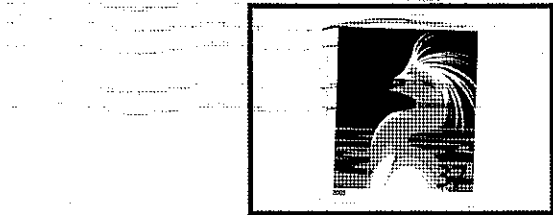


Calendar of Events			
Mar 2	Wed	5:30 PM 7:30 PM	No-Host Dinner at Coco's, 1501 Farmers Lane, Santa Rosa SCRA Meeting, Luther Burbank Art & Garden Center, 2050 Yulupa Avenue, Santa Rosa
Mar 4	Fri	7:30 PM	Marin ARC Meeting, Alto Clubhouse, 27 Shell Road, Mill Valley
Mar 5	Sat	10:00 AM	Red Oak Victory ARC Meeting, Point Richmond
Mar 9	Wed	6:30 PM	SCRA Board of Directors Meeting
Mar 15	Tues	7:30 PM	Hamilton Wireless Assoc., Bldg 549, Hamilton Field, Novato
Mar 16	Wed	7:00 PM Wed 7:30 PM	REDXA Meeting, Carrow's, Petaluma Valley of the Moon ARC Meeting, McDougall Hall, Sonoma Developmental Center, Glen Ellen.
Apr 15-17	Fri-Sun		International DX Convention, Visalia, CA. See: <a href="http://www.ncdxc.org/Ncdxc/Convention">www.ncdxc.org/Ncdxc/Convention</a>
May 14-15	Sat-Sun		EmComm West 2005, Reno, NV. See: <a href="http://www.emcommwest.org">www.emcommwest.org</a>
Jun 3-5	Fri-Sun		ARRL San Francisco Section Convention, Ferndale, CA See: <a href="http://www.humboldt-arc.org">www.humboldt-arc.org</a>

Sonoma County Radio Amateurs, Inc.  
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WD6DPE



# Short Skip

newsletter of the

## Sonoma County Radio Amateurs, Inc.

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<http://www.sonomacountyradioamateurs.com>

Club Station  
**W6LFJ**



Repeater Station  
**W6SON**

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Volume 30 Number 3

March 2005



President's Column  
by  
John Felton KE5RI  
SCRA President

Well another month has past and your editor has reminded me that the "President's Message" is due. I thought that this month I would do something different, so here comes a quiz. Some of these questions may seem to be phonies but I can assure you they are real. Let's see how you do. The answers will be presented at the next meeting. So, if you want to know how you did, you will have to come to the meeting. Here goes.

1. What is a wobulator?
2. While attending Stanford University, the Varian brothers invented the Klystron. Now, what is a Twystron?
3. For what is a "Coolidge Tube" used?
4. Describe a "gimmick" and what is its purpose.
5. General Electric once suggested that a spark coil be used in the process of tuning of an FM receiver. Why was that?
6. What is a dither motor?
7. What is the purpose of an "Austin Ring Transformer?"
8. What was Ohm's first name?
9. For what purpose did the German Navy utilize "MagAmps?"
10. OK, what is a MagAmp?
11. True or False. A lead acid battery will go dead if left sitting on a concrete floor?
12. True or False. A ballistic galvanometer is used to measure the trajectory of artillery shells.

(continued on page 8)

### ARRL's DEAN STRAW TESTIFIES ON BPL AT CALIFORNIA HEARING

ARRL staff member Dean Straw, N6BV, testified February 8 in San Francisco at a California Public Utilities Commission (CPUC) public hearing on broadband deployment--including BPL. In his nearly six-minute testimony on the draft policy decision crafted by CPUC member Susan P. Kennedy, "Broadband Deployment in California," Straw--an electrical engineer and an ARRL technical editor--decried the fact that the section of the document dealing with BPL--broadband over power line--neglected to mention the technology's disadvantages.

"I feel there is further work necessary on the sections dealing with broadband over power line--BPL," Straw testified. "There is not a single mention made of the three most significant disadvantages of BPL." These, he continued, include interference from BPL to radio receivers, interference to BPL from radio transmitters and a lack of bandwidth for expansion, especially in instances where BPL interference must be mitigated in some fashion.

"We are not opposed to Internet broadband  
(continued on page 8)

### DUES ARE DUE!

Yes, it's that time of year again. The SCRA dues for the 2005-2006 fiscal year are due. The dues are **\$24 per year for individual members** and **\$36 per year for a Family membership**. If you are a current SCRA member, a renewal envelope was included in the February issue of *Shortskip* to make it easy to send in your dues. Please take a couple of minutes and complete the membership information on the envelope flap so that we can update the roster. If the envelope is missing, please use the membership application on the inner last page. *Thanks!*

2005 Club Officials

President	John Felton	KE5RI	707 539-5831
Vice President	Kevin Alt	K6BSG	707 566-9016
Secretary	Rich Freitas	KE6SZA	707 578-9335
Treasurer	Jim Lee	KE6VGV	415 892-0317
Director	Bruce Donecker	N6CT	707 823-7969
Director	Bill Hillendahl	KH6GJV	707 544-4944
Past President	Brian Torr	N6IY	707 575-5871

