

"Identifying, Finding, and Eliminating Power Line and Other Man Made Noise Sources"

SPEAKER:

Ira Stoler - K2RD

(see page 88)

I will discuss and demonstrate some tools and techniques for dealing with powerline and man made noise. I will share some personal experiences in a couple of locations and share the frustration that comes along with these sorts of operating problems and the often mixed joys of solving them.

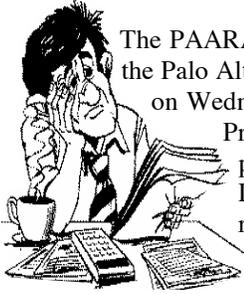
~Joel Wilhite KD6W

(I have not finished our submission yet, so the 2007 numbers are preliminary ~Ron W6AZ)

Field Day Comparisons				
Preliminary 2007 Results				
	<u>2004</u>	<u>2005</u>	<u>2006</u>	<u>2007</u>
<u>CW QSO's by Band</u>				
80m	88	21	147	158
40m	4	120	411	514
20m	213	92	442	528
15m	282	181	158	87
Other	26	1	8	8
Total CW QSO's	613	395	1,156	1,295
<u>Voice QSO's by Band</u>				
80m	128	78	118	208
40m	187	121	83	440
20m	528	598	528	987
15m	11	442	18	88
Other	282	207	288	148
Total Voice QSO's	1,156	1,546	1,047	1,869
<u>Results Summary</u>				
Total QSO's	1,769	1,941	2,203	3,164
Bonus Points	1,250	1,710	1,980	1,540
Total Score	3,019	3,651	4,183	4,704
<u>PAARA Rank for All entries in:</u>				
Entire Nation	182	150	70	Unknown
Pacific Division	11	8	7	Unknown
SCV Section	4	4	4	Unknown
<u>PAARA Rank in Our category in:</u>				
Entire Nation	58	18	9	Unknown
Pacific Division	4	1	1	Unknown
SCV Section	1	1	1	Unknown

**PAARA Radio NET every Monday evening at 8:30 P.M. local time on the
145.230 –600 MHz repeater, PL tone off**

BOARD OF DIRECTORS MEETING.



The PAARA Board held their regular meeting at the Palo Alto Offices of the American Red Cross on Wednesday, July 11/07. In attendance was President **Kristen McIntyre, K6WX**; past President **Terry Finn, AA6T**; Director **Gerry Tucker, N6NV**; Director **Doug Teter, KG6LWE**; Director **Rob Riley, KI6INR**; membership database director **Rick Melrose, K6RDM**; Fund Raiser **Bob Korte, KD6KYT**; PAARAgaphs Editor **Wally Porter, K6URO**; and PAARA members **Mikey Furman, N6IL**; **Dale O'Harra, NX6S**; **Stan Towle, WA6ZGI**; **Peter Sheerin, K6WEB**; and **Denis Wilson, KA6LSW**.

PAARA Vice President **Joel Wilhite, KD6W**, checked in via cellular telephone from out of State where he is currently on a work assignment. Our Secretary, **David Ungar, W6DH**, was in New York on business and had permission from the President to miss this meeting. However, the PAARA Treasurer **Ron Chester, W6AZ**, was missing, as was the other Director **Andreas Junge, N6NU**.

The meeting was called to order by the President at 1925 hours. The initial discussion concerned the ticket sales for the bus trip to KPH in August. It was determined that Elaine would be consulted regarding opening up the ticket sales to others outside of PAARA. If that was acceptable, then the announcement would be made on the repeater nets and at the next meeting. Moved by **T.Finn**, seconded by **D.Teter**. Votes were unanimous.

A lively discussion took place regarding the Field Day activities de-briefing. The President had received many e-mailed and verbal comments and criticisms about Field Day. In fact PAARA members **Dale O'Harra, NX6S** and **Mikey Furman, N6IL** submitted verbal descriptions of issues and problems that they had experienced during this year's Field Day activities.

Many of the complaints were from PAARA members who had actually signed up for operator and logger duties at specific times. When they arrived on site to participate they found that their services were not required or that the current radio operator would not move out of position. In some cases the radio station was not even open or operational because a control operator was not available. The President of PAARA actually left the Field Day operation site and traveled to another radio club field day site and operated their radio from 1 AM to 5 AM on Sunday morning. This was due to the "ringer" radio operators that were on the PAARA stations refusing to give up their positions where they were operationally attempted to obtain as many QSO's as possible.

