

K6YQT

PAARA NEWSLETTER  
VOLUME 53 NUMBER 10, October 2004

W6OTX

# PAARAgraphs



Celebrating 67 years as an active ham radio club—Since 1937  
Newsletter for the Palo Alto Amateur Radio Association, Inc.



## CALENDAR

- Oct.....1 **PAARA Meeting, 7:30**  
Menlo Park Recreation Center  
700 Alma Street, Menlo Park
- Oct.....6 **PAARA Board Meeting, 7:30**  
Red Cross Bld., 400 Mitchell Ln., Palo Alto
- Oct.....15-17 **Pacificon, Concord, CA**
- Nov.....5 **PAARA Meeting, 7:30**
- Nov.....10 **PAARA Board Meeting, 7:30**

## PROGRAM

October 1, 2004 7:30 P.



Program:

**VK0IR Heard Island "Outpost at the Edge" DXpedition**

Join us for pre-meeting eyeball  
at Su Hong Restaurant , 1039 El Camino Real, Menlo Park  
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 order and bill.

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

## PAARA Membership List

As of the September 2004 Friday evening meeting, we had 212 paid up members of PAARA. However, only 59 of those members had picked up their personal copy of the rather detailed PAARA membership list at the last two month meeting dates. They have been made available by the PAARA Secretary who checks the information and signs them off as being personally received.

The reason that they are not being mailed this year to the members is because the PAARA Board of Directors decided to gain better control over the information contained within the membership list. The Board had learned of some information farming activities last year wherein someone had inadvertently allowed their list to be taken and used by a telemarketer.

Should you require one of these really well done, detailed membership lists, please see the PAARA Secretary at the next Friday meeting date. Should you discover a mistake in the listed information for yourself on the membership list, please send an e-mail advising of the correct information directly to the membership co-chairperson who handles the information control, Lisa Rice. Her e-mail is listed in PAARAgraphs.

~ PAARA Secretary. Terry Finn. AF6TF.

**SPEAKER:** Award winning, digitally filmed, PBS quality travelogue

**PROGRAM:**

**VK0IR Heard Island  
"Outpost at the Edge" DXpedition**

Heard Island is one of the Earth's most pristine and isolated natural wildernesses, and one of the few places on the planet completely free from any human introduced species. This documentary traces the early nineteenth century American sealing history through the Australian occupation in the 1950's, and finally to the famous 1997 VK0IR DXpedition. Don't miss this; it is amazing and breathtaking!

~Jim, K6AK

# Miscellaneous

## ELECTRONIC FLEA MARKET

Sponsorship by A.S.V.A.R.O.  
 [Association of Silicon Valley Amateur Radio Organizations]  
 Second Saturday of month, March-October, 6 AM-2PM  
 Howard M. Krawetz, N6HM 650-856-9761

### Hosts:

Oct. 9 West Valley Amateur Radio Association.

## PAARA Palo Alto Amateur Radio Association

meets 1st Friday 7:30 each month, Net 145.230 each Monday 8:30,  
 contact: Andreas Junge N6NU.....(650) 233 0843

## FARS Foothills Amateur Radio Society

meets 4th Friday 7:30 each month,  
 contact: <http://www.fars.k6va.org>.

## NCDXC Northern California DX Club

meets 2nd Friday 7:30 each month,  
 repeater for member info 147.360, Thur 8:00PM,  
 contact: Mike Gavin W6WZ, (650) 851 8699.

## NorCalQRP Northern California QRP Club

meets 1st Sunday each month,  
 contact: Jim Cates 3241 Eastwood Rd., Sacramento, CA 95821.

## SPECS Southern Peninsula Emergency Communication System

meets each Monday 8:00PM on Net 145.27, 440.80 MHz, [www.specsnet.org](http://www.specsnet.org)  
 contact: Tom Cascone, KF6LWZ, 650-688-0441 [specs@svpal.org](mailto:specs@svpal.org)

## SCARES South County Amateur Radio Emergency Service

meets 3rd Thursday 7:30 each month, San Carlos City Hall.  
 Net is on 146.445 [PL 114.8] & 444.50 (PL-100) 7:30 Monday evenings.  
 contact:

## SCCARA Santa Clara County Amateur Radio Association

Operates W6UU & W6UU/R, repeater 146.985-pl  
 Nets: 2m, 7:30 Mon; 70cm, 442.425+ (pl 107.2) Thur.  
 Web site [www.qsl.net/sccara](http://www.qsl.net/sccara)  
 meets 2nd Mon each month @ 7:30 PM.  
 contact: 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: Lou Stierer WA6QYS 408 241 7999

