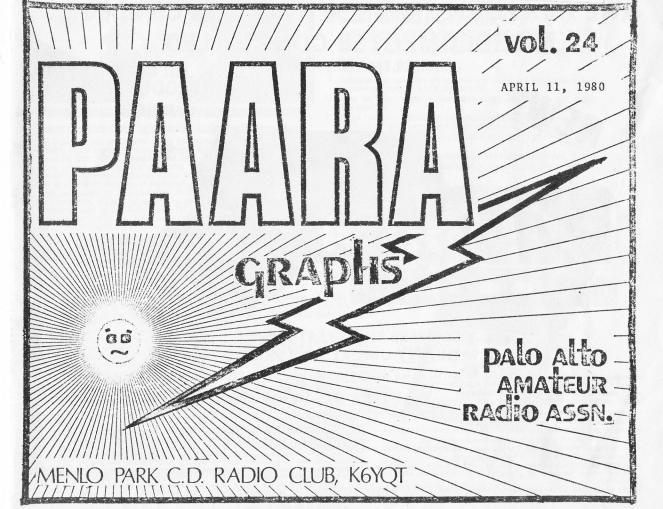
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SHAVER RADIO, INC.

DAVID SHAVER K6DTX

1378 S. BASCOM AVE SAN JOSE, CALIF 408 998-1103

SALFS SERVICE INSTALLATION

AZDEN

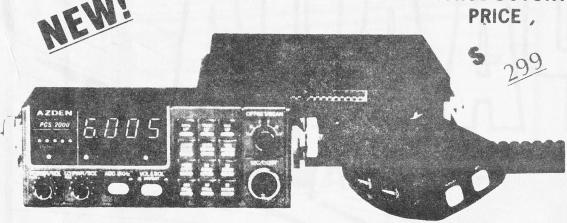
REVOLUTIONIZES THE STATE OF THE ART

AWE AND AZDEN INTRODUCE THE BRILLIANT NEW PCS-2000

MICROCOMPUTER CONTROLLED

2 METER FM TRANSCEIVER

NOT \$550.00 INTRODUCTORY PRICE .



COMPARE THESE FEATURES WITH ANY UNIT AT ANY PRICE

- FREQUENCY RANGE: Receive and transmit. 144.00 to 147.995 MHz. 5Khz. steps + MARS-CAP* and MULTIPLE OFFSET BUILT IN.
- ALL SOLID STATE-CMOS PL DIGITAL SYNTHESIZED.
 SIZE: UNBELIEVABLE! ONLY 6%" x 2%" x 9%" COMPARE!
- MICROCOMPUTER CONTROLLED: All scanning and frequency-control functions are performed by microcomputer
- DETACHABLE HEAD: The control head may be separated from the radio for use in limited spaces and for security purposes
- SIX-CHANNEL MEMORY: Each memory is re-programmable. Memory is retained even when the unit is turned off.
- MEMORY SCAN: The six channels may be scanned in either the "busy" or "vacant" modes for quick, easy location of an occupied or unoccupied frequency.
- FULL-BAND SCAN: All channels may be scanned in either "busy" or "vacant" mode. This is especially useful for locating repeater frequencies in an unfamiliar area INSTANT MEMORY-1 RECALL: By pressing a button on the microphone or front
- panel, memory channel 1 may be recalled for immediate use • MIC-CONTROLLED VOLUME AND SQUELCH: volume and squeich can be adjusted from the microphone for convenience at mobile operation

- · ACCESSORY OFFSET: With one optional crystal, three non-standard offsets
- 25 WATTS OUTPUT: Also 5 watts low power for short-distance communication. DIGITAL 5/RF METER: LEDS indicate signal strength and power output. No more mechanical meter movements to fall apart!
- LARGE 12-INCH LED DISPLAY: Easy-to-read frequency display minimizes
- . PUSHBOTTON FREQUENCY CONTROL FROM MIC OR FRONT PANEL: Any
- frequency may be selected by pressing a microphone or front-panel switch.

 SUPERIOR RECEIVER SENSITIVITY: 0.28 uV for 20-dB quieting The squelch sensitivity is superb, requiring less than 0.1 uV to open. The receiver audio cuits are designed and built to exacting specifications, resulting in
- TRUE FM. NOT PHASE MODULATION: Transmitted audio quality is optimized by the same high standard of design and construction as is found in the receiver. The microphone amplifier and compression circuits offer intelligibility second to none.
- OTHER FEATURES: Dynamic Microphone, built in speaker, mobile mounting pracket external remote speaker jack (head and radio) and much, much more A COESSORIES: 15 REMOTE CABLE. \$29.95 *MARS CAPKIT. TBA PCS-6R
 A C POWER SUPPLY \$49.95

| VOLUME | 24 | NUMBER | 4 |
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April 11, 1980

| *************************************** | April 11, 1980 |
|---|----------------|
| PAARAGTADAS is the official oroms of | |
| The Palo Alto Amateur Radio Association and the Mani- Dail of the | e Radio Club |
| ************************************** | ****** |

| | 1980 CLUB OFF | ICERS | | BOART | OF DIRECTORS | |
|----------------|---|--|--|-----------------------|---|------|
| Vice President | Gerry Tucker Irene Lile Fred Canham Ed Fairbanks Steve Stuntz | K6SEM W6DU WA6INV WB6RAF K6YT W6AIN K6FS | 494 6549 948 1748 326 4908 851 7473 948 9238 322 0319 322 4952 | Chairman: Members: | Bob Wheeler Ed Fairbanks Swede Swenson Shannon Lile Gerry Wagstaffe Terry Conboy | N6RY |
| | | | | | | |

PAARAgraphs STAFF

| Membership in PAARA is \$6.00 per calander year (payable in January) which membership includes a subscription to PAARAgraphs. Interested others may subscribe to PAARAgraphs for \$6.00. Make payment to: | Editor : Bob Baum W6BFH Production : Dave Daniel KB6WP Advertising : Swede Swenson KA6BEU Printing : MELLONICS A10K Mailing : Ed Fairbanks W6AIN |
|---|--|
| PAARA, P.O. Box 911, Menlo Park, CA 94025 | Cover : Sue Lindner LOVLY |
| Written contributions to P. O. Box above, or, 1043 | Del Norte Av., Menlo Park, CA 94025 |

REGULAR MEETING

FRIDAY

***** APRIL 11, 1980 *****

7:30 P.M.

