

Greg Cowles KE6FXK 252 Hutchins Ave Phone: 829-1583 Sebastopol CA 95472 Noncommercial ham ads printed free. Please call when item is sold. Ads run 2 months.

QST BINDERS, pre-1976 size, 3 for \$10. HAM RADIO BINDERS, post-1976 size, 2/\$10. HP2645A terminal, good for packet. Clean, with manuals and cables. \$25 delivered. RCA PERSONALFONE 450 MHz crystal-control HT's, condition unknown, w/manual, 2 for \$5. AEA ISOLOOP, original 14-30 MHz version, control box, manual, 50 ft cable plus 50 ft extension cable \$175. Al N1AL 538-7115.

2M 4ELEMENT BEAM \$40.00. Bob WA6YTW 938-2033.

YAESU FT-470 dual band HT, 2M & 440MHz, ICOM 735, and CUSHCRAFT R5 ant. All three items like new. Make offer!!!! KC6WTE Gary 575-9119.

232 MBX TNC. Sale or trade for an HT. KD6WIS Jim 584-3423.

HEATHKIT SB200 HF amp, new tubes \$300. MOBILE PWR SUPPLY for HW101 xcvr \$35. AMERITRON RSC-4 4-pos. ant. switch \$90. HYGAIN BEAM 10/15/20M. \$100.00. CODE TAPES By Jerry Ziliak. \$16.00. WB6NOV Ken 792-2634.

UNIDEN HR2600 10m mobile. \$125.00. HYGAIN BEAM 10/15/20M \$100 WD6EVL Gary 823-9324.

KENWOOD 922A KW amplifier \$1100. HEATHKIT SB220 KW amplifier \$350. ATLAS 210X mobile all band HF radio \$150. MOBILE ALL BAND HF ANT \$100. K6UKB Joe 526-7731.

YAESU FT101EX HF transceiver, 40M only need crystals for others. \$200.00. YAESU 757GX2 HF transceiver, has been modified \$700. KO6AP Mark 544-4267.

HEATHKIT HB101 w/manual make offer!!!!!! KQ4YS Bob 765-9550.

(Continued page 11)

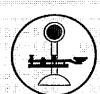
PLEASE DO NOT DELAY DATED MATERIAL:

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SHORT SKIP



Sonoma County Radio Amateurs, Inc.

Club Station

OCTOBER 1994 W6LFJ

P.O. Box 116 Santa Rosa, CA 95402

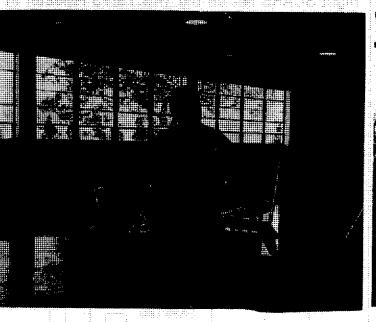
Repeater Station WB6PVS

VOL 19 #10



1994 Rumor has it that our illustrious honest-as-the-day-is-long Treasu vacationing in Rio this year...... honest-as-the-day-is-long Treasurer is vacationing in Rio this year......







Photos tnx Kathy KC6UXJ

OCTOBER 1994

OFFICERS FOR 1994 ----PRESIDENT: Merlyn Pfeiff N6VUC 584-3898 Kelly Cureton KD6CJQ 837-9434 VICE PRESIDENT: Alan Bloom 538-7115 SECRETARY: N1AL Mike Michlig 526-9655 KN6JQ TREASURER: Kathy Mahan KC6UXJ 823-4980 MEMBERS-AT-LARGE: Marie Mappus KI6QY 664-1978 REPEATER CHAIRMAN: Jim Rutherford 526-2972 WB6PER ACTIVITIES CHAIR: KD6LYU Mike Knope 762-3236 ----- SHORT SKIP STAFF:

N1AL (e) 538-7115 Alan Bloom 1578 Los Alamos Rd, Santa Rosa, CA 95409 (d) 577-3981

CIRCULATION MGR: KD6LSÙ June Linnehan SWAP SHOP EDITOR: Greg Cowles KE6FXK 829-1583

BBS EDITORS: Pete Sourek KC6UXM, and Allan Chapman W6MEO AUDIO TAPING: John Breckenridge WB6FRZ, Laurel Meyer KC6FKX, Bob PhillipsN6RMW

SONOMA COUNTY RADIO AMATEURS, INC.

