



PAARAgraphs

Celebrating 60 years as a *real* ham radio club—*Since 1937*

Newsletter for the Palo Alto Amateur Radio Association, Inc.



CALENDAR

- | | | |
|-----|-----|--|
| Nov | 1, | PAARA Auction (see page 92) |
| Nov | 7, | PAARA Meeting, 7:30
Menlo Park Recreation Center
700 Alma Street, Menlo Park 7:30-9:30 PM |
| Nov | 8, | PAARA Special Event Station (see page 89) |
| Nov | 12, | PAARA Board Meeting, 7:30
Red Cross Blvd. 400 Mitchell Ln., Palo Alto |
| Dec | 5, | PAARA Meeting, 7:30 |
| Dec | 10, | PAARA Board Meeting, 7:30 |
| Jan | 2, | PAARA Meeting, 7:30 |
| Jan | 7, | PAARA Board Meeting, 7:30 |
| Jan | ? | PAARA Winter Party |



Program

November 7, 1997
7:30 P.M.

Speaker:

Jim Maxwell (W6CF)

Vice Director • Pacific Division • ARRL

“New Legislation Affecting Amateur Radio.”

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



PRESIDENT'S PONDERINGS

de VIC BLACK, AB6SO

In August, 1996 the FCC announced safety regulations concerning Amateur Radio station RF exposure. Those rules required an evaluation of the RF energy radiated from most stations running 50 Watts or more peak envelope power (PEP). The rules listed maximum RF exposure allowed, averaged over specified time frames. All stations were to be in compliance by January, 1997. That date was later changed to January 1, 1998 to allow time to add questions to license exam materials and for the ham community to become educated about the new regulations.

In August, 1997 the FCC issued NEW regulations after an ARRL petition to scale power limits by frequency. All stations still have to comply with the exposure limits, but most stations will be exempt from routine evaluations. Beginning January, 1998 any station filing a Form 610 for a new license, license renewal or station relocation must be in compliance at the time the Form 610 is signed. Existing stations have until September 1, 2000 to fully comply.

Not only has the timeline been changed, but the threshold power limits were also revised. Power levels that trigger the need for a station evaluation have been raised in most cases and are now frequency dependent, thereby keeping more in line with good science rather than poor legislation.

(Continued on page 89)Ponderings

meet with us at

PAARA 7:30

November 7

Miscellaneous Dates

Flea Market at Foothill

(schedule will be listed in the Spring)

PAARA Palo Alto Amateur Radio Association

meets 1st Friday 7:30 each month, Net 145.230 each Monday 8:30,
 contact: Vic Black, Jr. AB6SO, (415)366-0636.

PAARA Auction, Saturday, November 1, (tentative)

contact Vic Black, AB6SO, (415)366-0636.

EMARC Electronics Museum Amateur Radio Club

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

NCDXC Northern California DX Club

Meets 2nd Friday each month, repeater for member info 147.360, each
 Thursday 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 415-961-3266

SPECS Southern Peninsula Emergency Communication System

Meets each Monday 8:00PM on Net 145.27, 224.36, 440.80 MHz
 contact Mike Hastings KB6LJC, 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

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 R

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 415-688-0423.

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.....Vic Black, Jr., AB6SO.....(415) 366-0636
 Vice President.....Dave Meacham, W6EMD.....(415) 369 2633
 Secretary.....Dave Bailey, WS6W.....(408) 730-5215
 Treasurer.....Doug Schliebus, W6HXL.....(415) 851 0727
 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
 Advertising.....Bob Korte, KD6KYT.....(415) 595 1842

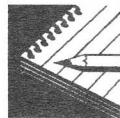
Board of Directors

John Buonocore, KD6ZL (415) 366 1658 '97
 Fred Canham, K6YT (415) 948 9238 '97
 Charles Grandjean, WD6FAF '98
 Steve Stuntz, K6FS (415) 322 4952 '97
 (see "Calendar" for Board meeting times, visitors welcome)

PAARAgaphs Staff

Editor.....Wally Porter, K6URO.....(415) 494 7038
 Database.....Bill McElhinney, KA6LZL.....(415) 325 9808

PAARAgaphs e-mail address: wmpor@comcast.net



The Board Minutes

Dave Bailey (WS6W), Secretary
PAARA Board Meeting October 8, 1997

PRESENT:

Vic Black (AB6SO)- Pres. **Dave Bailey (WS6W)**- Sec.
Doug Schliebus (W6HXL)- Treas **Charlie Grandjean (WD6FAF)**
Fred Canham (K6YT) **Steve Stuntz (K6FS)**
Bill Rausch (AA6PA) **Wally Porter (K6URO)**

ABSENT:

Dave Meacham, (W6EMD) V.Pres. **John Buonocore (KD6ZL)**

The meeting was called to order by **Vic (AB6SO)**. The September 10 PAARA Board meeting minutes were read by **Dave (WS6W)**. The following correction was made:

Item 6 under Other Business was clarified to say that the one raffle winner will choose one prize among three. The other two prizes will carry over until the next month, and the club will buy a prize to replace the one chosen.

