



HANK'S SWAP SHOP

Hank Davis, W6DTV 7822 Washington Avenue
Phone 823-7885 Sebastopol, CA 95472
(Noncommercial ham ads are printed for free)

DRAKE TR-22 6-channel xtal, nicad battery, charger, carrying case \$40. N6DDK 576-2426 days, ask for Chuck.

RADIO SHACK HTX-100 10 mtr transceiver \$150.
WANT: 2 MTR synthesized rig, 10W or more.
Larry AA6RD 575-4509.

KENWOOD R1000 receiver, AC-DC cord \$240.
George KC6IRQ 874-2713.

WANT: MEMORY KEYS. Dan KJ6NZ 538-0609.

RADIO SHACK TRS-80 MODEL 3, 300 baud, 3 disk drives, 640-240 graphics board, manuals, 150+ software discs \$250. Steve N6RYA 823-5882.

Sonoma County Radio Amateurs, Inc.
PO Box 116
Santa Rosa, CA 95402

ADDRESS CORRECTION REQUESTED

JOHN BRECKENRIDGE
WB6FRZ
574 WILD OAK DR
WINDSOR CA 95492

FIRST CLASS MAIL

WANT: 440MHz AMP, 50W. Art W6LGQ 762-2132.

WANT: HEATH SB401 tx. Fred N6YEU 431-8202.

VIBROPLEX bug \$50. John W6TLK 833-1873.

HEATH SB220 HF Linear \$350.
3-EL MOSELEY BEAM 10/15/20, crank-up tower, rotor and control \$250. Van W6GFY 544-3485.

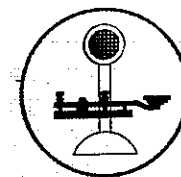
HEATH #UO-4510, 30 mg. 25 MHz scope \$200.
408-730-1462.

HEATH SB-104 transceiver, no power supply.
YEASU FT101ZD with FM unit, needs work.
SHURE 444 mic. Bill KA6JLP 823-5652.

RADIO SHACK HTX-100 10 meter transceiver
\$180. Kam KC6NDU 578-7296.

RADIO SHACK PRO-2004 scanner 300 ch.
25/530 MHz, 760/1.3 GHz, \$250.
MFJ 1224 RTTY/CW interface \$10.
HEATH HM-2140 dual HF wattmeter \$50.
CANTENNA \$10. Clyde N6RIG 527-5468.

(cont. p9)



SHORT SKIP



Sonoma County Radio Amateurs, Inc.

APRIL 1991

Club Station
W6LFJ

P.O. Box 116
Santa Rosa, CA 95402

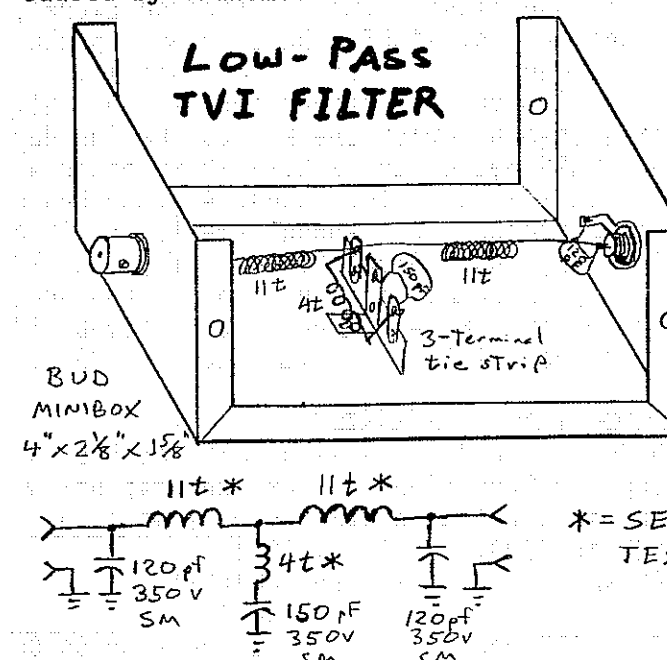
Repeater Station
WB6PVS

VOL 16 # 4

LOW-PASS TVI FILTER

by Al Bloom N1AL

Here's a low-pass filter that you can build. It's almost as good as the commercial units, and should be more than adequate for all but the most severe cases of TV interference caused by transmitter harmonics.



CONSTRUCTION

I used BNC connectors for my unit, but standard UHF (SO-239) connectors would be more practical. The capacitors should be at least 5% tolerance; 2% would be better. 350 volt should be adequate for less than 200 watts or so. Use 1000 volt caps for a KW. I used silver mica types, but NPO disc ceramics should also work.

The coils are made of #22 enameled wire, space-wound. I wound the 11-turn coils on a 1/4" drill bit and the 4-turn coil on a 1/8" bit. To space the windings, I used two pieces of wire wound in parallel. To remove the extra winding, just grasp one wire end and pull (windings still on drill bit.)

TUNING

The coils may be adjusted by spreading or squeezing the turns. The 4-turn coil is adjusted first, for maximum rejection of TV channel 2 (55.25 MHz), and then the 11-turn coils are adjusted for lowest SWR on 10 meters (28.5 MHz).

