

SWAP SHOP -----HANK'S

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

KOALA PAD touch tablet for Commodore 64 \$20 MACAW DPM-1 SWR/PWR meter 1.8-150 MHz. 20/200/1000 watts \$35. Hank W6DTV 823-7885. Delp

10W - 735 SEARS/YAESU 2 mtr transceiver 146-148 MHz \$50 firm. Jim N6PTM 823-7947. No

FREE: MODEL 33 ASCII printer, serial RS-232 port. John KA6DJY 544-5330.

YAESU FT901DM transceiver, SP901 patch, YP150 Toad/pwr mtr \$550. Jud N60AV 829-3621.

NEED MFJ TNC, ICOM 27A or 28A 2 meter transceiver. Lyle WW6F 526-3233.

SANTECH HT1200 5W charger 10 memories TT pad & P/L manual case \$100. Ken_N6GXI 584-8834.

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

ADDRESS CORRECTION REQUESTED

COMPUTER TERMINAL, Synertek KTM-2/80, 80/2 RS232, 110-9600 baud. AMDEK video 100G 12 inch green screen monitor, both for \$25. Clyde N6RIG 527-5468.

C64 VIC 1541 disc drive and 1701 monitor. STAR 10C dot matrix printer, software. Inquire: Jack W6NGZ 579-8061.

TOWER: light-duty 35 ft aluminum tower \$2 John W6TLK 833-1873.

YAESU FTDX400 transceiver, manual, speaker patch, desk mic \$350. Bud KD6XF 763-2119.



Electronics - Prototyping Supplies - Computers - Lasers

George Shedore Manager KS6W

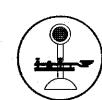
6819 REDWOOD DRIVE

PHONE: (707) 792-2277 FAX: (707) 792-0146

BULK RATE U.S. POSTAGE PAID SANTA ROSA, CA PERMIT NO. 658

JOHN BRECKENRIDGE WB6FRZ 574 WILD OAK DR WINDSOR CA 95492

> Our Records Show Yells DUES ARE DUE This Month



SHORE SKIP



Sonoma County Radio Amateurs, Inc.

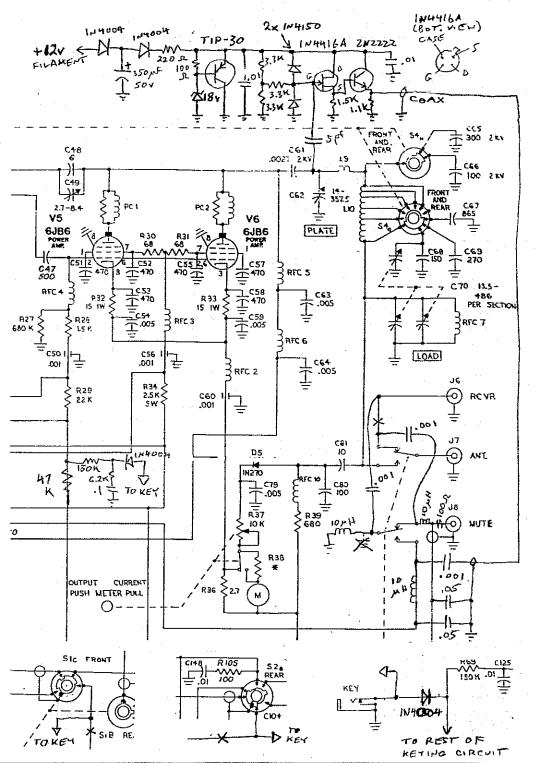
APRIL 1990

Club Station W6LFJ

P.O. Box 116 Santa Rosa, CA 95402 Repeater Station WB6PVS

VOL 15 # 4

NIAL'S FULL BREAK-IN MOD FOR THE DRAKE T4XB (p4). SEE HOMEBREW CONTEST RULES (p3).