Activities Chairman

Public Service Chairman

Repeater Chairman

Greg Gordon

AC6VJ

707 523-7077

Short Skip & Web Staff

Editor	Bill Hillendahl	KH6GJV	707 544-4944
Hank's Swap Shop	Jeff Basham	KK6JAB	707 542-3860
Web Master	Jeff Basham	KK6JAB	707 542-3860

Contacts

Antenna Ordinance/Legal	Lee Dibble	KE6EAQ	707 544-1675
Public Relations	Bill McCall	W6WDM	707 538-2844
Raffles			
Refreshments	Ted DeCroff	KB6PTA	707 542-4008
Volunteer Exam Liaison			
ARRL DXCC/WAS Mgr	Chuck Ternes	N6OJ	707 763-2528

SCRA Hotline

SCRA E-Mail

SCRA Web Site

707 579-9608

scra@sonomacountyradioamateurs.com

http://www.sonomacountyradioamateurs.com

Tuesday Night Net

Check in to the SCRA net each **Tuesday** evening on the **146.985-(PL 88.5)** repeater at **7:00 PM**. Announcements are made of upcoming SCRA and other amateur radio activities in the area and what is listed in Hank's Swap Shop. You will also hear the weekly *Amateur Radio Newsline* broadcast.

Short Skip Advertising Rates

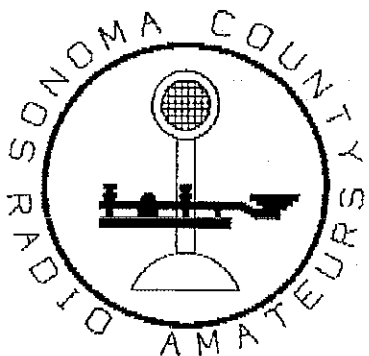
Business Cards	\$ 12
1 <sup>st</sup> Quarter Column	\$ 13
Each Addn'l Quarter Column	\$ 4
Full page (one side)	\$ 35
Pre-printed inserts (each)	\$ 35

Guaranteed circulation of 150 per month!

For more information, contact the Editor.

HUNGRY BEFORE THE MEETING?

JOIN US FOR DINNER! We meet at **Coco's** restaurant, 1501 Farmers Lane (corner of Farmers & Hwy 12), Santa Rosa. People start showing up at **5:30 PM**. No RSVP is required! See you there! (Except December!)



NEXT MEETING

March 2nd

7:30 PM

Program:

Key & Mike Night

Bring your favorites!

(see article)

CLUB MEETINGS

The club normally meets the first Wednesday of each month. This month's meeting will be at:

Luther Burbank Art & Garden Center

2050 Yulupa Avenue

Santa Rosa, CA

The meeting starts at 7:30 PM

ALL ARE WELCOME!

Please join us at our next meeting. Anyone interested in Amateur Radio may be eligible for membership. A membership application is included in this newsletter.

For more information, contact any SCRA officer, director or member.

CONTEST CORNER

by Kevin Alt, K6BSG

Hello testers. Big ones this month are the phone portion of ARRL DX contest and the CQ World Wide DX contest. How about the 10-10 Mobile Contest on 19 March? Happy DX'ing!

5 Mar - **DARC 10-Meter Digital "Corona"** - RTTY/AMTOR/PSK31/Clover. See: [www.darc.de/referate/dx/](http://www.darc.de/referate/dx/).

5-6 Mar - **ARRL International DX Contest** - Phone, 160-10 meters. See: <http://www.arrl.org/contests/rules/2005/intldx.html>.

5-6 Mar - **Open Ukraine RTTY Championship** - 160-10 meters in two separate increments. See: [www.ual.com.ua/openrtty/](http://www.ual.com.ua/openrtty/).

8 Mar - **Spartan Sprint** - CW, 80-10 meters. See: [www.arsqr.com/ars/pages/spartan\\_sprints/ss\\_rules\\_new](http://www.arsqr.com/ars/pages/spartan_sprints/ss_rules_new).

CHARLES J. TARR

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Sonoma County Radio Amateurs, Inc.

Membership Application

New [ ] Renewal [ ]

Please Print Clearly

Name \_\_\_\_\_ Call Sign \_\_\_\_\_ License Class \_\_\_\_\_ Date \_\_\_\_\_

Address \_\_\_\_\_ Hm Phone \_\_\_\_\_ Wk Phone \_\_\_\_\_

City/State \_\_\_\_\_ Zip \_\_\_\_\_ E-Mail \_\_\_\_\_

ARRL Member? [ ] Yes [ ] No

Dues & Fees: (SCRA dues year is from 3/1 to 2/28)

Individual/Associate Member \$ 24 (\$6.00/qtr)

Family Membership \$ 36 (\$9.00/qtr)

Under 18 Membership \$ 12 (\$3.00/qtr)

Badge \$ 10

Payment Calculations: Make checks payable to SCRA

Dues - Full Year (3/1 to 2/28) \$ \_\_\_\_\_

Dues - Prorated \_\_\_\_\_ Qtrs. X \$ \_\_\_\_\_/qtr \$ \_\_\_\_\_

Badge \$ \_\_\_\_\_

Other - \$ \_\_\_\_\_

Donation \$ \_\_\_\_\_

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Badge Information

Call Sign \_\_\_\_\_

First Name \_\_\_\_\_

City \_\_\_\_\_

Mail to: SCRA, P. O. Box 116, Santa Rosa, CA 95402

**KE5RI** (from page 1)

- 13 The characteristic of a capacitor to still show residual charge AFTER it has been discharged is called what?
- 14 True or False. The Heath Company's first product was an oscilloscope.
- 15 There once was a radio station in San Francisco with the call letters of KJBS. It was located on Pine street and its antenna tower was on top of the building. What company was originally in that building?
- 16 In later years, what was located in the a downstairs room of the old Sutro Mansion and what was in the living room?