Rooms 15 & 17, Menlo Park Recreation Center, Civic Center, Alma at Mielke Drive Menlo Park April speaker, Erv Rasmussen, W6YPM

Peninsula Nostalgia Night

A description and discussion of Museum Pieces Erv will bring from his collection. Those who haven't seen his collection will not want to miss this meeting.

FUTURE MEETINGS: May 2, June 6

FIELD DAY June 28-29

This edition assembled by the Harper family while listening to the music of Big Bands.

General Meeting: The general meeting was called to order by Bob, K6SEM..

Some discussion was held concerning acquiring a trailer for our recently purchased tower. The object would be to mount the tower permanently on the trailer so it could be swung into place at the field day site. Frank, WB6QPV, volunteered to build a trailer if needed. Anybody with information please call Fred, K6YT.

Jock, K6YT, announced plans for our up coming picnic, "April 20th".
More details later.

An interesting talk and demonstration was given by master craftsman Don Topp, W6CFZ, well known for his "CB conversions". He gave the demonstration his all, including "Blood": First Aid representatives Jerry, WA6LIJ, and Si, WA6ROM, administered emergency aid on the spot with one large bandaid.

Jim, K7UDG, and Explorer Post 599 announced their one year anniversary with PARRA and expressed their thanks for our support. Jim went on to say that all the original explorers now have their licenses.

EXPLORER CORNER

March marks the one year anniversary of Amateur Radio Post 599. I would like to express gratitude from the entire post to PAR RA for its support over the last year. We couldn't ask for a finer sponsering organization. Thank You!

Also, Post 599 would like to express its gratitude and appreciation to Jim Hartwell, K7UDG, and Liza Aguilar, WA7WXA, for without them this post would never have formed and many of us would still be unlicensed, Jim and Liza put in much time helping and guiding 599; teaching us code and theory, finding us a place to meet, taking care of paper work, and in general keeping the post together. Thanks Jim and Liza, your time and efforts are much appreciated, even though we don't always reflect it.

Over the past year we managed to get all the original members licensed, Russell Rocket, KA6IZZ, and Karl Jogis, KA6JIR, were the last original members to be licensed. Congratulations! We still have some newer members working on it... shouldn't be too much longer before they join the ranks of the licensed.

Post 599's schedule for the next few months is clear, except for the Fresno trip in May. The activities should be increasing once summer is upon us again.

In closing I would again like to thank PAARA for its support over the last year and extend a lot of appreciation to Jim and Liza for all their contributions.

73°s

Bob Gallagher, KA6IRT Post President

QST DE K60TR On February 4, 1980, K60TR--the station nominally licensed to the South County Amateur Radio Service Club and located in the Menlo Park Red Cross building at 3540 Middlefield Road--was requested to vacate its location at that address. Ever since the Red Cross reduced its staff and operations in Menlo Park several years ago, the status of K60TR has been in question.

The station was originally established in 1955 by Hal Moore, W6DEF, while he was a resident of Redwood City, and served as a link between the Red Cross and amateur radio. In its early years, K6OTR had close ties to the South County Amateur Radio Society (SCARS) and the W6WWJ Redwood City Civil Defense and Disaster Communications Network. It drew man of its operators from the ranks of K6QNL, the call then being used by the Menlo-Atherton High School Amateur Radio Club.

As the years passed, interest in

PALO ALTO AMATEUR RADIO ASSOCIATION

(PAARA)

ARTICLES OF INCORPORATION

STATE OF CALIFORNIA DEPARTMENT OF STATE

To all to whom these presents shall come, Greetings:

I, FRANK M. JORDAN, Secretary of State of the State of California, hereby certify:

That the annexed transcript has been compared with the RECORD on file in my office, of which it purports to be a copy, and that the same is full, true and correct.

In testimony whereof, I, FRANK M. JORDON, Secretary of State, have hereunto caused the Great Seal of the State of California to be affixed and my name subscribed, at the City of Sacramento, in the State of California, this 2nd day of March 1956.

s/ Frank M. Jordon

316870

ARTICLES OF INCORPORATION

PALO ALTO AMATEUR RADIO ASSOCIATION, INC.

WE, the undersigned, have this date voluntarily associated ourselves together for the purpose of forming a corporation under the laws of the State of California and we do hereby certify:

One: The name of this corporation is: Palo Alto Amateur Radio Association, Inc.

Two: The specific and primary purposes for which this corporation is formed are:

(a) For scientific and educational purposes:

(b) To foster better friendship and closer cooperation between amateur radio operators living in the vicinity or

(c) T elevate the standards of ama-

teur equipment and operation;

Palo Alto;

(d) To secure the benefits of social and educational contacts from the members;

- (e) To aid the Federal Communications Commission in the giving of license examinations, in the enforcement of laws and regulations with respect to amateur radio operation, and to aid in the investigation and suppression of television and radio interference:
- (f) To cooperate fully with Federal, State and Local officials in the maintenance of emergency communications and particularly in the establishment of civil defense communications:

- (g) To receive gifts and requests; to own, control, buy, lease, rent, sell, acquire, hold, convey, mortgage, hypothetical and otherwise deal with or dispose of personal property, particularlly, but not limited to, radio communication equipment.
- (h) Do each and everything necessary, or suitable, or proper for the accomplishment of any of the purposes or the attainment of any one or any of the subjects herein enumerated or conducive to or expedite for the interest or benefit of said corporation and to contract accordingly; and in addition exercise all powers, rights, and priveleges necessary or incidental to the purpose for which said corporation is organized or the activities in which it is engaged. If at any time this corporation should dissolve or its corporate existence should cease, or its charter should be revoked, no part of its funds or property shall be distributed to or shall inure to the benefit of any member or other individual, but after payment of all indebetedness of the corporation, its remaining funds shall be distributed by the Board of Directors for the furthering of scientific and educational purposes in the field of amateur radio communications:

Three: That this corporation is organized pursuant to the General Non-Profit Corporation Law of the State of California.