FIELD DAY:

EDUCATION:



OFF	ICERS FOR 19	190				
PRESIDENT:	John Wallack	W6TLK	833-1873			
VICE PRESIDENT:	Jim Pelmulder	N6PTM	823-7947			
SECRETARY:	Alan Bloom	N1AL	538-7115			
TREASURER:	Philip Gaul	KC6BSI	544-2572			
MEMBER-AT-LARGE:	John Breckenridge	WB6FRZ	838-6398			
ACTIVITIES CHAIR:	Chuck Sabin	N6DDK	795-2371			
REPEATER CHAIRMAN:	Jim Rutherford	WB6PER	526-2972			
SHORT SKIP STAFF:						
EDITOR:	Alan Bloom	N1AL (e)	538-7115			
1578 Los Alamos Rd,	, Santa Rosa, CA 95	5405 (d)	577-3981			
CIRCULATION MGR:	Harvey Lawrence	K6KZ	·			
ADVERTISING MGR:	John Wallack	W6TLK	833-1873			
SWAP SHOP:	Hank Davis	W6DTV	823-7885			

SONOMA COUNTY RADIO AMATEURS, INC.

ARRL LIAISON: Alan Bloom N1AL 538-7115 ASST. DIRECTOR: Chuck Sabin N6DDK 795-2371 BADGE CHAIRMAN: Philip Gaul KC6BSI 544-2572 CLUB HISTORIAN: Connie Freitas N6FYV

ACTIVITIES COMMITTEE:

PUBLIC SERVICE: Bill Splaine N6GHG 431-8636 (days) 577-2913

Don BoosingerKD6HQ 546-1217

Tracy Reese WB6TMY 527-8124 +WD6CKP WB7CNJ WB6FRZ WA8LLY John Lynch W6CCY 823-1357

TVI/RFI: John Lynch W6CCY 823-1357
HOMEBREW CONTST:Steve Lund WA8LLY 823-4544
AWARDS: Steve Lund WA8LLY 823-4544
VEC EXAMS: Steve Lund WA8LLY 823-4544

+N1AL WN6D WW6D WW6F WB6FRZ K6UXO
REFRESHMENTS @ MEETINGS: Bob Olsten WD6DPE
GREETER AT MEETINGS: Jane Vanderslice N6NTB
MEMBERSHIP LOTTERY: Bob Scolnick K6GEV
OSL MANAGER: Doug Bender WW6D

REPEATER CONTROL OP'S:

WD6CKP Hoppy 542-6750 N6ONZ Garry 584-3425 WB6PER Jim 526-2972 W6TLK John 833-1873 WB6UAZ Kathi 544-7943 WN6D Jim 544-7943 N6PTM Jim 823-7947

PACKET COMM: Al NIAL, Jim WN6D, Rich KA6SSL

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 (145.03), 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 7:00 PM. You will hear the latest Westlink Amateur Radio News broadcast, announcements of SCRA activities, and a Swap Shop. If you would like to join SCRA, please refer to the dues listed below. Hope to have an "eyeball" QSO with you at the next meeting! 73 ...

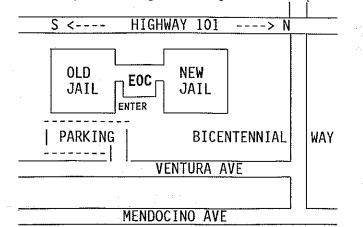
CLUB MEETINGS:

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 4, 1990

PROGRAM: 1990 SCRA Homebrew Contest (See rules this issue)

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





SCRA MINUTES

March 7, 1990



The meeting was called to order by President John Wallack W6TLK at 7:35PM. Other officers here: VP Jim Pelmulder N6PTM, Sec Al Bloom N1AL, Treas. Phillip Gaul KC6BSI and MAL's Chuck Sabin N6DDK & John Breckenridge WB6FRZ

The **PROGRAM** was "10 Steps to DXCC" by Chod Harris VP2ML. You missed a good program if you didn't make the club meeting.

The MINUTES were approved as printed in Short Skip. m/s N6FAX/W6DTV

The TREASURER'S REPORT by Treasurer KC6BSI was approved. m/s N6DDK/WA8LLY. General Fund = \$986.70, Repeatrer Fund = \$463.64.

The REPEATER REPORT was given by W6TLK in WB6PER's absence. The '73 antenna has been out of service -- we have been using a temporary antenna up 200 feet. The County may buy us a new one, but this is still "up in the air" at this point.

