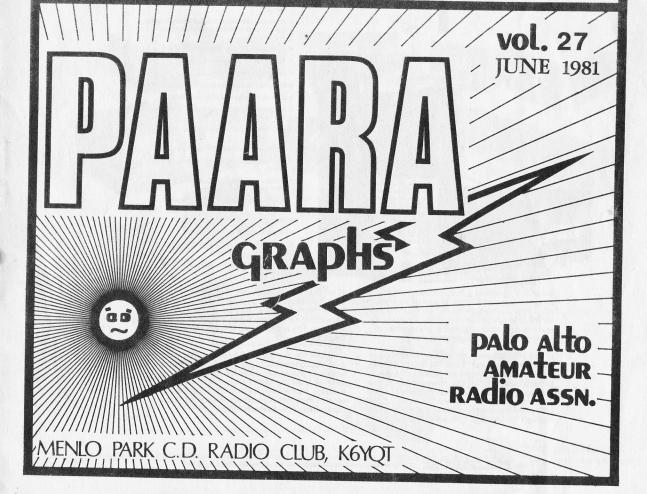
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DAVID SHAVER K6DTX

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When is a handheld a radio module? When it is designed from the start to be part of a complete 25 or 50W mobile system. Not only can the Santec HT-1200 operate on its own Ni-Cd battery, but also it can function respectably as the center of a modular synthesized high power mobile.

1 2 3 A

4 5 6 B

* 0 # D

☐ The HT-1200 produces at least 4 watts on all the ham frequencies, from 144.000 to 147.995, for the punch needed for repeater/handheld communications. The low power mode is true low current drain. ☐ A Texas Instruments TMS 1000 microprocessor powers the brain of the unit, providing keyboard entry of all digits down through the kHz digit. ☐ In addition to providing

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Compare the features and functions that come with the competition's popular 25 watt mobile units and you will find the HT-1200 system has them all beat! This dream of a radio is more than a dream, it's a reality. See us at the Dayton Hamvention for a hands-on demonstration of all the capabilities of the Santec HT-1200.

VOLUME 25 NUMBER 6 JUNE 1981

PAARAgraphs is the official organ of

The Palo Alto Amateur Radio Association and the Menlo Park Civil Defense Radio Club

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Written contributions to the P.O. Box above, or: c/o Editor, 1043 Del Norte Av., Menlo Park, CA 94025

REGULAR MEETING

Friday

7:30 p.m.

PAARAgraphs STAFF

Rooms 15-17, Menlo Park Recreation Center, Civic Center, Alma at Mielke Drive
Menlo Park

PACKET RADIO

INTERFACING A TRANSCIEVER WITH A COMPUTER

by

Hank Magnuski, KA6M

Hank gave a brief description of Packet Radio at the October, 1980 meeting in a coffee break presentation and followed it with an article in the November issue of PAARAgraphs. This was followed by an article in <u>QST</u> in April, 1981. Hank will bring us more information and show gear required for this unique form of communication.

CIRCLE THE DATE

June 5. 1981

IN THE FUTURE: Field Day, June 26 (play), June 27, (work), June 28, (work, play); meetings: July 10, August 7, September 11, October 2. Auction and Flea Market in October to be followed by another picnic!

PAST CORNER: The May 1 meeting was called to order at 7:40 p.m. by Gerry, WA6LNV, and guests were introduced. They included Walter Murray (NC) and John Walther, K6PKT from Mountainview, Bob, KA6KYY, and Ruth Peterson, KA6KYZ, of Redwood City, Larry Johnson K7LJ, Santa Clara, Bob Weller, N6NE, from Alameda Erik Dean KA6FRY, Sunnyvale, Gary Perazzo, K6LVJ, now from Phoenix, Jim Groenke, WA6ABQ, of Palo Alto, and Bill Anderson, KA6BXS, Foster City.

A warm welcome was extended all the guests and there is high hope we will see them again June 5.

Mac, N6YV, gave a report on the April 26 picnic at Huddart Park, outside Woodside. There were some relatively new faces and a number of older ones too, among the 24 that attended. A good time was had by all. The weather was beautiful, the site as nice as anyone could want, and the food was perfect for all. Short notice, because of the popularity of Huddart Park, and a lack of advertising kept attendance down but we have another chance in October, and lots of time to let people know of a good thing.

Fred, K6YT, reported on Field Day preparations and made a progress report on the "new" generator. He displayed the plaque, now in PAARA's custody, for the Club effort last year, and described what he would like to be in the inscription for 1981. He reports a weak supporting team on June 26 for the set-up of the equipment. Until last year three or four weekends were spent putting things in place but with the 24-hour limit for the installation, organization and manpower use is put at a premium. Fred passed around a signup sheet to determine who could do what, and when. Friday, June 26 and Sunday afternoon, June 28 are the problem periods right now.

Rob, KA6NAN, reported that KA6JIR has recently been licensed as a technician but all attempts to associate a name or face with JIR have been futile. Perhaps next month we'll have it straightened around.

