

## COMING EVENTS

- July**
- 1 Club Meeting, 7:30pm, HP (Listen to the Tuesday Night Net on June 30 for the exact location.)
  - 2 Novice/Tech course begins at Elsie Allen HS, Santa Rosa. Time: 6:30pm - 9:00pm. Call Bill Hillendahl, KH6GJV for info.
  - 8 Club Board Meeting, 5:30pm, Bank community room at Marlow Road Shopping Center, Santa Rosa
  - 10 SHORT SKIP ARTICLES DUE
  - 18 VE Exam, 9:00am, Hewlett-Packard in Santa Rosa, Building 1.  
Club Foxhunt, 9:00am. Piner High School, Santa Rosa  
Harvest Century, Public Service Event
  - 25 Vineman Triathlon, Public Service Event
- August**
- 1 Reno Hamfest. Contact John Peterson KJ6EE at (702)853-8452 or email him at [kj7ee@aol.com](mailto:kj7ee@aol.com)  
Humboldt ARC Hamfest (Eureka CA), Redwood Acres Fairgrounds. Contact Wayne & Cynthia Carlson KF6AAP and KF6CMC at (707) 668-4396 or email them at [carlsons@saber.net](mailto:carlsons@saber.net)
  - 5 Club Meeting, 7:30pm, Hewlett-Packard in Santa Rosa
  - 12 Club Board Meeting, 5:30pm, Bank community room at Marlow Road Shopping Center, Santa Rosa
  - 14 SHORT SKIP ARTICLES DUE
  - 14-16 ARRL Southwestern Division Convention in San Diego, August 14-16. Contact Sybil Allbright, W6GIC (619) 278-4284 and <http://www.geocities.com/siliconvalley/lakes/8400/>
  - 15 VE Exam, Glen Ellen. 9:00am Sonoma Developmental Center. Talk-in on 145.35 repeater.  
Club Foxhunt, 9:00am. Piner High School, Santa Rosa  
Fair Oaks Swap Meet (near Sacramento). Bella Vista HS, 8301 Madison Ave, east of Sunrise Blvd. 6:00am - noon.

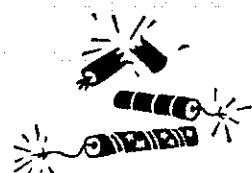
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## Have a Safe and Happy Fourth of July!!!



JOHN BRECKENRIDGE WB6FRZ  
574 WILD OAK DR  
WINDSOR CA 95492

SHORT SKIP

SONOMA COUNTY RADIO AMATEURS, INC.

July 1998



Club Station  
W6SON

# Short Skip

Sonoma County Radio Amateurs, Inc.

PO Box 116, Santa Rosa, CA 95402-0116

146.730 MHz ● 224.48 MHz ● 441.375 MHz



Repeater Station  
W6LFJ

Volume 23 Number 7

July 1998

## MIR-SCHOOL QSOs CONCLUDE; ANDY THOMAS SAYS "THANKS" FROM SPACE

ARRL Letter, Volume 17 #22 5/30/98

A special arrangement linking several schools and individuals via telephone and Amateur Radio with US astronaut Andy Thomas, KD5CHF, aboard the Mir space station capped a series of highly successful Mir-school Amateur Radio contacts. The historic, early-morning QSO May 29 very likely marked the last ham radio contact between earthbound students and a US astronaut aboard Mir. The contact was coordinated by the Space Amateur Radio EXperiment, or SAREX. Thomas' Mir tour ends in June. He's the seventh and last US astronaut scheduled to stay aboard Mir, and his departure comes amid renewed concerns about the safety of the Russian space outpost.

A school that had been scheduled for the time slot at the last minute wasn't able to get details coordinated in time. So AMSAT SAREX representative Frank Bauer, KA3HDO, took things in hand. He contacted the Burbank School in the Chicago area and Santa Rosa Junior College in California. The schools were able to quickly round up students, teachers, and mentors who were more than happy to get up before dawn to speak with Thomas.

