



PAARAGraphs

Celebrating 61 years as a *real* ham radio club—*Since 1937*
Newsletter for the Palo Alto Amateur Radio Association, Inc.



CALENDAR

- July.....10, PAARA Meeting, 7:30
Menlo Park Recreation Center
700 Alma Street, Menlo Park 7:30-9:30 PM
- July.....12, N6M, Special Event Station, (see page 58)
- July.....15, PAARA Board Meeting, 7:30
Bakers Square Rest., 949 Veterans Blvd., Redwood City
(Temporary until Red Cross building repair flood damage)
- Aug.....7, PAARA Meeting, 7:30
- Aug.....12, PAARA Board Meeting, 7:30
- Sept... 11, PAARA Meeting, 7:30
- Sept.....16, PAARA Board Meeting, 7:30
- Oct..16-18, Pacificon



PROGRAM

July 10, 1998
7:30 P.M.

Speaker:

Jim Maxwell, W6CF

"RF Safety Regulations"

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



VE —Ron Panton, W6VG

June 20, 1998. At 1100 AM, the VE session looked like it would have to be called off. There were only two possibilities at that time for the American Legion Hall in Redwood City. Either in the kitchen or on the front lawn. All doors were locked except for the room which housed the Drivers Ed. Class. However, by 11:30 AM Dan Curry found somebody with a key. The VE staff was very short today. Only Joe Horne Sr. Bill Sooman, Dan Curry, and Ron Panton. A very satisfactory session was held however, with 3 hams taking the extra exam. With around 20 persons taking novice, tech, general, & advanced. Our sincere congratulations go to PAARA member, Andreas Junge who now sports a new extra class license. I did not think to recruit him to our ranks of VE workers. On hand to spur on his upgraders, was Vic Black, AB6SO. I think that helped. Sunspots continue to rise (at times), and the beacons are coming to life in many foreign countries now on 15 and 10 meters ☺☺☺—Ron, W6VG



PAARA PONDERINGS

de VIC BLACK, AB6SO

According to a Press Release dated Saturday, 9 May 1998, "The Sunnyvale Volunteer Examination Council, on behalf of the Federal Communications Commission, has announced the award of FCC license class Technician Plus to Donald L. Trask KF6JMQ of San Jose.

Trask successfully completed the examination for receiving Morse Code at the rate of 5 wpm, the only requirement for moving up from Technician class to Technician Plus class. Trask is now entitled to operate in the HF spectrum on those bands allocated to Technician Plus and above, including voice privileges on the 10 meter band from 28.300 MHz to 28.500 MHz.

(Continued on page 59) Ponderings

Miscellaneous Dates

Flea Market at Foothill (info at: <http://joslin.com/FleaMarket>)
 Mar. 14 Silicon Valley Emergency Communications Society (SVECS)
 Apr. 11 West Valley Amateur Radio Association (WVARA)
 May 9 Palo Alto Red Cross
Jun. 13 Palo Alto Amateur Radio Association (PAARA)
 Jul. 11 San Jose Red Cross
 Aug. 8 Santa Clara County Amateur Radio Association (SCCARA)
 Sep. 12 Southern Peninsula Emergency Communications Society (SPECs)
 Oct. 10 Electronics Museum Amateur Radio Club (EMARC)

PAARA Palo Alto Amateur Radio Association
 meets 1st Friday 7:30 each month, Net 145.230 each Monday 8:30,
 contact: Dave Bailey, WS6W 408 730 5215

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, 224.36, 440.80 MHz
 contact: Mike Hastings KB6LCJ, 408-243-6745 or 408-249-6909.

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: Dick Collins KG6ANN 650-593-8952

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, fsh@richochet.net

VE Exams, 3rd Saturday each month, 11AM, 145.23- PL=100Hz
 American Legion Hall, 651 El Camino Real, R.C.
 contact: Joe KB6OWG.