Four: The county and site of California where the principal office for transac-

tion of business of this corporation is to be located in Santa Clara County.

Five: This corporation is formed as a corporation not for profit to the members thereof.

Six:

Seven: Number, classification and term of officers is established by the by-laws.

BY-LAWS

PALO ALTO AMATEUR RADIO ASSOCIATION

(PAARA)

FOR THE REGULATION, EXCEPT AS OTHERWISE PROVIDED BY STATUTE OR ITS ARTICLES OF INCORPORATION OF PALO ALTO AMATEUR RADIO ASSOCIATION, INC.

Article I. Members.

- (a) The members of this corporation shall be divided into two classifications, namely active members and associate members. An active member shall be any person holding a valid amateur radio operators license. All other members shall be associate members. All members shall have full voting priveleges, but only active members shall hold office.
- (b) Any prospective member may apply for membership at his first attended meeting. Applications for membership may be voted upon at this same meeting. A three-fourth's majority of the members present shall be required to elect an applicant to membership.
- (c) Upon being elected to membership, the applicant shall pay a fee of \$1.00 and shall commence paying dues at the rate of \$4.00 per year. All dues shall become payable on January 1 for the ensuing year, and members elected to membership during the course of a year shall make a pro rata payment for the balance of the year. Upon said election and said payment, the applicant's name shall be inscribed in the membership book.
- (d) Any member who fails to pay his dues for a period of three months shall, at the discretion of the Board of Directors, be dropped from membership book of the corporation.

Article II, Corporate powers.
The corporate powers of this corporation shall be vested in a Board of Directors, all of whom shall be members of this corporation in good standing. Four members of the Board of Directors shall constitute a quorum for the transaction of business.

Article III, Board of Directors.
The Board of Directors shall consist of the president and six directors chosen from the membership. The president shall be elected f for a period of one year and the directors shall be elected for a period of two years at

the regular meeting to be held on the first Friday of December of each year. Three directors shall be elected each year and in the event any director withdraws from the corporation, the balance of his term shall be filled by an appointment by the President. The following shall be initial directors with terms expiring on the dates shown:

| Name | Date |
|-------------------------|------------------|
| Parker M. Robinson, Jr. | December 7, 1956 |
| William Luebke | December 7, 1956 |
| Eric Edberg | December 7, 1956 |
| Richard A. Fisher | December 1957 |
| Robert J. Turner | December 1957 |
| Robert G. Slick | December 1957 |
| | |

Article IV. Powers of Directors.

Regular meetings of the Board of Directors shall be held at the call of the President or, in his absence, the Vice-President, on such notice as is determined by the Board of Directors. Special meetings of the Board of Directors may be called by the President or Vice-President on twentyfour hours' notice to each Director, either personally or by mail or telephone.

The Directors shall have the power:

(1) to have general charge of all interests of the organization;

(2) the Directors shall consider and report at each meeting all proposals for the benefit of the individual members or the general welfare of the corporation;

(3) the Board of Directors shall adopt ways and means for the advancement of the corporation, designate work to be done between meetings of the corporation, audit all accounts and expenses, direct the expenditure of funds of the corporation but not in excess of the amount held by the Treasurer.

Article V. Duties of the Directors.