## WVARA West Valley Amateur Radio Association

operates W6PIY repeater 147.39+, 223.96, 441.875, 1286.2  
 WVARA now has a 6M repeater, linked to 440 and 1.2GHz  
 meets 3rd Wed every month.  
 contact: Bill Ashby N6FFC, 408-267-3118 or  
 N6FFC@Juno.com or N6FFC@ARRL.NET

## Perham Foundation (discontinued)

## Disaster Services

### PALO ALTO CHAPTER, American Red Cross, [www.paarc.org](http://www.paarc.org)

400 Mitchell Lane  
 Meets 3rd Wed. each month 7:30PM.  
 HF, packet, BBS, ATV, OSCAR Gateway, NASA satellite.  
 contact: Mac Millian 650-688-0423. [MACM@paarc.org](mailto:MACM@paarc.org)

### SAN JOSE CHAPTER, American Red Cross

contact: Scott Hensley KB6UOO, (408) 967 7924, [FSHENSLEY@NOVELL.COM](mailto:FSHENSLEY@NOVELL.COM)

## 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: Al WB6IMX@att.net.

## Swap meet, LosPositas College, Livermore, 1st Sunday each month.

Contact: Cliff Kibbe (209) 835 6715 or Eliot Ross (925) 606 7710

(please send changes to PAARAgaphs editor: [k6uro@arrl.net](mailto:k6uro@arrl.net))

## Palo Alto Amateur Radio Association, Inc.

PO Box 911

Menlo Park, CA 94026

President .....Andreas Junge N6NU.....650-233 0843  
[n6nu@arrl.net](mailto:n6nu@arrl.net)  
 Vice President.....Jim Rice, K6AK.....650-851-2274  
[k6ak@arrl.net](mailto:k6ak@arrl.net)  
 Secretary .....Terry Finn, AF6TF.....650-366-9111  
[terry@incognitoservices.com](mailto:terry@incognitoservices.com)  
 Treasurer .....Ron Chester, W6AZ .....408-243 2221  
[ron@taxhelp.com](mailto:ron@taxhelp.com)  
 Membership.....Vic Black, AB6SO.....650-366 0636  
[ab6so@smrn.com](mailto:ab6so@smrn.com)  
 Membership.....Lisa Rice, KG6KQS.....650-851-2274  
[lisarice@earthlink.net](mailto:lisarice@earthlink.net)  
 W6OTX & K6YQT Station Trustee.Gerry Tucker, N6NV..650-326 4908  
 Property.....Gerry Tucker, N6NV.....650-326 4908  
 Badges.....Dave Rogers, K5DKR .....650-361-1555  
[k5dkr@arrl.net](mailto:k5dkr@arrl.net)  
 Sign Maker.....Steve Brune, KG6OUB.....650-740-4367  
 Raffle.....Jim Rice, K6AK.....650-851-2274  
 Ticket Master.....Kyle Rice, KG6MSK  
 Ticket Master assistant, Jan Brune, K6IAN.  
 Advertising.....Terry Finn, AF6TF.....650-366-9111  
 Field Day Coordinator.....Gerry Tucker, N6NV.....650-326 4908  
 FD Logistics Coordinator .Steve Brune, KG6OUB.....650-740-4367  
[stevebrune@sbcglobal.net](mailto:stevebrune@sbcglobal.net)  
 ASVARO representative Howard Takaoka, KG6GRO 650-856-9761  
[htakaoka@excite.com](mailto:htakaoka@excite.com)  
 Webmaster .....Peter Sheerin, K6WEB.....  
[K6WEB@arrl.net](mailto:K6WEB@arrl.net)

## Board of Directors

Gerry Tucker, N6NV.....650-326 4908.....'05  
[gerry\\_tucker@juno.com](mailto:gerry_tucker@juno.com)  
 Rolf Klibo, N6NFI .....650-856-2748 ....'05  
[klibo@earthlink.net](mailto:klibo@earthlink.net)  
 Adrianus Schrauwen, W6AJS...650-494-6256 ...'04  
[hagenees@att.net](mailto:hagenees@att.net)  
 Bob Korte, KD6KYT.....650-595 1842 ..'05  
[rgk4u@aol.com](mailto:rgk4u@aol.com)

..see "Calendar" for Board meeting times, visitors welcome-

## PAARAgaphs Staff

Editor.....Wally Porter, K6URO.....650-494 7038  
[k6uro@arrl.net](mailto:k6uro@arrl.net)  
 Database.....Lisa Rice, KG6KQS.....650-851-2274  
[lisarice@earthlink.net](mailto:lisarice@earthlink.net)  
 Columns.....Vic Black, AB6SO.....650-366 0636  
[ab6so@smrn.com](mailto:ab6so@smrn.com)  
 .....Terry Finn, AF6TF.....650-366-9111  
[terry@incognitoservices.com](mailto:terry@incognitoservices.com)  
 Photography.....Steve Brune, KG6OUB.....650-740-4367  
[stevebrune@sbcglobal.net](mailto:stevebrune@sbcglobal.net)

additional pictures by

Dick Kors KM6EP, John Larribeau KR6MR, Wally Porter K6URO

## PAARAgaphs e-mail address: [k6uro@arrl.net](mailto:k6uro@arrl.net)

Submit material for PAARAgaphs by the 15th

Use WORD, MS Publisher, rich text, or ascii  
 (New Times Roman is the common font)  
 send pictures as attachments .jpg