T.J. Bailey, KF6IAO, of Geyserville, California, High School had the honor of calling Thomas on the radio and hearing Thomas Australian-accented reply. Outstanding conditions allowed Bauer to begin by thanking Thomas on behalf of the SAREX Working Group for touching the lives of thousands of students, teachers and parents all over the US in the past 14 weeks.

"It was my pleasure!" Thomas replied. "The students and you all are the ones who got up early. You're the ones who should be thanked."

White then thanked Thomas on behalf of the ARRL. "The future of the United States is in the hands and hearts of our youth, and you've fired their imaginations as you've spoken with them via ham radio," she said. White asked Thomas if he felt the students got a lot out of the SAREX contacts.

Thomas replied in the affirmative. "If the level of questions can be considered indicative, then these students gained tremendously," he said. "The questions from the many different young people were quite penetrating--they have a keen interest in the space program."

Students and teachers at the various locations then asked questions about the crew's sleep schedule, the greatest thing learned during any of the Mir missions, how he felt physically, and Mir's safety. Thomas reported that the Mir is very stable now, and that the hardware is "robust."

Thomas recently issued a "thank you" message of his own to hams around the world who have sent messages via the Mir packet system. "I hope it is understood that the volume of traffic has made individual responses impossible, but we really enjoy your mail," he said in a packet broadcast from R0MIR.

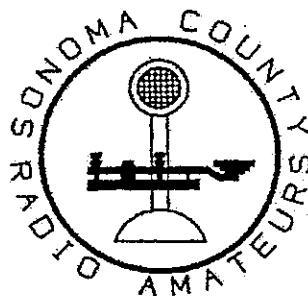
-- Thanks to Rosalie White, WA1STO, and Dave Larsen, N6CO

1998 Club Officers

Table listing 1998 Club Officers: PRESIDENT Dave New, VICE-PRESIDENT Kelly Cureton, SECRETARY Jennifer Dewey, TREASURER Joel Nadler, MEMBERS-AT-LARGE Ken Harrison, REPEATER CHAIRMAN Kelly Cureton, ACTIVITIES Dave Willey, PUBLIC SERVICE James Dean, PAST PRESIDENT Steve Carniglia.

SHORT SKIP STAFF

Table listing Short Skip Staff: EDITOR Holly Gleason, CIRCULATION Ken Harrison, AUDIO TAPING John Breckenridge, SWAP SHOP EDITOR Ken Harrison, SCRA Webmaster Ken Harrison, Assistant Webmaster Claude Jones.



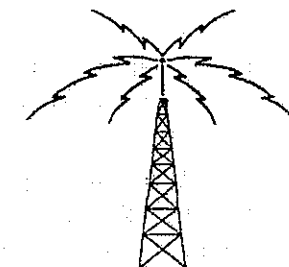
Club Meetings

7:30 pm on the first Wednesday each month at the Hewlett-Packard plant in SANTA ROSA. (See map below). All are welcome.

We invite you to attend our next monthly meeting (see below). Membership in SCRA is open to anyone interested in Amateur Radio. If you would like to join, there is a membership application in this issue.

CONTACTS

Table listing contacts: Public Relations Steve Carniglia, QSL Mgr Fred Leoni, TVI/RFI Al Bloom, Antennas Lee Dibble, Awards Steve Lund, Field Day Larry Gustafson, Swap Meet Colleen Dean, Education Greg Gordon, VEC Exams Bill Kinder, Badge Chair Fred Leoni, Refreshments Ted DeCroff, Meeting Raffle Ken Harrison, Membership lottery James Cureton, Packet BBS Jim Andrews, Activities/Fox Hunts Dave Willey.



Repeater Control Op's

Table listing Repeater Control Op's: Kelly KD6CJQ, Hoppy WD6CKP, Steve KV6A, Merl N6VUC, Ken N6MHG, Joel KJ6LF, Larry KD6VUM.

SCRA HOTLINE: 707-579-9608
Web Address: http://cds1.net/scra
Short Skip On-line: http://cds1.net/shortskip

Next Meeting: July 1
7:30 P.M.
Hewlett Packard in SANTA ROSA

Application for membership in SCRA

Form for application: Name, Callsign, License Class, Address, Phone, Date, City, ZIP, E-mail, ( ) New ( ) Renewal.