PAARA contest logs for our abridged version of the International D.X. Contest, March 6-7, and the CQ WPX Contest March 28-29, were requested. None were submitted.

The meeting broke for coffee, cookies and a raffle tickt sale (coffee, cookies and prizes by Ed, W6AIN) and many rag-chews. Only John, K6JJU, was present of our "new" (April) members. We missed meeting the others.

Emery, W6IFF, talked about towers, stressing the integrity needed for safety and precautions necessary in tower erection. All who heard what he had to say either rested covfortably or went out Saturday morning to reexamine their structures.

The raffle of goodies finished the meeting at 2145LT. Some wended their way down the block to the refreshment stand, a half-dozen continued parking-lot conversations until about 2230, but it must be presumed the remainder of the 57 who signed the register went home.

BOARD CORNER: The Board of Directors met Wednesday, May 6, in the Club trailer, just inside the SRI gate, at about 7:30 p.m. Those present included Gerry, WA6LNV, John, KA6CUG, Kevin, WA6FHC, Gerry, W6NIR,

Bob, K6SEM, Dave, KB6WP, and Mac, N6YV.

Bob, SEM, stressed the need for help on the Friday before Field Day to get things set up. He suggests anyone who can take the day off from work to do so, and hopes all the "old faithfuls" will be there. Gerry, NIR, confirmed again the site was available—the boat yard at the end of Bay Road. Bob continued that equipment seemed available, including back-up in case of failure but the "new" generator still had work to be done on it. He pushed the Board to recruit help for June 26 because of the magnitude of the program. All agreed that the more you do for Field Day the more you appreciate the results.

Short notice and a lack of publicity were biamed for the light attendance at the Huddart Park picnic. Mac, NGYV, stated there was no space available from the date chosen to the middle of October so he signed up both dates and that the word would be spread earlier for the one this fall.

It was suggested by Gerry, W6NIR, that a bulletin board for any swap or wanted or for sale items be available at meetings for display during the coffee break. Such would augment the UNCLASSIFIED CORNER in PAARAgraphs. The board will be available at the June 5 meeting—any undisposed or unfound items will be included in the paper.

Gerry, LNV, assigned Kevin, WA6FHC, to report on CCRC activity at each meeting, with a copy of the latest CCRC Bulletin made available to him at least as he enters the door to the meeting or soon after the bearer of the Bulletin does.

The July meeting has been delayed until the 10th because of the long weekend of the 4th.

The next Board of Directors meeting will be June 10th, same place, same time, hopefully with a new face or two. All are welcomed.

SILENT KEY

Earl W. Crocker. W6VYC

PAARA 1970-1981

Hal Moore, W6DEF PAARA 1956-1981

George Moss, W6AZS

PAARA 1980-1981

It is with deep regret we note the passing of our friends.

CUT AND PASTE CORNER: Please add the following to your May Roster:

Harry Makler Ken Manders Ken Thomas	KA60JI WB6CNI K6GDH	13445 Robelda Road 11 Michael Court 628 Greer Lane	Los Altos Hills San Carlos Palo Alto	CA CA	94022 94070 94303	366 7389 326 7701
William Wilson	K6TBE	1011 Henderson Avenue	Menlo Park	CA	94025	325 4342

and change:

Perry Yelton, KD6ID phone to 366 9481 Ed Clark, W6KJI phone to 366 8187

CONGRATULATIONS CORNER: Cam, K6RU, was named "1980 Contester of the Year" by the Northern California Contest Club.

28 23 25

Anaheim, Burlingame, San Diego, Van Nuys



94010

GEORGE VARVITSIOTES

WB6DSV

(415) 342-5757

22 92 9

FIELD DAY CORNER: PAARA will again compete in the 4-A class in Field Day, June 27 and 28. An additional station will be run by the Novice and Technician Class members of the Club.

Work has been progressing for some time—ten years, at least, according to Fred, K6YT. Fred has been sorting, storing, refurbishing equipment used last year, a culmination of years of accumulation of top—notch gear, each year made a little better by members of the Club. Cam, K6RU, has been spending hours reworking antennas and contacting CW operators he thinks can do the best job possible. Bob, K6SEM, has been lineing up equipment with back—up gear in case of problems, and also has been looking for those agressive operators with limber tongue and sharp ears to operate the phone stations.

The site selected is the same as that used last year—the boat yard at the foot of Bay Road—a pleasant, level spot, seldom too hot, and with cooling afternoon breezes.

All who attend—either as workers, operators or visitors are requested to keep to the amateur area. Children and exhberant youngsters should be made aware by their guardians that a boat yard is full of industrial dangers. Some heavy equipment, under the influence of a skylarking crew, could come alive with awesome results. All should keep within the generous bounds offered by Carl and Shirley Schoof.

Field Day is expected to be a lot of run again this year. Propagation may not be as good as last year but that will treate a greater challange. All bodies that can make the set-up date of June 26 should contact Bob, SEM, at 494-6549, or Fred, YT, at 946-9298. Any who even think they can be of a little help during the weekend are urged to call.