PAARA Website: [www.paara.org](http://www.paara.org)

PAARA Forum: <http://www.paara.org/forum/>

\*\*\*\*\*  
 ★  
 ★ **LIFE MEMBERSHIP** ★  
 ★ Awarded by Action of the PAARA Board ★  
 ★ **Ron Panton, W6VG & Leslie Vickery, W6AKR** ★  
 ★ **Joe Gomes, KB6HDC** ★  
 ★  
 \*\*\*\*\*

## THE PAARA PICNIC PRESENTERS.

PAARA would like to recognize and thank **Jim Rice, K6AK**, **Lisa Rice, KG6KQS** and **Kyle Rice, KG6MSK**, for hosting the annual PAARA picnic on their property. You may recall that this event occurred on Saturday, September 11/04 from noon on into the evening. Many PAARA members came by and enjoyed the view, food and social activities.

The Rice estate is all the way up the canyon in Portola Valley which allows them a fantastic view of the greater Bay Area and an almost perfect antenna farm site. Jim gave exclusive tours of his ham shack and work bench area after playing show and tell with a huge home brew tower and mast assembly under construction.

Lisa supervised the food preparation and distribution in the kitchen and coordinated some of the pool players in the game room. The chef who was toiling over the hot barbeque most of the time was none other than **Gerry Tucker, N6NV**.

All the attendees had a great, relaxing time. Some even took part in a VHF/UHF weekend contest from a small portable station set up near the food tent. PAARA really appreciated the effort put forth by the Rice's. Thank you so much for supporting our local radio club.

~Terry Finn. AF6TF.

## RECOGNIZED AT THE LAST MEETING.

We had several visitors at the last meeting who were recognized by the membership and received gifts from PAARA. **N1YNQ, Jeremy**, who moved into the La Honda area a few years ago from Boston. **KG6DEW, Doug Coker**, and **WB6JZY, Jack Trollman** from Mountain View. **KG6NOT, Erick Castillo** and **N6ZAG, Terry Ridgway**, both from San Jose. (note: N6ZAG recently upgraded to extra class).

Two young men who just earned their technician licenses at the VE session in Redwood City: **KG6WEO, Todd Nagegast** of Santa Cruz and **KG6WEM, Erik Fears** of Mountain View. **KG6WDN, Dewayne Adams** of Saratoga actually joined PAARA that evening.

A special recognition was given to PAARA members **KRIPTO** who recently up-graded to extra class. Congratulations to **Mark Cohen**, of Hayward and **KG6RZG, Ruth Lacey** of Palo Alto who just passed her element one morse code exam. Way to go folks !!

We encourage all the PAARA members to make our guests and visitors welcome at our meetings and events. Please have them pick up a temporary visitor name badge at the front door so they don't feel left out and talk with them for awhile. This is one of the reasons our club is considered the most active and friendly radio association around.

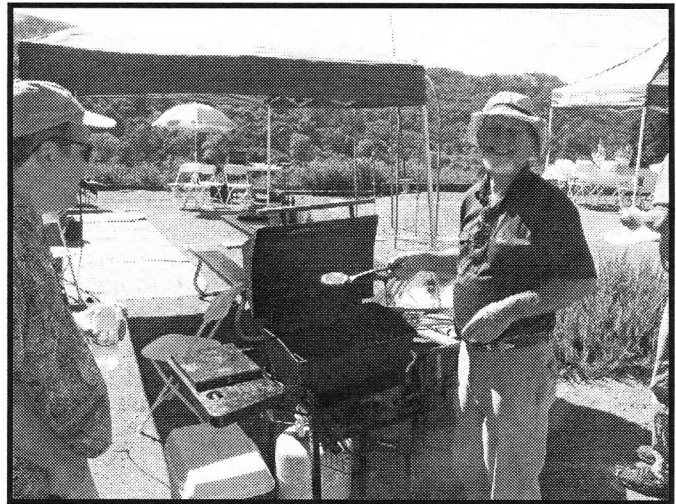
~Terry Finn. AF6TF.

My email address on the new PAARA Roster is obsolete.