SCRA Dues: The renewal date for SCRA dues is March 1st. Dues are \$18/year for individual and \$27/year for families. The new member initiation (badge) fee is \$6/person. Dues for new members only are prorated at \$1.50/month for individuals and \$2.25/month for families, starting at renewal time.

ARRL dues: \$34/year, \$28 over 65 with proof of age. (Under 21 rates require application form).

Make checks payable to SCRA

I WOULD LIKE MORE INFORMATION ABOUT:

- ( ) Public Service Events
( ) RACES or ARES Emergency Services
( ) Taking a Novice or Technician class
( ) Teaching a Novice or Technician class
( ) Taking an upgrade class
( ) Teaching an upgrade class
( ) Helping with SCRA Flea Market
( ) Acting as club Net Control Station
( ) Helping with VEC license exams
( ) Field Day, other operating events
( ) Helping with Short Skip Newsletter
( ) Other

SCRA Dues:

Individual \$18, Family \$27 +
Initiation fee \$6.00 +
Prorate discount X (# months) (rate) -

ARRL Dues:

\$34 or \$28 if over 65 +
Additional donation to SCRA: +
Total dues: \_\_\_\_\_

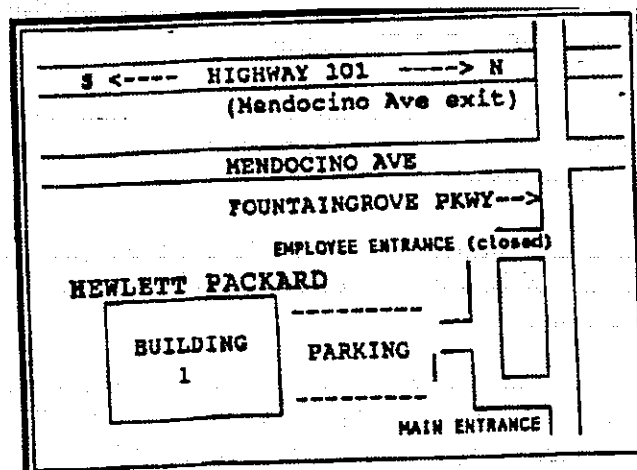
Tuesday Night Net

Check into the Tuesday Night SCRA net on the 146.73 repeater at 7:00 pm. Announcements of upcoming SCRA activities, a Swap Shop, and the latest Amateur Radio Newsline broadcasts can be heard.

Short Skip Advertising Rates

Table listing advertising rates: Business Cards \$10, First Quarter Column \$11, Each Additional Quarter Column \$3, Full Page, 1 side \$32, Pre-printed inserts \$32/sheet.

Guaranteed Circulation of 200 per month.



Short Skip is published monthly by the Sonoma County Radio Amateurs, Inc. Permission to reprint articles is granted, provided the source is properly credited. Items printed do not necessarily represent the views of the SCRA and/or its editors. Letters, photos & articles sent to the editor are subject to editing, publication, or rejection at the discretion of the editor.

## Treasurer's Report

5/18/98 - 6/15/98

### Beginning Balance

Checking	3166.94
Petty Cash	72.96
Savings	<u>1493.63</u>
TOTAL	4733.53

### Income

ARRL Inc	70.00
Dues	191.75
Initiation	24.00
Membership Supplies	18.00
Monthly Raffle	41.50
Refreshments	21.58
Replacement Badges	6.00
ShortSkip Income	<u>128.00</u>
TOTAL	500.83

### Expenses

Activities - Field Day	184.61
Officer's Expenses	40.00
Refreshments	24.87
Repeater Maintenance	175.00
ShortSkip Expenses	<u>175.05</u>
TOTAL	599.53

