

PAARA *graphs*

Celebrating 62 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
- Nov 5, **PAARA Meeting, 7:30**
- Nov 10, **PAARA Board Meeting, 7:30**
- Dec 3, **PAARA Meeting, 7:30**
- Dec 8, **PAARA Board Meeting, 7:30**

2 m CODE PRACTICE, 2000 to 2030 PST, Tues W6APZ 145.23 repeater



PROGRAM

October 1, 1999
7:30 P.M.

Speaker:

(Speaker and subject not known at press time)

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



PAARA PONDERINGS

de VIC BLACK, AB6SO

PAARA member **Jeff Wheldon KF6PDF** reports that his wife has been offered overtime pay to attend a Ham radio license class. This sounds like a win-win situation for everyone. She's a high school teacher at Silver Creek High School in the San Jose East Side Union High School District. Apparently, the school administration is concerned about communications during an emergency and the Y2K scare has created even more of an incentive for the school administration to act. If the teachers become licensed, they will no doubt involve students and there could be a cascading effect resulting in some students becoming licensed. There's some possibility that it could lead to a school radio club as well. If nothing else, this could result in some positive public relations for ham radio in the local newspaper.

Congratulations to PAARA officers **Andreas Junge N6NU**, **Jon Zweig AD6FX** and **Dave Rice W6NUC**. They all worked 100 countries for the DXCC Award during the past year while keeping up with all of their volunteer work for PAARA. Most of the work was accomplished running 100 watts or less into vertical antennas or from mobile rigs. Also, congratulations to **Kit Kohlmoos W6ISO**. A recent issue of CQ Magazine indicated that Kit worked 115 countries in one contest weekend.

In August I wrote about **Jim Hale's (KJ5TF)** milliwatt attempt to Work All States from Arkansas using less than one watt total power. In parallel with that effort, Jim has now established a more challenging goal: DXCC with less than one watt total power expenditure.

Jim wrote, "During the ARRL CW DX contest, conditions on 15/10M were good for skip. To test milliwatt power in a DX situation, I ran my power down on the Index Labs QRP+ using my OHR WM-2 power meter. The antennas were a 2 element quad at 70 feet and a simple wire vertical hanging on a 20 foot Black Widow collapsible fishing pole with 2 radials lying on the ground.

(Continued on page 92 Ponderings)

Miscellaneous Dates

Flea Market at Foothill (info at: <http://joslin.com/FleaMarket>)
 Sept 11 Santa Clara County Amateur Radio Assoc., (SCCARA)
 Oct 9 South Peninsula Emergency Communication System (SPECS)

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

EMARC Electronics Museum Amateur Radio Club
 meets 4th Friday 7:30 each month,
 contact: Sheldon Edelman 650-858-2176, Edelman@richochet.net

NCDXC Northern California DX Club
 meets 2nd Friday 7:30 each month, repeater for member info 147.360, Thur 8:00PM,
 contact: Bob Mammarella KB6FEC 408 729 1544.

NorCalQRP Northern California QRP Club
 meets 1st Sunday each month,
 contact: Jim Cates 3241 Eastwood Rd., Sacramento, CA 95821.

Perham Foundation,
 contact: Jerry Tucker WA6LNV 650-961-3266

SPECS Southern Peninsula Emergency Communication System
 meets each Monday 8:00PM on Net 145.27, 440.80 MHz, www.specsnet.org
 contact: Tom Cascone, KF6LWZ, 650-688-0441. specs@svpal.org

SCARES South County Amateur Radio Emergency Service
 meets 3rd Thursday 7:30 each month, San Carlos City Hall.
 Net is on 144.45 & 444.50 (PL-100) 7:30 Monday evenings.
 contact:

SCCARA Santa Clara County Amateur Radio Association
 Operates W6UU repeater 146.385+ Nets: 2m, W6UU, 7:30 Mon; 10m,
 28.385, 8:00 Thur. meets 2nd Mon each month.
 contact: Jack Ruckman AC6FU

SVECS Silicon Valley Emergency Communications
 Operates WB6ADZ 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
 meets 3rd Wed every month.
 contact: Glen Lokke Jr. KE6NBO at 408 971 8626, or glokke@pacbell.net

Disaster Services

PALO ALTO CHAPTER, American Red Cross
 Meets 3rd Wed. each month 7:30PM,
 HF, packet, BBS, ATV, OSCAR Gateway, NASA satellite,
 contact: Alan Ball 650-688-0423.