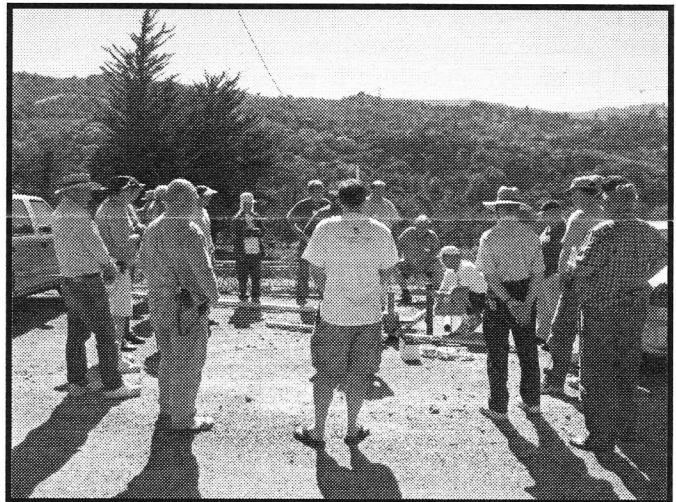
My correct email address is: **W6APZ@arrl.net**

Thanks, de Rich, W6APZ

## PAARA Picnic 2004

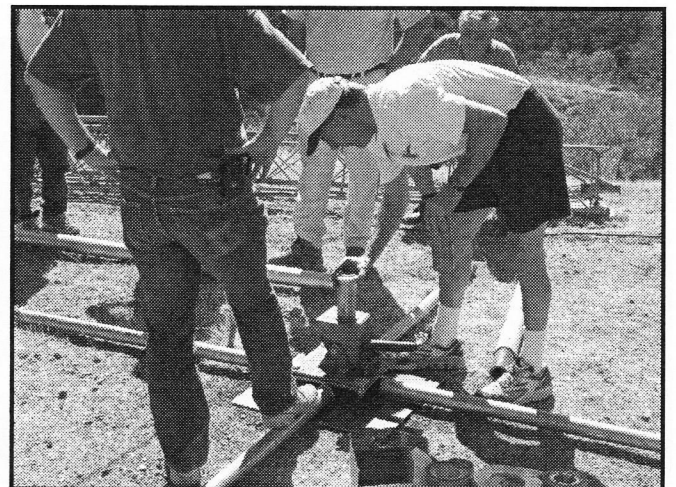


"Boy, they really shrink, don't they?"



"Let's forget the step ladder. Who wants to try the quick 45' antenna repair by running and jamming a pole vault pole onto this tilt-over-base, while grabbing tools on the way up?"

"I see you stretching, Clark!"





## BOARD OF DIRECTORS MEETING.

**September 15, 2004**

The regular monthly meeting of the PAARA Board of Directors was held on Wednesday, September 15/04 at the Red Cross offices in Palo Alto. The meeting was called to order by President Andreas Junge, N6NU at 1930 hours local time. In attendance was Vice President **Jim Rice, K6AK**; Treasurer **Ron Chester, W6AZ**; Secretary **Terry Finn, AF6TF**; PAARAgaphs editor **Wally Porter, K6URO**; Board members **Gerry Tucker, N6NV**; **Bob Korte, KD6KYT**; **Adrianus Schrauwen, W6AJS**; **Rolf Klibo, N6NFI** and **Vic Black, AB6SO**. PAARA members **Dave Rogers, K5DKR**; **Steve Brune, KG6OUB**; **Stan Towle, WA6ZGI** and **Peter Sheerin, K6WEB** also attended.

Treasurer **Ron Chester** presented a rather detailed report on the costs of various events sponsored by PAARA so far in 2004. He provided an insight into how PAARA may have to restrict spending on future events and consider raising the membership fee so that costs can be covered. This whole debate was tabled until the results are in and tabulated by the committee that is preparing and running the membership survey.

**Peter Sheerin** provided an up-date regarding specific changes that he has made to the PAARAsite web page. To facilitate ease of use for PAARA members who may wish to use the special interest group portions of the PAARAsite, he will make several changes to the wiki page format.

A new committee was established to review the Association By-Laws which have not been up-dated for many years. Serving on the committee, as appointed by the President are: **Adrianus Schrauwen**; **Ron Chester** and **Peter Sheerin**. It will be known as the PAARA By-Law Review

Committee and will report directly to the Board of Directors on a monthly basis. Any amendments will be presented to the general membership at a regular meeting to be voted upon before the new by-laws will take effect.

As many new members are joining PAARA, it has been suggested that ARRL members should bring their older, out-dated or un-used copies of QST to a regular Friday evening meeting so they can be given to the new PAARA members or guests. This will assist newer hams in discovering the value, benefits and existence of the national radio organization. We are still attempting to obtain a 51 per cent member of ARRL ratio so we can once again become an officially recognized ARRL radio club.