### Ending Balance

Checking	3068.24
Petty Cash	72.96
Savings	<u>1493.63</u>
TOTAL	4634.83

## Amateur Radio Spectrum Protection Act Needs Co-sponsors

On March 27, Representatives Michael Bilirakis (R-FL-9th) and Ron Klink (D-PA-4th) introduced HR 3572, the Amateur Radio Spectrum Protection Act of 1998. The operational portion of the bill is Section 3 (see below), which, if passed, would require the FCC to provide "equivalent replacement spectrum" if the Commission reallocates any primary or secondary Amateur Radio frequencies. You can look up the full text of the bill on the House THOMAS website at:

<http://thomas.loc.gov/cgi-bin/query/z?c105:H.R.3572>:

Our strategy is very straightforward - obtain as many House co-sponsors as we can before the end of the legislative session and elections later this year. To date, we have the following co-sponsors in the Pacific Division: Patsy Mink (D-HI-2) and Tom Campbell (R-CA-15). Let's get more of the Pacific Division House

Members to be cosponsors! Cosponsors don't vote against their own bills! Here is Section Three:

### "SEC. 3. FEDERAL POLICY REGARDING REALLOCATION OF AMATEUR RADIO SPECTRUM.

Section 303 of the Communications Act of 1934 is amended by adding at the end the following new subsection:

(y) Notwithstanding subsection (c), after July 1, 1998--

- (1) make no reallocation of primary allocations of bands of frequencies of the amateur radio service;
- (2) not diminish the secondary allocations of bands of frequencies to the amateur radio service; and
- (3) make no additional allocations within such bands of frequencies that would substantially reduce the utility thereof to the amateur radio service; unless the Commission, at the same time, provides equivalent replacement spectrum to the amateur radio service."

Please write to your congressperson today and encourage them to be a co-sponsor of this bill.

## Lower fee levels proposed for Vanity Calls

In a Notice of Proposed Rule Making released March 25 (MD Docket 98-36), the FCC proposes, among many other things, to change the fee for an amateur vanity call sign to \$1.29 per year for Fiscal Year 1998 (that is, \$12.90 for the ten-year term of the license instead of the current \$50). The details are in section 13 of Attachment H. Fiscal Year 1998 starts Oct. 1, 1998. It is also proposed that there will be no refund from the current fee amounts to the new level for current Fiscal Year 1997 applicants. The entire document, which is fairly large because it deals with regulatory fees for all services, not just amateur, may be downloaded from: <http://www.fcc.gov/Bureaus/Miscellaneous/Notices/1998/> The deadlines for Comments and Reply Comments has passed.

*Reprinted courtesy of the ARRL Pacific Division Update, dated July 1998*

Pacific Division Home Page -- <http://www.pdarrrl.org/>

# HSC ELECTRONIC SUPPLY

\* NEW LOCATION! \*

5681 Redwood Drive, Rohnert Park

## RAMSEY KITS

- VHF power amplifiers
- All-mode HF receivers
- QRP CW Transmitters
- Etc...

## ARRL BOOKS

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

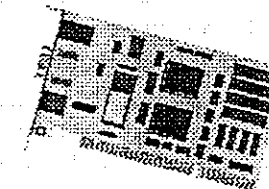
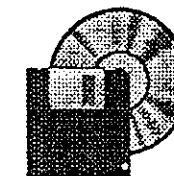
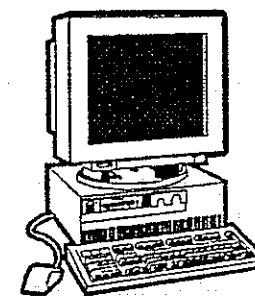
## OAK HILLS QRP KITS

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FAX: (707) 585-7597

## Hank's Swap Shop

**Image Scanner** - Mustek Paragon 800 IISP, color 800 x 800 dpi, in original carton. 11 months old. Original cost \$240. Will sell for \$100.

**HP Deskjet Printer** - Model 660C with cartridges. Approx 1-1/2 years old, excellent cond. Manual and latest driver diskettes. \$100.

Contact Jack, W6MZ @ 707-526-6769 or e-mail: w6mz@worldnet.att.net

**WANTED:** Kantronics TNC for packet.

Contact Jim, KD6WIS @ 707-928-6944 or e-mail: kd6wis@juno.com

## Note From a Past Member

Hi,

Just cruisin' the net and found your (web)page. Was a member back in the '70's.