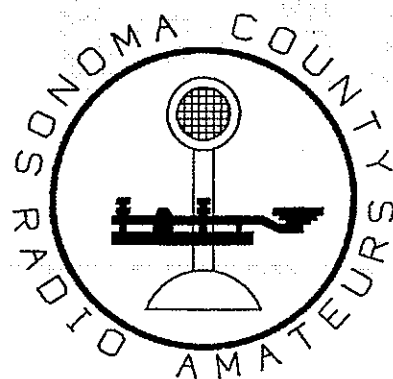
I can think of 3 ways to adjust the 4-turn coil. Method (1) requires that you have a grid dip oscillator (GDO). Temporarily short the top of the 4-turn coil to ground with a VERY SHORT, FAT wire. A piece of coax braid would do nicely. Loosely couple the GDO to the coil, and adjust the coil for a dip at 55.25 MHz. Calibrate the GDO by looking for broad horizontal interference bars on a nearby TV set tuned to channel 2.

Method (2) requires that you have a strong channel 2 signal (i.e. you are on cable). Connect the filter between your TV set and the cable. Adjust the 4-turn coil for snowiest picture. You may have to temporarily short out the 11-turn coils to get a strong enough signal.

Method (3) requires a stable signal generator tuned to 55.25 MHz. Connect the generator to the low-pass filter, and the other filter connector to an "antenna" (piece of wire.) Place the "antenna" close to the TV set antenna connection, and tune for minimum interference to channel 2.

PERFORMANCE

The filter attenuates all VHF TV frequencies a minimum of about 50 dB, with around 70 dB rejection of the channel 2 carrier, which is frequently one of the most troublesome frequencies. Insertion loss is less than .25 dB, and SWR is less than 1.5:1 (14 dB return loss) below 29.0 MHz. The loss rises to about .5 dB at 29.7 MHz, so if you operate on the high end of 10 meters, you may wish to peak the 11-turn coils at 29.0 MHz, instead of 28.5 MHz.



OFFICERS FOR 1991

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| VICE PRESIDENT: | Brian Torr | N6IIY | 575-5871 |
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| | John Wallack | W6TLK | 833-1873 |
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| EDITOR: | Alan Bloom | N1AL (e) | 538-7115 |
| | 1578 Los Alamos Rd, Santa Rosa, CA 95409 | (d) | 577-3981 |
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| ADVERTISING MGR: | John Wallack | W6TLK | 833-1873 |
| SWAP SHOP: | Hank Davis | W6DTV | 823-7885 |

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 (days) 577-2913
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 EDUCATION: John Breckenridge WB6FRZ 838-6398
 +N1AL WD6CKP WB7CNJ WA8LLY WB6TMY K6XZ
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 MEMBERSHIP LOTTERY: Bob Scolnick K6GEV

REPEATER CONTROL Op's:

WD6CKP Hoppy 542-6750 N6PTM Jim 823-7947
 WB6PER Jim 526-2972 W6TLK John 833-1873
 INTERFERENCE COMMITTEE: WB6PER Jim 526-2972

SHORT SKIP ADVERTISING RATES:

Business cards: \$10

\$11 First 1/4 Column
 \$3 Additional 1/4 Columns
 (\$32 Full Page, 1 side)

Pre-printed inserts: \$32/sheet

Guaranteed circulation: 200/month
 AD DEADLINE: 10th of previous month

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.

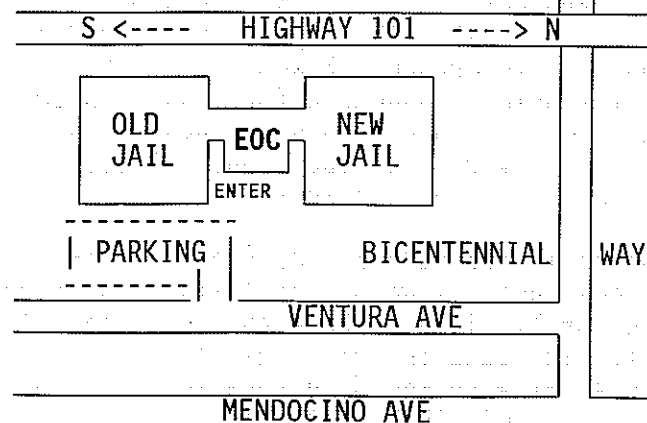
We invite you to attend our next monthly meeting (see below) or check into the Tuesday night SCARS net on the 146.13/73 repeater at 7PM. You will hear the latest Amateur Radio Newsline broadcasts, announcements of SCRA activities, and a Swap Shop. If you would like to join SCRA, please refer to the dues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

CLUB MEETINGS:

7:30 PM, 1st Wednesday each month at the EOC (Emergency Operations Center, see map below) Anyone interested in ham radio is welcome.

NEXT MEETING: April 3, 1991
 PROGRAM: HOMEBREW CONTEST!
 Details page 3.

DUES: \$12 per year, plus a one-time \$4.00 initiation fee. Dues are pro-rated \$1/month for new members. With membership, comes an SCRA call/name badge. Family membership: \$18



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BULLETIN

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 2210 Livingston St., (415) 534-5757
 Rich, Mgr. WA9WYB
 IS-880 at 23rd Ave. Ramp

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SCRA MINUTES

March 6, 1991



The meeting was called to order by President Jim Pelmulder N6PTM at 7:31 PM. Other officers present: Vice President Brian Torr N6IIY, Secretary Al Bloom N1AL, Treasurer Merlyn Pfeiff N6VUC, and Members-at-Large Phillip Gaul KC6BSI and John Wallack W6TLK. 61 members and guests were in attendance.

