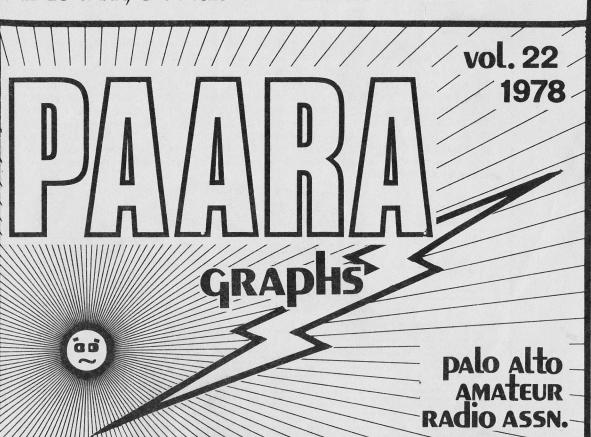
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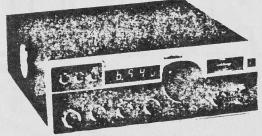
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All Solid State-CMOS PL digital synthesized - No Crystals to Buyl 5KHz steps - 144-149 MHz-LED digital readout PLUS MARS-CAP and MULTIPLE OFFSET.*

● 5 MHz Band Coverage - 1000 Channels (instead of the usual 2MHz to 4MHz-400 to 800 Channels) • 4 CHANNEL RAM IC MEMORY WITH SCANNING • MULTIPLE FREQUENCY OFFSETS • ELECTRONIC AUTO TUNING - TRANSMIT AND RECEIVE . INTERNAL MULTIPURPOSE TONE OSCILLATOR . RIT . DISCRIMINATOR METER - 15 Watts Output - Unequaled Receiver Sensitivity and Selectivity - 15 POLE FILTER, MONOLITHIC CRYSTAL FILTER AND AUTOMATIC TUNED RECEIVER FRONT END, COMPAREI Superb Engineering and Superior Commercial Avionics Grade Quality and Construction Second to None at ANY PRICE.

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LED DIGITAL READOUT.

. 4 CHANNEL RAM SCANNER WITH IC MEMORY Program any 4 frequencies and reprogram at any time using the front panel controls-search for occupied (closed) channel or vacant (open) channels. Internal Ni-Cad included to retain memory (no diode matrix to wire or change)

MULTIPLE FREQUENCY OFFSETS. Three positions A.B.C., provided for installation of optional crystals. EXAMPLE - 1 MHz offset, Duplex Frequency Offset Built in - 600 Khz PLUS or MINUS 5 KHz steps, plus simplex, any frequency

- . INTERNAL MULTIPURPOSE TONE OSCILLATOR BUILT IN 1750Hz tone burst for "whistle on operation" and sub-audible tone operation possible by simply adding a capacitor across the terminals provided. Internal 2 position switch for automatic and manual operation, tone burst or sub audible tone PL - adjustable 60-203Hz (100 Hz provided).
- · AIRCRAFT TYPE FREQUENCY SELECTOR: Large and small coaxially mounted knobs select 100KHz and 10KHz steps respectively. Switches click-stopped with a home position facilitate frequency changing without need to view LED's while driving and provides the sightless amateur with full Braille dial as standard
- FULL AUTOMATIC TUNING OF RECEIVER FRONT END AND TRANSMITTER CIRCUITS: DC output of PLL fed to veractor diodes in all front end RF tuned circuits provides full sensitivity and optimum intermodulation rejection over the entire band. APC (AUTO POWER CONTROLL: Keeps RF output constant from band edge to bend edge. NO OTHER AMATEUR UNIT AT ANY PRICE has these

features which are found in only the most sophisticated and expensive aircraft and commercial transceivers.