73 es GL on Fd,

David (Kulcinski)  
WD6AJR

e-mail: dkulcin@earthlink.net

URL: <http://www.geocities.com/TheTropics/1205>

## VE Exams

This month, SCRA will host the volunteer exam at the Hewlett-Packard facility in Santa Rosa at 1400 Fountaingrove Parkway. The exam will be held Saturday, July 18 at 9:00am in Building 1.

To reach the test site if you're coming from the south on Hwy 101, take the Bicentennial off-ramp and go east until it merges into Fountaingrove Parkway. Follow the road to the top of the hill. Turn right at the traffic light into the Main (visitor's) gate. Be prepared to show a picture ID and tell the guard you are going to the Building 1 main lobby.

If you are coming from the northern part of the county on Hwy 101, take the Hopper Avenue off-ramp and turn left at the traffic light. At the next light, turn left and go up over the freeway. Continue straight at the next light up Fountaingrove Parkway. Follow the road to the top of the hill. Turn right at the traffic light into the Main (visitor's) gate. Be prepared to show a picture ID and tell the guard you are going to the Building 1 main lobby.

Tests are \$6.35 for all except Novice which is free. Remember to bring a photo ID or two non-photo ID's, the original and a photocopy of your current license, any original CSCE's and photocopies, medical exemptions and your radiotelegraph license, if held.

## Top Signs You May Need an Elmer...

By Jeffrey S. King, N1DJS

An elmer is the guy you go to, to ask questions about topics in Ham Radio that you don't understand. In that vein, you know it's time for you to find an Elmer if...

- Your friend tells you he has a new two meter radio and you figure one of the meters must be for swr and the other for power out.
- You hear a conversation on the low bands about CW and you think they're referring to the cold war.
- You hear someone sign this is N8XXX mobile 4 and you think it's because he has three other radios.
- You hear that someone won a 40 meter radio at a hamfest and you wonder how they're going to get something that large in their house.
- You build a morse code key out of plexiglass and can't figure out why it won't key your radio.
- You think the difference between short wave and long wave is the speed at which you move your wrist back and forth.
- You're thinking about joining your other ham friends in the local ATV group because you own a four wheel drive vehicle that will go just about anywhere.
- You won't use a repeater because you've heard that using a repeater could be dangerous. You've heard an alligator could get you.
- You think a co-linear antenna can only be used with two amplifiers.
- You think fm is the modulation type that came after em, dm, cm, bm and am.
- You wouldn't mind getting into packet radio but no matter how much you practice you can't get the hang of sending those beeps and braps with your keyer.
- You wonder what sound a short wave makes and why anyone would want to listen to one.
- You think the repeater owner would be a lot happier if instead of talking about his cavities he just went to the dentist and got them filled.
- You think a CW ID is the number the army gave you on your dog tags during the cold war.

## SCRA Board Meeting

June 10, 1998

Submitted by: Holly Gleason, KE6MNT



Meeting was called to order at 5:45pm by President Dave New, AA6YX.. Other officers present were: Kelly Cureton KD6CJQ, Joel Nadler KJ6LF, Ken Harrison N6MHG, Dave Willey KD6KWM, James Dean KF6DHB, Jen Dewey, KF6DDQ. Also present were:

Brian Torr N6IYY, Larry Gustafson KD6VUM, David Dewey KF6DDP, Jim McLaughlin WA2EWE, Adam McLaughlin KD6POC, and Bill Hillendahl, KH6GJV.

Dave New discussed our problems getting someone to take Net Control each month. Why do we have roll? It's not reported anywhere. Need to find out why people don't want to be net control and fix it. Discussion was held. James has discovered people like to be called. Next, Dave said Ted DeCroff, KB6PTA has a contact with Cable One to have Public Service announcements made. Larry will get the address from Ted.