Activities Committee:

Pub. Service: Maris Mappus KI6QY 664-1978 Pub. Relatns: SteveCarnigliaKK6VY 579-9608 QSL Mgr: Fred Leoni N6YEU 431-8202 N1AL 538-7115 TVI/RFI: Al Bloom KM6TN 578-5824 Antennas: Joe Senft

John KM6LI, Shep NH6ZY, N1AL Steve Lund WA8LLY 823-4544 Awards: VEC Exams: Dave New AA6YX 829-6608

> N1AL WX3K WW6D WB6FRZ N6GHG AB6OL K6UXO AA6UY KC7VS KK6VY KK6XT WA8LLY

John WX3K and Jim KC6PJW

EDITOR:

Steve Carniglia KK6VY 579-9608 Education: N1AL WB6FRZ KC6RHA KK6VY

WB6TMY K6XZ K6ZWB KC7VS Refreshmnts at meetings: Bob Olsten WD6DPE Dave Willey KD6KWM Raffle at meetings: Jim Andrews KC6PJW Membership lottery: RACES RO: Jim Pelmulder N6PTM 823-7947 ARRL Liaison: Alan Bloom N1AL 538-7115 Badge Chair: Fred Leoni N6YEU 431-8202

Repeater Control Op's:

Packet BBS:

WB6PER Jim 526-2972 N6PTM Jim 823-7947 WD6CKPHoppy 542-6750 N6VUC Merl 584-3898 KD6CJQ Kelly 837-9434

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Business cards: \$10

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Pre-printed inserts: \$32/sheet

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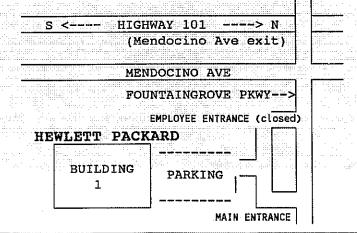
Club Meetings:
7:30 PM, 1st Wednesday each month at the Hewlett Packard plant in Santa Rosa. (See map below.) All are welcome.

Next Meeting: October 5, 1994

ARE YOU NOT AN SCRA MEMBER?

If so, then this is a complimentary copy. Our club is involved with almost every area of Amateur Radio: Repeaters (13/73), Field Day, license classes (Novice through Extra), volunteer exams, RACES, DX programs, packet radio, hidden xmtr hunts -- you name it.

We invite you to attend our next monthly meeting (see below) or check into the Tuesday night SCARS net on the 146.13/73 repeater at 7PM. You will hear the latest Amateur Radio Newsline broadcasts, announcements of SCRA activities and a Swap Shop. Membership in SCRA is open to anyone interested in Amateur Radio. If you would like to join, there is a membership application on page 11. Hope we can have an "eyeball" QSO with you at the next meeting! 73 ...



Hank's Swap Shop (Continued from page 12)

51/4" EXT. FLOPPY DISC DRIVE for Apple. Free to good home. N6RMW Bob 542-5209.

PALOMAR TUNER TUNER \$70 o.b.o. KE6FXK Greg 829-1583.

HEATH HW-101 10-80M \$250 o.b.o. HALLICRAFTERS 10-80M receiver \$50.00. 2M FOX-HUNT RECEIVER, home-made \$35. MFJ ANTENNA SWITCH, 4 position \$50. BAYCOM MODEM TNC packet, w/man & program \$40. Will take in trade a dual band HT for all 5 items. KD6TYL Lynn 584-3423

WANT: HYGAIN HIGH TOWER 18HT antenna. W6MZ Jack 526-6769.

WANT: HEATH SB-644 external VFO. KD6POC Adam 573-0277.

WANT: TNC, inexpensive, basic type. KE6FSK Jim 431-2439.

RENEW YOUR ARRL MEMBERSHIP THROUGH THE CLUB AND THE CLUB GETS TO KEEP \$2 (no expense to you). Make out your check to SCRA, and send it with your ARRL renewal form to SCRA, PO Box 116, Santa Rosa, CA 95402 or give it to the Treasurer.