It shall be the duty of the Directors to

| Adachi, Richard R. Aguilar, Liza Allen, Kenneth R. | w6rvs wa7wxa wb6bcv | 2 Coleman Pl. P.O. Box 7410 3784 Grove Av. | Menlo Park, CA Stanford, CA Palo Alto, CA | 94025 94305 94303 | 494 8868 |
|--|-------------------------------------|--|--|--|--|
| Alexander, Mike Anderson, Andrew J. Arnold, John L. Arcularius, H. Robert | KA6CRU K6EHS WA6YSY WA6ION | 355 Barton Wy. 735 Mayview Av. 550 Morse Av. 640 Fairmede AV. | Menlo Park, CA Palo Alto, CA Sunnyvale, CA Palo Alto, CA | 94025 943 03 94086 94306 | 324 9246 494 0831 493 0797 |
| Bartelme, John P. Baum, Douglas A. Baum, Robert A. | WA6AMC KA6DQR W6BFH | 1025 San Mateo Dr. P.O. Box 993 1043 Del Norte Av. | Menlo Park, CA Galveston, TX Menlo Park, CA | 94025 77553 94025 | 325 0497 |
| Brodie, D. H. Buonccore, John J. Burke, Thomas E. Cady, Henry G. | W6PGQ KA6CUG WA6KVT W6PSY | 315 Cotton St. 112 Oakwood Dr. 1101 5th Av. P. O. Box 883 | Menlo Park, CA Redwood City, CA Redwood City, CA Clearlake Highlands,CA | 94025 94061 94063 95422 | 323 0353 366 1658 368 7748 |
| Callander, George Camp, Edwin K. Canham, Fred F. | wa6szx k6yt | 51 Primrose Wy. 1161 Cloud Av. 691 Casita Wy, | Palo Alto, CA Menlo Park, CA Los Altos, CA | 94303 94025 94022 | 856 1752 854 5640 948 9238 |
| Chan, Loren B. Cary, Charles E. Chandler, Frank Churchill, Paul K. | WA6ENC KA6CZN WB6QPV W6QBY | 6182 Ocho Rios Dr. 940 Arbor Rd. Apt. C 1040 Menlo Oaks Dr. 3706 Pac. Cst Hy. | San Jose, CA Menlo Park, CA Menlo Park, CA Ventura, CA | 95132 94025 94025 93001 | 629 1852 323 6401 322 7678 643 6760 |
| Clark, Ed Collins, H. R. (Dick) Conboy, Terry | w6kJI k6ann n6ry | 3657 Oak Knoll Dr. 1921 Birch Av. 1231 Crestview Dr. | Redwood City, CA San Carlos, CA San Carlos, CA | 94062 94070 94070 | 366 1817 593 8952 592 8750 |
| Crocker, Earl W. Croft, William Daniel, Dave DeLiban, Robert | W6VYC WD9ADG KB6WP W6FGL | 224 Selby In. 20 Coleman AV, Apt 20 240 University Dr. 1015 Lemon St. | Atherton, CA Menlo Park, CA Menlo Park, CA Menlo Park, CA | 94025 94025 94025 94025 | 366 2790 325 3347 322 6906 |
| Dikum, Gerald Dorrance, David Doster, Landry G. | WD6CVW WA6YSO K6MPN | 1023 Menlo Oaks Dr. 750 Coleman Av. Apt. 8 966 Glennan Dr. | Menlo Park, CA Menlo Park, CA Redwood City, CA | 94025 94025 94061 | 322 8300 321 6808 368 8156 |
| Dwight, Kenneth W. Edberg, Eric B. Edgerton, Millard J. Edson, Willard | WA6NYB W6DU WA6VZZ | 2371 Carmel Dr. 461 Heather Ct. 49 Showers Dr. 2165 Carmelita Dr. | Palo Alto, CA Los Altos, CA Mountain View, CA San Carlos, CA | 94303 94022 94040 94070 | 856 0727 948 1748 965 6433 |
| Elge, Al Fairbanks, Edmund U. Famulener, Keith | AG6D W6AIN WB6GYT | 1710-A Marshall Ct. 1049 Sonoma Av. 2380 Waverly St. | Los Altos, CA Menlo Park, CA Palo Alto, CA | 94022 94025 94301 | 969 1083 322 0319 326 8673 |
| Ferranti, Richard L. Finkbeiner, Dick Fraher, John Frye, William | wa6ncx w6aql ka6frk | 215 Herrick Rd. 267 Bonny St. 23000 Cristo Rey Dr. 536 Lincoln Av. | Newton Center, MA Mountain View, CA Los Altos, CA Palo Alto, CA | 02159 94043 94022 94301 | 961 6655 967 3822 326 2610 |
| Gallagher, Robert J. Godwin, Myron R. Harper, David | KA6IRT WB6JFH | 1378 Ensenada Wy. 720 Coleman Av. 1244 The Alameda | Los Altos, CA Menlo Park, CA Redwood City, CA | 94022 94025 94061 | 968 0847 322 1737 366 9672 |
| Harper, Walter Hartwell, James W. Hausafus, Edward T. Hill, Robert | K7UDG WA6FSQ W1ARR | 1244 The Alameda 1777 Woodland Av. #38 67 Encina Av. 1621 Redwood Av. | Redwood City, CA Palo Alto, CA Atherton, CA Redwood City, CA | 94061 94025 94061 | 366 9672 325 8309 366 5640 367 9388 |
| Hinton, Peter D. Hogsett, Gerald R. Hogsett, Jerry | WD6CVP W6PPK KA6FYW | 33 Maple 211 Hedge Rd. 1446 Wildrose Wy | Atherton, CA Menlo Park, CA Mountain View, CA | 94025 94025 94043 | 967 1650 |