Some of the other issues discussed concerned the lack of Safety Officer position and the various incidents that occurred including several severe violation of local rules that could have created an extreme liability problem for PAARA. The problem with the logging software installs at the site and lack of any software use training.

Other items discussed included letters of thanks to be sent to Roberta Yee for allowing the use of her electric shuttle vehicle, et al. We also discussed the PAARA December meeting raffle by **Jim Rice, K6AK**, who will have a K3 Elecraft transceiver as one of the raffle prizes in the "Dream to Reality" raffle. WOW. A special "thank you Jim" was issued by the Board for his continued good work.

The meeting was adjourned at 21:10 hours. Some of the Board members traveled to a local restaurant for a social meeting.

The PAARA Board of Directors meeting minutes are submitted by Terry Finn, AA6T., who was filling in for the PAARA Secretary David Ungar, W6DH, who was away on the east coast for business.

Submitted by: Terry Finn. AA6T.

(from page 85)

About Mr. Stoler

Mr. Stoler has been licensed since 1965 at age 16 and an extra since 1967. Originally WN2RDO (one month) and WB2RDO. He was later licensed K2RD in 1972. Ira has always been an avid DXer and contester. During the recent Scarborough Reef operation he was able to get the last country needed for DXCC. Until moving to California in 2002 Mr. Stoler had always lived within 200 miles of Brooklyn, NY where he grew up. Originally trained as a Biomedical/Electrical Engineer, Ira spent 30 years in the Pharmaceutical industry before retiring last fall. He now runs a small start-up company doing agricultural irrigation automation and measurement product development and manufacturing in Southern California. Ira a multiop contest station in a congested Connecticut suburb of NYC where power line noise was a big problem. Now living in San Carlos, he is again set up on all bands 160meters through 70cm and operate in most contests and other activities. He does his serious contesting as a guest op at K6IDX's big station in the Sierras for the big DX contests in the fall and winter. Has placed 5th and 6th in California from there as a single op in CQP the past 2 years. Even out there in the boonies he has had to chase power line and noise problems as civilization creeps in.

~Kristen (K6WX)



photo K6WX

PAARATrips

Tour of Radiomarine Station KPH

Point Reyes National Seashore...

Mark Your Calendars and Buy Tickets !!

Saturday August 18th 2007 is the PAARATrips tour of Radiomarine Station KPH.

This will be a chartered-coach trip departing from the Menlo Park Recreation Center parking lot at 10:00AM, and will return to Menlo Park at 8:00 PM -- This is one of those fancy-schmancy tour coaches, so Hawaiian shirts and cameras are recommended attire, along with funny hats and handie-talkies ... Also plan to bring sweaters and jackets, it will likely be foggy and cold in the late afternoon...If any club members have camcorders or digital cameras, bring them along. this trip will be historically significant in years to come !! The tour includes the transmitter site and antenna field at the Bolinas facility, from approximately 11:30 AM to 1:00 PM, followed by a tour of the receiving and control facility, located at Point Reyes. PAARA members will also be able to operate the station on amateur frequencies. Your amateur license is not required as Docents will be on site at the control point and will act as control operators. A BBQ lunch will be provided while at the receiving/control site. Tickets are \$40.00 per seat for PAARA members and their immediate family.. *only 47 seats are available, so be sure to purchase your ticket(s) soon before the trip is sold out !!*

Tickets will be available at the June, July, and August PAARA meetings, and also at the June, and July Amtech-Day events at SLAC..

Your tickets are your boarding pass, please do not lose them!

You may also purchase tickets by mail.

Checks must be made out payable to: PAARA mail payments to:

Patricia Gibbons

10958 Mount Hamilton Road

Mount Hamilton, CA 95140-9701



FIELD DAY SERVED AGENCIES AND SPECIAL VISITORS.

On Saturday, June 23, 2007, the PAARA Field Day site was visited by several special people who represented a number of different agencies and organizations. Many of these folks were personally invited to make sure that PAARA could harvest more qualifying points for the contest end of the Field Day activities.

The Menlo Park Fire District sent over an engine company manned by two firefighters and one paramedic. **Tony Eggmann, Mike Lemos** and **Greg Womble** provided an interesting tour of their new fire engine and the equipment carried for rescues. This visit was arranged through **Carol Parker** of the Fire District who is also in charge of their citizen training unit, CERT. She allows local ham groups to use the training facility operated by the Menlo Park Fire District for amateur radio classes and examinations.