Starting in January 2005, **Gerry Tucker** will be bringing his truck to the Friday evening PAARA meeting that occurs closest to the Saturday morning electronic flea market. This will allow PAARA members and guests to donate various items of radio or electronic interest to PAARA. Gerry will then establish a sales booth at the flea market to sell the donated items. All proceeds will go directly to the PAARA general operating fund.

**Jim Rice** continues to provide excellent meeting speakers and raffle prize entertainment. If a PAARA member has an idea regarding a speaker, please do not hesitate to contact Jim directly and personally as it is a rather tough job. The raffle prize event is still viable and creating lots of excitement at the meetings.

The PAARA sponsored code training class will start on Tuesday evening, Sept 28/04 in Redwood City at the Sequoia Club, 1695 Broadway at 7 pm. It will run every Tuesday and Thursday evening for eight weeks.

PAARA is still considered the most active, friendly and professional radio club in California. Thanks to the PAARA members for keeping it that way.

~PAARA Secretary: *Terry Finn, AF6TF.*

## Hams

These two sites will lead you to an extensive investigation. As the Emergency Coordinator for the Half Moon Bay ARES group I plan to follow through with this project and provide this alternative (to the wire line phone access) to the internet to our clients such as the Fire Department and the Police Department, etc. Please join me in becoming knowledgeable about WinLink.: <http://www.winlink.org/>, <http://www.arescom.com/>  
 73, - Jay, WA6SBO



### THE FIRST BAPTIST CHURCH YOUTH MINISTRY.

PAARA member **Rick Line, KG6TMD**, is known by many in our radio club as, 'The Pastor', or 'The Sky Pilot', simply because of his vocation. In reality he is just another good guy who happens to really enjoy amateur radio and all of its ancillary activities.

He operates a youth ministry within the First Baptist Church in Menlo Park. Several of his young participants have been brought to the VE testing sessions by him to obtain their technician licenses. Most recently, Rick was given a couple of brand new GMRS two way radios for this ministry to assist in building up their new ham shack with equipment.

Those radios were donated by PAARA member **Stan Towle, WA6ZGI** who won them at the PAARA monthly meeting during the radio prize raffle. Thank you Stan. You are doing a great job for the amateur radio service and the reputation of our radio club, PAARA.

~Terry Finn, AF6TF

### NC6U. Ron Carmichael donates again !!

PAARA member **Ron Carmichael, NC6U**, is busy packing up his many years of gathering things and keeping them at his home in San Carlos. He will be retiring soon, so he and his rather patient wife have decided to sell their home in the San Carlos hills and move up into the mountains where they have a nice little piece of property, away from the hustle and bustle of the Bay Area.

As a result, Ron has been sloshing through his ham shack and store room looking for items of interest that he can sell or donate. This week he located a new mag mount 2 meter antenna and an older Heathkit oscilloscope that he has given to **Stan Towle, WA6ZGI**.

Stan in turn, will donate these items to **Sister Jean, KG6UGO**, of the Dominican Nuns for their ham shack at the Mission San Jose. Thank you Ron for continuing what has become a regular activity for you and many other PAARA members.