The QRM on the machine is at least partially coming from the 147.33 MHz machine on Mt. Tamalpais. K6LRN will bring this up at the upcoming Marin ARC board meeting. The problem has occurred both before and after our antenna change.

EDUCATION COMMITTEE Chairman Tracy WB6TMY has 5-6 names on his list of prospective hams. Teachers are needed. John WB6FRZ tentatively plans to run another class when his current student is done.

The MARCONI OPERATION in Marshall will be the weekend before Field Day, June 16/17. Mrs. Marconi (Guglielmo's daughter) and a number of other relatives will be present. The Marin ARC will also participate.

FIELD DAY is on at the Lytton Springs Salvation Army grounds in Healdsburg. Exactly where on the 600-acre site we will be is unclear, but there are two nice hills near the store. N6DDK reports we have the insurance forms all taken care of.

REPEATER FUND: W6DTV's motion last meeting (to amend Bylaw #3 so that the Repeater Fund upper, maintenance, and lower limits be changed to \$750 each), having been seconded last month and duly reported in the last Short Skip, was passed unanimously.

OLD BUSINESS: WASLLY noted the Field Day plaque must be updated and given to REDX.

NEW CALLS, from WB6FRZ's class, are KC6IRP Andrea Via, and KC6IRQ George Westerhoff.

RADIO FOUND: If you have lost a 2 meter radio, see John WB6FRZ.

The club's **PACKET DIGIPEATER** will be put on 144.93 so local packeteers can get into the KJ6FY PBBS in Benicia. Al N1AL will be installing the new crystals soon.

Al has a copy of the FCC's NOCODE NPRM.

The NET CONTROL STATION script (cheat sheet) has been printed up by Bob N6RMW. Copies were handed out at the meeting.

The MEMBERSHIP LOTTERY was lost by WA6YTW.

Meeting adjourned at 9:55 PM. m/s N1AL/W6TLK Respectfully submitted Sec. Al Bloom N1AL

TREASURER'S REPORT

FOR MONTH ENDING February 28, 1990



ACCOUNT	REVENUE	EXPENSE
Refreshments at meetings Raffle at meetings Dues and Initiations Misc(Donation)	30.00 202.00 50.00	7.20 35.00
Repeater (50% Jan dues)		71.00
Short Skip Newsletter Amateur Radio Newsline	20.00	132.80 24.50
Membership Supplies	73.00	
Officers' Expenses		5 .95
	385.00	276. 45
	,000,00	270.43
ASSETS:	•	
General Fund Account	843.44	
Cash/checks_on_hand	143.26	
Total General Fund	986.70	* ':2:=_
Total Repeater Fund	463.64	de KC6BSI

HOMEBREW CONTEST

Bring your latest creation to the April meeting for the 7th annual SCRA Homebrew Contest. You don't have to be an electrical engineer to win -- only 15 points out of 100 depend on sophistication of design. Kits are OK, but get no points for originality.

RULES

- Contest open to SCRA members only.
- 2. Shematics 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.
- 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/so	ophistication(15)
Novelty/ingenuity/"el (Original designs	legance" (10)
Proof of operation	(15)
Utility/operating con	nvenience(10)
Neatness/appearance/w	workmanship(20)
Uses surplus/easily a	available parts(15)
Judges discretion	(15)
Total	(100)

RACES NEWS DRILL APRIL 21



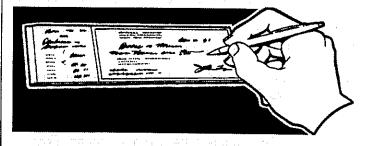
The RACES drill will be 9:30 to 11:30 April 21 with lunch at Lyons at noon. It will simulate a 6.5 earthquake. We will use the Repco repeater on voice and packet on 220. For more info, check the RACES net, your local Area Coordinator, or WB6PER.

MARCONI DATE CHANGED

Because of scheduling conflicts, the date of the official grand opening of the Marconi Center has been moved back to one of the last 2 weekends in September. More info when we know.

NOVICE CLASS

John WB6FRZ will be starting another Novice class on April 12. The 14-week course is sponsored by the Calif. Spinal Cord Injury Network at their building at 3911 Princeton Ave, corner of Yulupa (old Red Cross Bldg.) For more info, call John at 838-6398.