SAN JOSE CHAPTER, American Red Cross
 contact: Scott Hensley KB6UOO, 408 249 7093, sh@richochet.net

VE Exams, 3rd Saturday each month, 11AM, 145.23-PL=100Hz
 American Legion Hall, 651 El Camino Real, R.C.
 contact: Al Montoya at WB6IMX@worldnet.att.net

October Contest Calendar, 1999 ~Vic Black, AB6SO (for rules and exchanges, see www.contesting.com)

- 2,3 VK/ZL/Oceania Contest, Phone 1000Z Oct 2—1000Z Oct 3
- 2 EU Autumn Sprint, SSB 1500Z—1859Z, Oct 2
- 2,3 California QSO Party 1600Z Oct 2—2200Z Oct 3
- 3 RSGB 21/28 MHz Contest, SSB 0700Z—1900Z Oct 3
- 9,10 VK/ZL/Oceania Contest, CW 1000Z Oct 9—1000Z Oct 10
- 9 EU Autumn Sprint, CW 1500Z—1859Z Oct 9
- 9,10 Pennsylvania QSO Party 1600Z Oct 9—0500Z Oct 10
 and 1300Z—2200Z Oct 10
- 9,10 Iberoamericano Contest 2000Z Oct 9—2000Z Oct 10
- 10 10—10 Day Sprint 0001Z—2400Z Oct 10
- 16,17 JARTS WW RTTY Contest 0000Z Oct 16—2400Z Oct 17
- 16 Asia—Pacific Sprint, CW 1230Z—1430Z Oct 16
- 16,17 Worked All Germany Contest 1500Z Oct 16—1500Z Oct 17
- 17 RSGB 21/28 MHz Contest, CW 0700Z—1900Z Oct 17
- 30,31 CQ Worldwide DX Contest, SSB 0000Z Oct 30—2400Z Oct 31
- 30,31 10—10 Int. Fall Contest, CW 0001Z Oct 30—2400Z Oct 31
- 30,31 BARTG RTTY Sprint 1200Z Oct 30—1200Z Oct 31

Palo Alto Amateur Radio Association, Inc.

PO Box 911

Menlo Park, CA 94026

President	Andreas Junge N6NU.....(650) 233 0843 andreas@atitech.com
Vice President	Jon Zweig, AD6FX (650) 324 8751 jzweig@sirius.com
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Trustee/Property/Badges	Fred Canham, K6YT (650) 948 9238
ARES Officer	Lily Anne Hillis, N6PGM (650) 325 5484
Club Historian	Steve Stuntz, K6FS.....(650) 322 4952
Advertising	Bob Korte, KD6KYT.....(650) 595 1842
Webmaster	Andreas Junge AD6FQ.....(650) 233 0843 andreas@atitech.com

*New Committee 12/98

Board of Directors

Charles Grandjean, WD6FAF (408) 739 5185 '00 wd6fafwebtv.net
John Buonocore, KD6ZL (650) 366 1658 '99
Terry Conboy, N6RY (925) 944 5388 '99 n6ry@qsl.net
Steve Stuntz, K6FS (650) 322 4952 '99
Doug Schliebus, K1DIT (650) 851 0727 '00 schliebus@aol.com

(see "Calendar" for Board meeting times, visitors welcome)

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Submit material for PAARAgaphs by the 15th

PAARA Website <http://www.qsl.net/paara/>

BIOGRAPHICAL SKETCH:

—Steve Stuntz, K6FS

A VOICE FROM THE PAST

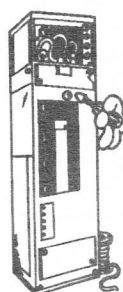
Check pages 45-46 of August QST: a clever use of old wine-bottle corks. ...