OK, that's it! There are some tough questions here. Come to the meeting to find out the surprising answers. Oh, one more for bonus points.

Describe the universe and give at least two examples.

73, for now. John, KE5RI

**BPL** (from page 1)

services," Straw maintained on behalf of the Amateur Radio community at large. "We're not categorically opposed to Access BPL, but we are opposed categorically to interference."

Kennedy, who chaired the hearing, stopped Straw from reading into the record the CPUC's own cautious reply comments on the BPL proceeding, although she did say he could submit them in writing. While generally supportive of encouraging more competition within the broadband industry, the CPUC's reply comments recommended the FCC "ensure that adequate testing is performed and industry standards are developed before any deployment takes place." The CPUC also noted "significant disagreement in the industry over the level of interference."

"The statements made by the CPUC in June of 2004 in reply comments to the FCC are now being--rather incautiously, I'd say--thrown to the wind," Straw declared. The attitude toward BPL in Kennedy's broadband deployment policy document, if adopted by the full commission in its present form, would represent a 180-degree shift from its position of less than a year earlier, he said.

The broadband policy Kennedy drafted calls for California to "encourage deployment of BPL by its electric utilities by providing regulatory certainty in the areas of its affiliate transaction rules, in the treatment of BPL program expenses and revenues, and exemption from Section 851 requirements for the use of utility assets." And it says the CPUC "should adopt this policy framework proactively without waiting for an application to be filed by an electric utility for a BPL project."

Straw said the broadband policy appears to represent "a wholesale embracing" of BPL. "I urge caution in that," he said. "There is still a great deal of science that has not been done on BPL in terms of interference and interference mitigation."

In December, the ARRL suggested that Kennedy temper the "excessively optimistic" view of BPL she'd expressed in an interview. "It has yet to be demonstrated that BPL systems can be deployed without polluting the radio spectrum," ARRL CEO David Sumner, K1ZZ, wrote Kennedy December 10. "Until this issue is resolved, we respectfully suggest that public statements that paint an excessively optimistic picture of BPL are inadvisable."

From ARRL Letter

(Ed.: If you were at last year's Field Day, you met Dean Straw. He was the killer operator in the CW tent.)

**ROVARC** (from page 3)

From the Red Oak, the group headed out to the Lighthouse restaurant in Oakland where the peanuts flew and the beer flowed. After a filling repast, the group terrorized Mark and the good natured staff at HRO where some money changed hands and new toys left with the crew. Ron got the group lost in the hills of Piedmont while trying to find an ice cream shoppe. With it finally found, some of the group filled what little space was in their otherwise full tummies and raised their sugar levels significantly.

Keep an eye on SCRA's e-mail postings and listen on the nets for the next field trip. One is threatened in March.

Photo op before heading out to ROVARC and HRO

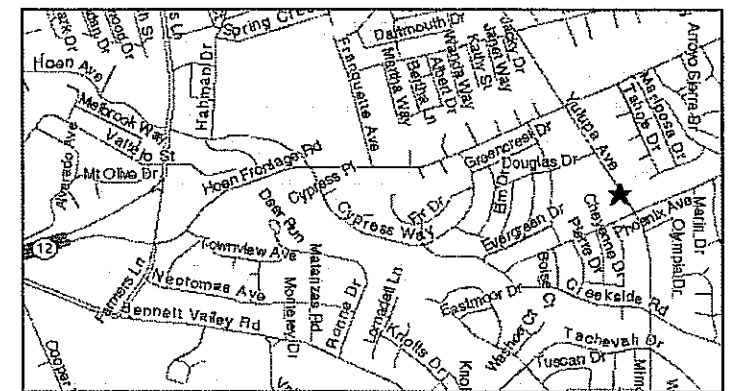
**March Program  
Key & Mike Night**

We all use them. They are the means by which our messages are conveyed from our mouths and hands to our transmitters. They come in different shapes and sizes. Some are old, some are new, and some are even homebrew. They are the code keys and microphones. If you have one that's special to you, bring it to the March meeting and show it off to others. And for those CW ops out there that are tired of using their hands to send code, there will be an opportunity to try sending with a different appendage. Hope to see you there!

**ALASKA!**

Have you thought about making a cruise to Alaska? Bill KH6GJV is putting together a cruise for July 2005 on the luxurious Holland America line departing Vancouver BC on July 17, 2005 for Anchorage, AK. The seven day cruise will head north through Ketchikan, Juneau, Skagway, Glacier Bay and on to Seward/Anchorage. Pre and post cruise tours of Vancouver, Victoria and Denali are also available.

Interested? Contact Bill for more details. 707 544-4944 or kh6gjb@arrl.net (This is not an SCRA or ARRL sponsored event.)

**MEETING LOCATION**

Luther Burbank Art & Garden, 2050 Yulupa Ave, Santa Rosa (Bennett Valley)

**Bill Waters, Jr., Ph.D., AC6MA, SK**

We are very sad to hear that Bill AC6MA has become a Silent Key. Bill lead an exceptional life involved in microwave and other research. He is survived by his wife, Kathleen, his four children and nine grandchildren. Bill was ill with multiple system atrophy, a degenerative neurological disorder. Bill was a firm believer that stem-cell research holds the answer to many cures. It was his wish that any contributions be made to the International Society of Stem Cell Research. www.isscr.org. 73, Bill. We will miss you.