MONTH 1990

AM I HITTING THE REPEATER ANY BETTER? I THINK I GOT A BETTER GROUND

Application for	Membership	in SCRA
-----------------	------------	---------

Name		Callsign	Lic. Class
Addr.		Phone Nr	() New Mbr
	ZIP	Date	() Renewal

Dues: \$12/year, \$18/year family. New members also pay a \$6/person initiation fee. Dues for new members only are pro-rated \$1 (\$1.50 family) per month, starting at renewal time, March 1.

I WOULD LIKE TO PARTICIPATE IN:

) } } }) }	Public Service Events RACES or ARES Emergency services Field day, other operating events Helping with SCRA Flea Market Acting as club Net Control Station Helping with Short Skip newsletter Taking a Novice class Teaching a Novice class
()	Taking an upgrade class
() - 15.	Teaching an upgrade class
()	Other

Badge (New Members only)

Fill in this section exactly as you want it to appear on your badge.

Callsign

First Name

City

SUNNYVALE, CA 94086 510 Lawrence Expwy. #102 (408) 736-9496 (800) 854-6046 Tom, KB6LUC, Mgr.

Lawrence Expwy.

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(393) 745-7373 (800) 444-9476

Joe, KDØGA, Mgr.

(602) 242-3515

(800) 444-9476

Gary, WB7SLY, Mgr.

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PHOENIX, AZ 85015

1702 W. Camelback Rd.

WOODBRIDGE, VA 22191

Washington D.C. area

(800) 444-4799

Curtis, W84KZL, Mor.

SALEM, NH 03079

Exit 161, I-95, So. to US 1

(703) 643-1063

14803 Boild America Dr.

Tigard-99W exit

ANAHEIM. CA 92801 933 N. Fiedlif St. 714) 533-7373 (800) 854-6046 Janet, WA7WMB, Mor. Vear Disneyland

OAKLAND, CA: 94606 2210 Livingston St. (510) 534-5757 (800) 854-6046 ich, WA9WYB, Mar. -880 at 23rd Ave. ramp

SAN DIEGO, CA 92123 5375 Kearny Villa Rd. (619) 560-4900 (800) 854-6046 Tom. KMSK. Mar. Hwy. 163 & laremont Mesa

ATLANTA, GA 30340 SUNNYVALE, CA 94086 6071 Buford Highway (404) 263-0700 510 Lawrence Expwy. #102 (800) 444-7927 (408) 736-9496 (800) 854-6046 Mark, KJ4VO, Mor. Tom KRALLIC Mar Doravitle 1 mi no. of I-285 Lawrence Expwy. So, from Hwy, 101

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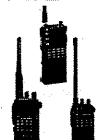
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by Kathy Mahan KC6UXJ

It's that time of the year again to send in those letters and make those phone calls to nominate your choice for "Member of the Year."

If you would like to nominate a person for Member of the Year, please write down the candidate's name and the reasons for nomination. Nominations may be mailed to the addresses below or nominations will be accepted by phone or FAX. Phil, WA6SEU will be the 2nd committee member. Phil and I will appoint a 3rd committee member who shall remain anonymous. The Member of the Year will be announced at the annual Christmas Party in December.

Suggestions for criteria to consider in making a nomination are: standards of operating ethics and practices, participation in club activities and amateur related achievements.

> Kathy Mahan KC6UXJ 540 Live Oak Ave. Sebastopol, CA 95472 EVES: 823-4980 or FAX: 433-0353

Phil Richardson WA6SEU 3613 Cypress Way Santa Rosa, CA 95405 527-8324 or FAX: 664-2505

Please don't hold back....if there is an amateur radio operator out there that you feel deserves this award, please do not hesitate to let us know! Nominations will not be accepted after November 15, so get those letters in or give us a call. I love to receive FAXES so don't be bashful. It's up to all of you now, so please take a few minutes and let us know your nomination.