Palo Alto Amateur Radio Association, Inc. PO Box 911 Menlo Park, CA 94026

President.....	(vacant)
Vice President.....	Dave Bailey, WS6W.....(408) 730 5215
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Trustee/Property/Badges..	Fred Canham, K6YT ..(650) 948 9238
ARES Officer.....	Lily Anne Hillis, N6PGM ..(650) 325 5484
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Webmaster	Andreas Junge KF6NEB/KQ6WL ..(650) 233 0843

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Terry Conboy, N6RY	(510) 944 5388 '99
Steve Stuntz, K6FS	(650) 322 4952 '99
Vic Black, AB6SO,	(650) 366 0636 Past Pres

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

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PAARAGraphs e-mail address: wmpporter@aol.com

Submit material for PAARAGraphs by the 15th

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

PAARA SIG's (Special Interest Groups)

Listed are the SIG's as the May meeting. One person is listed to give a contact. If you are interested in being part of a SIG and do not know the listed person, ask before the break at the next PAARA meeting. No reason you can't belong to many groups.

GROUP	Contact
Packet/APRS	J. Price, KD6GM
Young Hams	Zack Nelson, KF6NCS
CW	Jon, KF6OLA
QRP	Ron, KQ6RS
Ham Internet	Dennis, KF6OHO
HF Mobile	Dan, WB6STW
Field Day	Fred, K6YT
Antenna Design	Dirk, KE6ZUY
PAARAGraphs	Wally, K6URO
Club Station	Andreas, KF6NEB
Flea Market	Dave, WS6W
Handicapped/ Disabled Hams	Steve, K6FS
Wannabe's (hams)	Steve, K6FS
Homebrew	Matt, N2MJI
Other (specify)	

Silent Key

Seymour Stein
WA6ROM

June 21, 1998

WEB WANDERINGS

de Vic Black, AB6SO



Everyone knows that the number of hams is dropping steadily and we may have almost no hams left by the year 2000. If you're in doubt, just read the editorials by Wayne Green W2NSD in 73 Magazine. Ah, but Andreas Junge KF6NEB/KQ6WL didn't take Wayne at his word. He found the excellent web site of Joe Speroni AH0A who analyzes FCC data monthly at <http://www.speroni.com/FCC/index.html>. You'll find FCC Amateur Radio Statistics as well as figures for the UK and Japan. US numbers include Total and New Licenses by class each month, Upgrades "from-class" and "to-class" each month, Renewals by class each month and Expired Licenses by class each month. State statistics include totals by state and ranked by hams per 1000 population.

Ten years ago there were just a tad over 124,000 total hams in the US. Five years ago there were about 390,000 and now there are over 675,000. Check the tables occasionally as the sunspot cycle progresses and watch the license figures rise. PAARA alone should affect the numbers with a recent spate of upgrades.

Wayne also stated in his June issue that there only about 2000 CW operators left in the US. Hmm, let's see. The NorCal QRP Club 38 Special kit sold out a run of 2000 CW radios in less than six months. That means that every CW operator in the US must have bought one.

What? You didn't get yours?

Andreas is quickly upgrading and recommends an excellent site for practice tests. He said, "I used this site to practice the question pool. I downloaded their Java applet, so that I can run the test offline! This is really great stuff at <http://www.biochem.mcw.edu/Postdocs/Simon/radio/exam.html>."

Thanks to Kit Kohlmoos W6ISO for reminding us that Larry "Tree" Tyree N6TR from Boring, Oregon (really) is making his world famous contest logging software, TR, available for free as an evaluation freeware package. The only difference between the free version and the commercial product is that the freeware only supports a limited number of contests. It comes with all features of the full release for ARRL Field Day, Region One Field Day, Japanese DX Contest, New Zealand Field Day and South American WW Contest.

What can the software do for you? It will accept input from a paddle key and use your computer to generate code, thereby eliminating an external keyer. It does dupe checking and features a name database so you can greet the station you're working by name. TR includes a packet interface for DX spots and allows computer control of Kenwood, Icom, Yaesu and Ten-Tec radios. And of course, as a database, it keeps track of stations worked, reports sent and received, scoring, reporting results and QSL status.

The full release package comes configured for more than 50 different contests and the configuration file allows you to cus-

tomize it for other contests with any combination of points and multipliers. Although it's optimized for contests, the database obviously is perfect for everyday operations as well. Download the software from Tree's web site at <http://www.qth.com/tr.html>.