TRUE FM. Not phase modulation - for superb emphasized hi-fi audio

- RIT CONTROL. Used to improve clarity when contacting stations with off frequency carrier

. MONITOR LAMPS 2 LED's on front penel indicate (1) incoming signal-channel busy, and (2) Transmit FULLY REGULATED INTEGRAL POWER SUPPLY Operating

voltage for all 9v circuits independently regulated. Massive ercial Hash Filter . MODULAR COMMERCIAL GRADE CONSTRUCTION 6

Unitized modules eliminate stray coupling and facilitate ease of ACCESSORY SOCKET Fully wired for touch tone, phone patch, and other accessories. Internal switch connects receiver output to

internal speaker when connector is not in use

MULTI-PURPOSE METER Triple Function Meter Provides
Discriminator Meter, "S" Reading on receive and Power Out on

RECEIVE Better than 25uv sensitivity, 15 POLE FILTER as well as monolithic crystal filter and AUTOMATIC TUNED LC circuits provide superior skirt selectivity - COMPAREI

e HIGH/LOW POWER OUTPUT 15 watts and 1 watt, switch selected. Low power may be adjusted anywhere between 1 and 15 watts. Fully protected-short or open SWR.

e OTHER FEATURES Dynamic Microphone built in speaker, mobile mount, external 5 pin accessory jack, speaker jack, and much, much more. Size 2½ x 7 x 7½. All cords, plugs, fuses, microphone hanger. etc. included. Weight 5 lbs.

· EPTEMBER 1978 **********	*****	${ m V}\cap { m V}$	ME 22 NUMBER 9
PRESIDEN T VICE-PRESIDEN T SECRETARY TREASURER TRUSTEE OF W60TX TRUSTEE OF K6YOT	1978 CLUB W6BFH VE3 FZK WA6LNV WB6LML	OFFICERS Bob Baum Andy Korsak Gerry Tucker Bill Jenkins Fred Canham	325 0407 366 5228 326 4008 321 1438 048 0238
PROPERTY CUSTODIA	N	Ed Fairbanks	322 9238

PAARAgraphs is the official organ of the PALO ALTO AMATEUR RADJO ASSOCIATION and the MENLO PARK CIVIL DEFENSE RADJO CLUB.

	1978 BOARD	OF DIPECTORS
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PAARA P.O. Box 911 Menlo Park, CA 94025

PAARAgraphs Staff:

Editor WISE He wont admit it Production FØO1 He shouldn't h ave tried Mailing W6AIN Ol' Faithful

-4-

PAST CORNER -- Marion, K6GJ, reminisced the olden times when home brew meant starting with tin foil from cigarette packs and going on from there. Auxiliary power supplies using a logging locomotive, antennas of 000 copper wire, transmitters using 226-A finals, light dimmers and turner-onners and others of his inventions were discussed and displayed.

40 attended the meeting which dragged a little during the raffle. Speed it up, you guys--don't keep those in suspense waiting to see if they share the loot or not.

NEAR CORNER

REGULAR MEETING

Friday

September 9, 1978

7:30 p.m.

Dr. Michael H. Hecker SRI International Speech Scientist

Speech Inteligibility and its Measurement

Coffee, cookies, raffle and eyeball OSO's.

Menlo Park Recreation Center, Civic Center, Menlo Park.

BOARD CORNER -- The Board of Directors met Aug. 9, giving praise to the anonymous editor who then resigned. It then planned work assignments for the PAARA Auction and Flea Market Oct. 7 at AMPEX; assigning Bill, WB6LML the chore of getting crystals for Press', W6W1, 2-meter rig donated to the club and now reposing in the trailer. There was some discussion about having a 2-meter OSO Party to see how many club stations we could muster. 18 got into the 8:30 p.m. Monday gabfest on July 18--a new high. Conversations concerning getting Gerry, WA6LNV, on 2-meters so he could keep closer touch with club activities through that medium. All are welcomed to the Sept. 13 meeting at 7:30 p.m. in the club trailer.