Wally (K6URO) gave the PAARAgaphs Editor's report. We currently have 108 paid members for 1997.

Old Business:

- The Autumn Auction will be held Saturday, November 1. **Vic (AB6SO)** distributed a list of volunteers. **Gerry (WA6LNV)** made flyers to advertise the auction.
- Dave (WS6W)** said that **Bill (N6CHI)** and **Dan (WB6STW)** won net operating awards this month.
- The License Class will be held October 25 and 26. **Vic (AB6SO)** will get in touch with **Dan (WB6STW)** to get the VE's set up.
- The Special Event station for the club's 60th anniversary will operate on November 8. The location was not determined, but operation can be from more than one location. **Vic (AB6SO)** has a portable setup to use if the weather is good.
- Dave (WS6W)** gave the Officers' Nominating Committee Report. **Doug (W6HXL)** wants another term as treasurer, and **Dave (WS6W)** is willing to stay on as

(Continued on page 89) Board Minutes

CELEBRATE PAARA'S SIXTIETH

"60 for 60"

GET ON THE AIR

Have at least 60 QSO's between July 1 and Dec 31, 1997

Any band Any mode Simplex only no repeater contacts

Submit log showing date, time and other station's call

Specially designed certificates

will be awarded in early 1998

No confirming QSL's required!!

FIRST WINNER

STEVE STUNTZ, K6FS

(Continued from page 88) Board Minutes

secretary or serve as vice-president next year. The bottom line is that we need at least two more officers and one more board member. If nobody volunteers to be president, the president will be chosen among the board members.

New Business:

1. The meeting raffles will be reinstated in January, 1998. The vice-president, treasurer, or refreshments person can be in charge. The treasurer might be the best bet since a fair amount of money is handled.

2. The winter party will be held in the middle of January. Several locations were proposed. Fred(K6YT) will investigate Shoreline Harbor. Dave (WS6W) will investigate the Bold Knight. Charlie (WD6FAF) will investigate the Country Harvest Buffet in Santa Clara.

Other Business:

1. We cannot store video equipment at the Menlo Park Recreation Center any more. Steve (K6FS) has the equipment at his home.

2. Steve (K6FS) mentioned that hams can renew licenses on-line using the Form 900. This form, available only electronically, can be used at most 120 days before the expiration of the license, and not after.

3. Vic (AB6SO) said that Jim Maxwell (W6CF) will be our speaker in November and Mike Leland (KD6PIW) will speak on rail-fanning in December.

The meeting was adjourned by Vic (AB6SO).

Submitted by Dave Bailey (WS6W)

(Continued from page 87) Ponderings

Power levels that trigger a routine station evaluation:

Band (Wavelength)	Transmitter Power (W PEP)
160 M - 40 M	500
30 M	425
20 M	225
17 M	125
15 M	100
12 M	75
10 - 1.25 M	50
70 cm	70
33 cm	150
23 cm	200
13 cm and up	250

Note that everyone should be exempt from routine evaluation on 30 Meters as the power limit on that shared band is 200 Watts. Evaluations are not required for push-to-talk portable and mobile stations. Hams are fortunate since we are allowed to perform our own evaluations. No paperwork must be filed with the FCC. Commercial spectrum users must comply with more stringent environmental regulations.

Power control regulations are intended to ensure public safety. Some see them as a conspiracy by the EPA to take away freedoms and exercise more control over our personal lives. Others see them as just another set of pro-forma government regulations to be ignored, if possible. In any case, compliance could become a real problem if your neighbors decide to invoke RF exposure limits in an antenna zoning argument. This has already happened in one local case in which a prostate cancer patient claims that his neighbor is trying to kill him with RF even though the underlying hidden agenda may actually involve a dispute over the view from the property.

How difficult is it to comply? Fortunately, not very. Hams who find that their stations are non compliant may "adjust their power, mode, frequency, antenna location, antenna pointing or on-and-off times to bring their operation into compliance", according to October QST.

Evaluating your station is not very difficult if you find that, because of your power level, an evaluation is called for. The FCC has a web page devoted to RF safety exposure. (Go to <http://www.fcc.gov/oet/dockets/et93-62/>) The ARRL RF safety web page is available at (<http://www.arrl.org/news/rfsafety/>) For those without web access, the ARRL has an "RF-Exposure Information Package" available from the ARRL Technical Department Secretary. Cost is \$2 for members or \$4 for non-members, postpaid. This may become available from ham radio stores in the near future.