TURN TO THE LAST PAGE

Is there a red "DUES ARE DUE" stamped next to your address label? If so, bring your \$12 (\$18 for family memberships) to the next club meeting or mail it in.

FULL BREAK-IN ON THE DRAKE 4-LINE

By Alan Bloom NIAL

If you have never operated full break-in (QSK) on CW, you are in for a treat. The difference between semi-break-in (almost all transceivers) and full QSK is like the difference between operating a 2-way radio and a telephone. With QSK, you have the illusion of full-duplex communications -- you can listen while you send.

On the front cover of *Short Skip* this month is a portion of a Drake T4XB transmitter schematic with QSK modifications drawn in. Similar modifications should work with most tube-type transmitters. No modifications were required to the R4B receiver.

The 5 pF capacitor couples the top of the PI-network tank circuit to the input of the 1N4416A JFET. Since the JFET has a high input impedance, a fair amount of received signal manages to get through the little 5 pF capacitor. The 2N2222 emitter-follower reduces the output impedance to a reasonable match to the receiver 50-ohm antenna input.

On transmit, a large RF current flows through the 5 pF cap (about 1/2 Amp on 10M). The two 1N4150 diodes clamp the voltage to between 0 and +18 Volts so you won't blow the snot out of the JFET. The TIP-30 power transistor acts as an 18V shunt regulator to suck up the 250 mA or so passing through the top 1N4150. The two 1N4004 rectifiers and 350 uF cap provide about +15 Volts to power the circuit on receive.

The resting current of the 6JB6 power amps normally would cause excessive noise in the receiver. The circuitry added to the grid circuit of the 6JB6's allows you to set tube grid bias for proper resting current (key the transmitter with drive level turned to zero) while still biasing the tubes to cutoff when the key is open.

You will notice an increase in both noise and signal level when using QSK because of the additional gain. Net Receiver noise figure is slightly worse. Although the difference is small (occasionally noticeable

on 10 meters), I wanted to bypass the QSK circuit and connect the receiver directly to the antenna whenever the semi-break-in clicks off. This is the purpose of the modifications to the transmit/receive relay.

I built most of the circuitry on a small piece of perforated plastic board and mounted it on the side of the final amp shield cage. The 5 pF cap attaches to the plate tuning capacitor -- the other lead (insulated) goes through one of the shield holes to the perf board.

The receiver AGC will cause some delay in receiving "between the dits". I just turn off the AGC. With RF gain on full, I can adjust AF gain so the listening level is comfortable on both transmit and receive. Be sure the receiver function switch is in the "ON" position (not "EXT. MUTE").

In transmit mode, the transmitter carrier oscillator runs continuously. It can be heard in the receiver, but only when transceiving with the receiver VFO, for some reason. I tried keying the carrier oscillator, but this caused it to chirp. Since I rarely transceive with the receiver VFO, this has not been a problem.

10 STEPS TO DXCC

At the last meeting, if you didn't get your copy of VP2ML's handout, including the beam heading chart and the latest issue of *The DX Bulletin*, send a business-sized SASE to TDXB, PO Box 50, Fulton, CA 95439.

NEW ARRL DIRECTOR

At the 1990 ARRL Board of Directors' meeting, our own Rod Stafford KB6ZV was elected a Vice President. Since this left the office of Pacific Division Director vacant, Vice Director Charles McConnell W6DPD of Fresno was elevated to the post.

He can be contacted at 1658 W. Mesa Ave, Fresno, CA 93711 or (209) 431-2038.

DARK SUCKER THEORY

For years it was believed that light was emitted from an electric bulb; recent research has proven otherwise -- Dark is sucked into the bulb -- therefore, the bulb is a DARK SUCKER.

There are many types and sizes of DARK SUCKERS. The largest manufacturers of DARK SUCKERS are General Electric and Sylvania. Some modern DARK SUCKERS utilize solid power to operate properly. Solid power units can be purchased from Eveready and Duracell.

DARK SUCKER theory proves the existence of DARK SUCKERS as well as proving that dark is heavier than light. Some examples follow:

ELECTRIC BULBS

There is less dark near the Electric bulb than at a distance of 100 feet, when it is operating, therefore, it is sucking dark and can be classified as a DARK SUCKER.

