

## Calendar of Events

Jul 3	Wed	5:30 PM 7:30 PM	Dinner at Marie Callenders, 2460 Mendocino Ave, Santa Rosa <b>SCRA Meeting</b> , Agilent Technologies, 1400 Fountain Grove Prkwy, Santa Rosa
Jul 5	Fri	7:30 PM	Marin ARC Meeting, Alto Clubhouse, 27 Shell Road, Mill Valley
Jul 6	Sat	10:00 AM	Red Oak Victory ARC Meeting, Point Richmond
Jul 10	Wed	6:30 PM	SCRA Board of Directors Meeting, Roundtable Pizza - Coddington
Jul 17	Wed	7:00 PM 7:30 PM	REDXA Meeting, Carrow's, Petaluma Valley of the Moon ARC Meeting, McDougall Hall, Sonoma Developmental Center, Glen Ellen.
Jul 19	Fri	8:00 PM	San Francisco ARC; VA Medical Center, 42 <sup>nd</sup> Ave & Clement, San Francisco
Jul 20	Sat		<b>Harvest Century Ride - Healdsburg (Public Service Event)</b> See SCRAPPS article inside. Contact: John KD2L (707) 575-9176
Jul 22	Mon	7:00 PM	Willits ARS Meeting, Brooktrails Firehouse, Willits

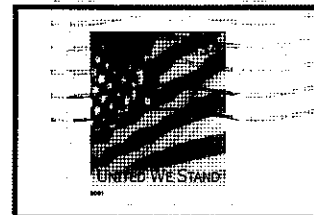
Sonoma County Radio Amateurs, Inc.

P. O. Box 116

Santa Rosa, CA 95402-0116

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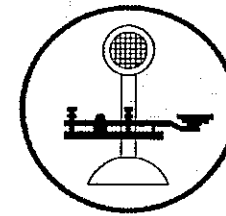
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John Breckenridge II  
574 Wild Oak Dr  
Windsor CA 95492

WB6FRZ

Club Station  
W6LFJ

## Short Skip

newsletter of the

Sonoma County Radio Amateurs, Inc.

P. O. Box 116, Santa Rosa, CA 95402-0116

(707) 579-9608

<http://www.sonomacountyradioamateurs.com>

Repeaters

146.985- • 146.73- • 224.48- • 441.375+

Repeater Station  
W6SON

Volume 27 Number 7

July 2002

## QTC

by  
Bill Hillendahl KH6GJV  
SCRA President

## Today, Why Amateur Radio?

I was skimming through CQ magazine's June 2002 edition a couple of weeks ago and came across the editorial *Zero Bias* by Rich Moseson W2VU titled "Gone Fishin'." This column is taken from that editorial and many of the points Rich made are repeated here.

As I like to talk up Ham Radio and teach classes, I many times get the question, "why Amateur Radio" with today's cell phones, FRS and GMRS radios available to the general public without the need of a license. My stock reply is that Ham Radio is like fishing. You can go to a store to buy a fish if you really want to eat one, but to catch your own fish, that's the real experience. I have read and been told that if you are fishing just to catch the fish, you have missed the point. (I won't get into my fishing skill which spawned the phrase, "You can't even buy a fish!") Kind of the same with Amateur Radio. I still am amazed at the magic of radio every time I contact a new country or make an HF contact mobile with very limited equipment and antenna. You have to work at it, but when it happens, it is magic!

We also make many friends in the hobby. Some local, some from far away places that we may never meet, but they remain our friends for years to come.

As Rich points out in his editorial, few other hobbies, like fishing and horsebackriding for example, yield new developments in technology that is taken up by commercial interests like Ham Radio. Amateur Radio's history is full of innovations that have gone on to commercial use.

(continued on page 3)

Field Day 2002  
Lots and Lots of Fun!

All under one tent - - and loving it!