New Members & **Corrections**



WALTER MARTIN POB 734 CLOVERDALE, CA 95425 894-3727

NIELS JENSEN NYØN 2734 WESTBERRY DR SANTA ROSA, CA 95403

JOHN ZANTEK WX3K 309 OREGON AVE #A PETALUMA, CA 94952

MARK FERNANDEZ KO6AP 2621 NEOTOMAS AVE SANTA ROSA, CA 95405 544-4267

SUZENNE CONNELLY KC6BSQ 5850 ANDERSON RD 887-7950

JOHN ROWBOTHAM KO6EF 1143 LOMBARDI LANE SANTA ROSA, CA 95407 526-5314

KURT IRMITER KA6EYN 1068 WREN DR PETALUMA, CA 94954 765-0191

JUDY IRMITER KE6JSM 1068 WREN DR PETALUMA, CA 94954 765-0191

CHRISTINE BUCHHOLZ KE6JSN 1116 ST HELENA AVE SANTA ROSA, CA 95404 526-3392

JOEL NADLER KJ6LF 609 BISHOP DR SANTA ROSA, CA 95405 545-1782

JAMES HAMILTON KE6LPO WB8ROD 1220 MC MINN #240 SANTA ROSA, CA 95407 527-5423

HOPPY HOPKINS K6MUP 3982 VINEHILL RD SEBASTOPOL, CA 95472 823-7182

MICHAEL MCGOWAN KC6NDS POB 1163 HEALDSBURG, CA 95448

NICK MARSHALL W6OLO 2207 PEACHLAND AVE SEBASTOPOL, CA 95472 823-5426

CARL MERNER ABERL 659 MONTCLAIR DR SANTA ROSA, CA 95409 538-5091

DON CONNELLY N6SRH 5850 ANDERSON RD FORRESTVILLE CA 95436 FORRESTVILLE CA 95436 887-7950

> ROSS COLLINS KD6VBV 1513 DEBRA DR PETALUMA, CA 94954

LARRY GUSTAFSON KD6VUM 549 IRWIN LN SANTA ROSA, CA 95403 523-0266

SAL CARUSO KC6WTO 3989 SHADOWHILL DR SANTA ROSA, CA 95404 539-4661

TONY KAMBY KD6WYH 1641 SAN MARINO PETALUMA, CA 94954 765-1581

ROBERT MOORE KD6ZYL 2114 WEATHERBY WAY PETALUMA, CA 94954 765-1960

ROBERT WILLOUGHBY 535 LOMBARD AVE SANTA ROSA, CA 95409 537-0834

We now have 287 members.

Exploring the ARRL BBS



by Bill Edmondson N6OUW

Recently, while perusing *QST* magazine I discovered the ARRL maintains a land-line bulletin board system (BBS) in the 203 area code. One morning I arose early to explore the League's BBS while the phone rates were reduced. At my age it's easier to get up early than it is to stay up late. The BBS runs Wildcat software and the logon and new user registration went smoothly.

The initial screen states the BBS is devoted entirely to amateur radio, and after reading through more than 700 files available for download, I believe it. There were files to satisfy just about any amateur radio desire.

Each file listed on the ARRL BBS has a brief on-line description and a listing of the number of times that file has been downloaded. One file that calculates dimensions of HF wire antennas had more than 1,000 downloads. Other files with high download counts were a TS440 control program that operates a TNC, a windows-based graphical representation of ham bands, and a search program for Part 97 of the FCC rules. Several study programs were available for hams desiring to upgrade to Advanced or Extra class. Most of the programs were PC based; however, I did see some programs for the Macintosh.

Another impressive feature of the ARRL BBS is the Tomcat/QWK mail door. This enables the user with an off-line mail reading program such as Blue Wave to download large message files quickly and easily for off-line reading. In my case I downloaded a 58K file of 200 messages in less than 3 minutes. Total time on the BBS for my first exploration was under 9 minutes.

The ARRL BBS has 5 lines. One line with a dedicated number is for uploads only. The other 4 lines use the same phone number. With 4 lines available, callers are significantly less likely to receive a busy signal. Each of the 5 lines is equipped with a Practical Peripherals 14,400 modem which works at any baud rate between 300 and 14,400 bps.