The larger the DARK SUCKER, the greater the distance it can suck dark. The larger the DARK SUCKER the greater its dark capacity.

When the DARK SUCKER has reached its capacity, it is full and will no longer suck dark. Notice the dark area on the inside portion of the DARK SUCKER.

Electric bulb-type DARK SUCKERS can be made directional by placing a shield behind a portion of the unit. This will prevent dark from entering the DARK SUCKER from that side thereby extending the range of the DARK SUCKER on the unprotected/unshielded side.

CANDLES - PRIMITIVE DARK SUCKERS

Proof of a candle's dark sucking ability is relatively simple. Examine a new unused candle. Notice that the center core is not dark. Ignite the center core, allow the center core to burn for approximately 5 minutes. Notice the lack of dark around the candle. Extinguish the candle flame. Notice that the center core of the candle is now dark. The center core is a DARK SUCKER protected by a soft insulator to extend its life expectancy and maintain rigidity.

To verify that this primitive DARK SUCKER is operating properly, ignite the center core and allow it to burn for 2 minutes. Pass a clean pencil over the top, approximately 3 inches above the center core. Notice that there is no dark on the pencil. Pass the pencil over the top, approximately 1/2 inch above the center core. Notice that the pencil now has a darkened area. The pencil blocked the path of the dark being sucked to the core of the DARK SUCKER.

DARK IS HEAVIER THAN LIGHT

Dark always settles to the bottom of a lake and/or river. Submerge just below the surface of a lake and you will notice an absence of dark. Lower yourself to 15 feet below the surface and you will notice a degree of darkness even on a sunny, bright day. Lower yourself to 50 feet (or more) below the surface and you are in total dark. The dark has settled to the bottom because it is heavier than light.

Modern technology has allowed us to utilize the dark that has settled to the bottom of large rivers. The dark is passed through turbines which push it down river to the ocean, which has a larger holding capacity for dark and is a common safe storage location. As the dark is passed through the turbine, a percentage of solid power is removed and transmitted to various short term storage plants for many usages.

DARK IS FASTER THAN LIGHT

If you would open a drawer very slowly, you will notice that the light goes into the drawer (this you can see happen). You cannot see the dark leave the drawer. Continue to open the drawer and light will continue to enter the drawer; however, you will not see any dark leave the drawer. Therefore, dark is faster than light.

From UNIX Notes, author unknown.

Hear about the guy who got kicked out of his Metaphysics final? He got caught looking into the soul of the guy next to him.



DX VEWS



FROM THE DXCC DESK. QSL cards for Walvis Bay may be sumbitted after June 1 for contacts made on or after Sept. 1, 1977.

DXCC NEWS. Honor Roll reminder. Those wishing to upgrade their standings or qualify for the Honor Roll must have their cards in to HQ no later than March 30, 1990, to appear in the 1990 Honor Roll listings.

CONWAY AND BANABA. QSL cards may now be submitted for Conway and Banaba credits.

BANGLADESH. S21U was heard March 15 on 21255, listening on 21265, around 1200z. This may a group of Japanese operators.

KERGUELEN. For FT5XH try 14165 in the mornings on long path around 1100 to 1200z.

DODECANESE. N200, WA3TYF, and SVOAA will be active signing /SV5 on 80-10 meters cw and SSB from May 19 to June 23.

MAYANMAR. Formerly Burma. An operation is possible beginning March 22-24 for up to 14 days on all bands, CW and SSB. It is believed to be the same Hungarian group that activated 3W and XW.

AVES ISLAND. This dxpedition by Venezuelan operators has been rescheduled for around mid-April. this will be a digital operation only on RTTY, AMTOR, and PACKET.

OGASAWARA. JG6CVO will sign JD1/ from April 3 to 27 on all bands, CW, RTTY, and SSB. QSL home call.

COCOS. TI2US states that a trip is still planned but no date is known.

BHUTAN. By Jim Smith, VK9NS. Watch for this rare one, A5, March 21 through April 10.

S. SUDAN. PA3CXC says his STO operation will take place sometime between mid-late April. 160-10 meters, CW and SSB. QSL home call.