The San Mateo County Sheriff's Office was on site during the afternoon with their brand, spanking new (one of two) OES communications vehicle. Operated by Ross Peterson, **WB6ZBU** and **Dan Bennett, KF6FSH** of the Sheriff's Office of Emergency Services, this dual wheeled **Dodge Sprinter** high top van was rather impressive. Clearly marked as a Sheriff's Office vehicle and equipped with emergency equipment for code three travel, the vehicle has an assortment of communications devices that should allow for a complete communications and command vehicle. The only things missing were a toilet, kitchen and bedroom. It should be noted that these high top vans are actually manufactured in Germany by Mercedes Benz, shipped to the US and put together by Freightliner and marked by Dodge.

The Palo Alto Police Department was represented by the attendance of police officer **Ken Dueker, KB6BPM**, in full uniform and a marked police vehicle. He always seems to be working during Field Day as we have seen him at many PAARA Field Days. Once again, the Menlo Park Police Department did not send over a representative although they received several invitations that were never answered. This has been happening for over two years since the retirement of police officer **Ron Sfarzo**, who used to attend our Field Day activities. It is clear that the new police Chief has an agenda that does not include good public relations or knowing what assets he may have available with PAARA.

The Santa Clara County ARES/RACES coordinator, **Steve Gore, KI6HFU** came by for a visit in his really clean Jeep wrangler with the antenna farm sprouting out in all directions. Of course he does not come close to the record for an antenna farm on a vehicle. That dubious title is still held by PAARA member **Peter, K6WEB**. **Rolf Klibo, N6NFI** and his very pleasant bride **Pamela, KG6EDX** were in attendance. You will recognize Rolf's call sign from the extremely active two meter repeater used by many PAARA members. Several elected officials from other Bay Area radio clubs visited and some even participated in tower erection and rigging on Friday afternoon.

Obviously, it was another successful year for the PAARA Field Day as we met almost all of our goals to earn points.

The PAARA treasurer, **Ron Chester, W6AZ**, will be reporting at a later date regarding the exact numbers of points earned and visitors to our site. PAARA really appreciates the participation of its members. Thank you.

~Terry Finn. AA6T.

FOOD SERVICES AT FIELD DAY, 2007.

The PAARA Board of Directors had limited the amount of funds available this year for food and beverages as they believed that this was another financial area that could be further controlled although at the last Board of Directors meeting they did not have anyone in place to actually handle this big part of Field Day.

However, almost at the eleventh hour, up popped **Robert Johnson, KG6UWZ**; **Bob Korte, KD6KYT**, and his most able assistant **Geri Korte, KI6AWW**. With little time to prepare, these PAARA members did a remarkable job of arranging, transporting and distributing the required food and beverages. The stew dinner served on Saturday evening had been prepared the night before by Bob & Geri. The special home made chili that was served throughout the afternoon on Saturday was provided by **Rick Huisman, N6DQ**.

Robert Johnson brought a whole collection of fresh bagels. A deviled egg dish was provided by **Lisa Rice, KG6KQS**. There appeared to be ample cold water in



bottles and a variety of soda made available at the kitchen trailer. This particular trailer can be opened at both ends and has been used in the past as a radio station location. The trailer was provided by **Doug Teter, KG6LWE**. Although there will probably be a debriefing and discussion

at the next Board of Directors meeting regarding how this was handled this year, for most attendees, the food service was well received. PAARA really appreciates the assistance provided by these named contributors and the others who wish to remain anonymous. Until next year, 73.

~AA6T. Terry Finn.

NEW WEBMASTER

FOR OUR PAARASITE

The PAARA President, **Kristen McIntyre, K6WX**, has appointed a PAARA member to take over the maintenance and building of our web site, www.paara.org **Dennis Willson, KA6LSW**, will take over from outgoing web master **Al Montoya, WB6IMX**, in July. Should any PAARA members have suggestions regarding the PAARAsite or links therein, please contact the PAARA web site committee members, **Rob Riley, KI6INR** (ki6inr@arrl.net) or **Terry Finn, AA6T** (aa6t@arrl.net)

~AA6T. Terry Finn.

Portable Lightweight Antenna Support

Rich Stiebel, W6APZ

Would you like to operate your ham station away from home? Do you have a good support for your antenna? Are you looking for a lightweight, inexpensive sturdy antenna support for portable operation on HF, VHF, or UHF? If so, read on.