Did you ever wonder who had the largest number of simultaneous transmitters at a Field Day site? In 1991 K7AUO entered in class 41E meaning there were 41 transmitters operating at a fixed location from emergency power. They had 20 operators using full legal power. I'll bet that kept them busy. I wonder if they could pass the new safety regulations concerning Amateur Radio station RF exposure. Maybe all those transmitters desensitized the receivers since their overall score was low. Their 587 QSO's earned only 815 points. Field Day stats are found at <http://www.servtech.com/~lionlamb/fdrec.html>.

Amateur radio has a long tradition of supporting public service agencies with emergency communications in times of need. You can keep up with disaster news through the Internet Disaster Information Network located at <http://www.disaster.net/index.html>. There are links to hurricanes, earthquakes, volcanoes, fires, floods and terrorism. Note that some of the information is out of date. This is especially true of the floods and terrorism (there is still a reward offered for information leading to the apprehension of the Unabomber even though the trial is completed). Also, the latest flood information is about 2 to 3 years old and doesn't mention major flooding during the past couple of years). Earthquake information is updated daily.

We're finally finishing up one of the most severe winter weather seasons in history. Most people were spared the agony of losing a loved one, a home or other property during the storms, but no one was completely immune to the vagaries of the wind, rain, hail, floods, lightning strikes, tornadoes, mud slides and general service disruptions.

PAARA member Dennis Freeman KF6OHO maintains a web page dedicated to the south coast region of San Mateo County which includes small communities such as La Honda, Loma Mar, Pescadero and San Gregorio. For several weeks during the winter storms the only communication in or out was by 2 meters through area repeaters. Many people still can't access their previous home sites because of damaged roads and missing bridges. Dennis's site at <http://southcoast.net/comm.html> is linked to the Highway 84 users web site which serves upper Woodside, Sky Londa, King's Mountain and La Honda. Both web pages have photos and information about the tremendous damage endured by the residents of the region. Check them often to see the impact ham radio is having on the emergency preparedness undertaken by area residents.

We're still waiting for some really good 6 meter sporadic E openings in Northern California. The Midwest is getting them on a fairly regular basis, but we've been passed by so far. It's important to get ready during the lull so you can react immediately when the openings occur. Take a look at the "Magic Band Network" by Raymond Vrolijk PB0ALN at <http://come.to/six>. You'll find a beacons list plus photos of the

(Continued on page 61) Wanderings



PROGRAM NOTES:

PAARA Program

June 5, 1998

—Steve Stuntz, K6FS

. Our guest speaker was **Sam Vigil, WA6NGH**, professor of civil engineering, Cal Poly, San Luis Obispo, longtime active ham, author of articles on VHF and QRP, and former Navy communications electronics officer.

Sam's presentation described preparations for and operation during a trip last year to Ireland, and on to England, in company with his XYL and his trusty 2-meter handheld. He had been invited to give a short course on waste management systems at University College, Dublin. As he so aptly put it, this was his opportunity to work some DX by actually being there—that is, on the spot among the hams states side DX chasers pursue.

Preparing for what turned out to be a 22 hour trip from San Luis Obispo to their Dublin bed-and-breakfast, Sam went through the routine of securing reciprocal licenses necessary for amateur radio operation in Ireland and England. As he expressed it, this "Turned out to be a gigantic pain in the neck". Ireland's requirements were easily met: name, address, call sign, dates and length of proposed stay, and approximate location(s) to be visited. Mailed application brought a 90-day license, in letter form, within two weeks, at no cost.

Getting a "reciprocal" license for operation in England (United Kingdom), however, turned out to be much more complicated: first you write for an application, (to HJHer Majesty's stationer's office) which you receive in three weeks or so. In response, you return the document, accompanied by a payment of twenty pounds sterling, necessitating lengthy negotiations with whatever bank deals in pounds sterling. In Sam's case, after determining that his local BofA would have to refer to headquarters in Los Angeles, with attendant delays and explanations, he laid matters before his Ireland contacts, who were able to expedite things. He noted that these international "reciprocal" licensing procedures may soon be a thing of the past, with establishment of a truly international, one license fits all treaty agreement under the acronym CEPT. US participation is expected to be effective by the end of this year (check ARRL's web site). As of now it appears that about 90 countries will provide this service to the world's roving ham population. Ireland at present issues licenses to holders of both technician and general class tickets, while UK will only license US applications holding general class and above.