To help you perform a station evaluation, the University of Texas Amateur Radio Club has set up a web page at (<http://>)

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PAARA
Special Event Station
 November 8, 1997.
 PAARA will be celebrating
 our
60th Anniversary

with a Special Event Station on Saturday, November 8. Operation will be on SSB in the General Class portion of the 40, 20, 15 and 10 meter bands using the club callsign W6OTX. If enough operators are available, we will also use VHF and UHF bands as well. Come on out and operate regardless of your class of license. Control operators will be available so that you won't need to be General Class in order to operate. **Unlicensed third party operators are also welcome** while control operators are in charge. Otherwise, contact us on the air to earn your commemorative certificate.

Requests for certificates are welcome at the club address:
 PAARA, PO Box 911, Menlo Park, CA 96026.
 Contact Vic Black AB6SO for further information about operating



PAARA Meeting Minutes

October 3, 1997

submitted by: **Dave Bailey (WS6W)**, Secretary

President **Vic Black (AB6SO)** called the meeting to order, and the introductions were done. We had several first time attendees this evening: **Dave Rice (WN6NW)**, **Conrad Weiss (NN6CW)**, **Paulette (KE6CFW)**, **Doug (KA6FJ)**, and **Mary and Clay Ripma. Ron Carmichael (KD6RFI)** upgraded to Advanced Class and has a new call, **KQ6RS**.

Announcements:

1. **Koert Koelman (KC6WCI)** is very ill, and everyone signed a copy of PAARAGraphs for him. Our best wishes go to Koert and his family.

2. The PAARA Board meeting will be this Wednesday, October 8, at the Pale Alto Red Cross Building at 7:30 pm.

3. The VEC License classes scheduled for October 18 are cancelled because of a conflict with Pacificon.

4. The PAARA New Ham Class will be held October 25 and 26 at the Pale Alto Red Cross. **Bill (AA6PA)** is one of our instructors. If you want to be a student or an instructor, talk to **Vic (AB6SO)**.

5. For club badges, see **Fred (K6YT)**.

6. **Jim Maxwell (W6CF)** will be our speaker next month.

7. **Andy (VE3FZK)** announced the Fremont Hidden Transmitter Hunt this Saturday, October 4. There will be a beginner hunt and a Doppler hunt.

Continuing Business:

1. **Dave (WS6W)** gave the Nominating Committee report. We need two more officer candidates. If anyone is interested in running for office or serving on the Board, talk to **Dave (WS6W)**, **Charlie (WD6FAF)**, or **Wally (K6URO)**.

2. The Autumn Auction will be held Saturday, November 1, in the Shriner's Hall in San Mateo. **Gerry (WA6LNV)** wants flyers distributed to all of the amateur radio stores and events this month.

3. The PAARA 60th Anniversary Special Event Station will operate Saturday, November 8, on the General Class segment of 40, 20, 15, and 10 meters (SSB). Novice, Tech, and Tech Plus operators are especially needed. A certificate will be issued to those who contact the station.

4. **Fred (K6YT)** mentioned that the club call **W60TX** expires in July, 1998, and that he will renew it.

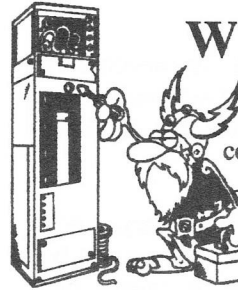
5. The PAARA Winter Party will be held in January, 1998.

New Business:

1. The meeting raffle will be reinstated next month. There will be three high quality gifts from which one winner can choose. One new gift will be purchased for the next month to replace the one chosen by the winner.

2. **Les (WB6ORZ)** gave the Monday Night Net operating awards to **Herb (KF6BKL)**, **Len (WA6HLE)**, and himself for checking into the net at least 20 times in 1997.

(Continued on page 94) Meeting



WEB WANDERINGS

de **Vic Black, AB6SO**

Three hobbies, stamp collecting, coin collecting and amateur radio, especially encourage knowledge of geography. In order to help you understand geography better we'll look at some free map sources available on the Internet.

Barry Arneson K8SD offers (<http://hem.passagen.se/sm3gsj/gcm.htm/>) He says, "While doing some searching [for the ARRL grid map] I found a program by **SM3GSJ**. It allows you to build a Great Circle Beam Heading grid map from your coordinates. VERY COOL. It has far more detail than the ARRL map for those running Windows 3.1 or Win95. Handy for pointing the antenna, too." This message came from the VHF list.