Note especially the italicized footnote at the end of the article - and this extract from K6FS log, plus embellishments...

3 Aug. 1989, 1820-1901 UTC. 24949.8 mHz USB - heard N4MPQ in QSO with KP4DLM. Appeared KP4 recently retired as official photographer-

for University of Puerto Rico; intensely disliked making photos of ballet and dancers. MPQ bristled, reminded him his Univ. has internationally-renowned ballet company in residence. Went on to mention her own career as soloist with New York City Ballet Co. and others. First time ever heard ballet, mentioned on ham bands by anybody associated with it. Called N4MPQ after she signed with KP4DLM; chatted for half-hour, learned she had studied under Balanchine, Danilova, been taken into NYCB at age 15, toured widely before retiring to North Carolina. Taught ballet classes in local studios, during summers at NC School of the Arts. Got interested in ham radio when she saw station operating at Boy Scout Jamboree. Twice

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WEB WANDERINGS

de Vic Black, AB6SO

Thanks to Les Zwiebel WB6ORZ for recommending a fascinating web site at <http://chide.museum.org.uk/chide/r.g.wells.html> <http://chide.museum.org.uk/chide/r.g.wells.html>. This tells the story of a British soldier held captive in a World War II prison camp in the Pacific. After a couple of years in the camp he and the other prisoners were eager for news from the outside world. They saved bits of tin foil, string, fence wire, charcoal, paper, wax and other odds and ends. The recycled materials were used to make their own capacitors, inductors, resistors and batteries. Using memorized plans and schematics from their prior experience at home brewing radios, the prisoners built a working regenerative receiver in order to listen to the BBC short wave broadcasts from England. The clandestine project itself, as well as the end results, were inspiring morale boosters for the prisoners.

Andreas Junge N6NU recommends <http://www.eham.net/> <http://www.eham.net> as an informative new web site. This site has several thousand links to other web sites and so ranks up their with other "super sites" such as <http://www.ac6v.com/> <http://www.ac6v.com>, <http://www.k1dww.com/> <http://www.k1dww.com> and <http://www.kluft.com/~ikluft/ham> <http://www.kluft.com/~ikluft/ham> which we have discussed before. Eham.net includes product reviews, ham radio news, classified ads, DX spots for all bands, operating news, QSL managers routes, a ham radio search engine and a large resources section complete with a chat channel and a soap box to allow you to express editorial opinions on ham radio related subjects. The site, called a "ham community", is somewhat unique in that it is more interactive than most and you are encouraged to add to the site. Incidentally, many hams are now using the chat channel to set up on the air schedules for special awards, experimenting, etc. You may want to mark this one as a favorite.

Vince Ferme VE3VFN urges us to try the QSL manager search program Pathfinder 2.0 which is available for free download at <http://www.qsl.net/pathfinder> <http://www.qsl.net/pathfinder>. Pathfinder, written by B, "is pre-loaded with the ability to search 12 popular sources of QSL information". Active DXers and Contesters appreciate good QSL route search engines. One of the finest on the Internet is the No. Florida DX Association search page maintained by B. Go to <http://users.southeast.net/~rhicks/k4ute.htm> <http://users.southeast.net/~rhicks/k4ute.htm>. Here you'll find more than 25,000 records of DX callsigns and their managers. Most manager locating services will only tell you who the manager is by callsign. Then you'll need to look up that callsign in various callsign directories. The No. Florida search engine brings up the address for you automatically along with any other known information. There's also a prefix lookup available which will provide the country name, longitude and latitude, continent, both ITU and CQ zones and information about when it was added to the DXCC list. Earlier I mentioned the web site for QSLMaker,

a freeware package to help you design and print your own QSL cards on card stock in your printer. In an e-mail message, the software's author John McDonough WB8RCR stated, "I thought you would like to hear a few statistics that just amazed me. The new website for QSLMaker produces all sorts of neat reports for me. Yesterday, after I posted a notice of the new version, the traffic, not surprisingly, jumped right up. The total volume was sort of a surprise, though. Almost 300 downloads have been served up in the past 24 hours. There were 50 pages served to Malaysia, but only 7 to Indonesia. Pretty interesting looking through the list of countries; kind of like reading contest logs. Malaysia and the UK were behind Belgium in number of requests. The greatest volume occurred around 7PM Pacific time". Go to <http://www.qsl.net/wb8rcr> <http://www.qsl.net/wb8rcr> for your copy of the software.