Kelly Cureton reported he looked into the EZ UP awnings. Friedman can get them, but cost will depend on their price. He'll also look at Costco and in Damark Catalog. Preference is for aluminum frame not steel. Dave proposed to buy the awning under the Field Day budget if it's less than \$250. Motion made by Kelly, seconded by Jen and Dave W. Motion passed. Kelly also requested Executive Session with Radio Control Ops after the meeting.

Ken Harrison reported the message on the club phone is way out of date. Need someone familiar with phone system to update.

Larry Gustafson- still hasn't been able to contact Piner HS principal regarding overflow parking for Field Day. He went into office and talked to someone who gave him form to fill out. Said he should know in a couple days if we can have overflow parking there, but it doesn't look like a problem.

*Continued on Page 7*

He also reported the club owns four tents which need to be ID'd somehow. He'll be taking a thorough inventory at Field Day. Has dropped off Field Day flyers at HSC. Lee Dibble was at Santa Rosa City Council meeting Tuesday where it was announced next week will be Amateur Radio week. Larry will try to have City Council come out for breakfast and see if they can help get TV50 to come out.

Food -- must pay John KD2LQ by Tuesday 6/23 to get ticket. No ticket, no meal. Cost is \$6 for 1/4 chicken or beef ribs; \$8 for both. This includes Sunday breakfast. If breakfast only, cost is \$3.00.

Jim McLaughlin. Novice station will be KD6KWM. Dave New, Brian Torr and Larry Gustafson will bring their radios and will be responsible for ensuring operators know how to operate. Primary station captains

will be: CW1 - Adam McLaughlin, CW2 - Dave New, Phone 1 - Larry Gustafson, Phone 2 - Brian Torr. Backups will be Cortland Richmond KA5S, and John Mullen KD2LQ with the two club radios. Larry will borrow another radio as secondary backup. Jim also stated that the Operating Schedule Detail passed around at last meeting was of bands probably most often used. Operators can change bands on paperwork if they'd like to work another frequency. Each operating station will display a sheet for band being operated. There will be one CW and one SSB sheet for each band.

Bill Hillendahl - got ARRL literature samples for FD use. Lit is free, but club has to pay shipping.

Brian Torr - in charge of Field Day antennas, brought in a Slinky Antenna made of eight metal Slinkys from design he found on the web. Brian also got an idea of quantities of coax the club owns.

James Dean - reported on Swap Meet (in Colleen's absence). Colleen would like to have short foxhunt at Swap Meet. Was also wondering if it's possible to get two sets of VE's so they can get up and check out the Swap Meet. Was directed to talk to VE Coordinator Bill Kinder. Larry suggested having operating HF station.

Holly Gleason - reported that Membership packet is being updated. Including new sections on Field Day, Foxhunting and Elmering.

Joel Nadler - Needs stamp with club address. Cost will be about \$16.00. Motion made to allow Joel to buy stamp by Ken Harrison, seconded by Dave Willey. Motion passed.

Kelly Cureton - mentioned that Bruce Donecker is not a club member but allows us to have a repeater on his property at English Hill. Wanted to know if we could make him an honorary club member. Motion made by Jen Dewey to make Bruce Donecker an honorary club member, seconded by Ken Harrison. Motion passed.



Please support our club's sponsors for their support:

- BASHAM'S ELECTRONICS
- HSC ELECTRONICS
- HAM RADIO OUTLET

## SCRA Club Meeting Minutes

June 3, 1998

(not submitted due to illness)

Hope you're feeling better Jen!



## More Membership Info

Here are the names and addresses of more club members whose names were not included on last month's roster.