Having recently participated in several bike tours as a communicator, I realized that my heavy tree-pruning tool was not the optimum antenna support. I noticed that one ARES/RACES ham used an aluminum 15-foot pool-cleaning pole as his antenna support. This pole collapses down to about 6 feet so it easily fits in a car. I was able to purchase the *Kem-Tek* pool-cleaning pole at OSH for \$25 recently, but since it was designed to be hand-held, it would not stand up by itself. At one event I found a parking sign and attached this pole to the parking sign with bungee cords. While that made a secure antenna mount, how would I set up operations without the benefit of parking signs? I needed an inexpensive, lightweight, collapsible tripod that could mount anywhere.

While at OSH on Charleston recently, I noticed a sale flyer which advertised a *Craftsman 500-Watt Work Light (# 73826) with Tripod* stand for \$10. The normal price is \$20. I had seen this on an earlier trip to OSH, but did not want to pay \$20 just to get the tripod. The price was now right so I purchased the light just to get the tripod for my 15-foot pool-cleaning pole.

When I unpacked the tripod, I became concerned about the diameter of the tripod's base. Was it large enough to keep the pole from falling over when the pole was extended to its full 15-foot height? Setting up the tripod, I noticed the quick-

release pin at the top of the tripod post. I was able to unscrew and remove this with a crescent wrench to permit the bottom of the pool pole to fit over the top of this tripod post. Upon extending the pole to its full 15 feet in my back yard, I immediately realized that the tripod base diameter was not sufficiently large to support the fully extended pole with antenna IF there were much of a wind.

I needed to increase the tripod diameter somehow. Each foot of the tripod had a plastic cap on the end to prevent the metal tube from digging into a floor. Those plastic caps pry out very easily. The inside diameter of the legs is just big enough to accept a piece of ½ inch schedule 40 PVC pipe. I happened to have several 18-inch lengths of this pipe available, so I put a length of PVC pipe into each leg. This more than doubled the tripod diameter and greatly increased the stability of the tripod even with the 15-foot pool-cleaning pole at its maximum length. One could use longer pieces of PVC pipe to provide even more stability if needed, or one could place weights over the ends of the PVC pipe to anchor the



tripod in a windy environment. Another alternative if the tripod has been set up on earth would be to use a tent stake driven into the ground near each foot of the tripod, but secured to the PVC pipe.

This tripod is an inexpensive way to mount an antenna for emergency work or when helping out at a public service event. One could also use this support system to hold a Buddy-Pole or a dipole antenna made with two Ham-Stixs when working HF. This tripod is very lightweight, so it is easy to carry. I look forward to using this setup at future public service events and RACES drills.

FD2007 Conquered!

Field Day has to be the biggest pot Ham Raidom has to throw our volunteer hours into, stir them up and see what we have baked at the end. It is a testimony to dedication, problem solving and at 2AM just plain doggedness. My hat is off to all who participated in the PAARA effort, and I hope that, in spite of some disappointments, you are proud of your contribution. The Friday tower and antenna assembly went fairly smoothly. New friends were made and new talents discovered. We had the 20 and 40 meter monobanders up by about 5PM, (having initially forgotten to spread the tips at the end of the elements, which required a quick tower climb), and the phone's KLM 34A and 40M dipole were up by about 7PM. N6NU's cw station ran on the 350 ft 'V-Beam' put up under the guidance of N6DQ. The VHF crew took care of themselves very competently as did the GOTA station with a tower trailer and 'triband Jr'. We were off the site by sunset. Saturday we were off and running and it was clear from the get-go that we were putting out a great signal on all three stations. We operated at a record pace the entire 24 hours, and if **Ron, W6AZ's** math is accurate, we set a PAARA record for 3A. All this at such a low period of the sun spot cycle.

At the July board meeting the FD effort was critiqued and several operating issues were aired in a very forthcoming manner which will result in some improvements factored into next year.

de, Gerry, N6NV

THANK YOU AL, WB6IMX.

PAARA wishes to thank Al Montoya, WB6IMX, for all of his time and efforts in maintaining the PAARAsite (www.paara.org) for all of those many months during the last year. Al took on that responsibility when asked during a period of time when our little radio club really needed some expertise on short order. Al did a super job and was instrumental in making a number of unique and interesting changes to our format and public image via our web pages.

PAARA really appreciates your input Al. Thanks so much for your help.