After these introductory advisories, Sam showed and demonstrated the 2-meter handheld which was the raison d'être for all preparatory correspondence: using a half wave dipole fashioned from a quarter wave length straightened out coat hanger augmented by a quarter wave length of wire in lieu of the conventional rubber duck, he prepared to go mobile or work sta-

tions from wherever his and his XYL's interest took them.

Sam drew several comparisons between US and Irish UK 2-meter repeater operation: first, PL-tones are not in wide use; second, the 1750-Hz tone burst is still prevalent transmit entry mode. As an aside, Sam showed a slide mapping the distribution of repeaters in Ireland, noting that they are most heavily clustered along the eastern and western edges of the country, with large open (i.e., repeaterless) areas between, due in large part to the broad, low-elevation working farmlands of the central region.

To cap off the trio, Sam took us on a beautifully photographed slide trip through the Irish country side, to bed-and-breakfasts, pubs, (beware the wily dark Guinness), traditional stately castles and the friendly atmosphere of Dublin and environs. In England (UK, as he termed it) Sam and XYL toured both London and some of the conventional tourist attractions, witnessed the changing of the guard at Buckingham Palace, and the private "loo" used by Winston Churchill as a phone booth during WW-II. Along the way, of course, there were many QSO's with friendly Brits.

-30-

Special Event "N6M"

The following Special Event announcement will appear in July QST, and also in an upcoming issue of World Radio:

Mountain View, CA: Pale Alto Amateur Radio Assn., N6M, July 12. Honoring the men and women of the 129th Search and Rescue Wing, CA Air National Guard.

7.250, 14.250, 21.350, 28.350.

9 AM to 5PM local

(help with setup 8AM)

SASE for certificate:

PAARA, P.O.Box 911, Menlo Park, CA 94026."

PLEASE NOTE THE

SPECIAL-EVENT 1X1 CALL:

"NOVEMBER SIX MIKE"

Rigs for the above frequencies, plus 6 meters and VHF/UHF, will operate at the recreation and picnic area, south of the former Navy housing tract, Moffett Federal Air Field.

Come and enjoy the fun ~meet the troops
and

Help demonstrate ham radio!

Contact: **Steve Stuntz, K6FS**.

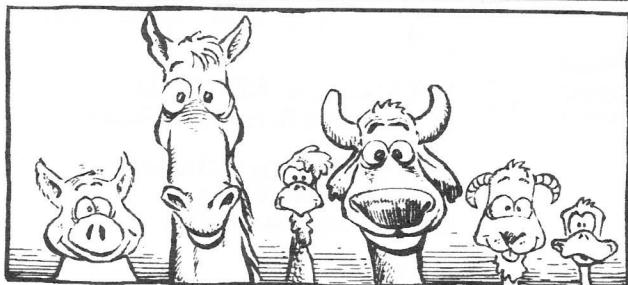
(Continued from page 55) Pondering

Trask has stated in a recent interview that he will not rest on his laurels but rather will immediately begin work on the written examination for General Class license, especially in light of the fact that the question pool currently in use changes as of the end of July, 1998."

On June 13, Don aced the General Class written test right on schedule. Now he has a year to pass the 13 wpm CW requirement. Congratulations to Don who is the PAARA database manager. Don's motto: "If it is to be, it is up to me."

Last November Dennis Freeman KF6OHO passed his Tech Plus exam. On June 6 he became a General Class ham. Is he excited? Here's what he said, "Well, I did it, I am now a General Class Ham. Not bad considering I started this hobby in 1956. It took me 42 years to advance from Novice to General. Anyway, it feels good. Being a Christian, I must say Praise the Lord!" A big PAARA congratulations to Dennis!

Andreas Junge KF6NEB upgraded to General Class on March 4. On May 16 he took the 20WPM test and passed. While waiting for the test to be graded, he decided to give the Advanced written test a try. Unfortunately he missed it by a slim margin, but he hadn't studied for that one at all. On June 2 after two weeks of book study Andreas made another attempt at Advanced and passed. On June 4 KF6NEB officially became KQ6WL. Congratulations to Andreas on the code hurdle and the Advanced Class upgrade. Soon we should hear that



Join us for pre-meeting eyeball

QSO July 10th gab & gobble

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

Andreas has made it to Extra Class.