The ARRL BBS telephone number is 203-666-0578. Happy moderning! *Trux Willits ARC*

Board Meeting Minutes

August 10, 1994

The meeting was called to order by President Merle Pfieff N6VUC at 5:30 PM in the meeting room at the Northbay Savings Bank. Other officers present were Vice President Kelley Cureton KD6CJQ Treasurer Mike Michlig KN6JQ, Repeater Chairman Jim Rutherford WB6PER, Members-at-Large Marie Mappus KI6QY and Kathy Mahan KC6UXJ, and President Emeritus Rick Reiner K6ZWB. Also present were SCRA members Jim Pelmulder N6PTM, Ted DeCroff KB6PTA Hoppy Bravin WD6CKP, and Joe Senft KM6TN.

FLEA MARKET: Rick K6ZWB reported that four commercial booths have been reserved so far. Kathy KC6UXJ will be coordinating the food booth. Kelly KD6CJQ has obtained yellow caution tape to restrict parking on adjoining private property. The County RACES Trailer OES1 will be used for talk-in and promotion of participation in Emergency Services activities. Rick K6ZWB will obtain a mobile rig for the main door prize. Jim N6PTM reported the club is paying the same rental rate for the Holy Ghost Hall as last year (a saving of at least \$50) based on our past performance of clean-up.

PUBLIC SERVICE: Marie KI6QY says only six people had indicated an interest in attending the SCRAPS picnic so far. She may have to cancel. Marie reported a possible new event, the California Coast Cleanup, may require four or five people on the day of the Flea Market. The Waves To Wine will be on September 24, 25. Bill Splaine N6GHG and Marie KI6QY will co-chair.

PATCHES: Mike KN6JQ has sold 37 Patches so far.

Meeting adjourned at 6:15 PM. m/s K6ZWB/WB6PER Respectfully submitted by Jim Pelmulder N6PTM.

October is Pacificon'94 Month:

October 21 - 23 is the date for the Pacific Division Convention at the Concord Hilton. Ticket sales are going full blast. The programs are set with "something for everyone." Members of the Mount Diablo ARC and others, including the Director and Vice Director, have been visiting clubs throughout the Division with advance publicity and brochures all across California, and into Nevada and Hawaii to support the Convention. Don't miss this event! For additional details call the hotline at (510) 932-6125. Tnx K6WR

Jim Pelmulder N6PTM (707) 823-7947

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ARRL BOOKS:

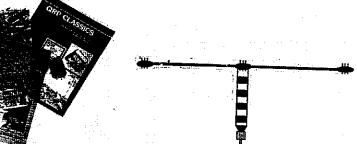
- ARRL Handbook
- License Manuals
- Antenna Books
- Etc...





- MFJ accessories
- Code keys
- Wire Antennas
- Surplus Electronics
- Tools, parts, Etc...



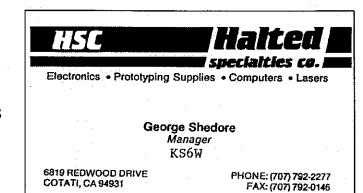


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SCARS NET: 146.73 MHz Tuesdays at 7 PM.

NEWHAM HOTLINE: 1-800-326-3942 **SCRA INFO HOTLINE:** (707) 579-9608 **VE EXAMS HOTLINES:** (408) 984-8353/255-9000

OCTOBER:

- 2 Livermore Flea Mart 510-447-3857
- 3 RACES etc. Net 7:30 PM
- 5 SCRA meeting 7/7:30 PM
- 7-9 Bakersfield hamfest, POB 473, 93302
- 15 Deadline for November Short Skip 15 - RACES/ARES training drill N6PTM
- 17 RACES etc. Net 7:30 PM
- 20 CDF/VIP Meeting 7:30 PM
- 21-23 Pacificon '94 Concord 510-932-6125
- 29-30 CQ Worldwide DX Contest, Phone

NOVEMBER:

- 2 SCRA meeting 7/7:30 PM
- 5-7 ARRL Sweepstakes, CW
- 7 RACES etc. Net, 7:30 PM
- 19 Deadline for December Short Skip
- 17 CDF/VIP Meeting 7:30 PM
- 19-21 ARRL Sweepstakes, Phone
- 21 RACES etc. Net, 7:30 PM
- 26-27 CQ Worldwide DX Contest, CW

