

PAARAGraphs

Since 1937

I. Monthly Newsletter for the Palo Alto Amateur Radio Association, Inc.



Calendar

June 22 & 23, Field Day

July 10-16, World Radiosport Team Championship
see PAARAGraphs, May, page 40.

July 12, PAARA Meeting, 7:30

Menlo Park Recreation Center
700 Alma Street, Menlo Park 7:30-9:30 PM

July 17, PAARA Board Meeting, 7:30

Red Cross Blvd. 400 Mitchell Ln., Palo Alto

August 2, PAARA Meeting, 7:30

August 7, PAARA Board Meeting, 7:30



Program

July 12, 1996

Speaker has not been confirmed at press time.

Check Monday Net:

PAARA NET, every Monday evening, at 8:30pm,
145.230-600 repeater MHz, PL tone off

**IT'S
ALL
YOURS!**



DX The less said about DX the better. Maybe the sunspots will start coming up. Some of us remember when 10 meters was very exciting, so just wait, it will come back again. 20 meters is still open during the day, and mainland Europeans are coming through, but personally, there is more QRM (competition) than I like to buck. I am told that my station will be used in the WRTC competition. Two foreign hams will be operating for one day. Don't know yet which country they will be representing. WRTC was looking for modest stations, tower of 50 feet, tri-band beam, and dipole for 80 & 40. Guess my flatland station met with their criteria. Guess they will be using 1 by 1 calls. Will find out more later I hope.

73, Ron W6VG



VE Today, May 18th, we had a good crowd of would be hams at our monthly VE test session. The crew at the Legion Hall in Redwood City, on El Camino Real, consisted of Joe Horne Sr. **KB6OWG**, in charge, with Bill Sooman **WB6UVO**, handling the CW tests. Also on hand were Gene Irazarry **KK6LO**, & Ron Panton **W6VG**. The applicants were well prepared, many perfect papers, and all showed up just before 11 A.M. We sure could use a couple of volunteers. An extra class license is helpful but not necessary, except for those administering tests or correcting papers.

Ron, W6VG

WRTC July 13, 0500 PDT to July 14, 2300PDT

Miscellaneous Dates

Flea Market at Foothill (6AM - 2PM)

Mar 9...Palo Alto Chapter, American Red Cross

Apr 13...Palo Alto Amateur Radio Association (PAARA)

May 11...Perham Foundation

June 8...Santa Clara County Amateur Radio Association (SCCARA)

July 13...South Peninsula Emergency Communication System (SPECS)

Aug 10...Electronics Museum Amateur Radio Club (EMARC)

Sept 14...West Valley Amateur Radio Association (WVARA)

PAARA Palo Alto Amateur Radio Association

meets 1st Friday 7:30 each month, Net 145.230 each Monday 8:30,
contact Jerry Tucker WA6LNV 415-961-3266.

EMARC Electronics Museum Amateur Radio Club

Meets 4th Friday 7:30 each month,
contact Sheldon Edelman 415-858-2176.

NCDXC Northern California DX Club

Meets 2nd Friday each month, repeater for member info 147.360, each
Thursday 8:00PM, contact John Troster W6ISQ 415-854-3939.

NorCalQRP Northern California QRP Club

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

Perham Foundation, contact Sy Stein WA6ROM 408-734-4453

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 K6ANN 415-593-8952

Disaster Services, Palo Alto Chapter, American Red Cross

Meets 3rd Wed. each month 7:30PM, HF, packet, BBS, ATV,
OSCAR Gateway, NASA satellite.
contact Ruth Claypool 415-688-0423.

PACIFICON'96, October 18-20, Concord Hilton Hotel, Concord.

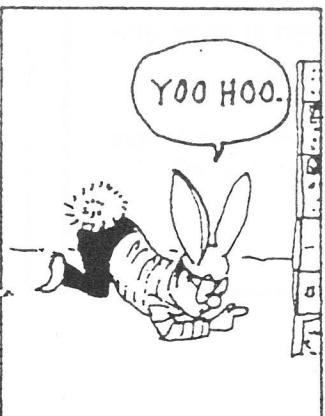
VE Exams, 3rd Saturday each month, 11AM

American Legion Hall, 651 El Camino Real, R.C.