VISITORS introduced by Jane N6NTB: Justin, Brian Johnson KC6REK, David Jackson, and Mike and Tyler Bryant. Complaints were duly noted about non-delivery of Short Skip The MINUTES were approved as published in Short Skip. m/s WB6MJB/KB6IOT

The TREASURER'S REPORT was approved. m/s K6GEV/N6GHG We have \$1895.45 in the General Fund and \$755.43 in the Repeater Fund.

BADGES, BADGES. Connie N6FYV has lots of call/name badges for members to pick up.

REPEATER: A reliability problem showed up on the 146.73 machine recently when the power on Sonoma Mt. became intermittent. We tried to use the standby machine at N6PTM's QTH in Sebastopol, but every time the power would cycle, the Sonoma Mt. machine would come back ON. (We could not permanently turn it off by 450 control radio.)

The squirrely QRM last month has gone away. We have been getting some co-channel interference from a machine near Fresno.

The audio distortion must be fixed by the County. Unfortunately, the department currently has no Comm. Director and is down to only 2 Tech's, one of whom is a newcomer.

NET CONTROL STATIONS ARE NEEDED. N6YMQ is on for March; N6IIY volunteered for April.

PUBLIC SERVICE EVENTS coming up include the Lions Club Biathlon April 28 and the SRCC Wine Country Century May 4.

EDUCATION: We have two classes going currently. John WB6FRZ's Novice class is in its 8th session. Of 15 people, 6 have already passed their Novice, 4 have passed

the Tech, and 1 has passed the 5 wpm. Al N1AL's "No-code" Technician class has about 20 attendees after the third class.

VEC EXAMS will be held sometime in May, after Al's class is over, according to Steve WA8LLY.

The HOMEBREW CONTEST is next month! Bill N6OLD urged everyone to bring their hardware, software, antenna, etc.

ST. PATRICK'S DAY will see Irish hams working up a storm. John W6CCY has the times and frequencies.

RACES was on standby for the recent flood watch on the Russian River. John W6TLK reported that 3 operators were on standby ready to go out. The upcoming drill will be on Saturday April 6. Listen to the Monday night RACES nets for more info.

W6DTV reminded us that the deposit for the FLEA MARKET hall is due soon.

The PROGRAM was presented by Lou N6YMQ of KCBS AM radio. They have a whole new plant following the failure of one of their towers a couple years ago. The transmitter is entirely digital: The audio is digitized, and the resultant signal controls a large bank of 1 kW amplifiers to reconstruct the audio waveform.

Wayne W6RIA would have taken home the MEMBERSHIP LOTTERY if he had been present. Meeting adjourned 9:07 PM. m/s W6DTV/N6FYV Respectfully submitted Sec. Al Bloom N1AL

COMING EVENTS IN APRIL

- 3 - Livermore ARC swap meet (WU7R/K2BIO)
- 1 - RACES etc. Net 7:30 PM
- 3 - SCRA meeting 7/7:30 PM
- 8 - ARRL 144 MHz Sprint
- 12 - Deadline for May Short Skip
- 12-14 - International DX Convention, Visalia
- 13 - Foothill College Flea Market
- 15 - RACES etc. Net 7:30 PM
- 16 - ARRL 220 MHz Sprint
- 24 - ARRL 432 MHz Sprint
- 18 - CDF/VIP Meeting 7:30 PM
- 20 - CDF/VIP training sessions 9 & 10 AM
- 25-27 - CDF Cal Rural conference, El Rancho
- 28 - Coddington Lion's club Biathlon

LATE SHORT SKIP?



Here's the results of the last 3rd class bulk mailing of Short Skip:

(March Short Skip mailed Friday, Feb 22)

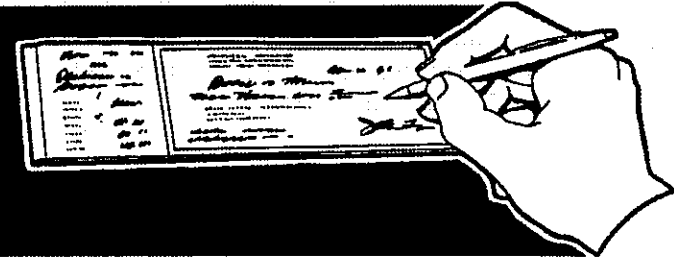
| | | | |
|--------|--------------|-------|------------|
| AA6UY | Santa Rosa | 95404 | Sat Feb 23 |
| N6UXC | Santa Rosa | 95401 | Mon Feb 25 |
| AG6C | Santa Rosa | 95403 | Mon Feb 25 |
| VP2ML | Santa Rosa | 95404 | Mon Feb 25 |
| KC6BSI | Santa Rosa | 95404 | Mon Feb 25 |
| WD6DPE | Santa Rosa | 95405 | Mon Feb 25 |
| KJ6HY | Santa Rosa | 95405 | Mon Feb 25 |
| N6INC | Santa Rosa | 95405 | Mon Feb 25 |
| W6MEO | Santa Rosa | 95409 | Mon Feb 25 |
| KI6KE | Santa Rosa | 95409 | Mon Feb 25 |
| W6LCZ | Santa Rosa | 95404 | Feb 25/26 |
| WD6DXW | Sebastopol | 95472 | Tue Feb 26 |
| N6QAV | Sebastopol | 95472 | Tue Feb 26 |
| KD6XF | Petaluma | 94952 | Mon Mar 4 |
| KA7NZO | Monte Rio | 95462 | Mon Mar 4 |
| KI6JC | Vineburg | 95487 | Tue Mar 5 |
| KB6IOT | Fulton | 95439 | Wed Mar 6 |
| KC6PJV | Guerneville | 95446 | Wed Mar 6 |
| WB6FRZ | Windsor | 95492 | Wed Mar 6 |
| W6LGQ | Petaluma | 94952 | Thu Mar 7 |
| KC6FKX | Forestville | 95436 | Thu Mar 7 |
| WA6ACX | Willits | 95490 | Thu Mar 7 |
| N6ONZ | Santa Rosa | 95407 | Fri Mar 8 |
| WA8LLY | Fulton | 95444 | Fri Mar 8 |
| N6OLD | Petaluma | 94954 | Sat Mar 9 |
| WB6TMY | Santa Rosa | 95402 | Sat Mar 9 |
| N6YEU | Healdsburg | 95448 | Sat Mar 9 |
| N6RXA | Rohnert Park | 94928 | Tue Mar 12 |
| N6GHG | Healdsburg | 95448 | Tue Mar 12 |
| Walt | Healdsburg | 95448 | Tue Mar 12 |