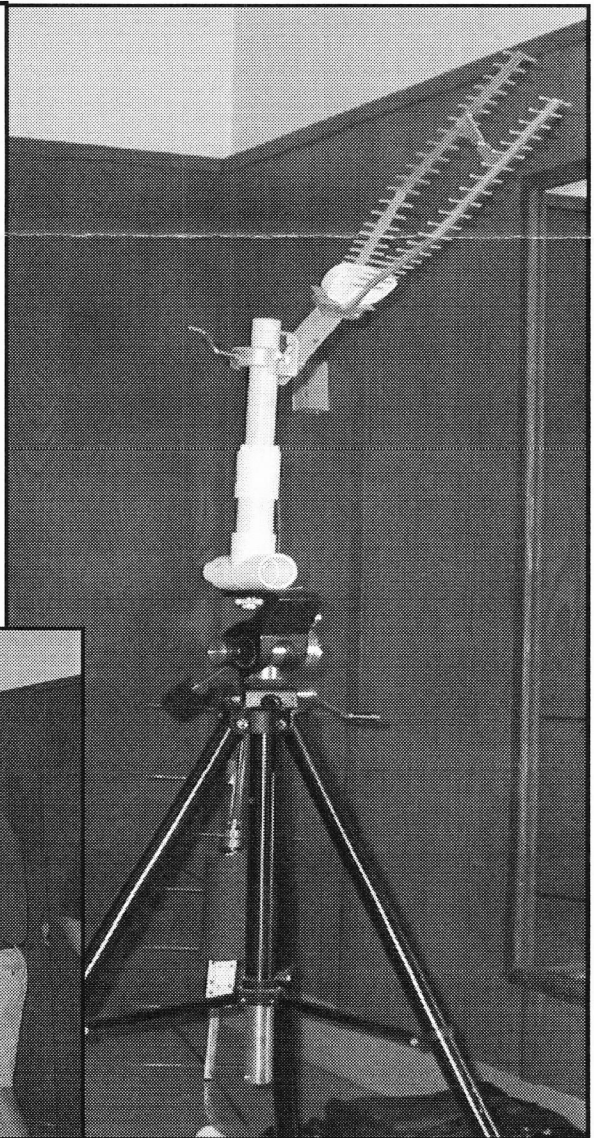
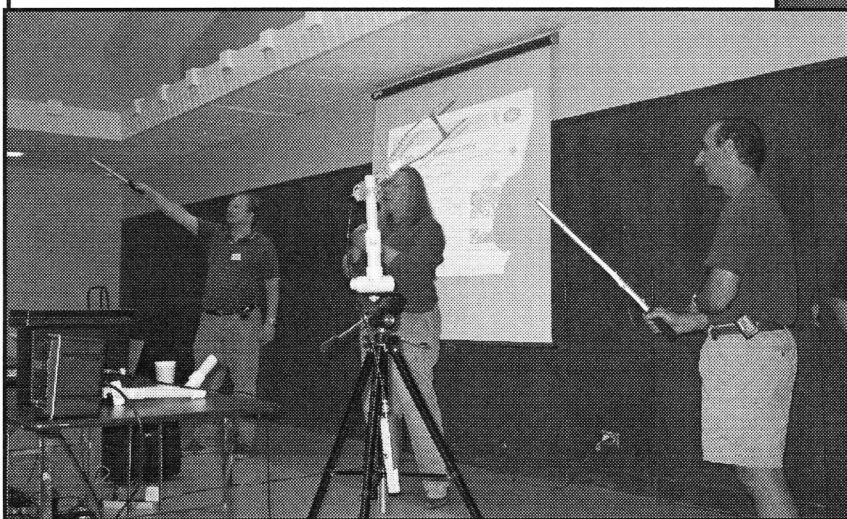
~Terry Finn. AF6TF.

## OSCAR

Hi,

For those of you who may not know me, I'm the AMSAT area coordinator here on the SF Peninsula. I'm also Vice President of Project OSCAR, the oldest radio club exclusively dedicated to amateur satellite use. About a month ago I was approached by one of the clubs in the central valley about providing a monthly satellite news column. With the launch of AMSAT OSCAR - 51 (Echo) I received two additional requests. After considering it, it seemed prudent to put together a column that any club can use for their news letter. The first is attached, and you are free to publish it in your club newsletter. It's a bit long because of Echo and in the future I think one half page would be appropriate for a monthly column. In the future we will post it on the Project OSCAR website so current and past articles will be available. Please let me know a) if you are interested in receiving this article for publication and b) what format you would prefer. I currently have MS Word and PDF formats available but can add others if there is a demand.

73, Emily W0EEC



# PAARA FIELD DAY 2004



## PAARA

### October 1<sup>st</sup> Meeting and Raffle

PAARA "The Friendliest Club Around"

Palo Alto Amateur Radio Association, Inc.

Date and Time: Friday, October 1<sup>st</sup>, at 7:30 p.m.

Location: Menlo Park Recreation Center, 700 Alma St., Menlo Park, CA.

PAARA Website: [www.paara.org](http://www.paara.org)

### Welcome Members and Visitors

**SPECTACULAR, UNBELIEVEABLE, & HEART-POUNDING EXCITEMENT!!**

"MUST ATTEND EVENT OF THE YEAR" say Amateur Radio Operators Worldwide...

*Mark your calendar and don't sit down in that Barcalounger because "that's not all folks!"*

**FIRST PRIZE:** Come try your hand at winning the

### **Icom IC-2100H 2m, 55W Transceiver**

Superior IMD, PC programmable, Backlit mic (green or amber display)

**SECOND PRIZE:** Arrow II Satellite Antenna 146/437 - 3 el. VHF / 7 el. UHF  
Handheld / Weight 19 oz. / "Fun, with plenty of gain!"

**THIRD PRIZE:** TWO Uniden FRS / GMRS Radios / Backlit Display  
NiMH Batteries with Drop In Charger

Don't forget about the **TWO / FOURTH Place Raffle Prizes plus  
a Bonus Prize of a  
1-year subscription to WORLD RADIO.**

Enjoy our fabulous speakers, free refreshments, chatting with your friends, and the chance to take home an unbelievable prize. See you at Round Table after the meeting!  
Kyle, Ian and I are having a lot of fun.