Thanks to WIAW, Bob, WB2CJL, and the W. New York DX association, for the above news.

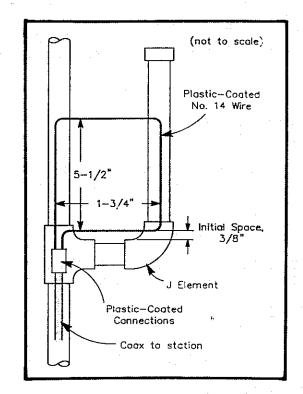
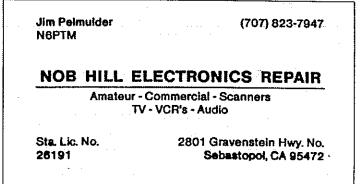
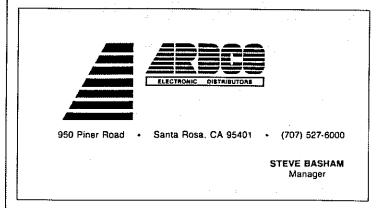


Fig 1—Henry Davis feeds his VHF J antennas with the loop coupling system shown here. See the text for how to position and mount the loop for minimum SWR.

(From W6DTV's article in March QST.)





CABLES AND THINGS

Fm RADIO COMMUNICATION, journal of the Radio Society of Great Britain:

One of the ideas currently exercising the minds of the audio fraternity is that the precise nature of the cable used to connect the various bits of the hi-fi together has a profound effect on the quality of reproduction. Some wonderfully funny adjectives are deployed by reviewers to describe this phenomenon, and some fairly shattering prices are asked for the fanciest cables.

Which type of cable is "best" is, of course, highly subjective since it depends totally on your individual interpretation of what reproduced music should sound like. It's probably also a function of how much you paid for the equipment, since no-one wants to feel that something they just paid \$100 for sounds worse than something which they could have bought for \$10.

There's a moral to be drawn here. Do we sometimes prefer to believe that our amateur equipment must be good just because it cost quite a lot? Isn't this one of the main difficulties with trying to solve EMC problems -- that your neighbor assumes that because he spent \$500 on his TV or \$5000 on his hi-fi, that any RFI must be your fault?

On the same basis, it's terribly easy to assume that any complaints from the locals about wide transmissions from your \$2000 transceiver must be due to their receiver. There's an intriguing bit of psychology at work here, which might be summed up as the "I paid good money for it, so it must be good" syndrome. As Radio Amateurs, whose technical knowledge is hopefully a cut above that of hi-fi enthusiasts, we need to make sure that we don't fall prey to fancy gadgetry and half-truths.

*1.2V version #8.4V version

N6GN'S DIGITAL RADIO

Glenn Elmore N6GN, an R&D engineer at HP in Santa Rosa, has completed the first prototype of a 12 Watt, 905 MHz high-speed packet transceiver. These units are designed to provide 250 to 500 kilobit/sec user access to an Amateur packet network.

Transmit/receive switching takes less than 40 micro seconds. This means you can go into "radar mode" by bouncing your signal off a 747 aircraft 4 to 10 miles away and copying your own packets via the echo.

Pilot run PC boards are being designed. The plan is to use these units as backbone/switch radios as well as for user access as a part of the prototype Northern California IP network now being constructed. Planned future designs will cover digital allocations at 1249, 1251 and 1298 MHz.

Tnx ARRL's QEX magazine.

LAKE COUNTY ANNUAL SWAP MEET

May 5th, 9 AM to 6 PM at the Moose Lodge of Clearlake Oaks, CA, SR 50 at SR 53. Breakfast / Lunch / Refreshments.

For information contact:
Tom Patton N6GJM @ W6PW.CA or 146.775. Lake
County ARS, Lucerne, CA.