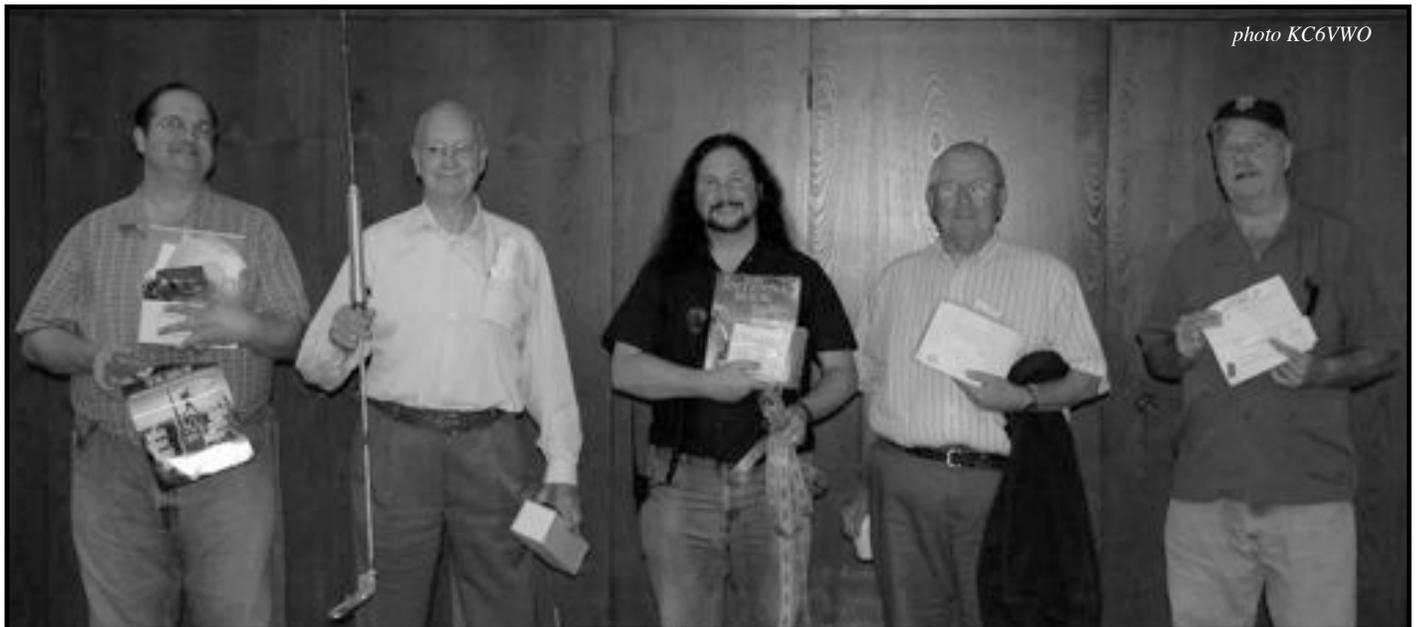
~Terry Finn. AA6T.

(Continued from page 85 pres corner)

who got the truck ready, **Dale, NX6S**, who shopped with **Les, WY6H** for the drinks, and **Rob, KI6INR**, who got the coffee supplies together and handled many details. Additional thanks to **Pink, KG6ILA**, **Peter, K6WEB**, and **Kit, WA6PWW**, who helped close down the Flea Market. There were several other people who helped out in various ways and all of your help is greatly appreciated.

We had a great meeting in July with **Eric, WA6HHQ**, from Elecraft who told us about the K3. What a great radio that appears to be. As many of you know, I've been an Elecraft K2 fan for a long time and this new radio is shaping up to be even better. I'm really pleased to see small companies like Elecraft revitalize the market for amateur radio gear.

PAARA has had a great month since our last issue of PAARAGraphs. What makes it great is all of you. Your dedication to the club and hard work has truly made us special. I'm constantly receiving compliments on the 'energy' in our club. Thank you and keep up the great work. ~Kristen K6WX



Congratulations: July 6th 2007 PAARA Raffle Prize Winners

- 1st Prize:** Rob Riley / KI6INR / Yaesu VX-2R / 2m / 440 MHz / HT
- 2nd Prize:** John Bartelme / N6FLX / Super Antennas MP-1 with Tripod
- 3rd Prize:** Barry O Pfeil / K6RM / Elecraft W1 Wattmeter / Bargraph / Forward Power / SWR / PC Interface
- 4th Prize:** Robert Lupo / KG6SKA / Elecraft XG1 Test Oscillator
- 5th Prize:** Robert Lupo / KG6SKA / ARRL 20th Edition Antenna Book with CD
- 6th Prize:** Steve / KG6EKC / PAARA KPH Tour Ticket
- 7th Prize:** Rob Riley / KI6INR / Tripp Lite 13.8V DC / 3 Amp / Power Supply
- 8th Prize:** Patricia Gibbons / WA6UBE / Elecraft DL1 Dummy Load

PAARA Members and Visitors: THANK YOU FOR YOUR SUPPORT of the exciting monthly raffles! Since Feb. 03, 105 Radios, including 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 is having a remarkable year in 2007! If you aren't a member, please join PAARA now, and experience fun 2007 events with the "friendliest club around."