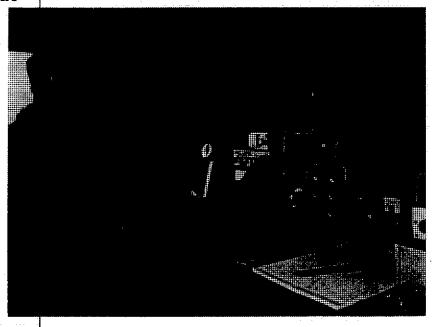
DECEMBER:

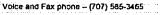
- 5 RACES etc. Net, 7:30 PM
- 7? SCRA Christmas party
- 10-11 ARRL 10 Meter Contest
 - 15 CDF/VIP Meeting 7:30 PM 17 - Deadline for January Short Skip
 - 19 RACES etc. Net, 7:30 PM
 - 31 ARRL Straight Key Night



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STEVE BASHAM

SCRA MINUTES

September 7, 1994

SHORT SKIP

Submitted by Secretary Al Bloom N1AL



The meeting was called to order by President Merl Pfeiff N6VUC at 7:32 PM. Other officers present were Secretary Al Bloom N1AL, Treasurer Mike Michlig KN6JQ, Activities Chairman Mike Knope KD6LYU and Member-at-Large Marie Mappus KI6QY.

VISITORS: We had 8 visitors to the meeting.

The TREASURER'S REPORT was approved as read. m/s N6RIF/KM6XU

REPEATER: N6PTM says Jim WB6PER has been looking for the funny courtesy tone that appears on weak signals.

PUBLIC SERVICE: Marie KI6QY reported on the busy public service month coming up.

EDUCATION: K6ZWB reminded everyone of the SCRA hotline. WA2EWE will be running a Novice/Technician class soon. N6VUD will be teaching a class also. We need to find a bigger classroom.

FLEA MARKET: Rick K6ZWB passed around a sign-up sheet for volunteers. We will have quite a few commercial booths this year. An ICOM 281 2 meter rig with 440 MHz receive capability will be raffled off.

FOX HUNT: Phil KC6BSI was the winner last year so he is the "fox" this year, with help from Rick K6ZWB. The chase starts at 10 AM from the Piner High School parking lot. KD6KWM suggested the next hunt be on a Sunday.

NOMINATIONS for next year's club officers are needed. Rick K6ZWB is Chairman of the Nominating Committee. Please contact Rick if interested.

CONSTITUTIONAL AMENDMENT: Jim N6PTM discussed his amendments to the Constitution and Bylaws, as printed in Short Skip last month. After much discussion, the changes passed unanimously.

PACIFICON '94 is again in Concord. John W6TLK says it should be a good one again this year.

Certain ARRL AWARDS can be certified by Steve WASLLY so you don't have to send your cards to Newington. Steve is qualified for WAS, 5BWAS, VUCC, and RCC.

PROGRAM: Battalion Chief Rod Pederson and Training Chief Kim Thompson of the California Dept. of Forestry gave a fine presentation and video on how to protect your home from wildland and other fires. The video is available for free at many video stores.

The RAFFLE was able run by Dave KD6KWM. Thanks to HSC, Ardco and KE6FSK for the prizes.

The one meeting that Kathy KC6UXJ missed was naturally the one that she would have won the MEMBERSHIP LOTTERY!

The meeting adjourned at 9:38 PM. m/s N6PTM/KB6UCM

Respectfully submitted by Al Bloom N1AL.

Board Meeting Minutes

September 14, 1994

The meeting was called to order by President Merle Pfieff N6VUC at 5:31 PM in the meeting room at the Northbay Savings Bank. Other officers present were Vice President Kelley Cureton KD6CJQ, Secretary Al Bloom N1AL, Treasurer Mike Michlig KN6JQ, Repeater Chairman Jim Rutherford WB6PER, Member-at-Large Kathy Mahan KC6UXJ, and President Emeritus Rick Reiner K6ZWB. Also present were SCRA members Honory Brayin WD6CKP. SCRA members Hoppy Bravin WD6CKP, Jim Pelmulder N6PTM, Joe Senft KM6TN, Fred Leoni N6YEU, Ted DeCroff KB6PTA, Brian Torr N6IIY and two other members.