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

POPULAR BATTERY SELECTION CHART		ALKALINE		LITHIUM	NI-CAD	ZINC CARBON EVERREADY			
Voltage	IEC No.	Can Style	DURACELL Order Code	EVERREADY Order Code	KODAK Order Code	EVERREADY Order Code	'Blue Seal' Order Code	'Silver Seat' Order Code	Other Order Code
1.5	LR03	AAA	MN2400	LR03	_	NC18*		R03S	
1.5	LA6	AA	MN1500	LR6	_	AN50HB*	R6B	R6S	_
1.5	LR14	c	MN1400	LR16	_	AN220HB*	R14B	R14S	_
1.5	LR20	a	MN1300	LR20		AN400HB*	R20B	R20S	
9	6LA61	PP3	MN1604	6LF22	U9VL	SB1166★	PP3B	PP3S	_
9		PP9	_			AB446X★		1	PP9

RADIO COMMUNICATION

LOCAL **PACKET** BULLETIN **BOARDS**



The 144.93 KJ6FY-1 packet bulletin board in Benicia is now back on the air. The problem was a failure of the hard disc coupled with delivery problems on the replacement unit. Ross apologizes for the downtime and hopes everyone will continue to use his system.

The computer is a 25 MHz 80386-based machine with 4 megabytes of RAM and a 66 megabyte hard disc. It has ports on the 220 band as well as two meters, with plans for an HF port in the future.

If you can't connect directly, there is a digipeater at the Armory in Santa Rosa, thanks to Terry WA6LIA. As of this writing, to connect to the KJ6FY-1 PBBS, type:

Connect KJ6FY-1 Via WA6LIA-1

Hopefully, by the time you read this. Terry's equipment will be replaced by the SCRA digipeater at the same location. When this happens, you will type:

Connect KJ6FY-1 Via W6LFJ

Another local BBS is the 144.97 KB6GOZ PBBS at the Coast Guard base at Two Rock. I have had trouble getting reliable connections to it in the past, but John has recently moved the antenna to a new site which should be easier to hit.

Both of these systems are full-service computer-based packet bulletin boards with automatic message forwarding via Westnet. Typical information available includes: ARRL bulletins, W5YI and ARRL newsletters, lists of VEC exams, RACES and ARES news, computer/radio items for sale, and files and programs for downloading. Just CONNECT to the PBBS and type "H" for help when you see the prompt (">").

AMATEUR EXAMS IN NORTHERN CA



UNLICENSED-EXTRA: 1. WALK-INS ONLY

A. WALK-INS ONLY 2. SOME WALK-INS B. SOME WALK-INS 3. PRE-REG. PREFERRED C. PRE-REG. PREFERRED

4. PRE-REGISTER ONLY D. PRE-REGISTER ONLY

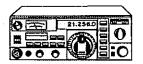
UNLICENSED-TECH ONLY:

MAR 31 STOCKTON- 11:30 AM 1 916 662-0801 MAR 31 ROSEVILLE----9 AM 4 916 783-7610 APR 01 CLEARLAKE----11 AM 1 408 255-9000 APR 07 CONCORD----1:30 PM 1 415 254-5090 APR 07 CUPERTINO----9 AM 1 408 243-8349 APR 07 VALLEJ0-----10 AM 1 707 644-1790 APR 08 HANFORD-----NOON 1 209 924-4221 APR 08 SUNNYVALE----11 AM 1 408 255-9000 APR 14 LOS ALTOS HILLS ***FLEA MARKET*** APR 14 EXAMS-SEE SUNNYVALE-----APR 14 SUNNYVALE----11 AM 1 408 255-9000 APR 14 SANTA MARIA---8 AM 1 805 937-4220 APR 21 MORGAN HILL--11 AM 1 408 255-9000 APR 21 CUPERTINO----9 AM 1 408 243-8349 APR 21 NEVADA CITY---NOON 3 916 273-2326 APR 21 MERCED-----9 AM 3 209 383-2166 APR 28 SAN CARLOS---11 AM 1 408 255-9000 APR 28 STOCKTON--11:30 AM 1 408 255-9000 MAY 05 CUPERTINO----9 AM 1 408 243-8349 MAY 05 SAN LUIS OB.--9 AM 1 805 528-0703 MAY 12 LOS ALTOS HILLS ***FLEA MARKET*** MAY 12 EXAMS-SEE SUNNYVALE-----MAY 12 SUNNYVALE----11 AM 1 408 255-9000 MAY 12 REDDING----? -- ? 916 243-7382 MAY 19 PORTERVILLE-930 AM 1 408 255-9000 MAY 19 CUPERTINO----9 AM 1 408 243-8349 MAY 20 SUNNYVALE----11 AM 1 408 255-9000 MAY 30 SACRAMENTO-6:30 PM D 916 483-3293 JUN 02 CONCORD----1:30 PM 1 408 255-9000 JUN 02 CUPERTINO----9 AM 1 408 243-8349 JUN 02 SOUTH S.F.---10 AM 3 415 333-1916 JUN 07 MODESTO----6:30 PM 1 209 883-2968 JUN 09 LOS ALTOS HILLS ***FLEA MARKET*** JUN 09 EXAMS-SEE SUNNYVALE-----JUN 09 SUNNYVALE----11 AM 1 408 255-9000 JUN 09 STOCKTON--11:30 AM 1 408 255-9000 JUN 09 NOVATO-----9 AM 1 415 897-8950 JUN 09 SANTA MARIA---8 AM ? 805 937-4220 JUN 16 CUPERTINO----9 AM 1 408 243-8349 JUN 17 SUNNYVALE----11 AM 1 408 255-9000