Field Day
June 22-23



ELMIE



Palo Alto Amateur Radio Association, Inc.

PO Box 911

Menlo Park, CA 94026

President.....	Bill Rausch, AA6PA.....	(408) 637-0622
V/P Program Director...	Vic Black, Jr., AB6SO.....	(415) 366-0636
Secretary.....		To Be Filled
Corporate Secretary....	Kit Kohlmoos, W6ISO.....	(415) 366 7813
Treasurer.....	Dave Bailey, WS6W	(408) 730-5215
Trustee/Property/Badges..	Fred Canham, K6YT	(415) 948-9238
ARES Officer.....	Lily Anne Hillis, N6PGM ...	(415) 325-5484
Club Historian.....	Steve Stuntz, K6FS.....	(415) 322-4952

Board of Directors

John Buonocore, KD6ZL	(415) 366 1658	'97
Fred Canham,	K6YT	(415) 948 9238
Lily Anne Hillis,	N6PGM	(415) 325 5484
Kit Kohlmoos,	W6ISO	(415) 366 7813
Bill Smith,	KE6CHQ	(415) 366 9173
Rich Stiebel,	W6APZ	(415) 494 0128
Steve Stuntz,	K6FS	(415) 322 4952

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

PAARAGraphs Staff

Editor.....	Wally Porter,	K6URO.....	(415) 494 7038
Database.....	Bill McElhinney	KA6LZI.....	(415) 325 9808

e-mail Address: wmporter@aol.com

Submit material for PAARAGraphs by the 15th

World Radiosport Team Championship

July 13, 0500 PDT

to

July 14, 2300PDT

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.

By Rich Regent, K9GDF

The Board Minutes

(June 12, Board Meeting)
Notes courtesy Kit, W6ISO

Present: Bill Rausch, AA6PA*, Pres.
 Dave Bailey, WS6W, Treas. John Buonocore, KD6ZL*
 Vic Black, AB6SO, VP/Prog. Fred Canham, K6YT*
 Kit Kohlmoos, W6ISO* Steve Stuntz, K6FS*
 Lily Anne Hillis, N6PGM*
 Sy Stein, WA6ROM Wally Porter, K6EURO
*Board member

Treasurer Report: received (listed elsewhere in PAARAGraphs, except Savings & Checking balances)

Business:

1. Fred researched TV & VCR options, 20" about \$275.
 2. Field Day, set up June 15/16 move trailer & towers.
 3. Auction Oct. 12, '96. Location undetermined, Dave working on it.
 4. Nominating Committee. Bill will appointment a chairman.
 5. Membership. Need an info package at meetings for new members. Kit & Steve appointed temp chairmen.
 1. Dues rate discussed. Newsletter costs abt. &1.27/month, need to factor in supplies, room rent, speaker expense, etc. To be continued next meeting.
 2. Raffle discussion. Reform or discontinue?? Further consideration necessary.
 3. License class. Finding location difficult, in limbo.
- Meeting adjourned: 9:15

PROGRAM NOTES:

PAARA Meeting,
June 7, 1996



Thanks to Steve Stuntz, K6FS

The program of June 7 was a well-illustrated discussion of principles and practices in the design of Yagi-Uda and log-periodic antennas for VHF and UHF. The presenter was Ray Gaschk, of Walnut Creek, who is professionally engaged in the design and production of antennas for commercial as well as amateur use.

By means of overhead-projected transparencies Ray demonstrated the field-patterns of several types of Yagi's and LPA's, and also the theoretical and empirical curves governing their design. In addition to describing the

advantages of corner-reflector antennas at UHF, he showed the audience sample log-periodic 2-meter and 432-MHz antennas he manufactures. His talk covered field patterns and a description of methods used in testing new designs, by both computer simulation and empirical measurement on a testing-range. He also described some of the practical manufacturing and installation problems his firm encounters

During the course of his talk, Ray acknowledge the use of the *ARRL Antenna Handbook* and significant contributions of old-timer John Kraus, W8JK, to the discovery and application of circular polarization. (Prof. Kraus, now retired from Ohio State University, has been a noted ham from spark-gap, galena-detector days, and is a pioneer in design and construction of special antennas for radar, space communication and radio astronomy. "JK", in his 90's, is still on the air at his farm outside Columbus. His books, *Big Ear* and *Big Ear 2*, are fascinating semi-technical accounts of his career.)