**THANKS AGAIN FOR MAKING THE MEETINGS VERY EXCITING!**

**The PAARA Raffle is FULL of SURPRISES and  
YOUR LUCKY DAY may be October 1<sup>st</sup>**

Contact Kyle, KG6MSK and Ian, K6IAN,  
"Two of PAARA's youngest members" for tickets at the meeting.

Members and Visitors: THANK YOU for your continued support of the PAARA Raffle!

**Since February 2003 47 Radios, including an ICOM 706 MK IIG  
have gone to Fellow Hams, THANKS TO YOU and the PAARA Raffle!**

Special Thanks to Howard and HRO for their continued SUPPORT!

~K6AK Jim

**Congratulations:**

PAARA Raffle Prize Winners / September 10<sup>th</sup> 2004  
 1<sup>st</sup> Prize: Gary Palmer AE6NP / Elecraft KX1 Transceiver  
 2<sup>nd</sup> Prize: Ron Chester W6AZ / Arrow II Satellite Antenna 146/437  
 3<sup>rd</sup> Prize: Stan Towle WA6ZGI / Two FRS/GMRS Radios  
 4<sup>th</sup> Prize: Michael Dewayne Adams KG6WDN / Altoids  
 4<sup>th</sup> Prize: Dave Cooper KE6PFF / Sharp Wizard Organizer



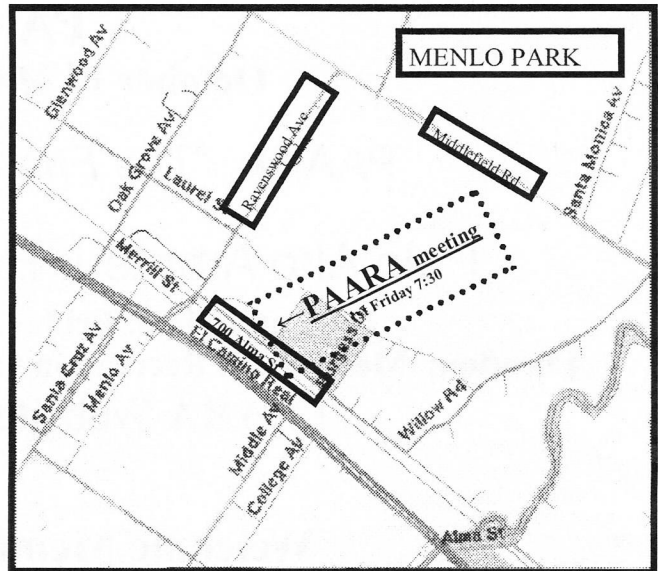
Bonus Prize: John Eisenberg K6YP / 1 yr. Subscription to World Radio

PAARA Members and Visitors: THANK YOU FOR YOUR

SUPPORT of the upcoming PAARA 2004 Dream to Reality Raffle II as well as the exciting monthly raffles! Since Feb. 03, 47 Radios, including an ICOM 706 MK IIG and TWO Elecraft KX1's have gone to Fellow Hams, THANKS TO YOU!

PAARA is having a remarkable year in 2004, and if you aren't a member, please join PAARA and experience fun events with the friendliest club around.

~Jim, K6AK



**PAARA Website**  
[www.paara.org](http://www.paara.org)

**PAARA BADGES**  
 to order one, contact coordinator:  
**Dave Rogers, K5DKR**  
[dkr55@bigfoot.com](mailto:dkr55@bigfoot.com)

Join us for pre-meeting eyeball

**QSO**  
**October 1st**  
**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.*


**6 pm— at Su Hong Restaurant**  
 1039 El Camino Real  
 Menlo Park  
 —across from Kepler's Book Store—

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

control operators:


- 1st Mon KG6ILA, Pinkney Foster
- 2nd Mon N6NU, Andreas Junge
- 3rd Mon AD6FX, Jon Zweig
- 4th Mon AA6PA, Bill Rausch
- 5th Mon tba

Want and For Sale ads in PAARAgaphs are FREE to members  
 (Submit by e-mail or letter before the 15th of the month)

 Howard at HRO says: "HAM accessories and gift certificates are available at HRO"



"Congratulations PAARA on a successful year."





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**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 only.

- 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).
- For Profit organizations and/or individuals: \$5-business card size, \$25-half page, \$50 full page or back cover.

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. All fees payable in advance by the year with "scanner-ready" copy or text-only ads. Give payment and copy to Bob Korte

**PAARA · Palo Alto Amateur Radio Association · P.O. Box 911, Menlo Park, California 94026-0911**

- Club meetings are on the first Friday of each month, 7:30pm at the Menlo Park Recreation Center, 700 Alma Street, Menlo Park, CA.
- Radio NET every Monday evening, at 8:30pm, on the 145.230-600 MHz repeater, PL tone off.