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|--|--|--|--|--|--|
| ornback, John | KAGHEB KAGFYX KGWD | 1474 Marlbarough Av. 1474 Marlbarough Av. 209 Blackburn Av. | Los Altos, CA Los Altos, CA Menlo Park, CA | 94022 94022 94025 | 961 1991 325 8900 |
| enkins, Bill enson, Alan S. | K6CMT WB6LML W6UVP W6AAQ | 855 Sommerset Ct. 2360 St. Francis 2312 Santa Anna 809 Capay St. | San Carlos, CA Palo Alto, CA Palo Alto, CA Esparta, CA | 94070 94303 94303 | 593 0661 324 8589 856 6274 |
| itz, Nolan | WD6BGV KB6LT N6CHI | 165 Stonepine In. 1030 Silverhill Rd. 875 Sunset Dr. | Menlo Park, CA Redwood City, CA San Carlos, CA | 94025 94061 94070 | 366 7286 595 0258 |
| orsak, Andrew J. rawetz, Bruce | VE3FZK N6AOZ N6HM | P.O. Box 3694, Dept PAAR 504 Lakemead Wy. 654 Barnsley Wy. 654 Barnsley Wy. | Stanford, CA Redwood City, CA Sunnyvale, CA Sunnyvale, CA | 94305 94062 94087 94087 | 366 5228 739 7936 |
| ird, Richard J. | WA6FHC WA6BQY WA6UIM | 1096 Connecticut Dr. 3927 Louis Rd. P.O. Box 752 | Redwood City, CA Palo Alto, CA Menlo Park, CA | 94061 94303 94025 | 364 2654 493 4315 321 1225 |
| zier, John K. D. ljegren, Gary | WA6AZP W6HBT WØSH WB6RAF | 700 Arbor Rd. #3 950 Blair Ct. P.O. Box 73 154 Wayside Rd. | Menlo Park, CA Palo Alto, CA Des Moins, IA Portola Valley, CA | 94025 94303 50301 94025 | 326 6430 326 0594 277 1111 851 7473 |
| n, David | K6TNY N6WN N1AF N | 154 Wayside Rd. 892 Mango Av. P.O. Box 1026 | Portola Valley, CA Sunnyvale, CA Mountain View, CA | 94025 94087 | 851 7473 854 5426 |
| gnuski, Hank ger, Robert F. | ngyv Kagm Wagdvi Mguce | 651 Teredo Dr. 311 Stanford Av. 13245 Rhoda Dr. 3283 Kipling St. | Redwood City, CA Menlo Park, CA Los Altos Hills, CA Palo Alto, CA | 94065 94025 94022 94306 | 941 2218 493 9046 |
| Ennerney, Jack | w6lii w6JTH | 666 Tennyson Av. 73 Ensenada Rd. 5943 Tompkins Dr. | Palo Alto, CA San Carlos, CA San Jose, CA | 94301 94070 95129 | 325 9808 591 8526 |
| Reynolds, Leslie N. ceijowski, Antoni | KE6S WB6RNO WA6KJJ W6DEF | 3833 Park Blvd. Apt. 12 12051 Moody Springs Ct. 734 Ashbourne Dr. 12685 Manor Way | Palo Alto, CA Los Altos Hills, CA Sunnyvale, CA Auburn, CA | 94306 94022 94087 95603 | 493 2258 948 2777 739 1145 |
| ss, George E. | WA6SOI W6AZS)KB6RZ | 748 San Jude Av. 4049 Middlefield Rd. 786 Allen Ct. | Palo Alto, CA Palo Alto, CA Palo Alto, CA | 94306 94303 94303 | 493 9251 |
| cholson, Carl Jr. xon, George | KA6EKG GI30EN K6URO | 327 D St. 1167 Walnut 168 Kellogg Av. 3328 Kenneth Dr. | Redwood City, CA San Carlos, CA Palo Alto, CA Palo Alto, CA | 94063 94070 94301 94303 | 369 4007 592 5287 326 9438 494 7038 |
| smussen, Erwin A. | K6RU W6YPM W6ASH | 570 La Mesa Dr. 164 Lowell St. 10371 Berkshire Dr. | Ladera, CA Redwood City, CA Los Altos, CA | 94025 94062 94022 | 854 3055 368 2558 948 6753 |
| oche', Curtis H. | W6QXP K6AL WB6000 WD6AAS | 2140 Bryant St. 3890 Louis Rd. 1340 Hillview Dr. 461 Myrtle St. | Palo Alto, CA Palo Alto, CA Menlo Park, CA Redwood City, CA | 94303 94303 94025 94062 | 327 0690 49 4 2643 323 2666 365 3199 |
| van, Ralph B. | W6TFT WB6NNL WB6WBK | 2505 Hopkins Av. 1021 Stanley Wy. 311 Oakwood Pl. | Redwood City, CA Palo Alto, CA Menlo Park, CA | 94062 94303 94025 | 365 4258 323 7362 324 4591 |
| | K6JBR WA6ECQ | 411-B 5th Av. 4180 Wallis Ct. | Redwood City, CA Palo Alto, CA | 94063 94306 | 365 4068 |
| | ormback, Huntley ormback, John otz, Preston E. ee, George E. enkins, Bill enson, Alan S. chnson, Don enthack, Kurt H. etz, Nolan enthack, Kurt H. etz, Nolan enthack, Charles R. orsak, Andrew J. ersak, Andrew J. ersak, Enuce enwetz, Bruce enwetz, Howard M. etric, Richard J. ersieu, Barry J. erson, R. Alan ezier, John K. D. eljegren, Gary ele, Irene ele, Shannon en, David eckhart, Robert J. etxia, Jock egnuski, Hank egr, Robert F. ertin, Hank etihinney, W.G. (Bill) ethinermey, Jack etwin designing in the enthalty extra pavid extra | criback, John botz, Preston E. de, George E. chkins, Bill choson, Alan S. chhoson, Don chthack, Kurt H. ches, William R. Jr. ches, Charles R. ches, Andrew J. ches, Charles R. ches, Andrew J. ches, Bruce chewetz, Howard M. ches, Richard J. ches, Rainon chird, Richard J. ches, Shannon ches, David ches, Shannon ches, Shannon ches, David ches, Shannon ches, David ches, Cary ches, Chris ches, Ches, Ches ches, John F. Jr. ches, Cary ches, Cary ches, Chris ches, Ches cherf, Thomas ches, Chris ches, Cary ches | Amback, John Atz, Preston E. Ref George E. Mikins, Bill Meson, Alan S. Missen, Alan S. Missen, William R. Jr. Missen, Wil | Extraction of the control of the con | Normback, John |