Latest reported delivery was 17 days after mailing. WB6TMY got his 14 days after mailing -- in his PO box 20 yards from the mailing point!

I guess this means we are going to use 1st class mail from now on. This is an extra \$1.08 in postage cost per year per member.

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.

THIS IS YOUR LAST SHORT SKIP !



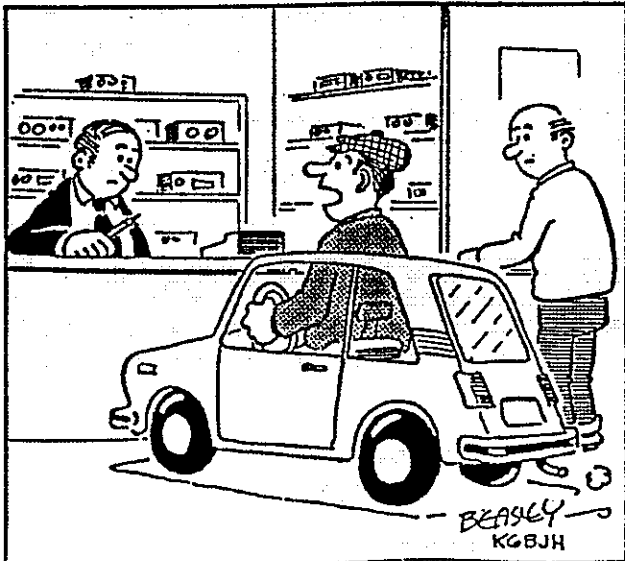
If there is a red "dues are due" rubber-stamped next to your mailing label, then our records show you are not yet paid up. Send your check to SCRA, POB 116, Santa Rosa, CA 95402, or give it to Treasurer Merlyn N6VUC at the next meeting.

"TOO MANY BADGES"

The following are badges that have never been picked up. If your callsign is listed below, please call me at 823-9691 to make arrangements to get your badge.

| | | |
|----------|--------|--------|
| KA6CRG | KA1NVR | N6UMC |
| KB6ENY | KI6NY | N6UWH |
| KC6IRQ | K6OEQ | K6UXO |
| W6/G4FSU | KC6OPQ | WB6WLJ |
| N6MMH | WB6TSO | N6YEQ |
| KC6NDU | | KB6ZOL |

73, Connie N6FYV, Badge Chairman.



YOU GOT AN HF RIG THAT WILL FIT IN THIS THING, AND A MOBILE WHIP THAT WON'T KNOCK IT OVER ?

HOME BREW CONTEST

by Bill Kaiser N6OLD

All club members are invited to bring in their "pride and joy" projects for the annual SCRA Homebrew Contest, which will take place at our April meeting.

Here's your chance to see what your fellow hams have built up in their shacks and workshops, and to show others what kind of activities interest you.

This is a good time to find other club members with interests similar to yours. For this to work, though, you need to bring in YOUR project.

You don't have to be building the next Space Shuttle to participate! Antennas, computer software, mechanical items, modified or improved gear, kits; in fact everything related to the hobby is encouraged.

Since we'll be looking at several aspects of the entries (for example, how well the work was documented, workmanship, utility, etc.), the most complicated project won't have an unfair advantage.

Photographs, printer listings, and QSL cards are all good to bring in, especially if your tower project is too big to move!

Remember, a clever weekender project often has more interest to other club members than a very specialized long-term effort, and it has just as good a chance in the contest.

So look around your station -- I bet there's something right now up on the shelf that appeals to others. Bring it to the meeting!

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RULES

1. Contest open to SCRA members only.
2. Schematics or program listings should be supplied, if possible.
3. Project must be Amateur Radio-related.
4. The equipment or program listing must be brought to the club meeting. If it is too large (antenna, etc.), bring a photo or other documentation.
5. Acceptable proof of operation includes plugging in the gear and operating it. Or, submit test data to show it works.
6. The winner will receive a certificate, and his name will be engraved on the SCRA Homebrew Contest plaque.