Referring to QSLMaker, Sylvester Liew 9M8SL said, I'm "one of the guys who downloaded from East Malaysia (Borneo Island), and it took me about 15-20 minutes. Jam-packed like a Highway traffic jam but it was worth it! Have tried using it last night and it is quite user friendly even for one who didn't bother to read the HELP files. 73 from The Hidden Paradise of Borneo." Be sure to visit the web site of the Mount Diablo Amateur Radio Club http://www.pacificon.org/pac99_1.html http://www.pacificon.org/pac99_1.html for information about this year's PACIFICON 99 hamfest. Festivities start with an all day antenna forum Friday, October 15. There is a separate charge of \$10 for this forum to cover cost of printed materials. The rest of the hamfest costs \$5 in advance or \$8 at the door and includes admission to commercial exhibits, forums and other activities on Saturday and Sunday October 16 and 17. PACIFICON is held at the Sheraton Concord Hotel in Concord next to Buchannon Airfield. The outdoor swap meet will be from 6 a.m. until 3 p.m. on Saturday. Kickoff speaker on Saturday at 9 a.m. will be FCC rules enforcer Riley Hollingsworth K4ZDH.

The ever popular QRP events (6 forums this year plus free compendium) will feature world famous speakers flown in from around the globe. Because of the success of the QRP sessions, some are now calling the hamfest QRPacificon. Even if you aren't "into" QRP, you may find it entertaining to watch some of the activities promoted by the 3000 member NorCal QRP club. One that promises to be especially entertaining involves building a station on site from parts supplied by NorCal QRP Club. The first 50 participants to ask on Saturday will be given free transmitter, receiver and dummy load kits including PC boards and all components. The kits must be assembled on site and then used in an HF "fox hunt" on Sunday. Unlike VHF hunts that require you to find the physical location of a hidden transmitter, this hunt will be to find and work the fox on the air (his frequency will be announced prior to the hunt). Recent major earthquakes in urban areas near Istanbul, Turkey and Athens, Greece have reminded us of the importance of emergency preparedness, including communications when the telephones are down. Go to FEMA's Emergency Management Institute's web page <http://www.fema.gov/home/emi/ishome.htm> <http://www.fema.gov/home/emi/ishome.htm> for self-paced home study programs. The courses are designed for both the

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During this contest, 110 DX stations were worked with mW and went into my log. They represent 47 different DXCC countries. Highest power used was 500 mW on an EA4 station. Lowest power was a G4 station worked with 5 mW. The G4 gave me a 559, and there were no repeats needed so I believe that report. I have received 16 DX QSL cards so far and the total power for all of them is 880 mW. Using DX-central dot com, <http://www.dx-central.com/> I have found many of these DX stations have managers in the states so I will be going after these QSL cards next. By then I should have my first 25 countries confirmed for milliwatt DXCC.

Just as with 5 watt QRP, 5 milliwatts QRPP doesn't mean anyone has to strain their ears. If conditions allow, I do it. If not, I go to 5w. If 5w won't work, I turn the radio off." Most hams sign "best wishes" with a 73. The QRP fraternity signs 72 to signify lower power "best wishes". Jim signs off 71!

Notice that Jim is doing this as a challenge and labor of love. The ARRL, which administers the DXCC award, doesn't distinguish among various power levels. The award is simply for working 100 or more DXCC countries. Power level, which can't be confirmed anyway, is not considered. If you've already made the DXCC Honor Role and want a new challenge, think about doing it again with very low power as a challenge. No doubt, after Jim reaches his goal it will be time for him to consider WAS using microwatts. Most microwatt work is more local, but in time someone WILL do it.