**SCRA VISITS RED OAK VICTORY,  
HRO, ETC!**

On Saturday, Feb. 5<sup>th</sup>, Rich Freitas KF6SZA, Brian Torr N6IHY, Ron Gove KG6KTP, Pat Coyle KG6JSL, Dave Harrison W6IBC, Rick Reiner K6ZWB and Alice, risking life and limb, jumped in Bill Hillendahl KH6GJV's van and headed off to Point Richmond to visit the Red Oak Victory ARC at their monthly meeting. After the short meeting, the group was treated to a personalized tour by ROVARC Past Pres. Gary.

(continued on page 8)

Are you a budding author? Write an article for *Short Skip* on a Ham radio-related subject, technical or non-technical. E-mail the article to kh6gjb@arrl.net. We'd love to see YOU in print!



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**ARES Comm Log**  
by Rich Freitas KF6SZA  
Sonoma County District  
Emergency Coordinator

**Becoming Prepared**

I must admit that "writer's block" has set in this month (along with an endless list of other things that I had on my agenda that will probably never be completely addressed!) so I've decided to resurrect a previous column that I did a few years ago since it seems timely in light of the continuing series of storms we've experienced lately. In northern California, we're used to bearing the brunt of the winter Pacific storms but, lately, we've seen the serious consequences of nature unleashed in the southern part of the state. Many years ago it almost became commonplace to experience an annual flood on the Russian River but I never remembered hearing of devastating flooding in Los Angeles such as we've recently seen. Southern California was always the place you went to get away from the stormy weather - Disneyland and palm trees used to be the cure for the winter doldrums!

Preparedness is one of those things that we know we ought to do; we all want to do it, most of us never do it, and only a very few of us make a serious attempt to do it. I guess the first question to ask is "For exactly what situation am I becoming prepared"? Since it's impossible to prepare for every event, the most prudent approach is to begin small and expand your preparedness over time; that goes for both the physical items you assemble and your knowledge base.

First of all let's tackle the physical items - otherwise known as "the kit". Ready kits, go-kits, or whatever you call them, are simply a collection of items that may come in handy in an emergency. The other attribute of the kit is that it should be easily portable. Don't try to collect everything in one day. My personal kit started on a visit to K-Mart when I spotted a plastic tool box on sale. It's about 8" x 8" x 15" long and I liked it for two reasons: it has a bright yellow lid that's easy to see and it came with a flashlight that snaps to the lid top so it's always handy. Over the past year I've collected an assortment of items inside that I believe I'll find useful in time of need. Nearly every emergency manual has a list of items that the author suggests you

put in your kit... and nearly every list is different. If you've attended previous ARES face-to-face meetings, you know that the list of items can seem endless. Every time we discuss this topic I hear a few new ideas to incorporate in my kit (and I hope I've given someone a new idea, too). This column is too short to include a comprehensive list of items but let me know if you're interested and I'll be happy to give you a listing from which you can pick-and-choose.

Having a kit does not, however, mean that you're "prepared". The second part of preparedness requires some learning on your part to know what to do with the items you've assembled. It means gaining the knowledge necessary to protect yourself and your loved ones when a disaster strikes. Just as having a drawer full of paints and brushes does not mean you're an artist, having a box full of equipment does not mean you're prepared for an emergency. A major advantage of ARES is that service to our served agencies is reciprocal. While it's not a condition of service, most of our served agencies are happy to provide us with free training because it makes us more valuable volunteers; it also increases our level of preparedness. Courses in CPR, first aid, damage assessment, ..... are just a few of the training sessions available to us. An excellent place to start is with the ARRL emergency communications courses currently being offered online. Many of you have stated that the classes are always full when you try to register. Keep trying... you'll eventually get in and it's definitely worth the effort.

Preparing for emergencies is akin to preparing for retirement; you'll never get ready unless you start and most of us think we have more time than we really do!

*The ARES net meets on Mondays at 7:30 PM on the SCRA repeater on 146.985 MHz, - offset, 88.5 PL. You are invited to check in anytime.*

At the ROVARC meeting in the Officers Mess.



- Sonoma County Radio Amateurs, Inc.  
Membership Meeting, February 2, 2005  
MINUTES
- 1

Call to Order; Verification of Quorum - The meeting was called to order by President John Felton, KE5RI, at 7:35 pm at the Luther Burbank Arts and Garden Center.
- a

Introductions
- i

Officers & Directors - President, John, KE5RI, welcomed the new Board of Directors, all members, and guests.
- ii

Program Introduction - Brian Torr, N6IY - Spectrum Analyzers
- iii

Visitors - One guest was introduced
- iv

New Calls and Upgrades - Bill, KH6GJV, announced that he has received his 2<sup>nd</sup> Class Radio Telegraph License
- 2

Approval of Minutes - It was moved and seconded by Allen, K6MXI, and Dave, W6IBC, that the minutes as printed in Short Skip be approved. The motion passed.
- 3

Officer and Director Reports
- a

President - John, KE5RI, - Reported on last month's brainstorming session and the BoD planning meeting.
- b