ENTRY FORM

Name: _____

Project: _____

JUDGING CRITERIA: (Weightings in parens)

Circuit complexity/sophistication _____ (15)

Novelty/ingenuity/"elegance" _____ (10)
(Original designs only)

Proof of operation _____ (15)

Utility/operating convenience _____ (10)

Neatness/appearance/workmanship _____ (20)

Uses surplus/easily available parts _____ (15)

Judges discretion _____ (15)

Total _____ (100)

VENI, VIDI, VISA
(We came, we saw, we went shopping)
ARNS Bulletin



DX NEWS



CHRISTMAS ISLAND, VK9X. On April 2 to 9, an operation is planned by a Japanese group.

LAOS, XW8. XW8KPL is QRV Saturdays. Try SSB on 15 meters between 1500 to 1700 UTC.

MYANMAR, XZ. JA8IXN is being deluged with QSL requests for XZ9A. Masa denies all knowledge of this operation.

NEPAL, 9N. 9N1MM meets KA9RLJ most evenings at 0100 UTC on 14253 kHz. He would be glad to QSO with you. Father Moran QSLs via N7EB.

SAN FELIX, CEO. XQOX remains active on 10 and 7 meters SSB. Try 21245 kHz or 28495 kHz. Juan will QRT in April. QSL via CE3ESS.

TOGO, 5V. 5V7RF, Dick is often on 21335 kHz or 14296 kHz at 2100 UTC. QSL via NC6A.

YEMEN, 70. Gabbie, DL2BCH, has 701AA logs. Remember that German airmail postage is almost \$2. Cards for 708AA are currently being received here. Both 9K2CS and F6EXV plan to be in Dayton the end of April.

4K1, SOUTH SANDWICH??? KC8MK reports hearing 4K1KI March 12 on 21023.6 at 0400Z. Also on March 17, K8QWY heard the 4K1 on 14004.6 at 0430Z. Still confusion on the true QTH, but remember: Work First Worry Later! (WFWL)

9K2, KUWAIT. Alan, NE2X, continues active signing 9K2/NE2X on 14260 and 14160 KHz net frequencies. Alan has been heard saying, "Many of the Kuwaiti operators had their stations destroyed by Iraqi soliders."

ET, ETHIOPIA. W4IBB signing ET2A continues very active on 10 and 15. The pileups are still big, but Jack has been hanging in there. He seems to start the day off on 10 running shotgun around 1200Z on a variety of frequencies and then moves to 15 around 1800Z. Operations on 15 meters are mainly on a net on 21300 KHz. QSL via WB2WOW.

HP, PANAMA. Frank, HP3FL, is quite active on 3795 & 7088 KHz 1100-1200 UTC. QSL to Frank Linares, Box 76, David-Chiriqui, Panama.

KG4, GUANTANAMO BAY. KG4FG, is on daily after 2200Z on 14270. On weekends look for Frank on 18122 KHz starting at 1300Z. He can also be found on 21310, 3808, 3810, 3812 etc. and he often just monitors the frequency, so give him a call. QSL to Frank Santiago, Box 35B, FPO New York 09508.

XU, KAMPUCHEA. XU8DX has become active again, with reports of operations on 7003 KHz at 1115Z this week and 14153 KHz at 1050Z last week. Not sure who is operating, but XU8DX is supposed to be a club station.

YA, AFGHANISTAN. N2RU has received word from RL8PYL gang that they will activate this one in late March or early April. Operations will be on a large scale on CW-SSB-RTTY, 10-160 meters. Meanwhile, word came out that the YAORR cards may be out in late April.

Thanks to Tedd Mirgliotta, KB8NW, the No. Ohio ARS, No. Ohio DX Assn., Joe Sand K2GX, Tristate DX Packetcluster network, Paul KB1BE, Conn. DX Assn. and NA8A, WB3LHD, WK3N, W8QWI, KQ8M AND K8YSE for this info. ■

(from Hank's Swap Shop, back page)

8-PAIR CABLE, #18 wire, shield and ground. Good control cable \$.50/ft. John W6CCY 823-1357.

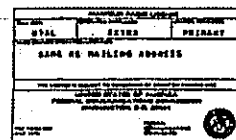
RCA MONITOR 9 inch, TC1110 monochrome, video in and out. **AMECO PCL-P** Preamp 1.8/54 MHz. **500W DUMMY LOAD** with meter, 52 ohm. **WEBSTER** mobile whip 10-15-40 coils w/antenna feedthru and spring. **SPEED-X** straight key. **SHURE CR-4-404C** mobile mikes. **RG-8 LOWLOSS** coax, about 50' new fittings. **4-WIRE CABLE**, extension cord type. **MARS SW10** SWR meter 75/52 ohm. **COAX SWITCHES**, 5 pos. and 2 pos. **VARIAC W2**, 2,4 Amp 120VAC. **AGASTAT TIMER**, 200 seconds 110V. **HORIZON CONVERTER** for HT, HC-V (up to 163 MHz), manual. Hank W6DTV 823-7885.

KENWOOD 820 \$350 or best offer. Bart KA6HGW 573-8676.

WANT: APRIL 1981 QST. A1 N1AL 538-7115.