| Schrauwen, Adrianus | KA6ATG | 3155 Stockton Pl. | Palo Alto, CA Belmont CA San Mateo, CA Palo Alto, CA Palo Alto, CA Palo Alto, CA | 94303 | 494 6256 |
|---|---------------------------|---|--|----------------------------------|--|
| Schumacher, Leonard J. | WA6HLE | 902 Avon | | 94002 | 591 4385 |
| Sherrod, H. C. (Clay) | K5OSQ | 1475 Woodberry Av. | | 94403 | 349 1876 |
| Shore, J. Neville, Sr. | K6OYN | 4272 Suzanne Dr. | | 94306 | 493 6926 |
| Shore, J. Neville, Jr. | WB6LVP | 4272 Suzanne Dr. | | 94306 | 493 6926 |
| Simpson, Richard A. | W6JTH | 3326 Kipling | | 94306 | 494 9272 |
| Smith, Dan | KA6TXE | 2001 Valparaiso Av. | Menlo Park, CA | 94025 | 325 9995 |
| Stainback, Albert W. | WA6GVP | 805 Evergreen St. | Menlo Park, CA | 94025 | 322 6384 |
| Starkey, Jerry | WA6LIJ | 736 Filip Rd. | Los Altos, CA | 94022 | 964 6584 |
| Stein, Seymore (Sy) | WAGROM | 13080 Lorene Ct. | Mountain View, CA | 94040 | 967 0362 |
| Stiles, Robert | WAGMIV | 60 Queens Ct. | Atherton, CA | 94025 | 325 5022 |
| Streib, Fred | WGNA | 736 Garland Dr. | Palo Alto, CA | 94303 | 326 7846 |
| Stuntz, Stephen E. | KGFS | 164 Oak Ct. | Menlo Park, CA | 94025 | 322 4952 |
| Sue, Jeffrey | WA6SLF | 1016 Middle Av. Apt. 1 | Menlo Park, CA | 94025 | 321 7750 |
| Swenson, Lloyd L. | N6CHL | 73 Adam Wy. | Atherton, CA | 94025 | 368 8503 |
| Talbert, Elmer | W6PFC | 2414 Read Av. | Belmont, CA | 94002 | 593 7320 |
| Tallmon, W. B. Taylor, Rob Tennissen, Thomas Thekan, Paul | W6DVB KH6DZB WA6IJP | 355 Santa Margarita Av. 925 Waverly St (101) 23000 Cristo Rey Dr. 335 Rutherford Av. | Menlo Park, CA Palo Alto, CA Los Altos, CA Redwood City, CA | 94025 94301 94022 94061 | 326 0112 321 5089 967 3822 369 4034 |
| Tiffany, Willard D. | w6gnx | 880 Coleman Av. | Menlo Park, CA | 94025 | 324 4524 |
| Topp, Don | w6cfz | 1092 Metro Circle | Palo Alto, CA | 94303 | 858 0225 |
| Troster, John G. | w6isq | 82 Belbrook Wy. | Atherton, CA | 94025 | 854 3939 |
| Tucker, Gerald H. Vanover, James F. Vercelli, John Vickery, Leslie | WAGLNV KAGEWX WGAKR | 1112 Ramona St. 3801 Miranda Av. M.P.D. 18920 McFarland Av. 980 Third St. | Palo Alto, CA Palo Alto, CA Saratoga, CA Redwood City, CA | 94301 94304 95070 94063 | 326 4908 368 5175 |
| Vosper, Larry | KA6DZM | P.O. Box 8398, SF Arpt. | San Francisco, CA | 94128 | 349 9374 |
| Wagstaffe, Gerard | W6NIR | 4 Robert S Dr. | Menlo Park, CA | 94025 | 325 4670 |
| Wallace, Robert E. | K6OL | 240 Cervantes Rd. | Portola Valley, CA | 94025 | 851 0249 |
| Wardlow, Vance | w6fle | 1260 Bellair Wy. | Menlo Park, CA Palo Alto, CA Los Altos, CA Atherton, CA | 94025 | 854 0803 |
| Wheeler, Robert | k6sem | 868 Elbridge Wy. | | 94303 | 494 6549 |
| Wickman, Fred | wa6bch | P.O. Box 703 | | 94022 | 948 2734 |
| Wilder, Ha Kenneth | k6rb | 58 Catalpa Dr. | | 94025 | 323 9953 |
| Wortman, Leon | W6KTP | 743 Holly Oak Dr. | Palo Alto, CA | 94303 | 494 2613 |
| Yelton, Perry | N6COH | 3401 E. Bayshore Rd. | Redwood City, CA | 94063 | 366 7880 |
| Zaner, Bill | WB6TYS | 885 Sharon Ct. | Palo Alto, CA | 94301 | 328 2677 |
| Zobel, Jerome F. | W6ARA | 877 Northampton Dr. | Palo Alto, CA | 94303 | 322 0063 |

| - 10 |) — | | | | |
|-----------------------------|--|----------------------------|---|--------------------------------|---|
| W6AAQ WD6AAS WD9ADG | Don Johnson Steve Runyon Bill Croft | KA6GRU WB6GVP WB6GYT | Mike Alexander Maurice Lambert Keith Famulener | KB6RZ KE6S K6SEM WØSH | Ray Nelson Mike McNamee Bob Wheeler |
| W6AIN W6AKR K6AL | Ed Fairbanks Les Vickery Curt Roche | M6HBJ KA6HEB WA6HLE | John Lazier Huntley Hornback Leonard Schumacher | WA6SLF WA6SOI | Gary Liljegren Jeffrey Sue Bob Morton |
| k6ann wa6amc n6aoz | Dick Collins John Bartleme Bruce Krawetz | N6HM WB6HWZ WA6IJP | Howard Drawetz Willard Griffith Paul Thekan | wb6stw wa6szx w6tft | Dan Curry George Callander Al Russell |
| W6AQL W6ARA W1ARR | Dick Finkbeiner Jerry Zobel Bob Hill | WA6ION KA6IRT W6ISQ | Richard Arcularius Bob Gallagher John Troster | K6TNY W6UCE K7UDG | Shannon Lile Hank Martin Jim Hartwell |
| w6ash w6azp w6azs | Walt Read Alan Larson George Moss | KA6IXE WB6IYS K6JBR | Dan Smith Bill Zaner Tom Scherf | K6URO W6UVP W6VYC | Wallace Porter Alan Jenson Earl Crocker |
| WA6BCH WB6BCV W6BFH | Fred Wickman Ken Allen Bob Baum | wb6jfh w6jhu w6jth | Dave Harper Dave McGuire Richard Simpson | WA6VZZ WB6WBK K6WD | Millard Edgerton Chris Schellenberg Pres Hotz |
| WA6BQY WD6BGV W6CFZ | Dick Laird Kurt Kanthack Don Topp | w6kji w6ktp wa6kvt | Ed Clark Leon Wartman Tom Burke | n6wn KB6wf WA7wxa | David Lin Dave Daniel Liza Aguilar |
| N6CHD N6CHI N6CHL | Perry Yelton Bill King Swede Swenson | W6LII WA6LIJ WB6LML | Jack McEnnerney Gerry Starkey Bill Jenkins | W6YPM WA6YSY WA6YSO | Erv Rasmussen John Arnold David Dorrance |
| KA6CMT KA6CUG WD6CVP | George Ice John Buonocore Peter Hinton | WA6LNV KB6LT K6LVJ | Gerry Tucker Nolan Katz Gary Perazzo | K6YT N6YV | Fred Canham Jock MacKaig Ed Camp |
| WD6CVW KA6CZN AG6D | Gerald Dikum Charles Cary Al Elge | WB6LVP KA6M WA6MIV | Neville Shore Hank Magnuski Bob Stiles | | Willard Edson Bill Frye Tad Godwin |
| w6def ka5dqr w6du | Hal Moore Doug Baum Eric Edberg | K6MPN WA6NCX W6NIR | Dusty Doster Rick Ferranti Gerry Wagstaffe | | Walt Harper Karl Jogie Charles Kirkley |
| W6DVB WA6DVI KH6DZB | Bill Tallmon Bob Mager Tom Tennissen | WB6NNL WA6NYB GI30EN | Ralph Ryan Ken Dwight George Nixon | | Sandy Large Bill McElhinney Rob Taylor |
| KA6DZM WA6ECQ K6EHS | Larry Vosper Gregg Schlaman Andy Anderson | WB6000 WA60PA | Bob Wallace Gene Root Gerry Laxon | | Jim Vanover |
| KA6EKG K6EM WA6ENC | Carl Nicholson Roy Wardell Loren Chan | K50SQ K60YN W6PGQ | Clay Sherrod Neville Shore David Brodie | | |
| KA6EWX W6FGL WA6FHC | John Vercelli Rob De Liban Kevin Lapp | w6ppk w6psy wb6qpv | Gerry Hoggsett Henry Cody Frank Chandler | | |
| W6FLE KA6FRK K6FS | Vance Wardlow John Fraher Steve Stuntz | w6qby w6qxp wb6raf | Paul Churchill John Roberts Irene Lile | | |
| WA6FSQ KA6FYW KA6FYX: | Ed Hausafus Gerald Hogsett Huntly Hornback | K6RB WB6RNO WA6ROM | Ken Wilder Les McReynolds Sy Stein | | |
| VE3FZK W6GNX WA6GVP | Andy Korsak Tif Tiffany Al Stainback | k6ru w6rvs n6ry | Cam Pierce Dick Adachi Terry Conboy | | |