Subscribe to the VHF list at ([vhf-request@w6yx.stanford.edu/](mailto:vhf-request@w6yx.stanford.edu)) The human list administrator is at ([vhfapproval@w6yx.stanford.edu/](mailto:vhfapproval@w6yx.stanford.edu))

Watson Gabriel WB4EXW sent the following e-mail message: "Depending on what you are looking for, try: (<http://www.zip2.com> or <http://www.city.net/>) Enjoy." "Another is (<http://www.mapquest.com/>) I find it to be almost great!" de **Jack Bryant W5TFB**. Try (<http://www.mapsonus.com/>) "In the setup portion, you can tell it to give you the lat/long of your address." de **Norm Melick**. **Ed Pacyna W1AAZ** says, "Try (<http://wc4.webcrawler.com/WebCrawler/Services/FindAddress.html>) Unless the address is very rural, you will get the detail you want."

Ron McConnell, W2IOL offers the following for converting place names to latitude/longitude for the US and Canada: "The US Geological Survey geographic name information service (GNIS) query: (<http://www-nmd.usgs.gov/www/gnis/gnis-form.html>) has coordinates for every big rock, small pond, bridge, cemetery, ... in the US that has a name, not just cities and towns. The Canadian counterpart is the geographic name server at Natural Resources Canada: (http://www-nais.ccm.nrcan.gc.ca/cgndb/english/cgndb_lookup.html) Cheers, 73." This would be a terrific resource for use in conjunction with your GPS receiver. It's also perfect for determining your location in VHF contests that require Maidenhead grids as part of the exchange.

Brad Mugleston KB0ROL offers an entire list of map sources. "If you are looking for a map of a particular address, these web sites will help you.

<http://www.vicinity.com/mapblast/index.html>

<http://www.mapquest.com/cgi-bin/>

<http://mapweb.parc.xerox.com/map/>

<http://www.delorme.com/cybermaps/>

http://www.city.net/countries/united_states/

<http://www.geocode.com/eagle.html-ssi.>"

After you find the maps you need, look up addresses from the next message I received from **Bill Jones KD7S** in Sanger, California. "I stumbled across a URL that has a good listing of

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surplus electronics and computer parts stores in California's famous Silicon Valley area. For those planning a visit, you may want to check this web site first. I have visited many of the stores personally and they are wonderful.

The URL (courtesy of KC Engineering) is (<http://www.kce.com/junk.htm/>) September, 1997 QST features an update article by PAARA member and QST Contributing Editor **Jack Troster W6ISQ** on the NCDXF/IARU HF Beacon program. The worldwide 18 station beacon network is now nearly complete with 16 stations currently active on 14.1, 18.11, 21.15, 24.93 & 28.2 MHz. Each station transmits, in timed sequence every three minutes, its callsign, and four dashes. The first dash is at 100W output, and the other three are at 10, 1, & .1Watt out. ID is 22WPM CW. For info on the beacon program, see (<http://www.ncdxf.org/>)

Bob Follett AB7ST of Park City, Utah tried a shareware program which makes the HF beacon system use very easy. He reports, "To REALLY make propagation monitoring from your QTH easy there is a Windows program that goes with this stuff called BeaconClock. It, in real-time, displays the callsign transmitting with beam heading and distance from your QTH. I have it loaded, and it has the option to "try to stay on top" of all other windows screens. I can watch it as I type this E-mail! Of course your computer clock has to be accurate, but they give you an easy way to make small adjustments from WWV. Or, use a modem clock setting program, as I do. Yes, you gotta have Windows 3.1 or Win95, but if you do—there is no excuse for not running this program!" This program is available for downloading free from (<http://www.mutadv.com/kawin/pages/bcncnk.htm/>)

Have you been spammed (i.e. sent unwanted e-mail commercial advertisements)? Avoid unsolicited e-mail ads. Go to (<http://drsvcs.com/nospam/>) for "Internet Spam Control Center" or "No Junk E-Mail" at (<http://pages.ripco.com:8080/~glr/nojunk.html/>) Thanks for these tips from **Mark Pipes KB7RJF** in Reno.

"Antennas is a mailing list (reflector) devoted to discussing, comparing, evaluating, designing, and constructing antennas of all types, especially for amateur radio, SWL, scanning, and monitoring. Design and Evaluation; Modeling, Optimizing; Analysis Software; MF, HF, VHF, UHF, SHF; Construction Projects; Anything Else Antenna Related.

To join Antennas, send email as follows:

TO: majordomo@qth.net

SUBJECT: <leave blank>

BODY: subscribe antennas

Post to Antennas as follows:

TO: antennas@qth.net

Antennas is sponsored by **Al Waller K3TKJ** and routine administrivia is handled by me, **Brian K Short**. (k7on@qsl.net). Enjoy."