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

W1AW SCHEDULE

(See Jan 1990 QST, p 84)



SLOW CODE PRACTICE: (5 to 15 wpm) MWF: 6AM, 4PM. TThSSn: 1PM, 7PM.

FAST CODE PRACTICE: (35 to 10 wpm) MWF: 1PM, 7PM. TTh: 6AM. TThSSn: 4PM.

CODE BULLETINS: (18 wpm) Daily: 2PM, 5PM, 8PM. MTWThF: 7AM.

RTTY BULLETINS: (BAUDOT/ASCII/AMTOR) Daily: 3PM, 6PM, 9PM. MTWThF: 8AM.

VOICE BULLETINS: Daily: (6:45PM, 9:45PM.

CODE PRACTICE AND CW BULLETIN FREQS: 1,818, 3,581.5, 7,047.5, 14,047.5, 18,097.5, 21,077.5, 28,077.5, 50,080, and 147,555 KHz.

RTTY BULLETIN FREQUENCIES: 3,625, 7,095, 14,095, 21,095, 18,102.5, 28,095, 147,555 KHz.

VOICE BULLETIN FREQUENCIES: 1,890, 3,990, 7,290, 14,290, 18,160, 21,390, 28,590, 50,190, 147,555 KHz.

A DX Bulletin replaces the normal bulletins on Fridays (UTC).

In an emergency, monitor WIAW for special bulletins: Voice on the hour, RTTY at 15 minutes past, and CW on the half hour.

OTHER CODE PRACTICES:

W60IE 3590 KHz 5-30 WPM Daily except Mon 8 PM

K6RAU 3760 KHz Monthly course for beginners. (New session starts 1st Monday) Monday thru Friday 6:30 AM

W6ADO 7100 KHz 7/11/15/19/23 WPM 3 minutes each speed. Text is religious tracts. 24 hours a day



COMING **EVENTS:**

SCARS NET: 146.73 MHz Tuesdays at 7 PM.

VE EXAMS HOTLINE NR: 408-984-8353

2 - RACES etc. Net 7:30 PM 4 - SCRA meeting 7/7:30 PM 7-8 - North American QSO Party

9 - ARRL 144 MHz Sprint 13 - Deadline for May Short Skip

14 - Foothill College Flea Market

16 - RACES etc. Net 7:30 PM

17 - ARRL 220 MHz Sprint 25 - ARRL 432 MHz Sprint

26 - CDF/VIP Meeting 7:30 PM

27-29 - Dayton Hamvention MAY:

5 - SRCC Wine Century Bike Tour

5 - Lake County Swap Meet JUNE: 23-24 - Field Day

SEPT: 15 - SCRA Flea Mart, Sebastopol

Radio Shack

STORE NO. 3855

ZANE BATES MANAGER

WB6SRU

510 FARMERS LANE SANTA ROSA, CA. 95405 TELEPHONE

SILENT **KEY**

Wilson Emery W6EBI, past President of SCRA, has become a silent key. Services were Thursday March 1 in Sonoma. 73, OM...

de W6DTV