





PARRAGRAPHS is the official newsletter of the Palo Altol Amateur Radio Association & the Menlo Park Civil Defense Radio Club.

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## PAARA POLICIES

Membership in PAARA is \$6.00 per calender year which includes a subscription to Paaragraphs. Make payment to PAARA, P.O. Box 911, Menlo Park, Ca. 94026

Club Net 147.45 MHZ Monday e 8:30 PM

The Speaker for this month will be

introduced immediately

after

a pitch is made for

support regarding lineing

up speakers!

Editors Note

I am *very* proud to announce: the ARRL has awarded **Ken Dueker <u>First Placs</u>** for Santa Clara Valley section, in the Novice Roundup. Congratulations Ken <sup>11</sup>HI

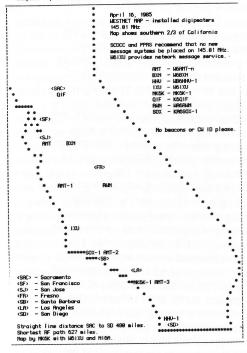
## Gateway Vol. 1

Packet on Field Day? You beti The ARRL has just announced that Packet Radio will be enhanced for the 1985 Fied Day, June 22,23. Rule changes are. (1) One Packet contact gets you 100 Points. Each additional packet contact counts 2 points (CW rulesi). (2) The Packet stati on is a FREE st. ation. This means that it does not count in class entry of number of transmitters. Novice and Oscar share this status. (3) DIGIPEATERS WILL be allowed!! (repeat er rule is waved for packet.) See May QST for details. Go out and offer your ser vices to the local ham club!! This announcement should go a long ways towards making more hams and the public aware of Packet Amateur Radio. GoodLuck.

Editors Note — More of the articles for this months PaaraGraphs were down loaded over the air using Packet Radio, from the WB5VUL-1 computer builtetin board at the Palo Alto Red Cross. I thought I would let those of you unfortunate enough not to be on Pacet Radio to se what you are missing!

TRANSCONTINENTAL

PACKET At the meeting of the Board of Directors of the Pacific Packet Radio Society (PPRS) on March 21st, 1985, the following resolution was passed: Whereas the PPRS was one of the first societies formed specifically to encourage the growth of computer networking via radio using all digital concepts and techniques, and whereas the San Francisco area was the site of the nation's first amateur digipeater, and whereas an even greater challenge faces the amateur radio community to establish a transcontinental link, the Pacific Packet Radio Society has decided to



Editors Note - I just happen to have a number of 12V, 8.4 AMP switching power supplies available at \$25.00/each. These *new* supplies are enclosed, with barrier strips for power in/out. Give me a call at 857-9138 if you are interested. (Rob - KA6NAN) If any of you out there have items you wish to buy/sell, drop me a note, or give me a call.

\*\*\* Message from KB6FVA to ALL entered Wednesday 24-Apr-85 at 11:11 PM \*\*\* Subject: new emergency operations trailer

redwood city police department has a new crime prevention/disaster communications command post. a 30 foot trailer, being wired and rigged by hams. the redwood city amateur radio disaster communications service has been in operation for more than thirty years, but is enjoyimg a new revival. with moree than 25 active members, the group is reenforcing the rapors with the local police and fire groups. the police department has a state grant for the trailer, and the hams are the active technicians, putting all of the communciations gear together, wilson 16 channel synthesized radios are being used on 155 mhz, 460, 480 and 490 mhs. there is also a kenwood tr-7950 2-meter rig and a 50 watt astron power supply to run it all, and a honda generatir to run away from the ac maind we will be using the trailer for field day, but we look forward to mail from packeteers on the pacific packet radio societies mailbox in palo alto, wb5vul-1, (the mailbox call is correct, sorry about the other misspellings. this terminal doesn't have a backspace key) redwood city is about 20 air miles south of san francisco, on the west side of san francisco bay. you can reach the p.p.r.s. bulletin board service through w6a mt-0 73's ant regards, kb6fva, david harris, assistant

\*\*\* End of message from KB6FVA VIA W6AMT-1,W6AMT

e.c. for redwood city.

establish a unique award to encourage the completion of the first terrestrial transcontinental network link. This one-time award shall be known as the "Golden Packet" [Like the golden spike that completed the transcontinental railroad. – Ed.] and the regulations relating to it are listed below:

1. A transcontinental link must be established, with each terminus located within 100 kilometers of either the Atlantic or Pacific Ocean. 2. The system must consist of fixed terrestrial digital storeand-forward radio links using VHF (greater than 144.1 MHz), UHF or microwave frequencies. Use of HF, satellite, tropo, meteor- scatter or moonbounce channels is prohibited. 3. A valid two-way transmission and acknowledgment of previously unknown information (256 characters or more) must occur in less than ten minutes. 4. This competition is open to licensed North American amateurs, and no commercial links or services may be used in the path. Club stations are permitted. 5. Proof of the exchange must be submitted to the PPRS. Proof must include a list of the stations in the link, their locations. frequencies used and a copy of the text exchanged. 6. The reward shall consist of a suitably engraved plaque with the names of all participating stations listed which shall be presented to the ARRL. Each participating station shall receive either a plaque or a certificate. 7. Final decision on the award is subject to review and approval by the Board of Directors of the PPRS.

Editors note - The following was obtained by packet, over the air, from the W6IXU bbs in San Luis Obispo on 145.01 MHZ - 4/27/85. Mailbox commands: List, Read, Send, Call, Usage, Quit, Command: list all (1) 4 lines from W6IXU to ALL entered Monday 01-Apr-85 at 2:25 AM Messages to ALL will be deleted by SysOp after 2 weeks (2) 3 lines from W6IXU to ALL entered Sunday 07-Apr-85 at 3:40 PM How to get latest news about WESTNET (3) 5 lines from W6IXU to ALL entered Friday 12-Apr-85 at 5:34 PM How to find out about the latest changes to this mailbox (4) 20 lines from WB6UUT to ALL entered Friday 12-Apr-85 at 9:42 PM For Sale: Complete Apple //e System with Extensive Accessories (5) 26 lines from W6IXU to ALL entered Friday 12-Apr-85 at 10:55 PM Reach out and touch someone via NTS/packet (6) 7 lines from NI6A to ALL entered Tuesday 16-Apr-85 at 12:16 AM NEW PACKET RADIO ASSOCIATION FORMING IN NO CAL (7) 4 lines from NK6K to ALL entered Wednesday 17-Apr-85 at 12:38 AM WESTNET MAP (8) 5 lines from WA6YLB to ALL entered Wednesday 17-Apr-85 at 6:14 PM

17-Apr-85 at 12:38 AM
WESTNET MAP
(8) 5 lines from WA6YLB to ALL entered Wednesday
17-Apr-85 at 6:14 PM
WANTED DEAD OR ALIVE VANCOUVER OR OTHER TNC
FOR DIGIPEATER SERVICE
(9) 68 lines from NK6K to ALL entered Monday
22-Apr-85 at 11:47 AM
TNC sale of the century!
(10) 5 lines from AJ6T to ALL entered Wednesday
24-Apr-85 at 6:57 PM
Printer for Sale
(11) 24 lines from KB6FVA to ALL entered Wednesday

new emergency operations trailer

24-Apr-85 at 11:11 PM



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PACKET RADIO INTERFACE KIT-\$29,95

## Heath Computers & **Electronics** Z BUILD



CANTEXNA WITH OIL \$25.90



HWA-5400-1 SPECIFICATIONS: Line Voltage: 120/240 VAC, 50/60 Hz. Output Voltage: 13.8 VDC at rated load. Protection: 20-ampere DC output fuse. 7- and 4-ampere slow blow fuses for 120 and 240 VAC primaries, respectively. Output Current: As required by Transceiver, up to 18 (20 peak) amperes during transmit. DC Output Regulation: 7% from receiver load to transmit load at 120 VAC primary; 4% additional with AC primary at 110-130 or 220-260 VAC. Ripple: 50 mV or less at rated load. Duty Cycle: 9 amperes DC continuous. 18 amperes at 50% (5 min. on, 5 off). Speaker: 4 ohms impedance, 300-3000 Hz response, 2 watts peak power. Clock: 4-digit blue fluorescent display in 12 or 24 hour format. synchronized to line frequency. Cabinet Dimensions: 41/4" H x 81/2" W x 14" D (10.8 x 21.6 x 35.6 cm). Net Weight: 26 lbs. (11.8 kg).