Vice President - Kevin, K6BSG, - Nothing to report.
- c

Secretary - Rich, KF6SZA, - Nothing to report.
- d

Treasurer - Jim, KE6VGV, - Reported bank balances. Last year, excluding donations, was very close to breakeven.
- e

Directors -
- i

Bruce, N6CT, - Nothing to report.
- ii

Bill, KH6GJV, - There is a field trip to the Red Oak Victory ship, a WWII freighter at Point Richmond, this Saturday.
- f

Past President - Brian, N6IY, - Nothing to report.
- 4

Committee Reports
- a

ARES - Rich, KF6SZA, reported on the Radiogram Traffic Workshop held last month.
- b

Mobile Comm Van - Rich, KF6SZA, reported that arrangements to paint the Comm Van are in progress. Adam, KD6POC, has volunteered to help with the preparation work.
- c

Activities - The BoD will collectively handle this committee.
- d

Newsletter - Bill, KH6GJV, reported that he will do one more issue of Short Skip. Vicki, KF6ZCT, volunteered to be editor of Short Skip.
- e

Public Service - Craig, KG6THE, passed a signup sheet for events. Bill, KH6GJV, reported that the first event this year is in May. The Wine Country Century and the Human Race are on the same weekend. We also plan to support the Terrible Two and Waves to Wine events. Pat, KG6JSL, volunteered to head up the Public Service Committee.
- f

VE Liaison - Brian, N6IY, hopes to schedule a VE session in March or April providing that a location to hold the event can be found.
- g

Repeater
- i

John, KE5RI, reported that the 2M amplifier is fixed and the repeater is working very well.
- ii

Net Control Volunteers: 3/1 - Craig, KG6THE; 3/8 - Kevin, K6BSG; 3/15 - Brian, N6IY; 3/22 - TBA; 3/29 - TBA
- iii

SCRA vs NARC - John, KE5RI, reported that the resolution is moving forward.
- 5

Unfinished Business - John, KE5RI, reported the following action items for this year resulting from the brainstorming session: Distribution of Short Skip via email; Finish the "Toaster"; Technical/RFI Committee BPL Project in coordination with ARRL; Update member roster and "equipment capabilities list"; Change Membership Meeting time to 7:00 PM; Spread out the workload for committee chairs; Generic business cards
- 6

New Business - None.
- 7

Show and Tell - None.
- 8

Announcements - The next Membership Meeting is March 2<sup>nd</sup>. The next BoD meeting is at Brian Torr's house at 6:00 PM.
- 9

Adjournment - It was moved and seconded that the meeting be adjourned at 9:44 pm. The motion passed.

Sonoma County Radio Amateurs, Inc.  
Board of Directors Meeting, February 9, 2005  
MINUTES

Board Members Present: John Felton, KE5RI; Kevin Alt, K6BSG; Jim Lee, KE6VGV; Rich Freitas, KF6SZA; Bruce Donecker, N6CT; Bill Hillendahl, KH6GJV; Brian Torr, N6IY

- Guests Present: None
- 1

Call to Order; Verification of Quorum - The meeting was called to order by President John Felton, KE5RI, at 6:19 pm. The meeting was held at Brian Torr's home at 1625 Gamay Street, Santa Rosa. A quorum was present in that all seven voting board members were present.
- 2

Approval of Minutes - It was moved by Brian, N6IY, that the minutes of the 01/12/2005 meeting as printed in Short Skip be approved. The motion passed.
- 3

Officer and Director Reports
- a

President - John, KE5RI, - Nothing to report.
- b

Vice President - Kevin, K6BSG, - Nothing to report.
- c

Secretary - Rich, KF6SZA, - Nothing to report.
- d

Treasurer - Jim, KE6VGV, reported checking and savings bank balances.
- e

Directors -
- i

Bruce, N6CT, - Nothing to report.
- ii

Bill, KH6GJV, reported that Bill Waters, AC6MA, is in a care facility in Washington state. The BoD agreed to send a card to him.
- iii

Past President - Brian, N6IY, - Nothing to report.
- 4

Committee Reports
- a

ARES - Rich, KF6SZA, - Nothing to report.
- b

Mobile Comm Van - Rich, KF6SZA, reported that we have tentatively set Saturday, February 26<sup>th</sup>, at Knights' Electric, 11410 Old Redwood Hwy., Windsor, to prep the vehicle for paint.
- c

Activities - Bill, KH6GJV, reported on the successful trip to the Red Oak Victory ship. Potential future outings to IMAX in Sacramento; the Marconi station in Bolinas; and the USS Pampanito and the USS Jeremiah O'Brien in San Francisco were discussed.
- d

Newsletter - Rich, KF6SZA, reported that Vicki, KF6ZCT, has agreed to publish the newsletter with help from the BoD. The BoD will ensure that articles are submitted on time.
- e

Public Service - Pat Coyle, KG6JSL, has volunteered to be the committee chairman with Craig, KG6THE; Bill, KH6GJV; and Kevin, K6BSG providing support.
- f

VE Liaison - Brian, N6IY, - Nothing to report.
- g

Repeater -
- i

John, KE5RI, reported that the Micor® from Castle Rock has new crystals for 146.985 MHz. There currently appears to be an antenna problem. The cavities still need to be tuned.
- ii

SCRA vs NARCC Update - Discussion re: status & potential resolution of the lawsuit.
- iii