NOVICE CORNER -- Swede, KA6BEU, continues to work-over 40-meters with gratifying results and talk of building a simple rig but claiming no know-how. Ed Camp is still trying to sort out dits and dahs to form letters that make meaningful words. No word from Larry Sebring about his progress -- he must be having a busy summer. Bill, WA6ZZU is looking for help to put a 40-meter Moselv beam on his 40 foot crankup tower. Bill isn't sure enough of his new legs to try the job alone. TECHNICIAN CORNER -- One less and we're glad. GENERAL CORN ER -- Bruce, WB6SRC, has given his Dad. Howard, N6HM, cause for worry about who's going to use the big gun and when. Bruce became an Interim General Aug. 14. Congratulations from all of us, Bruce. Do we put a silver star on your name tag? ADVANCED CORNER -- Have at it, Bruce EXTRA CORNER -- Even if you did not make it (whoever you are) it would be newsworthy. Not all of us go to the City every week.

PUBLIC RELATIONS CORNER -- Guests at the August meeting included John Arnold, Sr., of Sunnyvale, Al Elge, WA6ATB, Los Altos, Bill Frye, Palo Alto. We hope to see you in September. Rick Ferranti, WA6NCX, will have a new address this fall when he takes up housekeeping with his new XYL, Lucy. 215 Herrick Rd., Newton Center, MA 02169. We wish them happiness, health and good fortune.

TAG CORNER -- Hopefully name tags will be available for:
Steve K6FS
Clay K50SQ
Jock N6YV

at the September meeting.

FINE CORNER -- Bob, W6BFH, displayed a good conduct medal but no name tag at the August meeting. He was the only one fined for not being identified. Something like the shoemaker's son.

ANNOUNCING

the

1978

PALO ALTO AMATEUR RADIO ASSOCIATION

ANNUAL AUCTION and FLEA MARKET

Saturday

October 7, 1978 10:00 am to 3:30 pm

AMPEX Cafeteria, Next to Building No. 1, Bay Road, Redwood Cith, CA

Raffle Prizes....Coffee and Doughnuts Served....Ham Equipment & Gear Electronic Parts Test Equipment

To reach AMPEX from BAYSHORE or EL CAMINO: Take WOODSIDE ROAD (State Rt. 84) to BAY ROAD (two blocks east of BAYSHORE) turn south four blocks to AMPEX parking lot. Cafeteria is just south of Building No. 1.

HERE ARE THE RULES

- 1. Doors open at 9:00 a.m., AUCTION AND FLEA MARKET start at 10:00 a.m., and continue until 3:30 p.m.
- 2. Register at desk, obtain your AUCTION LOT NUMBERS OR FLEA MARKET TABLE. Then bring your gear into the Cafeteria. There will be monitors and hand trucks to help move your gear or equipment.

PLEASE STAY OFF THE GRASS

- 3. Buyers must register for bidding during the AUCTION.
- 4. AUCTION lot numbers will be issued in sequence of registration and will be auctioned in that order.
- 5. CHARGES: 10% of sale price of auctioned items will be retained by PAARA. If you buy back your own equipment, this fee also applies. Flea Market tables are \$3.50 each.
- 6. LIMITS: Auction material will be limited to 5 lots per person the first time around. If time permits, additional material may be put up for auction.
- 7. IDENTIFICATION: In addition to his lot number, owner should include information on the material to be sold.
 - a) Description of article, frequency range, power required, etc.
 - b) Condition of item.
 - a) operating
 - b) not known
 - c) needs repair
- 8. DONATIONS will be welcomed by PAARA. Such material will be sold to help defray club expenses. ALL SUCH MATERIAL IS GREATLY APPRECIATED.
- 9. DURING THE AUCTION buyers must show their registration number to record their purchases.
- 10. PAYING AND RECETVING: Buyers and sellers will make payment and collect money due at the TREASURER'S DESK.
 Buyers are urged to settle promptly after each purchase.

INTERNATIONAL CORNER -- In September, 1979, representatives of 154 International Telecommunications Union (ITU) member nations will meet in Geneva to re-evaluate and negotiate allocations of various services to different parts of the RF spectrum on a world-wide basis. These World Administrative Radio Conferences (WARC) take place every 20 years. Agreements as to which service shall occupy what segments of the RF spectrum are decided by vote, each country having one vote. It is expected that Amateur Radio, because of itsmany allocations in the HF, VHF, UHF and microwave segments, will be the subject of much debate since many other services will be arguing their need for extended spectrum coverage.