Last month I mentioned the folded monopole antenna fashioned by avid op **Dr. Rogerio "Roger" Gonzaga CT1ETT** with help from PAARA member **Dave Meacham**

W6EMD. Apparently his antennas work. Roger earned second place in the world for Single Op QRP Phone Division of the ARRL International DX Contest. He also rated a photo of his well equipped hamshack in October CQ magazine, page 11.

Finally, this important e-mail message was received from **Ernie Gregoire AA1IK** of Canaan, NH. "Hello Gang. The deadly H-bola virus (H- for hams) has killed tens of thousands of hams. This conclusion was reached after a 4 hour session on 15 meters. I programmed the CMOS III keyer to pause for 5 seconds between unending CQ's. I got [only] 4 takers. The band was open coast to coast. I had two chats with W6 stations, one in Arizona and one in XE1. The XE1 was QRP and running 5 watts. RST was 579 both ways. There can be only one explanation [for this lack of activity]: the deadly H-bola virus has killed most of the hams." ☺☺☺

(Continued from page 89) Ponderings

www.cs.utexas.edu/users/kharker/rfsafety). Fill in requested information such as transmitter power, antenna gain and distance the antenna is located from people. The web software automatically calculates your station's field strength and informs you if you are in compliance. If you are not in compliance, it will specify how far to remove the antenna from people in order to comply. The FCC will soon issue simple look up tables (Bulletin 65 Amateur Supplement) to make it easy to evaluate your station. For more RF Exposure Safety information, see October, 1997 QST, page 51.

On the 25th of September PAARA members **Dan Curry WB6STW** and WorldRadio columnist **Jack Troster W6ISQ** were seen hobnobbing with well known DXers and contesters at a local pizza parlor (Give Pizza Chance). Owner **Rusty Epps W6OAT**, a driving force behind the World Radio Team Championship and former PAARA guest speaker, assembled a group of about 20 hams from all over the US to ragchew about DX. **Eric W6DU** brought Swedish operator **Eric SM0AGD** who left the next day for a DXpedition to Kure Atoll to operate as **K7K**. Check their photos in Oct. CQ, page 77. Also present was **Trey N5KO** who operated from the Galapagos Islands as **HC8N** where he placed second for Single Op, High Power during the World Wide CQ DX Contest. **Steve Morris K7LXC**, CQ Contesting magazine antenna Tower Editor, flew in from Seattle for the confab. One discussion topic was plans for the California QSO Party. **Bob Wilson N6TV** of WRTC Team USA was promoting participation in the California QSO Party for the No. Calif. Contesting Club to ensure representation from all California counties.

Dave Bailey WS6W, our Officers' Nominating Committee Chairperson, is looking for a few people with dynamic ideas to become club officers and board members for the 1998 calendar year. Duties include one low stress board meeting per month plus duties of the individual offices. If you are interested in giving back to the club which has given you so much, don't hesitate to contact **Dave**. Since he's our Net Control Operator for the Monday night PAARA Net, he's easy to contact. ☺☺☺

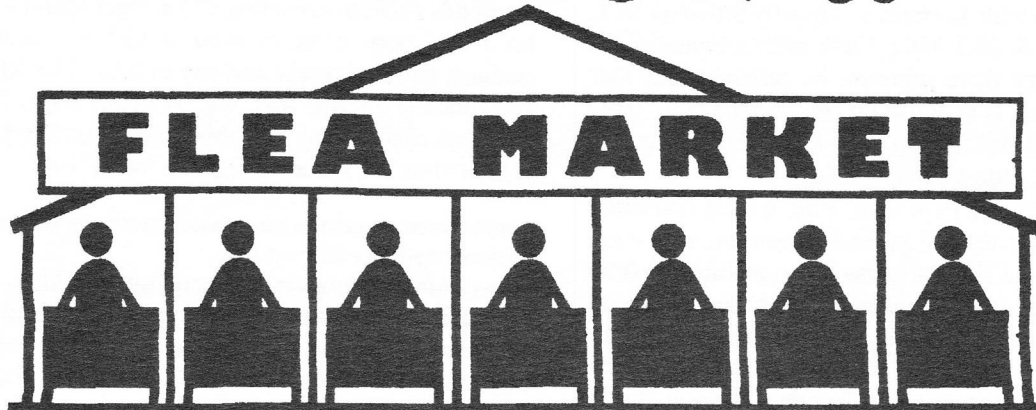
745-0229
794-1060

1952

ANNUAL

1997

- P A A R A -
 PALO ALTO AMATEUR RADIO ASSOCIATION
AUCTION &



SATURDAY NOVEMBER 1 9:30 A.M.

San Mateo Shriners' Center
 1925 Elkhorn Court, San Mateo, CA

Hiway 92 to El Camino South; turn Rt on 20th-one blk

HAM RADIO GEAR ELECTRONIC PARTS

TEST EQUIPMENT RAFFLE PRIZES

COFFEE & DOUGHNUTS SERVED

DOORS OPEN AT 7:30 A.M.