June is ARRL Field Day month. A review of last year's results shows that PAARA made 1899 contacts and 6192 points for the most contacts in the Pacific Division consisting of Northern and Central California, Hawaii, the US Pacific Islands and Nevada. PAARA's score is especially noteworthy in light of the fact that our neighbor, **West Valley Amateur Radio Association W6PIY**, had a score of 6144 points from 1716 contacts while operating from 3000 feet elevation in Class 7A, or 7 simultaneous stations (a truly major undertaking!). PAARA entered Class 2A, the most popular Field Day category. Class 2A includes club stations operating no more than two stations simultaneously using emergency power. In 1997 there were 594 Class 2A entries in the US and Canada.

The annual ARRL Field Day is always held on the fourth full weekend in June. It is a simulated emergency drill, but also a public relations activity, a radio contest, and a club educational and social event. PAARA's Field Day site in East Palo Alto is especially effective as it is on a small peninsula surrounded on three sides by salt water which enhances radio propagation. PAARA's full size 40 meter Yagi antenna was particularly helpful since a solar flare made for tough conditions and disrupted radio communications for all entries in 1997.

On June 3, PAARA hosted a visit by Keitaro Sakane JA1BLV, professor of Electronic Engineering at Tokyo University. Kei, who is active mostly on RTTY, was treated to dinner and conversation with the Pacific Division ARRL Director Brad Wyatt K6WR, Assistant Director Jim Maxwell W6CF and PAARA members Steve Stuntz K6FS, Andreas Junge KF6NEB (err—I mean KQ6WL), Dave Bailey WS6W and Vic Black AB6SO. Kei spoke to PAARA two years ago about VHF/UHF propagation theory and operations in Japan.

Confused by the Canadian special callsigns you hear? In an e-mail message, Laura Halliday VE7LDH explained, "the current allocations for Canada are CFA-CKZ, CYA-CZZ,

(Continued on page 61) Pondering

PAARA MONDAY NIGHT NET

8:30 PM 145.230-600 MHz repeater

PL tone off

Latest news between monthly issues of PAARAGraph

Bring a Show & Tell
to the next
PAARA meeting

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 PAARAGraphs, \$6 for additional family members (no newsletter). • Make payment to the Palo Alto Amateur Radio Association.

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PAARAGraphs July 1998
 Celebrating 61 years as a *real* ham radio club—*Since 1937*



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PAARA

Since 1937

PAARAGraphs Ad Rates

PAARAGraphs 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 PAARAGraphs editors reserve the right to reject any ad deemed to be not in the best interest of the Association. All fees are for "scanner-ready" copy or text-only ads.

RGK TECHNICAL SALES

BOB KORTE

605 SPAR DRIVE
 REDWOOD CITY
 CA 94065

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 V.M./Pager

RGK4U@aol.com



MICHAEL J. ALLISON
 Principal Software Engineer

AHHA! Solutions
 4429 Guilford Place
 Livermore, CA 94550

510 447-5414
 kn6zt@amsat.org

PAARA 7:30 July 10th



PAARA PRIDE
 wear your
PAARA Badge
 to

meetings, picnics, field days, winter parties, ham fests,
 flea markets, Pacificons...
 (if you need one, contact Fred, K6YT)

(Continued from page 59) Pondering

VAA-VGZ, VOA-VOZ, VXA-VYZ and XJA-XOZ. Amateur stations generally use VE calls, except in areas like Ontario where VE3 calls are running short so they use VA3 as well. Some other areas use VO and VY calls, and there are special allocations, like CY9 for Sable Island.

We use CFA-CKZ for, among other things, broadcast stations. Except for the CBC, which use CBxx calls - not allocated to Canada, but I've never heard of anybody objecting. There are three broadcast stations in Newfoundland with VO calls, founded before Newfoundland joined Canada. VAA-VZZ is so heavy on Commonwealth countries that it was probably initially assigned to British overseas possessions. Canada's foreign policy was through Westminster until 1931...

Industry Canada are fond of authorizing special event calls, especially if it commemorates something Canadian. These may be for anything from an individual to the entire country, in which case they publish a mapping table. For example, to commemorate the 125th anniversary of the founding of the RCMP, Canadian amateurs are authorized to use special calls from 0000Z 15 May to 2359Z 15 July this year. VE7LDH would become VX7LDH. Such calls are always voluntary.