HW-5400 SPECIFICATIONS - GENERAL: Overall Band Coverage: 80 through 10 meters, 10 MHz WWV. WARC bands operational. Frequency Coverage: 3.450 - 4.050, 6.950 - 7.350, 10.000 - 10.200, 13.950 - 14.400, 18.018 - 18.218, 20.950 - 21.500, 24.840 - 25.040, 28.000 - 29.750 MHz. Frequency Readout: 7-digit vacuum fluorescent display with special symbols. Readout Symbols: -(Split), - (Out of band), L (LSB), U (USB), C (CW Wide), C (CW Narrow), M (Memory). Transmit). Readout Accuracy: To nearest 50 Hz. Frequency Control: Synthesized. Synthesized Lock Indicators: Display reads 'PLL' and LEDS show which loops are unlocked. Transmitter is disabled. Dual Rate Frequency Tuning: Slow = 50 Hz per step, 1.25 kHz per knob rotation. Fast = 1 kHz per step, 25 kHz per knob rotation. Tuning Backlash: None. Split Frequency Operation: Transmit from memory frequency, receive from displayed frequency. Memory: Stores two frequencies per band. Fréquency Stability: Less than 50 PPM drift from turn on. Modes: SSB Normal and Reverse; CW, Wide or Narrow. Operating Temperature: 0° to 40°C. Power Requirements: 11 to 16 VDC, 120/240 VAC with optional AC power supply. All specifications referenced to 13.8 VDC. RECEIVER: Sensitivity: Less than 0.35 μV for 10 dB, S+N/N. Selectivity: With standard filter, 2.0 kHz minimum at 6 dB to 6 kHz maximum at 60 dB; with HWA-5400-2 optional filter, 1.8 kHz minimum at 6 dB; CW active audio filter, 250 Hz minimum at 6 dB centered at 700 Hz. Overall Gain: Less than 1 µV for 0.25 watt audio output. Audio Output: 2 watts minimum into 4 ohms; less than 10% THD. AGC: Selectable Fast or Slow (no more than 8 dB audio change for a 100 dB or greater input signal range). Intermodulation Distortion: 70 dB minimum at 25 kHz. Image Rejection: 80 dB minimum. If Rejection: 100 dB minimum. IF Shift Tuning: ±600 Hz in Receive only, Internally Generated Spurious Noise: All below 1.0 μV. Audio Hum and Noise: Greater than 40 dB below maximum output. Receiver Incremental Tuning: ± 350 Hz. TRANSMITTER: RF Output: High SSB, 100 watts PEP power minimum, except 80 watts on 10 meters. CW, 100 watts minimum, except 80 watts on 10 meters. Duty Cycle: Continuous SSB (voice). 50% receive-transmit ratio on CW; 5 min. on 5 min, off, Load Impedance: At least 90% rated power with less than 2:1 SWR. Protected against high

min, off. Laad Impedance: At least 90%, rated power with less than 2.1 SWR, Protected against high VSWR. Carrier's Suppression.—50 dB minimum from a 100 watt, single-tone (1000 Hz). Swarious Radiation:

—60 dB minimum, reference of 100-wat tought. Third draft pistration:—30 dB minimum from a 100 watt. single-tone (1000 Hz). Syarious Radiation:—60 dB minimum, reference of 100-wat tought. Third draft pistration:—30 dB minimum from a 100 watt. Set provided to 100-wat tought. Third draft pistration:—30 dB minimum from a 100 watt PEP two-tone output. TRR Operation: SSB = PTT or VOX. CW = full break in (simplex only). Widelows: Object to 100-wat tought on Hz bed to 100-wat tought on the 100-wat tought of 100-wat tought on 100-wa HWA-5400-1 AC Power Supply with 12/24-hour clock and speaker; HWA-5400-2 2.1 kHz SSB Filters HWA-5400-3 Frequency Entry Keypad kit. Cabinet Dimensions: 41/4" H x 111/4" W x 14" D (10.8 x 28.6 x 35.6 cm). Weight: 24 lbs. (10.9 kg).

Paara P.O. BOX 911 合金や ( 1985 ) ( 1987 ) (

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