LOCAL **CALL-IN 147.05** SIMPLEX

Flea Market Table Space \$10.00 Each. Some tables available.

AUCTION CHARGES: 10% OF SALES PRICE. BUY BACK
 SUBJECT TO \$5.00 MAX. CHARGE PER LOT.



Join us for pre-meeting eyeball
QSO Nov 7th
gab & gobble

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



PAARA MONDAY NIGHT NET

8:30 PM 145.230-600 MHz repeater

PL tone off

Latest news between monthly Issues of PAARAgaph

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. • Make payment to the Palo Alto Amateur Radio Association.



ARRL Online

From ARRL Headquarters:

ARLS033 Sputnik model launch update

New information indicates that the launch of a working model Sputnik 1 from the Russian Mir space station won't take place until early **November**. According to information received today from Sergei Sambourov, chief of the cosmonaut Amateur Radio department for Russia's Energia space agency, the Sputnik 1 model will be launched November 3 during a spacewalk, although he cautioned that schedule could change. The model Sputnik, assembled by students in Russia and equipped with a 2-meter transmitter by students in France, now is aboard Mir. It was carried to the space station last week by a Progress supply rocket. The program sponsors initially intended to have the working Sputnik model launched from Mir on October 4, the 40th anniversary of the original Sputnik 1 satellite.

The Sputnik-40, as it's called, reportedly will be hand-released by the Mir crew during the space walk. Latest information indicates the mini-satellite will transmit a "beep-beep" signal on 145.82 MHz (FM) from its 200-mW onboard transmitter. The batteries are expected to last a month or two. A QSL card will be available for those who receive the signal.

For additional details and photos see:

<http://www.oceanes.fr/~fr5fc/spoutnik.html>

ARLB058 electronic renewal Form 900

Hams now can renew their licenses on line. The FCC's Wireless Telecommunications Bureau (WTB) has consolidated eight renewal forms into one form. Form 900, Application for Electronic Renewal of Wireless Radio Services Authorizations, is an interim measure to permit all WTB licensees, including hams, to renew their licenses electronically.



PAARA PRIDE wear your PAARA Badge

to
meetings, picnics, field days, winter parties, ham fests,
flea markets, Pacificons...

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 are for "scanner-ready" copy or text-only ads.

PAARA NEEDS A LOGO

For 60 years we've been anonymous; it's high time we showed off our unique identity. So get busy — CREATE! Come up with a design that reflects our eclectic interests and can be easily reproduced. The winner will be immortalized by publication in PAARAgaphs forevermore.

HAVE AT IT, GALS & GUYS *PAARA Historian -Steve K6FS*



BOB KORTE

605 SPAR DRIVE
REDWOOD CITY
CA 94065

(415) 593-2652
HmOffice/Fax

(408) 534-4285
V.M./Pager

RGK4U@aol.com

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TREASURER'S REPORT		September 30, 1997				
INCOME:	1996	Jun.97	Jul.97	Aug.97	Sep.97	97 YTD
Dues	\$600	\$24	\$12	\$12	\$24	\$972
Flea Market	6,116	37	242		30	\$8,775
Auction	3,336					\$0
Advertisements	600		20			\$25
Holiday Dinner	449					\$0
Interest & Other	529	42	42			\$290
Total Income	\$11,630	\$103	\$316	\$12	\$54	\$8,062
EXPENSES:						
Postage	\$64					\$72
DMV	43					\$43
State of CA	10					\$10
Rent	300		\$150			\$325
Speakers Dinner	132	\$33				\$99
Flea Market	1,737	58				\$2,768
Auction	2,241			100		\$100
Refreshments	92	12		20	7	\$95
Newsletter	2,446	238	184	252	199	\$1,838
Picnic	87	443		10		\$453
Field Day	377	66	100	50		\$216
Holiday Dinner	669					\$0
Radio Class	155					\$0
Misc.	782	15				\$348
Total Expense	\$9,135	\$865	\$434	\$432	\$206	\$6,368
SUMMARY:						
Income	\$11,630	\$103	\$316	\$12	\$54	\$8,062
Expenses	\$9,135	\$865	\$434	\$432	\$206	\$6,368
Net Return	\$2,495	(\$762)	(\$118)	(\$420)	(\$152)	\$1,694
Balance in Check	\$3,855	\$5,673	\$5,098	\$5,103	\$4,693	\$4,693
COMMENTS:	Income and expenses are on-track with last year. November Auction will boost 1997 income.					
	Doug Schliebus, K1DIT, ex-W6HXL					

(Continued from page 90) Meeting

Operating News:

1. **Dan (WB6STW)** contacted **NM50CIA**, the special event station for the 50th anniversary of the Central Intelligence Agency, and received a 59 signal report. **Steve (K6FS)** also contacted them. Dan also received a 59 report from **K7K** on Curry Island on 20 and 15 meters. **Eric (SM0AGD)** was the operator on that island, where one can only go by permission. He also worked **Bruce (VK4BS)**, one of the County Hunters in Australia and New Zealand; **Lou (EA3JE)** in Barcelona on 20 meters; and **Wally (R1ANZ)** in Antarctica.