ELECTIONS are in November. Rick K6ZWB is the Chairman of the Nominating Committee with members Jim N6PTM and Darlene KD6GCK. The Member of the Year Committee is chaired by Kathy KC6UXJ, aided by Phil WA6SEU.

SERVICE AWARDS will also be handed out at the December Christmas party. Contact a Board member with any recommendations for meritorious members. The CHRISTMAS PARTY will likely be at Cattlemen's restaurant again this year. N6VUC will check on availability. PROGRAM ideas for club meetings was discussed.

REPEATER: WB6PER has received the batteries generously donated by club member Mark Walsh KM6XU. Jim suggested we sell them at the Flea Market to obtain money to buy a battery that would be more suitable for repeater backup service due to size, shape and strapping considerations. The donated units would be excellent for home backup use. Jim's motion passed. m/s WB6PER/KD6CJQ

Jim has been tracking down the weird courtesy tones heard on the '73 repeater. So far there have been 6 phone calls to the controller manufacturer, ACC. N6VUC asked about the legality of using the repeater for code practice broadcasts. The consensus was that while that would be legal, there are lots of better methods to learn the code.

PUBLIC SERVICE: Marie KI6QY reported on upcoming events. She asked for ideas on ways to recognize volunteers. In addition to the SCRAPS picnic, we can give service awards to outstanding contributors.

OSL MANAGER: N1AL asked who gets incoming QSL cards. Fred N6YEU volunteered on the spot to be QSL Manager.

ANTENNA COMMITTEE: KM6TN is meeting with the City Attorney Monday morning to discuss revising Santa Rosa antenna regulations concerning radio amateurs.

STORAGE LOCKER: N6PTM has contacted CDF about using their site for a locker to store SCRA property. They seem receptive to the idea - Jim will follow up. Jim also reported that the EOC is available most evenings for training classes if we want it. We will probably use the HP room if available.

There is a RACES/ARES training drill Oct 15.

FLEA MARKET: Rick K6ZWB has received the ICOM IC-281H grand prize and 13+ door prizes. Thanks to HSC, Ardco and ARRL for prize donations. Nearly all the volunteer spots are filled. Many Flea Market details were discussed.

FIELD DAY: Rick's Drake "B line," used in many club Field Days, has been purchased by the club for \$300.

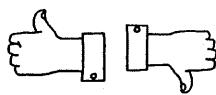
BADGES: N6YEU reports that badges now cost the club \$4.50. Fred just mailed out a big batch of unclaimed badges.

Meeting adjourned at 6:41 PM. m/s WB6PER/K6ZWB

Respectfully submitted by Al Bloom N1AL.

DSP Comparison:

Timewave *vs* W9GR



by Wayne Estes WD5FFH

This weekend I borrowed a friend's W9GR DSP II to compare with my Timewave DSP9+. I compared them using SSB and CW signals on 2 meters, 20 meters, and 40 meters. The "rankings" were the same on all three bands.

Noise Reduction:

On all bands, the W9GR "optimized noise reduction" was much more effective than the Timewave "aggressive" noise reduction. The W9GR gave more noise reduction with less voice distortion. The Timewave "less aggressive" noise reduction also distorted the audio more than the W9GR did.

The Timewave noise reduction attenuated the lower voice frequencies, and added significant high frequency ringing to voices. The resulting tinny, distorted sound was only slightly more intelligible than copying a weak signal without noise reduction.

The W9GR, on the other hand, retained the full voice frequency response without significant distortion. The result was a significant improvement in the intelligibility of SSB signals that were buried in the noise. The W9GR "combined notch and noise" reduction did not reduce noise as well as the "optimized noise reduction" mode, and the "combined" mode also introduced some high and low frequency ringing (but not as bad as the Timewave's ringing).

Notch Filter:

The Timewave notch filter was superior to the W9GR notch filter for continuous carriers, carriers with rapid fading, and for CW signals. The Timewave notch filter was faster and deeper than the W9GR notch filter. The Timewave notch filter also has some "hang time" that causes the notch to stay engaged during rapid fades. The Timewave notch filter added very little distortion to the desired voice signal.

The W9GR "combined notch and noise reduction" mode did not give a very deep notch (about the same depth as the IF notch filter on my Icom 751). The W9GR "optimized" notch filter was deeper, but still not as deep as on the Timewave. The W9GR "weak signal" notch filter added a lot of distortion to the voice signal, and was not pleasant to listen to.