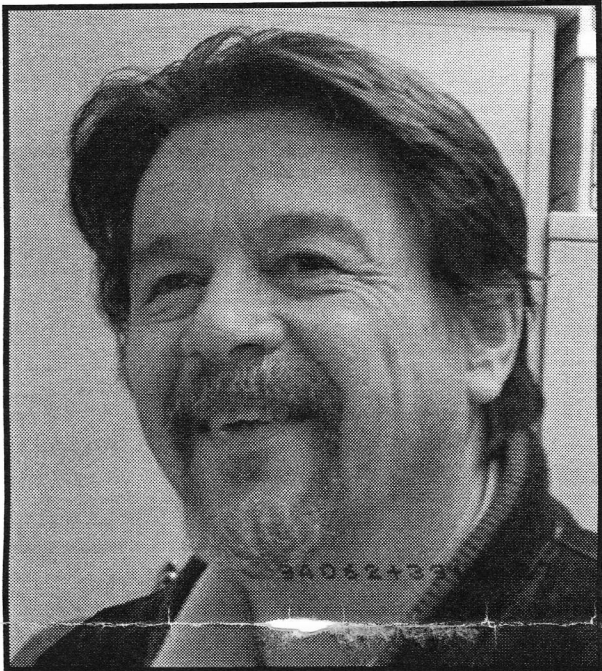
Membership in PAARA is \$12.00 per calendar year which includes a subscription to PAARAgaphs, \$6 for additional family members (no newsletter).  
 Make payment to the Palo Alto Amateur Radio Association, P.O. Box 911, Menlo Park, CA 94026-0911  
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# PAARagraphs October 2004

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



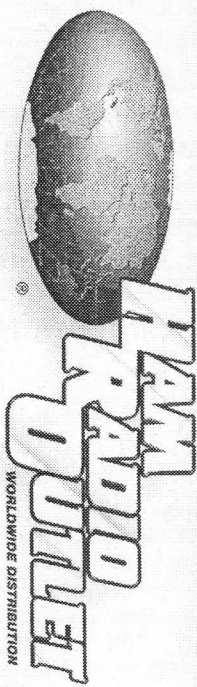
**FIRST CLASS MAIL**



Korsak, Andy KR6DD  
 504 Lakemead Way  
 Emerald Hills, CA 94062-3919

12 STORE BUYING POWER

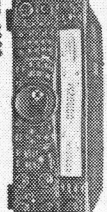
**12 STORE BUYING POWER**



**OAKLAND, CA**  
 2210 Livingston St., 94606  
 (510) 534-5757  
 (800) 854-6046  
 Mark, W17YN, Mgr.  
 1-880 at 23rd Ave. ramp  
 oakland@hamradio.com

**SUNNYVALE, CA**  
 510 Lawrence Exp. #102  
 94085  
 (408) 736-9496  
 (800) 854-6046  
 Howard, KE6PWH, Mgr.  
 So. from Hwy 101  
 sunnyvale@hamradio.com

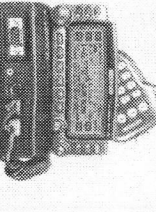
**KENWOOD**



**TS-2000** HF/VHF/UHF Transceiver  
 • Power of 200W  
 • 100% duty cycle  
 • 100% efficiency  
 • 100% reliability  
 • 100% performance  
 • 100% satisfaction



**TH-D7A(D)** Dual-Band Transceiver  
 • 28KHz tone burst  
 • 50W/100W  
 • 200W  
 • 200W  
 • 200W



**TM-D700A** Dual-Band Transceiver  
 • 50W/100W  
 • 200W  
 • 200W  
 • 200W

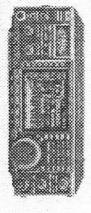


**COAST TO COAST** mobile radio  
 • 50W/100W  
 • 200W  
 • 200W

**ICOM**



**IC-706MKII** HF/VHF Transceiver  
 • All modes  
 • 50W/100W  
 • 200W  
 • 200W



**IC-756 PRO II** All mode Transceiver  
 • 50W/100W  
 • 200W  
 • 200W

**ALINCO**



**DL-198T** 28W VHF Transceiver  
 • 28W  
 • 28W  
 • 28W



**DR-135TP** 20W mobile radio  
 • 20W  
 • 20W  
 • 20W

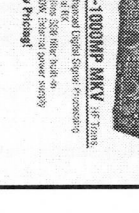
**YAESU**



**VX-7R** VHF Transceiver  
 • 50W/100W  
 • 200W  
 • 200W



**FT-1000** HF/VHF/UHF Transceiver  
 • 50W/100W  
 • 200W  
 • 200W



**FT-1000MP MKV** HF Transceiver  
 • 50W/100W  
 • 200W  
 • 200W

Sunnyvale, 510 Lawrence Exp. #102 (408) 854-6046