Net Control Operators - Needed for last two Tuesdays of March
- 5

Unfinished Business -
- a

Discussion of potential programs for the year.
- b

Field Day - We need a site manager for this year. Brian, N6IY, will check on availability of Youth Park; John, KE5RI will check on Spring Lake; Kevin, K6BSG, will check on Agilent.
- c

Business Cards - We will ask Vicki, KF6ZCT, to design a package for the club.
- d

Meeting Time Change - John, KE5RI, will put an article in Short Skip to give members a chance to comment on their preference. We may try a trial period.
- 6

New Business -
- a

Bill, KH6GJV, and Kevin, K6BSG, will update the list of club-owned equipment.
- b

Brian, N6IY, will take on the monthly 50/50 raffle.
- 7

Adjournment - It was moved by Bruce, N6CT, that the meeting be adjourned at 7:55 pm. The motion passed.

If you are not getting the ARRL San Francisco Section news by e-mail and you are an ARRL member, be sure to subscribe under your Members Only information or go to <http://www.arrl.org/sections/?sect=SF> or <http://www.pdarrrl.org/sfsec/>



## HSC Web Specials!

The items below can be found in the "Specials" area of our on-line shopping pages at [www.halted.com](http://www.halted.com)...check them out and use our secure site to place your order for the holidays!

Fujitsu FPG-310 Color Pen Plotter GPIO (IEEE-488) interface Boxed, w/ manual, cord, 90-day warranty HSC# 19131	Computer Power Supply, ATX, 145W HSC# 18250
Rechargeable 12VDC Battery 40 AH, lead/acid, Yuasa NPX-150R HSC# 18917	Network card, ISA bus, 10-Base T HSC# 18943
Server Cabinet, ATX rack mount, with Power Supply, White color HSC# 80541	Computer Speakers, powered HSC# 18682
Battery charger, NiMH HSC# 19151	Game-pad, Microsoft "Sidewinder" HSC# 80485
SCSI Controller, Initio, PCI Bus HSC# 18218	Compact AC Inverter for the car, 100W HSC# 19021
SCSI Controller, Adaptec 1505, ISA Bus HSC# 17995	Motherboard, 486DX1 AT HSC# 18E29
Mouse, 2-button HSC# 18731	Motherboard, Baby AT, 486VLB HSC# 19003
Mouse, w/ numeric keypad HSC# 80539	Multimeter, analog, VOM HSC# 18260
Scrolling mouse, translucent body HSC# 18829	Multimeter, DMM, with transistor check HSC# 80370
Computer Power Supply, ATX 200W "Mini-Tower"-style HSC# 18655	Multimeter, DMM, tilt-up display, nice! HSC# 80504
	Computer Joystick, "FX2000" HSC# 18772
	Tower Chassis, 7-Bay "RAID" HSC# 80544

### Disk Drive Deals!

- Seagate ST15152N 4.3 GB "Bamacleave" SCSI  
7,200 RPM, 8.09.0 ms avg seek time
  - 21 Hds, 11 Data, 3,711 Cyl.
  - Standard 50-pin SCSI
  - 3.5" size, half-height (1.5" tall)
  - Reliable, 90-day warranty
- HSC# 18412 \$32.50**
- Seagate ST19171WC, Ultra-SCSI Wide AS2
  - Formatted capacity: 9.1GB
  - Spiral speed: 7200 RPM
  - 3.5" size, half-height (1.5" tall)
  - 80-124 mb/s/sec internal transfer rate
  - Average Access (read/write): 9.7-10.7 ms
- HSC# 18753 \$39.95**
- Special... buy this drive & get a 50-pin (HSCA23700) or 68-pin (HSCA23720) Adapter for \$10.00!  
Normally a \$20 - 30 value!

### PCMCIA Goodies!

- EPSON Ethernet PCMCIA interface card
  - Both 10Base2 and 10BaseT cables included!
  - Compatible with Notebook PCs with Type II slots
  - Hot card insertion and removal - no power down
  - No jumpers or switches - Two LED status lights
  - New, boxed, diskette & manual, 90-day warranty
- HSC# 19125 \$9.95**
- Intel PRO/100 PCMCIA Network Adaptor Card
  - MBLA1600 LAN card supports 10BaseT/100BaseTX
  - For PC Card Type II sockets, 32KB packet buffer
  - Full duplex support (10Mbps networks only)
  - Ethernet Specs: IEEE 802.3 & 802.3u spec
  - With RJ45 cable, OEM packed, 90-day warranty
- HSC# 19190 \$39.50**
- Epson/Adaptec AFM460B PCMCIA SCSI Card
  - Up to 2 Mbytes/sec PC Card bus rate
  - New, OEM pack with D25 cable, 90-day warranty
- HSC# 19160 \$49.50**

### VHS Video To Go!



- "Videoelectronics" Model No VHS-105 player deck
- Dual power option! - 110VAC or 120VDC!
- Perfect for entertaining the kids in the yard!
- Many other uses: home, business, camping...
- Standard NTSC-VHS format, full front-panel controls, soft-touch buttons with LED's
- Remote control sensor on front panel - remote NOT included...may work with generic remotes?
- Removed from working service, 90-day HSC warranty

**HSC# 19048 \$19.95!**

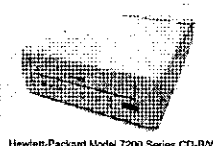
### VHS for even less!