In closing, Ray announced his upcoming all-day forum on antenna design, construction and evaluation at PACIFICON '96, to be held at the Concord Hilton Hotel, Concord, October 18, 19, and 20.

30

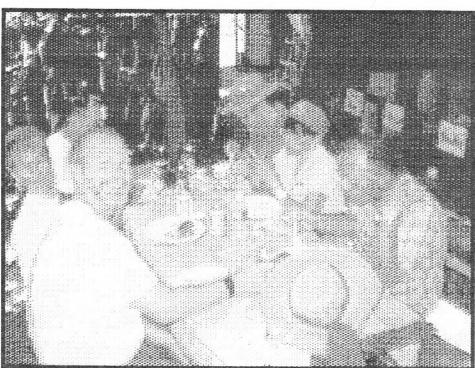
TREASURER REPORT

Dave Bailey, WS6W

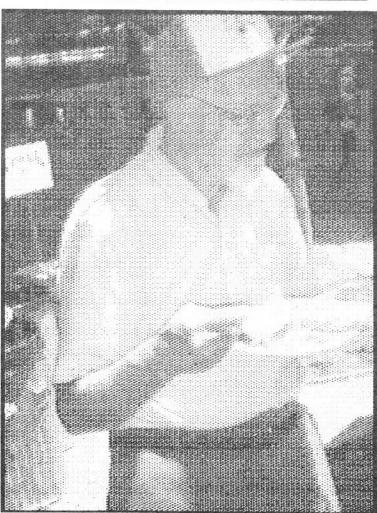
Revenues '96	MAR	APR	May	96 Total
Dues	162	36	6	516
Flea Market	0	6036.28	80	6116.28
AMPEX Auction	0	0	0	0
Advertisements	0	600	0	600
Holiday Dinner	0	0	0	0
Total Revenues	162	6672.28	86	7232.28
Expenditures '96				
Stamps/Envelopes	32	0	0	32
DMV	0	0	0	43
State of CA	0	0	0	10
City of Menlo Park	0	0	0	150
Speaker's Dinner	22	9	13	68
Flea Market	0	937.24	0	937.24
AMPEX Auction	0	0	0	0
Meeting Refreshments	12.41	8.66	14.55	57.62
PAARAGraphs	205.23	199.24	223.19	1020.12
Picnic	0	0	0	0
Field Day	0	0	0	0
Holiday Dinner	0	0	0	0
Misc.	0	35	0	66
Total Expenditures	271.64	1189.14	250.74	2383.98

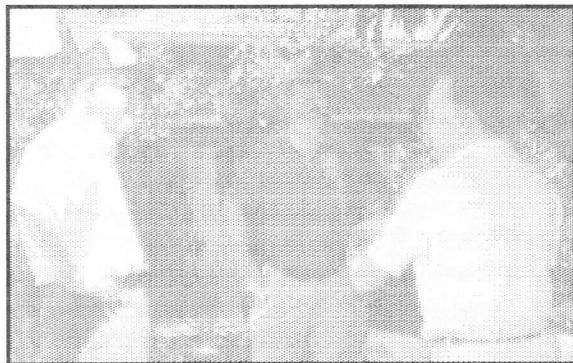
¹PAARA-Palo Alto Amateur Radio Association-P.O. Box 911, Menlo Park, California 94026-0911

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 repeater MHz, PL tone off. • Membership in PAARA is \$6.00 per calendar year which includes a subscription to PAARAGraphs. • Make payment to the Palo Alto Amateur Radio Association. Permission is hereby granted to reprint from this publication with appropriate source credit.