CB ANTENNA & MAST, 4-section 40 ft. \$30. Rich KB6KRN 539-6474. ■

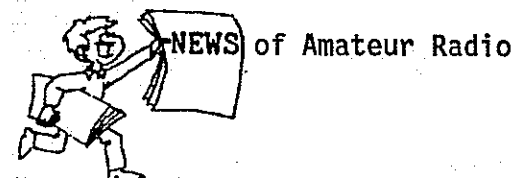
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B. NOCODE TECH. *
C. OTHER
* = WALK-INS ONLY

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|--------|-----------------|---------|---|-----|----------|
| MAR 30 | FAIRFIELD---- | 11 AM | 1 | 408 | 255-9000 |
| APR 06 | CONCORD---- | 1:30 PM | 1 | 408 | 255-9000 |
| APR 06 | CUPERTINO----- | 9 AM | 1 | 408 | 243-8349 |
| APR 06 | S. S.F.----- | 10 AM | 1 | 415 | 333-1916 |
| APR 07 | CLEARLAKE---- | 11 AM | 1 | 408 | 255-9000 |
| APR 07 | HANFORD---- | NOON | 1 | 408 | 255-9000 |
| APR 07 | CHICO----- | 1 PM | 3 | 916 | 342-1180 |
| APR 13 | SUNNYVALE---- | 11 AM | 1 | 408 | 255-9000 |
| APR 13 | SONORA----- | 9 AM | 1 | 209 | 586-4917 |
| APR 13 | SANTA MARIA--- | 8 AM | 1 | 805 | 922-8509 |
| APR 20 | REDWOOD CITY-- | 11 AM | 1 | 408 | 255-9000 |
| APR 20 | STOCKTON----- | 10 AM | 1 | 408 | 255-9000 |
| APR 20 | CUPERTINO----- | 9 AM | 1 | 408 | 243-8349 |
| APR 27 | FAIRFIELD---- | 11 AM | 1 | 408 | 255-9000 |
| APR 28 | SUNNYVALE---- | 11 AM | 1 | 408 | 255-9000 |
| MAY 04 | SUNNYVALE---- | 11 AM | 1 | 408 | 255-9000 |
| MAY 05 | FRESNO----- | 10 AM | 1 | 408 | 255-9000 |
| MAY 04 | CUPERTINO----- | 9 AM | 1 | 408 | 243-8349 |
| MAY 08 | SACRAMENTO | 6:30 PM | 4 | 916 | 483-3293 |
| MAY 11 | REDWOOD CITY-- | 11 AM | 1 | 408 | 255-9000 |
| MAY 18 | STOCKTON----- | 10 AM | 1 | 408 | 255-9000 |
| MAY 18 | TURLOCK----- | 9 AM | A | 209 | 883-2968 |
| MAY 18 | CUPERTINO----- | 9 AM | 1 | 408 | 243-8349 |
| MAY 18 | SAN FRANCISCO-- | 9 AM | 1 | 415 | 986-5055 |
| MAY 19 | PORTERVILLE--- | 2 PM | 1 | 408 | 255-9000 |
| MAY 25 | FAIRFIELD---- | 11 AM | 1 | 408 | 255-9000 |
| MAY 26 | SUNNYVALE---- | 11 AM | 1 | 408 | 255-9000 |
| JUN 01 | CONCORD---- | 1:30 PM | 1 | 408 | 255-9000 |
| JUN 01 | MODESTO----- | 9 AM | 1 | 209 | 883-2968 |
| JUN 01 | CUPERTINO----- | 9 AM | 1 | 408 | 243-8349 |
| JUN 02 | CHICO----- | 1 PM | 3 | 916 | 342-1180 |
| JUN 08 | SUNNYVALE---- | 11 AM | 1 | 408 | 255-9000 |
| JUN 08 | NOVATO----- | 9 AM | 1 | 415 | 897-8950 |
| JUN 08 | SANTA MARIA--- | 8 AM | 1 | 805 | 922-8509 |
| JUN 13 | SACRAMENTO | 6:30 PM | 4 | 916 | 483-3293 |
| JUN 15 | REDWOOD CITY-- | 11 AM | 1 | 408 | 255-9000 |
| JUN 15 | STOCKTON----- | 10 AM | 1 | 408 | 255-9000 |
| JUN 15 | CUPERTINO----- | 9 AM | 1 | 408 | 243-8348 |
| JUN 15 | SACRAMENTO---- | 9 AM | 2 | 916 | 483-3293 |
| JUN 23 | SUNNYVALE---- | 11 AM | 1 | 408 | 255-9000 |
| JUN 29 | FAIRFIELD---- | 11 AM | 1 | 408 | 255-9000 |

SUNNYVALE VEC, BOX 60142, SUNNYVALE CA 94088
UPDATES & CORRECTIONS TO: SP W6NLG @ KA6JLT



220-222 GOES TO LAND MOBILE per FCC report and order PR Docket 89 552, issued March 14, which adopts rules for the use of 220 to 222 MHz by the Private Land Mobile Service. 90 days after the effective date of these rules, Amateurs must discontinue all operations in the 220 to 222 MHz band, probably sometime in late July. *ARRL Letter*

LICENSE FEES are again in the 1992 FCC budget request, \$30 per 10-year term. No mention of how upgrades or address changes would be handled. *W6DPD Director's newsltr*

NEW ARRL-VEC PROCEDURES will permit VE teams to keep up to \$4.00 per applicant for expenses. Other changes include multiple-choice code exams, exam-generating programs for code and theory, "instant accreditation" for VE's already certified by another program, and a toll-free "800" number for VE's to call ARRL. *ARRL/VEC news release*

FCC HAS BEEN AUDITING AMATEUR STATIONS for power level, to see what power is actually required for effective communications. The rumor is that FCC is gathering evidence to change the rules to reduce Amateur power levels. *Westlink Report*

COMMENTARY by Vince Migliore N6UMC

A lawyer, a politician and an Amateur Radio operator were having a few drinks in a local bar. They got to talking about having a mistress.