Front-row representatives for each country are professional diplomats; backing them are technical and legal advisors from the communications administrations of their governments. Backing these official telecommunications arencies will be representatives of various special interest non-governmental organizations, each officially recognized by its own country's government as spokesman for specific users of the RF spectrum. In the U. S. delegation, ARRI, will represent Amateur Radio. League officials at WARC-79 will not be permitted to negotiate with opposite members from other countries but will function as observers and advisors to the U. S. negotiators. This same organization of delegates and observer/advisors applies to all ITU members; heads of memberstates authorize the final membership of each delegation. President Carter signs the order establishing the membership of the U.S. representation.

Amateur Radio will be represented by selected members of the International Amateur Radio Union (IARU) which has 105 member societies. The IARU team advisors are authorized to attend all meetings of the seven primary ITU committees and 45 sub-committees. IARU reps will get to know delegates (about 2000), their positions and their countries attitude towards Ham radio, and will seek to persuade delegates of the advantages to their countries of protecting, expanding, and, in some cases, creating the Amateur Service as a mat-

ter of national policy.

The use of HF bands by the Amateur Service is expected to be the most hotly disputed issue of WARC. At this time the U. S. position set forth by the FCC provides for the exclusive world-wide Amateur use of the following HF bands:

1. - 2.0 mHZ 21 - 21.5

3.5 - 4.0 mH7 (3 .9 in Europe) 14.0 - 14.5mHZ 24 - 24.5 6.8 - 7.3 mH7 18.1 - 18.6mHZ 28 - 29.7 plus significant increases of VHF, UHF and microwave assign-

ments.

A plea for good operating practices and self-policing was made to strengthen position of Amateur Radio in the eves of the ITU; to spread Amateur Radio at home and abroad, the latter by supporting the spread of low-cost equipment such as that developed by ARRL.

The presentation was made by ARRL's Bruce Johnson, attended by about 100 local Amateurs from the Bay Area and

reported by Steve, K6FS.

CORRESPONDENCE CORNER -- Hal, WoDEF, reports that Gerry, WA60PA and his XYL, looking for a place to eat in Auturn, happened along to find Hal sweeping the doorway of 60° High Street. He didn't say whether anyone was fed but did remark about the fine OSO they had. Hal keeps busy but finds time to enter traffic in the N.C. Traffic Net and working into WR6ADL and WR6AKL.

OVERHEARD CORNER -- The KGO listener who suffered a minor breakdown was released after a few weeks of therapy. He complained that, because of his location, he could get KGO only at night. A friend, who happened to be a Ham, suggested he put the old bed spring in the garage up in the oak tree cand use it as an antenna. A few days later, while struggeling with the bed spring, who should drop by unexpectedly, but his psychologist and family doctor... The story has a satisfactory ending -- he was able to explain ...

OUESTION CORNER -- Bring a pencil and paper to make notes in

QUESTION CORNER -- Bring a pencil and paper to make notes in case a sticky problem is solved in a brief question and answere period at the meeting Friday. If you have a question about why it wont work, someone else probably has the answere

and will be glad to share their experience with you.

Unclassified Corner:

Ed, W6KJI, has a NGX-5 in mint condition with a power supply for \$275. Ed says it's an excellent piece of gear but he doesn't need two complete stations.

4 Go-cart wheels from the pallet that used to carry the generator. They must be good for 200 pounds each. See Fred, K6YT with about \$25. Call 94 0319.

Bronze screen, assorted sizes and shapes. See Ed, W6AIN, at the meeting with a soleful look on your face or call 322 0319.

Erv, W6YPM, 368 2558, has a spare ICOM 230 at \$250.

Philco-Ford Auction/Flea Market, Sept. 9 at Ford Aerospace. No flyer received but it will be near Bayshore and San Antonio Rd. Drive around the block -- vou'll find it.

PAARA Auction/Flea Market, Saturday, Oct. 7 at the AMPEX Cafeteria. Don't miss it -- 10:00 a.m. to 3:00 p.m.

Al, WA6ATB, found his 40-meter rig before this rag hit the streets. That's how effective we are.

Everything else: too cld or too late or too much.

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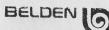






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