- Magnavox Model No VHS100AT01 video player
- Standard "F" type connectors for video connection
- Push panel switch selects Ch. 3 or Ch. 4 output
- RGB jacks for line level video/audio connect
- Pulled from working service. Units have slight markings from removed infrared transmit element covering front panel infrared detector. Remote NOT included.
- For 110VAC, 60Hz operation
- Removed from working service, 90-day HSC warranty

**HSC# 19152 \$17.50!**

### External CD-R/W!



- Hewlett-Packard Model 7200 Series CD-RW
- Use just like a floppy! Shares printer port!
- Drag & drop up to 650MB on a single CD!
- 2X write on CD-RW, up to 6X read on CD-R
- 1X RW: 150KB/sec, 2X RW: 300KB/sec
- 6X Read: 900KB/sec - drives avail. at HP website
- EIDE (ATAPI) interface w/48AC, front tray load
- 74 min. on 120mm disk, 21 min. with 80mm disk
- Power supply not included (in-out provided)
- Reliability, 90-day HSC warranty

**HSC# 19036 \$49.50**

### Lab Bench Supply!

- Model No. AEEC-350, 0-50VDC @3 Amp
- 110VAC, 60Hz - 150VA - small footprint
- Dual digital meters for voltage and current
- Short-circuit protected, grounded -w- cord
- New, IEC power cord, manual, 90-day warranty

**HSC# 80606 \$139.00**

### Variable Transformers!

- One of the most useful instruments on your bench!
  - Always wanted one, but they were too expensive!
  - Two sizes to choose from, now they're affordable!
  - Both new in box, made in China
  - Model AEEC-500VR
  - 0 - 120 VAC output, 500 VA
  - Measures 6.5" x 9" x 7" tall
  - Features meter, illuminated switch, line cord, fuse
- HSC# 80474 \$45.00**

- Our most popular model!
  - Model AEEC-2000VR
  - 0 - 120 VAC output, 2000 VA
  - Measures 8" x 10" x 8.5"
  - Features meter, illuminated switch, line cord, fuse
- HSC# 80461 \$95.00**

### Solder Pots!

- Finally... we found a source for solder pots! New, 90-day HSC warranty, very handy for the workbench!
- AEEC-10P - handy compact desktop unit
  - 110VAC, 110 Watts - perfect for small jobs
  - Adjustable temp. levels - 300 to 430 deg. C
  - Both dimensions: 56mm dia x 30mm deep
- HSC# 80610 \$32.00**

## HSC Electronic Supply

Toll Free (Orders Only) 1-800-4 HALTED (1-800-442-5833)

World Wide Web: <http://www.halted.com>

3500 Ryder St.  
Santa Clara, CA 95051 408-732-1573

4837 Amber Ln.  
Sacramento, CA 95841 916-338-2545

5681 Redwood Dr.  
Rohnert Park, CA 94928 707-585-7344



For over 35 years, HSC has been your best source for high-tech goodies from Silicon Valley! Haven't visited us yet? You owe it to yourself to come see our constantly-changing, mind-boggling array of electronic parts, equipment, computers, and scientific gear! Find out why knowledgeable engineers, technicians and hobbyists make HSC their first stop for all their techno-shopping needs!

Terms: Some quantities limited; all items are subject to prior sale. Minimum order: \$10.00 plus shipping. Orders under \$20.00 subject to \$2.00 handling fee, in addition to shipping. All orders shipped FOB Santa Clara, CA (this means you pay freight) by UPS Surface (no P.O. Boxes) unless otherwise specified, in which case prevailing carrier rate plus \$5.00 handling fee may apply. Prepaid orders that don't include shipping charges will be shipped freight COD. There is a \$6.00 UPS charge added to shipping charges for COD shipments. If you have questions about your order, please call Customer Service at (408) 732-1854 M-F 9AM to 5PM PST.

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(Near Disneyland)  
933 N. Euclid St., 92801  
(714) 533-7373  
(800) 854-6046  
Janet, KL7MF, Mgr.  
anzheim@hamradio.com

**BURBANK, CA**

2416 W. Victory Bl., 91506  
(818) 842-1706  
(800) 854-6046  
Eric, KAGIHT, Mgr.  
Victory Blvd. at Buena Vista  
1 mi. west I-5  
burbank@hamradio.com

**OAKLAND, CA**

2210 Livingston St., 94606  
(510) 534-5757  
(800) 854-6046  
Mark, W17YN, Mgr.  
I-880 at 23rd Ave. ramp  
oakland@hamradio.com

**SAN DIEGO, CA**

5375 Kearny Villa Rd., 92123  
(358) 560-4900  
(800) 854-6046  
Tom, KMGK, Mgr.  
Hwy. 163 & Claremont Mesa  
sandiego@hamradio.com

**SUNNYVALE, CA**

510 Lawrence Exp. #102  
94085  
(408) 736-9496  
(800) 854-6046  
Howard, KE6PWH, Mgr.  
So. from Hwy. 101  
sunnyvale@hamradio.com

**NEW CASTLE, DE**

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1509 N. Dupont Hwy., 19720  
(302) 322-7092  
(800) 644-4476  
Jim, KA3LLT, Mgr.  
RT.13 1/4 mi. So. I-295  
newcastle@hamradio.com

**PORTLAND, OR**

11705 S.W. Pacific Hwy.  
97223  
(503) 598-0555  
(800) 854-6046  
Leon, N7IXX, Mgr.  
Tigard-93W exit  
from Hwy. 5 & 217  
portland@hamradio.com