~ K6AK Jim

PAARAgaphs—August 2007

Celebrating 70 years as an active ham radio club—Since 1937

PAARA August 3rd 2007 Meeting

PAARA “The Friendliest Club Around”

Palo Alto Amateur Radio Association, Inc. www.paara.org

Date and Time: Friday, August 3rd at 7 p.m.

Menlo Park Rec. Center, 700 Alma St., Menlo Park, CA.

Welcome Members and Visitors / Raffle Prizes:

FIRST PRIZE: YAESU VX-3R “New Product”

2m / 440 MHz / Ultra Compact - HT



- Designated Earphone Jack for FM Stereo / AM / SW / TV / Aircraft / Public Service
- High-Capacity Lithium-ion Battery and Charger
- Operate with AA Batteries using Optional FBA-37 Battery Case
- Internal Bar Antenna for AM Broadcast Band Reception
- Text Message and CW Training Features

SECOND PRIZE: Yaesu FT-

1802M/E

2m / 50W / Mobile



- Extended Receiver Coverage
- Illuminated Microphone with Keyboard Frequency Entry
- 221 Memory Channels with Alpha-numeric Labeling
- Dedicated 10-Channel NOAA Weather Broadcast Channels
- Adjustable Mic Gain / Wide/Narrow Deviation / RX Bandwidth

THIRD PRIZE: Elk Antennas 2m/440 Five Element Log Periodic Antenna / 9 dBi Gain

FOURTH PRIZE: 225 Piece First Aid Kit with Multi-Compartment Organizer

FIFTH PRIZE: Powerex MH-C204W Travel Charger with Four 2500 mAh Batteries

SIXTH PRIZE: ARRL Hints and Kinks Book

SEVENTH PRIZE: Memorex 50 PK CD-R Discs and JVC 30 PK DVD-R Discs

EIGHT PRIZE: Gordon West Morse Code 0-5 wpm Teacher Two CD Set

Since February 2003, 105 Radios, including 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, Rick, Mark, and everyone at HRO for their continued SUPPORT!

~K6AK Jim

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PAARA Radio NET
 and Swap Session
 every Monday evening
 8:30pm local time
 on the
145.230 –600 MHz repeater
PL tone off

control operators:

Week	Operator
1 st Mon.	Pink Foster, KG6ILA
2 nd Mon.	Peter Sheerin, K6WEB
3 rd Mon.	Doug Teter, KG6LWE
4 th Mon.	Terry Ridgeway, N6ZAG
5 th Mon.	Doña Kerns, KI6DAR



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

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 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 tone off.

Membership in PAARA is \$18.00 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

Permission is granted to reprint from this publication with appropriate source credit.

Join us for pre-meeting eyeball

QSO
August 3rd
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!

ADVERTISERS WANTED.

PAARA members are encouraged to purchase an annual advertising space in the PAARA newsletter, commonly known as PAARAgaphs. This space is the size of a regular business card and only costs \$60.. annually. The money really assists our Association in producing and mailing the finest printed radio club newsletter in the western United States.

If you or your employer have a service to offer or a product to sell, please consider running an ad or an infomercial in PAARAgaphs. Remember that this little publication is distributed to many hams and ham radio supporters who will read it cover to cover. Simply contact the PAARAgaphs representative, Terry Finn, AA6T, at:

aa6t@arrl.net or 650-366-9111 to submit an ad.

W6AZ



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To develop a reliable PAARA Rooster, Data Base, PAARAgaphs mailings

ALL CHANGES OR CORRECTIONS
 should only go to:

PAARA Secretary, David Ungar, W6DH 650-255-2131
ungar@mac.com, or at General meetings
(this includes changes in Membership or Family Membership)

PAARAgaphs E-mail address: k6uro@arrl.net
 Submit material for PAARAgaphs by the 15th

Text: WORD, RTF, or ASCII
 Photos: JPEG or TIFF raster images

Missing PAARAgaphs, too many copies, wrong name or
 Call on label? Contact Database Manager:
 Rick Melrose K6RDM, 408-732-2247, k6rdm@arrl.net

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- 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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