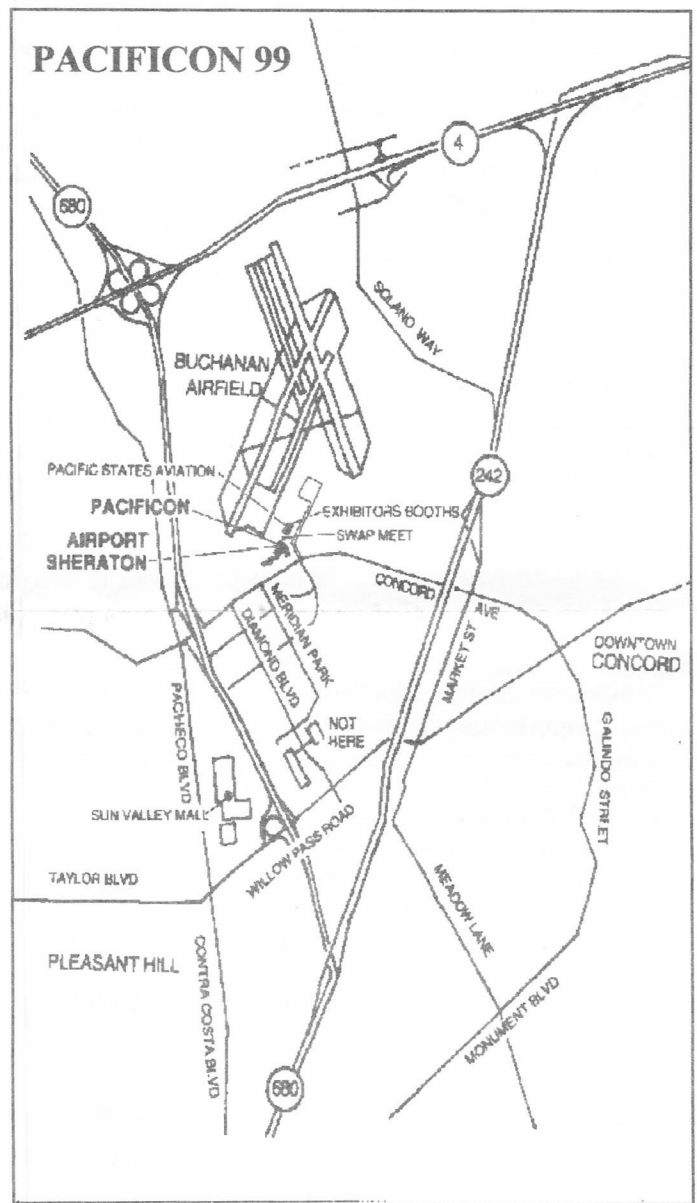
It was exciting to have test pilot Marty Knutson W0BBV talk to PAARA about his experiences flying U2 spy planes for NASA and the CIA. In 1960 another ham made a name for himself with his high altitude hi-jinks. Joe Kittinger N4HDP of Actamonte Springs, FL was a test pilot and pre-astronaut for NASA's predecessor, NACA. As a true pioneer, his job consisted of flying helium balloons to the edge of space and bailing out of an open gondola with nothing but a pressure suit and a parachute to test recovery methods for astronauts who might have to leave rockets headed for orbit. If a parachute was deployed too soon it would simply streamer out above Joe and then shred at lower altitudes. Special parachutes were built and had to be tested. They would be opened in the denser atmosphere after a very long free fall.

The problem was that there was so little air in the stratosphere that there was no drag to slow a man in free fall. With no air resistance there would be no sensation of speed as he dropped. During Joe's last jump from nearly 103,000 feet he had difficulty getting free of the balloon as he had frozen to his seat. When he finally cleared the gondola he looked up and saw his balloon shooting straight up at astronomical speed. He thought it had taken off because it was lighter without him. Finally he realized that the balloon wasn't headed to space but was stationary. Rather, he was falling at an outrageous speed.

At that time Joe became the only person to ever achieve the speed of sound in free fall as he passed 600 miles per hour.