2. **Vic (AB6SO)** heard the Russians on the Mir Space Station on **NA6MF (145.585 MHz)** rebroadcast from Moffett Field.

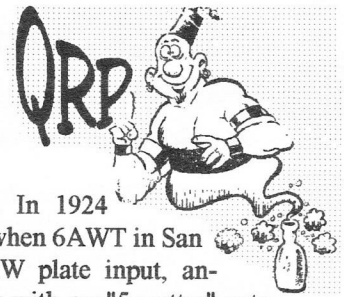
Show and Tell:

1. **Vic (AB6SO)** showed his **SST20**, a complete 20 meter superheterodyne transceiver. It puts out 2 watts CW and uses a variable crystal oscillator (VCO) for tuning. The covers were made on a computer and laminated with Contac. » » »

SAM SAYS QRP

CQ QRP de KF6ML

(continued from last month)



QRP is not a recent idea. In 1924 (before a lot of us were born) when 6AWT in San Francisco was running 5.4KW plate input, another ham commented, "today with cw."5 watter" gets as many QSL cards as 250w."

On August 17, 1923, an Australian, A2DS made a 1,200 mile contact on less than 1w. 240m cw. Even today, 1,200 miles per watt on 160m will raise a few eyebrows.

On February 1924, another Australian 2CM conducted 1,500 mile tests from Sydney to New Zealand with 4 milliwatt input! In our solid state age, this sounds like a weak transistor.

USA came into the picture later in 1924 with the first official sanctioned QRP activity- "Miles per watt/ efficiency contest," as reported in QST:

- May 1924 9AHH (MN) 400mi. .51w = 782miles per watt
- Dec 1924 3AIIH (NJ) 208mi. .08w = 2,600mpw
- June 1925 5AQW(OK) 300mi. .05w = 6,000mpw
- 1926 8GZ 10,000mi. .567w = 17,820mpw

note: 8GZ is none other than Larry Windom of Windom antenna fame

We jump to 1955-1961 and the transistor age.

- W7UUZ 200mi. 2.5mw = 80,000mpw
- ZL1AAX 160mi. 1mw = 160,000mpw
- W7MPQ 4,500mi 24mw = 187,500mpw

Bibliography: "History of QRP" by Adrian Weiss W0RSP (note: A few years ago, Adrian was honored at Dayton Hamvention and became a QRP Hall of Fame member)

From these humble beginnings, with the advent of inexpensive IC's, low cost and suitable performance projects are being developed - many into articles in various publications and some emerging into kits. Whether you find a favorite circuit and hunt around for parts or buy a kit - if you built it with your own hands, it is home brew and you can be proud of yourself - once for building it and then operating it as a QRP contact.

72's Sam KF6ML

(continued next month)

Bring a Show & Tell
 to the next
PAARA meeting

2. **Herb (KF6BKL)** showed his J-pole antenna.

3. **Andy (VE3FZK)** told about the transmitter hunt he and **Andreas (KF6NEB)** went on this week to track down some jamming on a local repeater. It turned out that the culprit was just a repeater gone haywire.

Since there was no speaker this evening, the meeting was adjourned by **Vic (AB6 SO)**.

Submitted by **Dave Bailey (WS6W)**

Steve Stuntz K6FS

Extract from: K6FS log, 7/1 to 12/31/97

NOTE: all contacts G1RP on 20m SSB,
 radio: MFJ 9420 xcvr & 971 tuner.