Bandpass Filters:

Both models had excellent CW bandpass filter performance. I prefer the Timewave 500, 200, and 100 Hz bandwidths over than the W9GR bandwidths of 200, 100, and 30 Hz.

The W9GR does not have bandpass filters for SSB, which was a problem for me. My Icom 751 audio output has high and low frequency noise, which passes straight through the W9GR. To compound the problem, the W9GR generates its own high frequency hiss. I am using high-fidelity Sennheiser headphones, but my friend also hears the hiss on his Heil communications headphones.

The Timewave Voice mode includes a 300-3000 Hz bandpass filter which eliminates the high and low frequency noise from my Icom 751. And the Timewave does not add any hiss of its own. The "medium" and "narrow" voice bandpass filters are only needed when using an older transceiver with a wide IF and no passband tuning (they helped a lot on my old Ten-Tec Triton IV).

RFI Immunity:

The W9GR filter is very prone to RFI, even when all the connecting cables are wrapped around toroids. Consequently, one must turn the receive volume down when transmitting. (My friend and I both run 100W HF with RG-8 to verticals about 40 feet away).

The Timewave is less prone to RFI. If RFI is experienced, the Timewave DSP-9+ PTT input can be connected to the transceiver to mute the DSP output when the transmitter is keyed. This feature is great for HF, but not when operating full duplex on satellites.

CW Sidetone:

The W9GR CW filter will block the transceiver's CW sidetone if the sidetone frequency does not fall within the CW filter passband.

(next page)

DSP Comparison (from page 6)

In CW mode, the Timewave PTT input has a different function: The audio filter is bypassed with a relay when the transceiver is keyed. This allows the transceiver's sidetone to pass through to the speaker/headphones, while still eliminating any RFI in the DSP.

Data:

(Comparison based on reading the W9GR manual, and actual tests of the Timewave)

The W9GR has fixed-bandwidth data filters, but the center frequency can be switch selected for the standard Packet mark/space frequencies or for the standard RTTY/AMTOR/PACTOR mark/space frequencies.

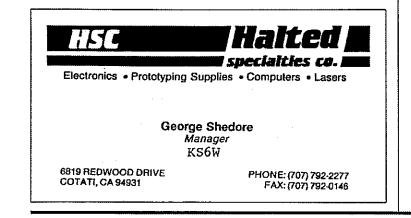
The Timewave has several front-panelselectable data filter bandwidths, but the center frequency is only selectable by an internal jumper. This may or may not be a problem depending on your TNC model.

Note: I believe that the above comments about the Timewave DSP9+ are also applicable to the Timewave DSP9, except that the DSP9 does not have the following features: Data filters, PTT input, Hard-wire relay bypass when power is off, AGC.

Conclusion:

If noise reduction for weak signal SSB is most important to you, then the W9GR is preferable to the Timewave. The W9GR is great for Oscar-13! If Bandpass filters, Notch filters, and RFI immunity are most important to you, then the Timewave is preferable to the W9GR.

Thanks to Scott Migaldi KF5JQ, for loaning me his W9GR filter.





COLOR: BLACK/RED/BLUE ON LIGHT BLUE BACKGROUND.

Club QSL Cards

It's been quite a while since we reminded you of this: For a small fee, you can have a batch of club QSLs printed with your call/name/address. We wait before taking them to the printer unless you order "Express" service.

Payment must accompany your order. If you want the cards mailed to you, so indicate by adding \$4.00 postage/handling. Bring your order to a club meeting or send to:

SCRA, PO Box 116, Santa Rosa CA 95402.

PERSONALIZED CARDS:

	NUKWAL	EXPRESS	
# CARDS	SERVICE	<u>SERVICE</u>	
250	24.00	44.00	
500	35.00	56.00	
1000	56.00	75.00	
> 2000	6.00/100 (120.00/2000)		
	(Express service only)		

"BLANK" CARDS: (No Call/Name/Address)

\$5.00 per hundred cards. (Available at club meetings)

Enter the information EXACTLY as it should appear on the card: (Postage is optional)