PAARA Spring Picnic June 1, 1996





"It Seems to Us" Write Now!

—emailed courtesy Vic Black, AB6SO

Get out a pen and paper, or boot up your computer. There's work to be done! Your help is needed to defend two meters and 70 cm. Yes, that's right -- the two most popular and crowded amateur VHF/UHF bands! But don't panic, and don't "go ballistic."

Here's what's happening, and what you can do about it.

The United States is preparing for the 1997 ITU World Radio Communication Conference, WRC-97. In the past, the public has been able to participate in the preparations for such conferences by responding to FCC Notices of Inquiry. In March, the FCC announced a streamlining of its International Bureau's preparatory processes for WRCs. Under the new scheme, the NOIs have been eliminated in favor of increased emphasis on WRC Advisory Committees.

For WRC-97, a series of Informal Working Groups (IWGs) of the Advisory Committee has been created to address specific agenda items. The output of each IWG will go directly to a joint FCC-NTIA-Department of State Steering Committee of the Advisory Committee. There, draft proposals as received from the IWGs will be reviewed and forwarded to the FCC for possible release as preliminary U.S. proposals for public comment.

In announcing the streamlined WRC preparatory process, the FCC tried to reassure those who might be concerned about reduced opportunities for public participation: "Interested parties should note that input to the Advisory Committee may be sent at any time directly to the Chair of the WRC-97 Advisory Committee; the Chairs of the Advisory Committee's Informal Working Groups; Cecily C. Holiday, the FCC's federal officer of the WRC-97 Advisory Committee, or to Damon C. Ladson, the alternate federal officer."

Hold that thought while we shift gears to the substance of the issue. One of the WRC-97 agenda items includes consideration of possible additional frequency allocations for the mobile-satellite service. So-called "little LEOs," low-earth orbit satellites below 1 GHz, already have allocations. Their proponents claim these are inadequate and are trying for more. The needs of little LEOs are being addressed in IWG- 2A, chaired by Warren Richards of the Department of State. The ARRL technical relations staff participates in IWG-2A to represent Amateur Radio interests.

At the May 7 IWG-2A meeting, an industry representative proposed a list of "candidate bands" for little LEOs. The list includes a number of bands that would negatively impact existing services, and does not include others that would be technically more feasible but to which strong objection from incumbents could be expected -- the point being that some political, rather

than purely technical, judgment already has influenced the list.

Incredibly, 144-148 and 420-450 MHz were included on the list! This is the first time in memory that another service has been proposed for the two-meter amateur band. We must make sure it is also the last time.

We do not need to explain to ARRL members the extensive use that is made of these bands by amateurs. The two bands provide the backbone of our local public service communications effort. Voice and data, mobile and fixed, even television -- the list of present amateur uses is a long one, and of future uses is even longer. Both are already used for satellite services and for moonbounce and extended-range terrestrial operations requiring extremely sensitive receivers and high levels of effective radiated power.

Apparently we did need to explain all this to the little LEO industry representatives, so we did just that -- both at the meeting and in a followup letter on May 15. We also explained that we had to regard the matter as extremely serious. No one with the slightest background in radio communication could possibly believe that a mobile- satellite service could be introduced into either band without disrupting existing and future amateur operations. Therefore, we said, if we did not receive assurance that they would be taken off the list of candidate bands by the deadline for this issue of QST, we would have no choice but to bring the matter to the attention of the entire membership.

The response we received was unsatisfactory. In effect, we were told the little LEO industry would consider our views but that until their spectrum needs are satisfied, all bands must remain under consideration.

So, this is a call to action. We must get across to the industry and government participants in IWG-2A that the 144-148 MHz and 420-450 MHz bands cannot be considered as candidates for mobile-satellite services. We need to drive the point home so forcefully, with so many grassroots responses, that no one is ever tempted to try this again. Which brings us back to that invitation for "interested parties" to send input "at any time." There's no time like the present! Here are the key addresses, including those of the mobile-satellite industry folks who seem to have started the ruckus:

Cecily C. Holiday,
International Bureau, FCC,
Washington, DC 20554;
choliday@fcc.gov;
FAX (202) 418-0748.