keep complete records of all their minutes and acts, and to present a full statement at the regular annual meeting of the members, showing in detail the assets and liabilities of the corporation and generally the condition of its affairs.

Article VI. Duties of the President.
It shall be the duty of the President to preside at all meetings of the corporation and to preside at all meetings of the Board of Directors. It shall be the further duty of the President to make all committee appointments.

Article VII. Duties of the Vice-President. It shall be the duty of the Vice-President to perform all the duties of the President during his absence.

Article VIII. Duties of the Secretary. It shall be the duty of the Secretary to receive all communications that may be addressed to the club and to keep a full report of the proceedings of each meeting. He shall read all communications upon request of the President.

The Secretary shall also promptly deliver all books, papers, or other property of the corporation to his successor in office, or whomsoever the club may appoint.

He shall maintain a book listing all members of the organization.

He shall perform such other duties as may be required of him by the club or by his office.

Article IX. Duties of the Treasurer.
It shall be the duty of the Treasurer to receive all dues and monies belonging to

the club and pay all orders drawn on him by a majority vote of the members of the club present at a regular meeting, or at a time intervening between meetings when ordered by the Board of Directors and signed by the President.

The treasurer shall make a complete report on all monies received and disbursed at the meeting immediately following termination of a quarter, namely 31 March, 30 June, 30 September and 31 December.

He shall perform such other duties as may be required of him by the club or his office.

Article X.

The By-Laws of the corporation may be ammended by a three-fourths vote of the membership after due notice as provided herein. Proposals for ammendment shall be submitted in writing at a regular meeting of the corporation and may not be voted upon until the next regular meeting.

Motion to amend the By-Laws of the corporation made at any regular meeting shall be mailed to each member at least fifteen days prior to the next regular meeting, at which time a vote will be taken. Votes of absentee members may be exercised by written proxy.

Article XI.

In any question coming before a meeting for which no provision has been made in the articles of incorporation and by-laws, the officer presiding over the meeting shall be governed by "Roberts Rules of Order".

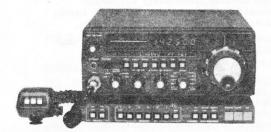


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maintaining the station lagged. When W6DEF moved to Auburn in 1975, Loren Chan, WA6ENC, who then was living in Redwood City, agreed to assume the responsibility of station trustee. For the last five years, K60TR has remained on the air and has been active on 2 Meters, on AM from 1975 to 1978, and on FM from 1979 to date.

Now that K60TR is no longer affiliated with the Red Cross, its original reason for being is no more. The station's license will expire in September 1980. It will not be renewed. All that remains to remind us of the 25 year existence of K60TR is the trusty 2 Meter ground plane that still sits atop the Red Cross building. Use of the antenna and location for emergency communications by radio amateurs will still be possible through prior arrangement with Red Cross Officials.

K60TR's three Gonset IIs, one Gonset III, and one Gonset IV were all transferred on February 18, 1980 to WB6WBK, K7UDG and PAARA Explorer Post 599 for their 2 Meter AM network. Another generation of new hams will be using the station's equipment to gain some on-the-air experience behind the microphone. Loren, WA6ENC

8 8 8 8 8 8

!! COME ONE--COME ALL !!

Announcing our 2nd PAARA picnic! Mark the day on your calendar--Sunday April 20th at 10 a.m. or after. The place will be beautiful Huddart Park northwest of Woodside on Kings Mountain Road. Our picnic site will be Mewok Shelter.

The club will provide soft drinks, beer, coffee and charcoal for the fire. There will also be door prizes.

Admission to the park is \$2.00 per car. There are signs directing you to the picnic site and someone will be listening on the club frequency if you need assistance.