Callsign	L	Name	Address	City	St	Zip Code	Phone
N1AL	E	Al Bloom	1578 Los Alamos Road	Santa Rosa	CA	95409-3308	538-7115
KV6A	E	Steve Carniglia	2774 Canterbury Dr	Santa Rosa	CA	95405	546-7370
WB2CHO	A	Chod Harris	3201 Franz Valley Rd	Santa Rosa	CA	95404	526-2198
KB6DJG	G	Dave Elmore	1727 Laguna Rd	Santa Rosa	CA	95401	544-3537
N6FAX	A	Sarah Davis	7822 Washington Ave.	Sebastopol	CA	95475	823-7885
KD6GC	E	Steve Schaffer	2320 Mark West Springs	Santa Rosa	CA	95404	546-8860
WB6GPX		Ron Tietz	1413 Jasmine Circle	Rohnert Park	CA	94928	584-1183
KE6JIT	T	Walter Martin	PO Box 734	Cloverdale	CA	95425-0734	894-3727
KA6IVK	G	Roy Hope	385 Oyster Point Blvd	8A S. San Francisco	CA	94080-1934	
K3JZ	E	John Zantek	2073 NW Valhalla Loop	Poulsbo	WA	98370	
K6KM	E	Ken McTaggart	402 Fourth St E	Sonoma	CA	95476	938-2626
KE6LNN	T	Patricia J. McTaggart	402 Fourth St E	Sonoma	CA	95476	938-2626
KF6NTG	T	Brian Tietz	1413 Jasmine Circle	Rohnert Park	CA	94928	584-1183
KF6QEU	T	George W Reynard Jr	2323 Olympia Drive	Santa Rosa	CA	95405	525-8690
WB6TDR	A	Cullen Tendick	8688 Starlight Ln	Sebastopol	CA	95472	
N6PTM	A	Jim Pelmulder	7765 Washington Ave	Sebastopol	CA	95472-3627	823-7947
KE6TIS	+	Peggy Gentle	PO Box 566	Monte Rio	CA	95462	865-1373
KE6TIV	T	Robert Bratberg	1507 Amanda Place	Santa Rosa	CA	95403	571-8063
N6VUD	T	Alan Judd	PO Box 2005	Guerneville	CA	95446	869-0600

PARTS PROFESSIONALS // WHOLESALE-RETAIL // NO REPAIRS

### BASHAM'S ELECTRONIC SUPPLY

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Mon.-Fri. 8:00-5:30  
Saturday 9:00-12:00  
Sunday Closed

Steve Basham  
OWNER

(707) 527-6000  
(800) 875-7557  
Fax (707) 527-1368

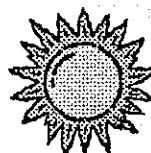
### New prefix for Pitcairn

The new prefix for Pitcairn Island in the South Pacific is VP6. The British possession changed its call sign prefix from VR6 to VP6 on May 1. Call sign suffixes will remain the same. As part of the reversion of Hong Kong to China, the British government also ceded the international ITU prefix block, VRA-VRZ, to China. Old timers may recall that VP6 used to belong to Barbados before it became independent.

### Worldwide ham population

According to the annual statistics collected by the International Amateur Radio Union (IARU), there were 2,777,000 amateur radio operators in the world in 1997.-- thanks to Nao Akiyama, NX1L

ARRL Letter, Volume 18 #22 6/5/98



### SCRAPS

Nine hams were present to help out on Sunday, June 14, during the Mini-Vineman. The race - usually a combination run, bike, swim event - did not include the ocean swim this year due to the poor weather. Race officials deleted the swim portion of the competition at the beginning of the month, way before the day turned out to be sunny, hot, and humid! Lee Dibble KE6EAQ, served as net control with Barnaby O'Leary, KQ6EX serving as his assistant. Other club members who participated were: John Mullen KD2LQ, Dave Dewey KF6DDP, James Dean KF6DHB, Bob Olsten WD6DPE, Bob Scolnick K6GEV, Ted DeCroff KB6PTA, and Joel Nadler KJ6LF. A big **THANKS!!** to all those who came out to participate and help make this event a success!

Look for the  
HRD Home Page  
on the World Wide Web  
<http://www.hamradio.com>

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Victory Blvd. at Buena Vista  
1 mi. west I-5

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**(800) 854-6046**  
Mark, KE60FP, Mgr.  
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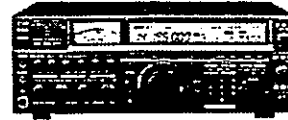
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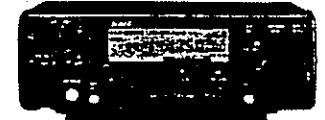
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