Joe's nineteen and a half mile free fall lasted for over 13 minutes. Sometime when you have the time available, look at a clock and count off the minutes for 13 minutes. Imagine that you are falling at the speed of sound for that entire time. Thirteen minutes would be a major challenge even to the 40 meter ragchewers who have "push to listen" switches on their micro-

phones. Maybe Joe's the reason airline pilots swore they had seen UFO's fly by at high speed. ("Ham shaped object at 2 o'clock high traveling at 600 miles per hour!"). Twenty four years later in 1984 Joe had matured a bit and decided not to jump from a perfectly good balloon. Instead, he rode it out and became the first person to make a solo balloon crossing of the Atlantic. ☺☺☺



Join us for pre-meeting eyeball

QSO October 1st

gab & gobble

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

42nd JAMBOREE-ON-THE-AIR

Sponsored By: The World Organization of the Scout Movement
October 16 - 17

Next month more than 400,000 Boy and Girl Scouts and Guides worldwide will “get together” over the airwaves for the 42nd annual Jamboree-on-the-Air (JOTA). Thousands of stations will be operating on pre-assigned Scout frequencies, including:

- GB2GP, the Scout Association, Gilwell Park, London, United Kingdom
- HB9S, the World Scout Bureau, Geneva, Switzerland
- K2BSA, the Boy Scouts of America National Office, Dallas, Texas
- XE1ASM, the Boy Scouts of Mexico
- 5Z4KSA, the Kenya Scouts Association, Paxtu Station, Nyeri, Kenya

The BSA Troop Amateur Radio Team would like to invite PAARA to participate with us in setting up and operating 3 JOTA stations at the BSA Boulder Creek Reservation on Saturday, 16th of October. We will be setting up about 09:00 and work the ratio into the evening, until campfire.

We would appreciate your assistance with your radio expertise and experience. We have equipment for two stations but could use two more rigs for 20M and 40/80. We have a 40/80M and 10 dipoles but could use a 20M antenna.

This is an opportunity for PAARA to help Scouts talk around the world and plus have fun at our Mountain Man Rendezvous where other Scouting activities will take place. Plus, we will feed any PAARA member while you are there. You might even enjoy our campfire with us.

Objective: *Get as many Scouts to talk over the radio as possible. Each Scout will get a JOTA “QSL” card*

Special: *There will be special Amateur Radio handouts, a large map to pinpoint our contacts, and a radio contest for the Scouts.*

Interested?

Contact Doug Mecham, KC6UKJ; see phone and email address below.
See Also: <http://www.arrl.org/ead/jota.html>

Palo Alto Amateur Radio Association (PAARA)
P.O. Box 911
Menlo Park, CA 94026

Membership Form

This form takes only 3-4 minutes to fill out completely.
 The following information will be used to publish a membership database/guide to all PAARA members. If you do not want something published, (for internal use only) please circle it.

Call Letters _____ Old Call(s) _____ Family Membership
 Name _____ Main Call _____
 Address _____ Favorite Repeater _____
 City, State, Zip _____ License Class _____
 Tel: Home _____ Work _____
 E-mail Address _____ ARRL Member Y__ N__
 Fax _____

THE FOLLOWING INFORMATION IS OPTIONAL: Check appropriate line:
 PAARA member since _____ Age Group <18__ 18-34__ 35-49__ 50-64__ >65__
 Bands of interest: HF__ 160__ 80__ 40__ 30__ 20__ 17__ 15__ 12__ 10__
 VHF__ 6__ 2__ 1.25 Meters__
 UHF__ 70cm__ 33cm__ 23cm__
 Microwave__ 2.3GHz__ 3.3GHz__ 5.6GHz__ 10GHz__ >10GHz__
 Modes: CW__ AM__ FM__ SSB__ ATV__ SSTV__ Packet__ Other__

Rate PAARA events by your interest level: 1=Little or no interest, 3=Some, 5=High interest

Winter Dinner	1__	3__	5__	Picnic	1__	3__	5__
Flea Market	1__	3__	5__	Raffle	1__	3__	5__
Auction	1__	3__	5__	Newsletter	1__	3__	5__
Field Day	1__	3__	5__	Board Meeting	1__	3__	5__
Monthly Meeting	1__	3__	5__	SIGs	1__	3__	5__
Operating News	1__	3__	5__	Introductions	1__	3__	5__
Speakers	1__	3__	5__	Eyeball QSOs	1__	3__	5__
Refreshments	1__	3__	5__	Show & Tell	1__	3__	5__