Warren G. Richards, Chair, IWG-2A,
Department of State, CIP 2529,
Washington, DC 20520;
richardswg@ms6820wpoa.us-state.gov;
FAX (202) 647-7407.

Continued to page 59

Tracey Weisler, FCC Rep., IWG-2A,
International Bureau, FCC,
Washington, DC 20554;
tweisler@fcc.gov;
FAX (202) 418-2824.

Mary Kay Williams, Final Analysis, Inc.,
7500 Greenway Center, Ste. 1240,
Greenbelt, MD 20770;
FAX (301) 474-3228.

Leslie Taylor, President, LTA, 6800 Carlynn Court,
Bethesda, MD 20817;
ltaylor@lta.com;
FAX (301) 229-3148.

Do comment. But be civil. Don't abuse people who are simply doing their jobs. We have to get across that casting covetous eyes on amateur bands is counterproductive, and contrary to the public interest. To accomplish this we need a lot of comments, including yours. But remember that the objective is to educate and persuade, not to intimidate. We don't need to. The facts are on our side.

To monitor the FCC's ongoing WRC-97 preparations, visit its WRC-97 home page at:
<http://www.fcc.gov/ib/wrc97/>.

Write now. Right now!

-- David Sumner, K1ZZ

AVAILABLE - FREE

Tri-Ex Model TM-358, "Sky Needle", galvanized steel 60 foot motorized "crank-up" tower with Hy-Gain Model 400 Roto-brake rotator. Nested height approximately 19 feet.

Telrex Model 15M845, Eight element, 15 meter full-size Yagi antenna (45 ft boom), 465 KHz bandwidth.

Manuals and instructions included for the above.

2 meter Ringo Ranger type antenna.

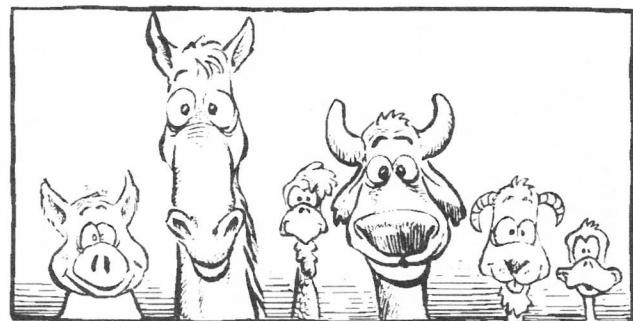
The antennas are mounted on the Tri-Ex tower and the 15 meter antenna must be disassembled first to get at the 2 meter antenna. The owner is willing to part with all this equipment free to a good home, but hams must do the disassembly. This would be an excellent club project.

The homeowner, who is not a ham, is making this generous offer, but does not want a lot of people going through the house/yard

Contact Rich Stiebel, W6APZ,

at 415-494-0128 to arrange to see the documentation and pictures of the installation.

Join us for pre-meeting eyeball QSO



gab & gobble

6 pm— at Su Hong Restaurant
1039 El Camino Real, Menlo Park

—across from Kepler's Book Store—

⇒ Field Day Set Up ⇐

Friday
June 21st
contact: Gerry Tucker, WA6LNV
or Fred Canham, K6YT



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)

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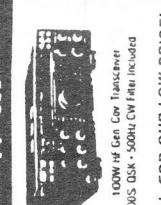
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Dual Band

120 Meters

Simplex

DSSB Built In

R2 Memories

Auto Tuner

Build-in TONE/ICLS

Auto Tuner

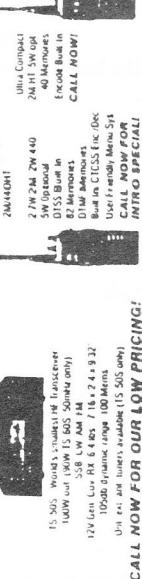
Build-in 1.8K

Balun 14:1 Power

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100W HF

100 Meters

120 Meters

Simplex

120 Meters

120 Meters