Jock, N6YV Picnic Chairman

FROM CRYSTAL TO CRYSTAL

"Have you got a uniform?" asked the Marine Radio Manager. "Yes," I replied. "All right. You can have the job as 3rd on the Sierra."

What a day! Graduated from high school in the morning, got a job as a seagoing radio operator in the afternoon. I didn't have a uniform or any money to buy one, and I didn't know anything about the Sierra. After I wheedled my grandfather into paying for my uniforms as a graduation present, Joe Harris, Outfitter to Seamen on San Francisco waterfront, fitted them to me. And I learned that the Sierra, apassenger liner of Oceanic Steamship Co., ran to Australia via Honolulu and Pago Pago.

We sailed July 8, 1924

My commercial ticket was only three months old, but my Amateur license had been obtained four years before. My first receiver was a galena crystal, cat whisker detector and "loose coupler" tuner. Transmitter was a Murdoch ½ KW transformer and a rotary spark gap, which continually knocked the crystal out of adjustment during transmission.

The apparatus on the Sierra, WHJ, was an SE 143 receiver, ½ KW quenched spark set and a 2 KW Poulsen arc. The arc operated in an atmosphere of alcohol vapor, alcohol being drop fed during operation by a needle valve actuated by a solenoid on "Transmit". We had trouble with the valve, so we started and stopped the alcohol feed by hand.

We were three days out before I got any messages to send on my watch, then I got two. I called San Francisco, KFS. This was a momentous occasion, my first commercial traffic handling. KFS told me to wait. In my excitement I forgot to turn off the alcohol feed. Time passed. KFS called me. I struck the arc. The explosion was muffled, but ample. The heavy, hinged upper part of the arc chamber rose two

inches, pieces of gasket flew out in all directions and a cloud of evil smelling smoke filled the shack. So much for my traffic handling. The rest of the watch was spent putting things back together again, while KFS called me in vain.

After the Sierra there were other ships. including the S.S. Harvard, Colombia, H.F. Alexander and President Lincoln. The "H.F." was abeautiful liner, long and narrow, built to beat train time between San Francisco and Seattle. She could act up a bit going north when the wind and sea were going south, a circumstance which did not make life more pleasant while sitting in a chair during a long early morning watch. However, she carried a large number of passengers, so the considerable amount of traffic we had to handle helped keep our minds away from our stomachs. I received my first and only SOS on the "H.F." Going south we were far offshore opposite the mouth of the Columbia River when I heard a very loud distress signal. It was sent from the S.S. Laurel, an intercoastal freighter. Crossin the Columbia River bar, outbound she lost power and began drifting toward the beach. The USCG cutter Redwing went to her assistance, but was unable to get a line aboard, and the Laurel went on the beach. Eventually she broke in two, a total loss.

I signed off my last ship, the President Lincoln, in 1929. Thereafter the time demanded by my new activities did not leave any for ham radio. Over the years I was aware of the tremendous changes in radio communication. I knew the crystal detector, arc and spark were gone, followed by the rise and fall of tubes and the development of solid state.

After retirement three years ago I prepared to get back into amateur radio. I studied for the General examination, because I felt I could not be a novice again. When the young lady in the FCC examination room told me I had passed, I thought of my first license in 1920. Novice to General in 56 years. As I started to leave, the

young lady called, "Just a moment.
I notice you do not have a Novice
license. The New regulations require
that you have a Novice before you can
be a General."

"Okay," I said. "Can I take it now?"
"Don't you want to study a little
more first?" she a *ked. If you
fail the Novice you won't get the
General." "I like to live dangerously. I'll try it now." When I
turned in my examination the young
lady smiled. "You passed the
Novice," she said. "So now you
have the General."

As I walked out I thought how the time element had changed. This time I had gone from Novice to General in less than a minute.

Only when I joined PAARA net didI I realize that everything, and nothing, had changed. I had come full circle. On 147.45 I was still operating a crystal.

Jerry Zobel, W6ARA

FOR SALE:

HAMCO Iambic paddle, "The Scotia" Model. Like new. Only 6 months old. Never operated above 25 wpm. Surplus because xyl gave me something like it for my birthday. W6KTP (Leon) Palo Alto. Call 494-2613 Asking \$30

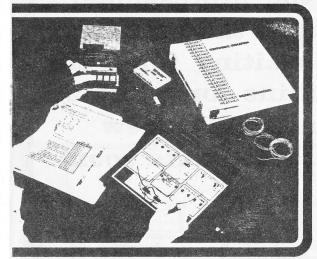
Hi-Gain Tribander beam, model TH3 Mark 3 \$95.00 with balum TR44 CDE rotor make offer Eric W6DU phone: 948-1748

SB 220 Heathkit Linear with 10 meter band \$470.00 Tiff W6GMX phone: 324-4524 WANTED:

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Need BC-659 Xcsvr and vibrator supply. Also need shockmount FT-250 and whip antenna AN-29. Am interested in purchasing any WWII or newer surplus vehicular radios and antennas. Please call Paul, WA6IJP 369-4034

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- Name the major components used in implementing digital circuits and explain how they operate.
- 5. Understand the operation of digital logic gates.
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- 8. Understand the operation of flip-flops.
- Understand the operation and application of binary and BCD counters, shift registers and other sequential logic circuits.
- Name the most frequently used combinational logic circuits and explain their operation.
- Design both combinational and sequential logic circuits for a given application from definition and concept to the selection of the integrated circuits.
- Understand the operation and application of digital counters in time and frequency measurements.
- 13. Understand how a digital computer is organized and how it operates.
- Understand microprocessors, explain their operation and give examples of their applications.

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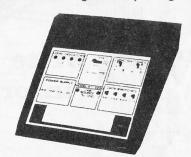
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of today's commonly-used integrated circuit logic families including: RTL; DTL; TTL; CMOS; ECL; NMOS; PMOS; Linear. For 120/ 240 VAC. 60/50 Hz.

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