Special event this year? See the lil' pufferbilly generate electricity near the Novice tent.

2-meter frequencies of 147.45 mHZ simplex and/or 146.28/88 will be monitored at the site during all operations for those who get lost enroute.



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RED DOT CORNER: Red dots on mailing labels last month, and again this month, indicates there is no record of payment of 1981 dues. The list is down to 27 and diminishing slowly. If a red dot mysteriously appears, it could be an error. But please check, preferably with George, GIJOEN, then Ed, WOAIN, and last with Bob, WOBFH, who probably was responsible for the error

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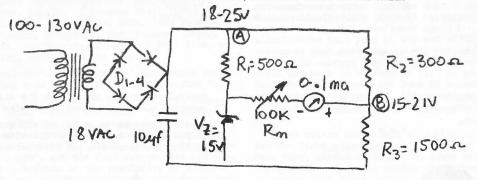
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17 17 11

EXPERIMENTERS CORNER: As a result of a misplaced Red Dot last month your Editor had a nice phone contact with Ken, K6RB, who is busy mastering the complexities of Slow Scan TV. He has met with pit-falls and we'll have to get Gordon, W6PCP, our April speaker to straighten him out.

Ken keeps busy in his work shop and with his daily schedules on the HF bands but the two meter rig has been put on a high shelf as far as the PAARA Monday evening net is concerned. Rae needs special attention during that period and she runs pretty high on the priority list. We hope she improves enough that Ken can get back on the evening ragchew.

Pirated from the EMARC RELAY, EXPANDED SCALE 120VAC METER



is any 15 volt Zenor or tow 7.5v Zenors, for example, 4737 $^{\mathrm{D}}$ 1-4 is a full wave bridge or low current rectifier diodes. Meter is 0 - .1 ma full scale or less (Rm limits current)

Vac	v _A	v _B =	$\frac{R_3}{R_2 + R_3} + V_A$	$\text{Meter} = \frac{\mathbf{V}_{\mathbf{B}} - \mathbf{V}_{\mathbf{Z}}}{\mathbf{R}_{\mathbf{m}}}$
100	18	15		0.0
115	21.5	18		0.05
130	25	20.9		0.10 ma. Dick Blaine, K60DK

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CONTEST CORNER: Slim picking for contests the next few months unless you help out on Field Day.

June 6-7, New York State QSO Party, 1700Z June 6 until 0500Z June 7 and 1200-2359Z June 7

June 13-14, ARRL VHF QSO Party, 1900Z June 13 thru 0600Z June 15, but only 28 hours of the 35!

June 27-28, Field Day. If you can't help the Club at Cooley Landing, get on the air! WAS in a few hours and above all, contact K6YT on all possible bands, all possible modes.

July 11-12, IARU Radiosport Championship.

August 8-9, ARRL UHF Contest.

Seems like there is enough going on to work up skills. Give it a whirl-you might like it.

UNCLASSIFIED CORNER: This space is made available to Club members, and others if there's room (and rarely there isn't) for the disposition or acquisition of just about anything.

FOR SALE: Collins 32-S-1 receiver with matching power supply, 516-F-2; very good condition. \$375.

7.5 volt dry cells, reasonable

Circuit boards for parts. Check for prices. See Bill, NoCHI or call 595 0258.

RECALL REQUEST: Fred, K6YT, found the 220v connectors he (we) needed for the new generator at the EMARC Flea Market.

EDITOR'S CORNER: It happens in the best of regulated households. The whole file for June PAARAgraphs has been mislaid so an abbreviated issue results. My apologies to those who contributed materialand for those who didn't-it gets you off the hook.

HEATHKIT ELECTRONIC CENTER 2001 MIDDLEFIELD RD. REDWOOD CITY, CA 94063 415 365 8155

A journey through the history of the Heath Company shows a long partnership between Hams and the world's largest kit manufacturer

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The Heath Company got its big boost when World War II ended and the availability of surplus electronic parts led to the development of electronic products. The first Heathkit electronic kit, introduced in 1947, was a 5" oscilloscope that sold for \$39.50 F.O.B. Benton Harbor. The popularity of that kit led to an FM tuner kit, a hi-fi amp, and a 3-tube "all-wave radio."

The end of World War II produced more than a surplus of electronic

components. It returned to civilian life a huge corps of electronicoriented veterans, many of whom joined the legions of Amateur Radio operators who had been denied the airwaves during the war. Because these Ham Radio enthusiasts comprised a large part of the Heath customer base, the company soon came out with a grid dip meter, which was followed by the AT-1 CW Transmitter kit.

The support of the Ham community led to the introduction of a wide array of Heathkit Amateur Radio products. Soon the Heathkit Catalog was featuring the DX-100 Phone and CW Transmitter Kit. Covering 160 through 10 meters, the DX-100 put out 125 watts on phone (AM, of course), and 140 watts on CW. Although the DX-100 featured a built-in VFO, it also sported four crystal positions, since Novice license holders were "rock bound" in the 1950's.



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