Your other interests: RACES__ ARES__ DX__ Contests__ Home Brew__ EME__
 Satellite__ Antennas__ VHF DX__ Weak Signal__ Conventions/Hamfests__ QRP__
 Vintage (Classic) gear__ Antique Radios__ Equipment Buy/Sell__ FM & Repeaters__
 HF Mobile/Portable__ VHF/UHF Mobile/Portable__
 Suggested Raffle Prize(s) _____

Permission to publish to PAARA members (Name) _____ (Date) _____
PAARAmemberApplic.doc 9-18-98 DES

New Member _____ Renewal _____

The American Radio Relay League Pacific Division



October 15, 16, & 17, 1999
 Concord Airport Sheraton Hotel
 Concord, California

1999 EVENTS INCLUDE:

Swap Meet
 All Friday Antenna Seminar
 Outstanding Technical Forums
 Friday Exhibitor "Shootout"
 Exhibitors – Saturday and Sunday
 VE Exams – Saturday and Sunday
 Internet and Ham Radio
 Transmitter Hunt

KEYNOTE SPEAKER!

the FCC's Riley Hollingsworth

Come hear about the latest news & policies
 from K4ZDH, the Enforcement Legal Advisor
 for the FCC's Compliance & Information Bureau

ADMISSION: \$5.00 IN ADVANCE
 (Friday Antenna Seminar – Additional \$10.00)

Use Advance Registration Form
 to order today!

Sponsored by the
 Mt. Diablo Amateur Radio Club (MDARC)

ARTWORK

On a hot day in mid-August, Charlotte and I decided to experience the San Mateo County Fair. We took BART, Muni, and Caltrain to the fairgrounds and enjoyed all the exhibits and animals on display. While sampling the efforts in the Fine Arts Building, I noticed an especially striking photograph of a large antenna array with a beautiful sunrise in the distance. Upon closer examination, it was apparent the subject was the giant 3-element, 40m KLM yagi accompanied by the 4-element 15 meter located at Cooley Landing in East Palo Alto. The photographer was none-other than PAARA's own Mr. Field Day, WA6LNV.

The only disturbing thing was that the judges obviously had no taste whatsoever, since there were no award ribbons on the photo!

—73 de Terry Conboy, N6RY

Advance Registration Form

PACIFICON '99, October 15-17, 1999

Please type or print name and address

Name _____ Call _____

Address _____

City _____ State _____ Zip _____

Antenna Seminar _____ @ \$10.00 = \$ _____
 (Friday only)

Pacificon admission _____ @ \$5.00 = \$ _____
 (\$8.00 at the door)

Banquet (Saturday eve) - How many?

_____ Beef @ \$29.00 = \$ _____

_____ Chicken @ \$29.00 = \$ _____

_____ Vegetarian @ \$29.00 = \$ _____

TOTAL = \$ _____

PACIFICON admission does not include Friday
 Antenna Seminar (see above), which must be prepaid.

Make check payable to: PACIFICON '99

Mail To: PACIFICON '99
 P.O. Box 272613
 Concord, CA 94527

Info: (925) 932-6125
 E-mail: paccon99@pacbell.net
 Website: <http://www.pacificon.org>

←← See Map Page 92 →→



Lud Indihar
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408 / 573-7046 Fax

We Buy & Sell EXCESS Inventory
New Location!

THIS SPACE FOR RENT

Support PAARA with an Ad in PAARAgaphs
(see PAARAgaphs Ad Rates)

Contact Bob Korte, RGK4U@aol.com
605 SPAR DRIVE, REDWOOD CITY, CA 94065
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(408) 534-4285, V.M./Pager

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kn6zt@amsat.org

HALTEK

ELECTRONICS

Chris Chalfant
Manager

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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.

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).
2. 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

ELECTRONIC COMPONENT SUPPLY
SRPLUS INVENTORIES WANTED

ALLTRONICS



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FAX: (408) 732-6428

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).
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