**DENVER, CO**

8406 E. Iliiff Ave. #9, 80231  
(303) 745-7373  
(800) 444-9476  
Joe, KD0GA, Mgr.  
John, N5EHP, Mgr.  
denver@hamradio.com

**PHOENIX, AZ**

1939 W. Dunlap Ave., 85021  
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(800) 444-9476  
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1 mi. east of I-17  
phoenix@hamradio.com

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6071 Buford Hwy., 30340  
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(800) 444-7927  
Mark, KJ4VO, Mgr.  
Doraville, 1 mi. so. of I-285  
atlanta@hamradio.com

**WOODBRIIDGE, VA**

(Near Washington D.C.)  
14803 Build America Dr. 22191  
(703) 643-1063  
(800) 444-4799  
Steve, N4SR, Mgr.  
Exit 151, I-95, So. to US 1  
woodbridge@hamradio.com

**SALEM, NH**

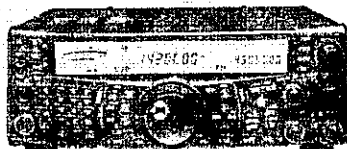
(Near Boston)  
224 N. Broadway, 03079  
(603) 896-3750  
(800) 444-0047  
Chuck, N1UC, Mgr.  
salem@hamradio.com  
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**HAM RADIO OUTLET**

WORLDWIDE DISTRIBUTION

**KENWOOD****TS-2000 HF/VHF/UHF TCVR**

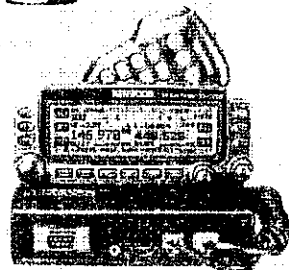
- 100W HF 6M, 2M • 50W 70CM
- 10W 1.2 GHz w/optional UT-20 module
- IF Stage DSP • Built-in TNC, DX packet cluster
- Backlit Front Key Panel

Low Intro Price!

**TH-D7A(G) 2M/440**

- 2M/440 Dual Band
- Built-in 1200/9600 Baud TNC
- APRS Compatible
- DX Packet Cluster Monitor
- 200 Memos, CTCSS
- VC-HI Messaging Control

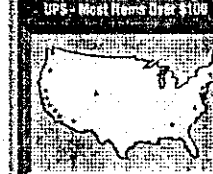
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**TM-D700A 2M/440 Dualband**

- 50W VHF 35W UHF • Opt. Voice Synthesizer
- Receives 118-1300 mHz (cell blocked)
- Remote Head Inst. only (kit included)
- 200 Memories • Built in 1200/9600 baud TNC
- Advanced APRS Features
- Dx Packet Cluster
- Tone Scan • GPS/VC-HI/PC Ports

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UPS • Most Items Under \$100



Rapid Deliveries From The Store Nearest To You!

**YAESU****VX-7R**

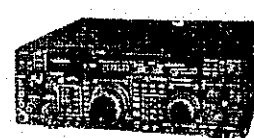
- 50/2M/220/440 HT
- Wideband RX
- 900 Memories
- 5W TX (300mw 220Mhz)
- Li-Ion Battery
- Fully Submersible to 3 ft.
- Built-in CTCSS/DCS
- Internet WIRES compatible

Great Price!

**FT-100D HF/6M/2M/70CM Trans.**

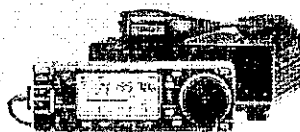
- Compact Transceiver w/detachable front panel
- Rx 100kHz to 970mHz (cell blocked)
- Tx 100W 160-6M, 50W 2M, 20W 70CM
- Built-in DSP, Vox, CW keyer
- 300 Memories

Low Pricing!

**FT-1000MP MKV HF Trans.**

- Enhanced Digital Signal Processing
- Dual RX
- Collins SSB filter built-in
- 200W, External power supply

Low Pricing!

**IC-706MkIIIG HF/VHF Transceiver**

- All mode HF/6M/2M/70CM
- 100W HF/6M, 50W/2M, 20W/440 MHz
- AF-DSP • Plug and Play Filters • No Soldering
- Easy-to-Navigate menus

Low Pricing!

**IC-756 PRO II All mode Transceiver**

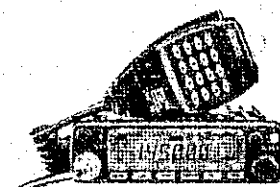
- 160-6M @ 100W • Enhanced Rx performance
- 32 bit IF DSP • SSB/CW Synchronous tuning
- Enhanced 5 inch color TFT w/spectrum scope
- Selectable IF filter shapes for SSB & CW
- Multiple DSP controlled AGC loops
- Advanced CW functions
- 101 alphanumeric memories

The Ultimate Radio!

**DJ-196T 2M/HT**

- 5 Watt out
- 40 memories
- Alphanumeric display
- CTCSS • DCS built in
- "S" meter
- Auto Dialer

Low Pricing!

**DR-135TP 2M mobile**

- 50 Watt out • Alpha numeric display
- 100 mems • Built-in TNC 1200 & 9600 Baud
- Front Panel GPS in • Rear DB-9 port
- CTCSS/DCS Encode/Decode built in

Low Pricing!