The lawyer said, "I'd never have a mistress! It's immoral and shameful, and I'd never do anything to hurt my wife."

The politician said, "Heaven forbid I should ever cheat on my wife. It's unethical, sneaky, and I'd never do it."

The Amateur Radio operator's eyes lit up. "Hey, that would be a great idea! I could tell my wife I'm with my mistress and tell my mistress I'm with my wife. Then I could sneak out to the radio shack and call CQ!"



24 GHZ QSO

I'm writing to let you know about a recent 24 GHz contact that may be of interest to *Short Skip* readers.

On February 23, 1991 at 5:25 PST, KK6TG/6 (former WBØHLC/6 and N6OLD/6 had a SSB QSO on 24.192100 GHz [24,192.100 MHz], between Hull Mountain (39.523N, 122.939W, CM89MM, 6100 ft) and Mt. Diablo (37.883N, 121.913W, CM97BV, 3800 ft), a distance of 125 miles or 201 km.

Could this be a new world land record or a new North American land-or-water record?

Equipment was (KK6TG) 16 in. dish, 14 dB noise figure, +7 dBm power (5 milliwatts); (N6OLD) 20 in. dish, 12 dB (estimated) noise figure, +2 dBm power (1.6 milliwatts). Local oscillators were locked to crystal ovens; station frequencies agreed to within a few hundred Hertz.

The new 24.192047 GHz KK6TG/B beacon at CM88QQ aided in aiming and confirming frequency. The beacon, with a -5 dBm ERP (.3 milliwatts) from its omni-directional horizontally-polarized antenna, was 6 dB out of the noise at CM97BV. It is co-sited with the KK6TG/B 10.368020 GHz beacon (+20 dBm ERP = 100 milliwatts) serving northern California. Both beacons are frequency-shift keyed.

An earlier test QSO at 2:32 PM (PST) between Elk Mountain (CM89MG) and Mt. Diablo (111 mi/178 km) revealed stronger-than-expected signals, more than 40 dB above the noise, so we decided to try a longer shot.

The Hull Mountain site had an even stronger signal, which suggests ducting. The low humidity (16% R.H., 50 degrees F) also helped.

Signals were strong enough to work sideband with one station using only an open waveguide for an antenna.

We're actively exploring water-absorption effects and investigating propagation on this interesting band.

The 24 GHz beacon will have higher power in the near future, to extend its service area and improve the reception during periods of high absolute humidity.

Thanks very much and 73, Bill Kaiser N6OLD

QUOTE WITHOUT COMMENT

One of the most brilliant statements written in a club bulletin recently was in the *Suffolk County (NY) Radio Club QTC*: "We cannot expect them to be ianterested in something about which they know nothing." Some call Amateur Radio the "stealth" hobby.

- Armond Noble N6WR in *Worldradio*.

FRESNO HAMFEST

The 49th Fresno ARC Hamfest will be held May 3, 4 and 5 at the Airport Holiday Inn, Fresno. Swap meet Saturday. Amateur exams Sunday AM. Hourly drawings. Forums include ARRL, RACES, DX, packet, computer and technical sessions. For info, write to POB 783, Fresno, CA 93712-0783 or connect to N6SIV-1 MBX on 145.01.

STOLEN RADIO: Kenwood TM2570A, 70 Watt, mobile 2 meter rig. Serial # 7021201. DC power cord is fit with a dual banana plug. Stolen from my car in Oakland Tues 2/26/91. Contact Phil Lindsay KC6QBM, 570 Ridgeway Dr., Pacifica, CA 94044. 415-355-0774 (H), 408-745-7000 (W) or Oakland Police Dept., 415-273-3481.

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HOUSE RESOLUTION 73

March 10, 1991

Rep. John D. Dingell, Chairman, Committee on Energy and Commerce
Rep. Barbara Boxer
Rep. Frank Riggs

Dear Congressman _____,

Rep. Jim Cooper of Tennessee has introduced a bill in the Congress, H.R. 73, to protect Amateur Radio against loss of frequencies. We urge you to support this bill.

Amateur Radio is an invaluable resource to the nation. For example, many people do not realize the extent that commercial communications systems fall short in time of disaster. Amateur Radio has filled this gap for many years.

Each of the 500,000 Amateur Radio operators in this country has had to pass an FCC examination in radio theory and practice in order to obtain a license. Many hams are inveterate "tinkerers." America's leadership in electronics depends on this pool of skilled personnel. (It is interesting to note that Japan is one of the few nations with more hams per capita than the US!)

These benefits are provided to the nation free of charge. Even the license examinations are now given by certified Volunteer Examiners, at no expense to the FCC. All we need to continue our traditions of public service and technical advancement are frequencies to pursue our avocation.