NR	DATE	TIME	CALL	QTH/NOTES
1.	8/22	0300	WQ7A	nr Seattle
2.	"	0310	W0SY	nr St. Paul
3.	"	2031	KL7FNA	Alaska
4.	"	2310	W2AWD	nr Albuquerque
5.	8/23	0045	W8GIO	WVa
6.	"	0140	K18DV	Columbus OH
7.	"	0154	W3CQH/m	nr Wash. DC
8.	"	0636	V63KU	Truk
9.	8/24	0027	W6NL	Redwood City
10.	"	0128	KL1SLE	Anchorage AK
11.	"	0329	ZL3RG	Christchurch NZ
12.	"	0705	VK3DBL	(Australia)
13.	"	0812	VK6ACY	Perth, W. Aus.
14.	8/25	0216	W0NFD	Littleton CO
15.	"	0245	KM5FA	Llano, TX
16.	"	0256	KB2MQE	nr Buffalo NY
17.	"	0346	VE3WNQ	Dryden ONT
18.	"	0412	K5XS/KH6	Hickam AFB HI
19.	"	0414	K5XH	Fayetteville AR
20.	"	0428	ZL4KF	NZ
21.	8/26	0844	VE7MDM	Vancouver BC
22.	"	1956	WX7F	Beaverton WA
23.	"	2005	NL7FP	Anchorage AK
24.	"	2032	W7KGY	Tucson AZ
25.	"	2047	W4SBDK	Roswell NM
26.	"	2106	WH6L7	Wells NY
27.	8/27	0613	YO4KCA	Constanta, Romania
28.	"	0621	VE7MR	Nanaimo BC
29.	"	0644	N7BS	Coeur d'Alene ID
30.	"	0752	WL7YW	Wasilla AK
31.	"	1411	VE6ND	Calgary AB
32.	8/28	0649	KH0I	Saipan
33.	"	0700	V63KU	Truk
34.	8/31	0316	W5NA	Hattiesburg MS
35.	9/1	0237	N5VPK	San Antonio TX
36.	"	1610	KL7FNH	Sitka AK
37.	"	1628	K7MX	Redmond WA
38.	"	1656	NH6SJ	HI
39.	"	1705	VE7JIU	BC
40.	"	2124	VE7TLK	Vancouver BC
41.	9/2	0207	KH7T	Oahu HI
42.	"	2346	W7KEU	Pittsburgh KS
43.	9/3	0012	VK6ACY	Perth W AUS
44.	9/4	0405	VK9NS	Norfolk Is.
45.	9/5	0349	ZL1BOS	Christchurch NZ
46.	9/6	0017	W0HCO	NDAK
47.	9/7	0037	KL7AK/KL7	Lincoln Is. AK
48.	"	0314	K7ZO	Baker City OR
49.	"	0348	WH6CQH	HI
50.	"	0353	JR5JAQ	Japan
51.	9/9	0114	N7QXQ/HR6	Honduras
52.	9/10	0329	KS6DV	Am. Samoa
53.	9/11	1704	4U1WB	Washn DC
54.	9/13	1506	W8MAI	St. Joe, MI
55.	9/14	1950	VA7F	BC - Spl. event
56.	9/15	2141	W4VL	Virginia
57.	"	2154	W1FKD	Maine
58.	9/16	0242	KB9GKC	Green Bay WI
59.	9/17	0100	AC4VG	Greenville SC
60.	"	0107	K4MPI	Tallahassee FL
61.	9/18	0011	VP2VF	Tortola BWI
62.	9/22	0106	K1MFZ	Foster RI
63.	9/23	0052	XE1/NOBKT	Guadalajara MX
64.	"	0100	AC5IU	Albuquerque NM
65.	"	2328	NN50CIA	VA - CIA 50th Spl Evt
66.	"	2355	KA1MFA	E Greenwich RI
67.	9/24	0132	N4LEM	Coco Beach FL
68.	9/25	2341	KO4KM	nr Jacksonville FL
69.	9/26	2228	EA3JE	Barcelona, Spain
70.	9/27	0707	VK4FO	Queensland, Australia
71.	9/30	0013	K1RX	So. New Hampshire
72.	"	0016	VE7EOP	Q. Charlotte Is., BC
73.	"	0031	VE7TLL/m	Q. Charlotte Is., BC
74.	"	0048	T320	Christmas Is.
75.	10/3	0152	AC5BI	Nina AR
76.	"	0219	XE1MX	Mexico City
77.	10/4	0205	JA3UGZ	Kobe, Japan
78.	"	2253	VE6DBH	Alberta
79.	"	2308	N8II	WVA
80.	10/5	0104	W4WA	GA
81.	"	0113	N5DO	TX
82.	"	0115	VE1JX	Nova Scotia
83.	"	0204	JR4WKU	Japan

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60

AWARD

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PAARA members making 60 contacts July 1, 1997–December 31, 1997
 All bands, any mode (except repeaters). Submit log or photo copy showing date,
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 award from PAARA. More info at November meeting. —Steve, K6FS

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Format: 8.5x11 (standard letter size) preferred.
 Colors: you bet

contact Steve Stuntz, (K6FS)

November 1997

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

PAARA AUCTION

November 1st

FIRST CLASS MAIL

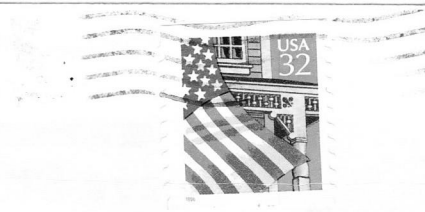


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