Way back when, XM was the prefix for GRS (a.k.a. Citizens' Band). Before becoming the prefix for New Brunswick, VE9 was the prefix for experimental stations, like a famous early TV station in Saskatoon. Our calls are marked for geography only, not for license class. Also, while VE is allocated to Canada, what comes after it is Canada's business, and is not subject to ITU regulations."

The ARRL June VHF contest was held on June 13 and 14. The local hot spot at Canada College saw a lot of activity from Vic Black AB6SO, Andreas Junge KQ6WL, Paul West KQ6WN, Ron Carmichael KQ6RS, Dan Curry WB6STW, George Londeros KE6FFU, Jon Zweig KF6OLA, Don Trask KF6JMQ and Jozsef Veres KE6UIE. Kit Kohlmoos W6ISO and Steve Stuntz K6FS were overheard operating from home. No major openings although some weak signals got through on 6 meters from VE7, W5, W7 and W0. The best DX was Alabama on 6 if you had receive preamps, some power and a good antenna. Occasional 2 meter ducting allowed operation into Oregon. Mike Leland KD6PIW called Saturday reporting 15 foot high snow drifts on Sonora Pass on the way to Death Valley where the daytime highs are now in the 90's. Sunday was the first hot day of the year in the SF Bay Area after a record breaking winter. What short memories we have. Overheard during the VHF contest: "I sure wish we'd get some fog. I'm getting really tired of all of this hot weather"!

—Vic, AB6SO



PAARA WEB SITE

check it out

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

webmaster: Andreas Junge KF6NEB/KQ6WL

WANTED

OLD ROSTERS

PAARA would like to compile a historical membership list of all past and present members. If you have rosters of a few years back please loan them to our Historian, Steve Stuntz, K6FS, to copy. We will list missing rosters in a future issue of PAARAGraphs.

REDWOOD HAMFEST '98

Humboldt Amateur Radio Club

Redwood Acres Fairgrounds

Eureka, California

August 1, 1998 Saturday 9am to 5pm

Wayne KF6AAP @ (707) 668 4396

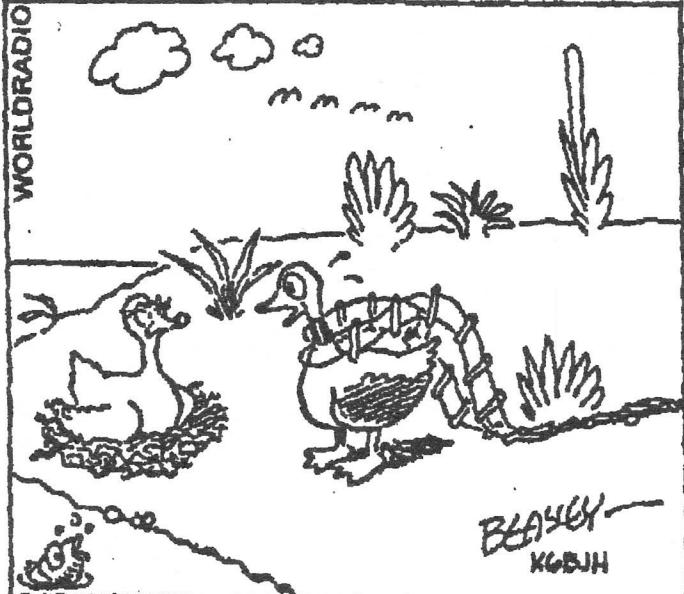
AMATEUR RADIO FLEA MARKET

Calaveras Amateur Radio Society

Utica Park, Angels Camp

July 18, Saturday 7am to 2pm

Steve (209) 878 3829



SORRY I'M LATE ON THE MIGRATION, MADGE---
I PICKED UP ABOUT 65 FEET OF LADDER LINE
OUTSIDE OF DES MOINES!

(Continued from page 57) Wanderrings

world's longest Yagi for six meters: 17 elements, 35 meters long (nearly 115 feet!). It was strung up on ropes between surplus utility pole yardarms. Many, many individual 6-meter op links, plus info on DXpeditions. :-). ☺☺☺ —Vic, AB6SO

July 1998

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



FIRST CLASS MAIL

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PAARA

Celebrating **61** years as a *real*
ham radio club Since 1937

|||||
Korsak, Andy VE3FZK
504 Lakemead Way
Redwood City, CA 94062-3919