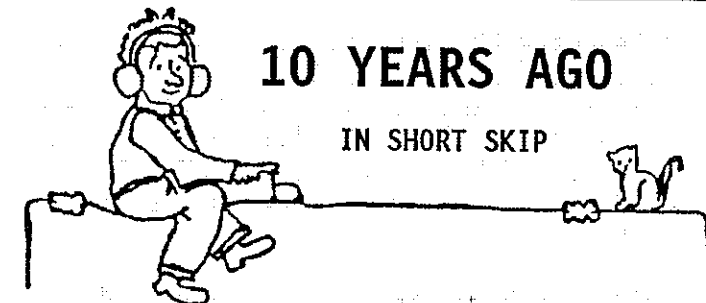
Unfortunately, Amateurs do not have the political clout in Washington that the big corporations do. We have no millions to spend on lobbyists or PAC's. Already portions of several Amateur bands have been lost to commercial interests -- most recently, 220-222 MHz was lost to the United Parcel Service.

We need this bill to protect Amateur Radio. Please help.

Sincerely,
Alan Bloom (N1AL)
Secretary, SCRA

From our ARRL Director's newsletter (Charles McConnell W6DPD):

"Thanks to everyone who has written their Congressman about their support for H.R. 73, the Amateur Radio Spectrum Protection Act of 1991. If you have not yet written your Congressman, please read pages 41-42 of the March 1991 QST. Please send your letters with copies to Perry Williams at ARRL HQ." ■



The featured event in April 1980 was the pot luck dinner April 11 at the Bellevue Elementary School. I seem to remember that that was the first club function attended by this writer when he first joined the club.

The President's column "Spark-Gap" included an appeal by president KB6LO for a Publicity Chairman, so the club could get some recognition for all of our good deeds. (We still need a PR chairman today!)

Upcoming club events include a seminar on DX chasing April 16, weekly 10 meter net, and a novice class.

TREASURER'S REPORT

FOR MONTH ENDING February 28, 1991

| ACCOUNT | REVENUE | EXPENSE |
|-----------------------------|---------|----------|
| Refreshments at meetings .. | 8.60 | 9.29 |
| Dues and Initiations | 242.00 | |
| Badges | 4.00 | 38.03 |
| Misc | | 207.49 |
| Short Skip Newsletter | 126.00 | 194.34 |
| Training and Education | | 30.00 |
| Amateur Radio Newsline | | 17.57 |
| Membership Supplies..... | 8.00 | |
| Officers' Expenses | | 10.00 |
| | 388.60 | 506.70 |
| ASSETS: | | |
| General Fund Account | 1575.15 | |
| Cash/checks on hand | 320.30 | |
| Total General Fund | 1895.45 | |
| Total Repeater Fund | 755.43 | de N6VUC |

CDF-VIP NEWS



There's a lot going on in the Sonoma Ranger Unit VIP program in the next couple months. A quick look at the calendar shows:

March:

- 21 -Pre-meeting net check-in, 145.19 MHz. Hazardous materials, part 3. Message handling review.
- 23 -Comm unit training for drivers. -Packet radio training class.
- 26 -ICS class, part 1.
- 28 -ICS class, part 2.

April:

- 10 -Steering committee meeting.
- 18 -Pre-meeting net check-in, 145.19 MHz. Hazardous materials, part 4. Hand held programming.
- 19 -Public schools Smokey Bear program mtg.
- 20 -Comm unit training for operators, 9 AM. IIO (F10) training class, 10 AM.
- 25-27 -Cal Rural conference VIP display.

May:

- 4 -VIP breakfast.
 - 15 -Newsletter deadline.
- etc...

Other upcoming activities include: Power Line Inspection training in early summer, Defensive Driving for Comm Unit drivers, and presentations by the CHP and PG&E.

Our Comm Unit got a nice mention, with photo, in the latest state CDF newsletter's article on VIP Comm Units:

The Sonoma and San Mateo-Santa Cruz Ranger Units have imitated Santa Clara with their concept of a communications vehicle. Sonoma has titled their new communications unit "Shadows." VIP Garry Palmer [N6ONZ] was instrumental in the founding of this unit. Shadows is a little larger than VIP COM 1, capable of accomodating up to eight people at one time. Palmer said, "I got the idea from the Santa Clara VIPs while working at the Mendenhall Complex Fire." ■

BOB FASCINATES THE YL's

by Bob Scolnick K6GEV DATELINE: Petaluma

Tuesday evening, March 12, Bob K6GEV accepted the invitation of the leader of the local Girl Scout Troop to address the young ladies and introduce them to Ham Radio and tell them something about the hobby and RACES. They have a program of achievements in which they earn badges of accomplishment similar to the Merit Badges of the Boy Scouts. One of the subjects they are required to become familiar with is how to communicate in emergencies.

Bob spoke for about 30 minutes on the basics of Amateur Radio and RACES and asked for an on-the-air demonstration of our ability to communicate. Chuck N6DDK, Marie KI6QY, Rudy N6KLU and Art W6LGQ responded and provided the necessary encouragement to "talk on the radio." We thank them for their interest and cooperation and hope some of the members of the Troop will go on to get licensed.

At the end of the demo, each girl received copies of ARRL, ARES and Morse code pamphlets. The Troop leader indicated that the presentation was well-received. ■

Jim Peimulder (707) 823-7947
N6PTM

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