Field Day 2002 was another banner event for SCRA this year. Activities Chairman Mark Lockwood KK7CU, his first time running the show, along with key project leaders, put together a memorable Field Day. Antenna Chairman Brian Torr N6IYY once again arranged a very effective array of radiators. The club used two surplus military tube towers to support the A3S and TH-6 beams. Supported between the towers was a multiband dipole complete with "visual RF indicators." (You had to be there!) Further North along the antenna line were Brian's 40 meter wire beam and an inverted V antenna. Brian also erected a rather unique antenna that many quizzed him about. When John Breckenridge WB6FRZ asked Brian what type of antenna it was, Brian replied, "Why it's a sloop, John B." (Beach Boy fans will figure this one out.)

One new feature of this Field Day exercise was the use of a military CP tent for all radio operations. The tent, provided by the local Civil Air Patrol (CAP) squadron #157, was the focal point of the event with all stations side-by-side. It also was the main gathering point for the group allowing easy observations and participation in the radio activities. Inter-station noise was kept down by use of headsets.

(continued on page 4)

## 2002 Club Officials

President	Bill Hillendahl	KH6GJV	707 544-4944
Vice President	Brian Torr	N6IY	707 575-5871
Secretary	Jeff Basham	W2JAB	707 542-3860
Treasurer	Vicki Cero	KF6ZCT	415 673-3859
Director	John Breckenridge	WB6FRZ	707 838-6398
Director	Jim Lee	KE6VGV	415 892-0317
Past President	Greg Gordon	AC6VJ	707 523-7077
Activities Chairman	Mark Lockwood	KK7CU	707 332-4836
Public Service Chairman	John Mullan	KD2L	707 575-9176
Repeater Chairman	Greg Gordon	AC6VJ	707 523-7077

## Short Skip &amp; Web Staff

Editor	Bill Hillendahl	KH6GJV	707 544-4944
Hank's Swap Shop	Jeff Basham	W2JAB	707 542-3860
Web Master	Jeff Basham	W2JAB	707 542-3860

## Contacts

Antenna Ordinance/Legal	Lee Dibble	KE6EAQ	707 544-1675
Public Relations	Bill McCall	W2WDM	707 538-2844
Raffles	Mark Lockwood	KK7CU	707 332-4836
Refreshments	Ted DeCroff	KB6PTA	707 542-4008
TV/RF Interference	Alan Bloom	N1AL	707 538-7115
Volunteer Exam Liaison	John Mullan	KD2L	707 575-9176

SCRA Hotline	707 579-9608
SCRA E-Mail	scra@sonomacountyradioamateurs.com
SCRA Web Site	http://www.sonomacountyradioamateurs.com

## Tuesday Night Net

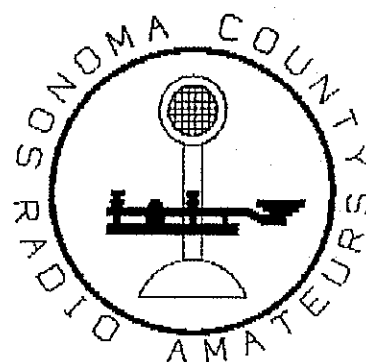
Check in to the SCRA net each **Tuesday** evening on the **146.985-(PL 88.5)** repeater at **7:00 PM**. Announcements are made of upcoming SCRA and other amateur radio activities in the area and what is listed in Hank's Swap Shop. You will also hear the weekly *Amateur Radio Newsline* broadcast.

## 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
<b>Guaranteed circulation of 200 per month!</b>	
For more information, contact the Editor.	

HUNGRY BEFORE  
THE MEETING?

JOIN US FOR DINNER! We meet at **Marie Callenders** restaurant, 2460 Mendocino Avenue (corner of Mendocino & Chanate), Santa Rosa. People start showing up at **5:30 PM**. No RSVP is required! See you there!



**NEXT MEETING**  
**July 3rd**  
**7:30 PM**

**Program:**  
**Ham Radio Jeopardy**  
**Redux**

(See article)

## CLUB MEETINGS

The club normally meets the first Wednesday of each month at:

**Agilent Technologies**  
**1400 Fountaingrove Parkway**  
**Santa Rosa, CA**

The meeting starts at 7:30 PM

**ALL ARE WELCOME!**

Please join us at our next meeting. Membership in SCRA is open to anyone interested in Amateur Radio. A membership application is included in this newsletter.

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

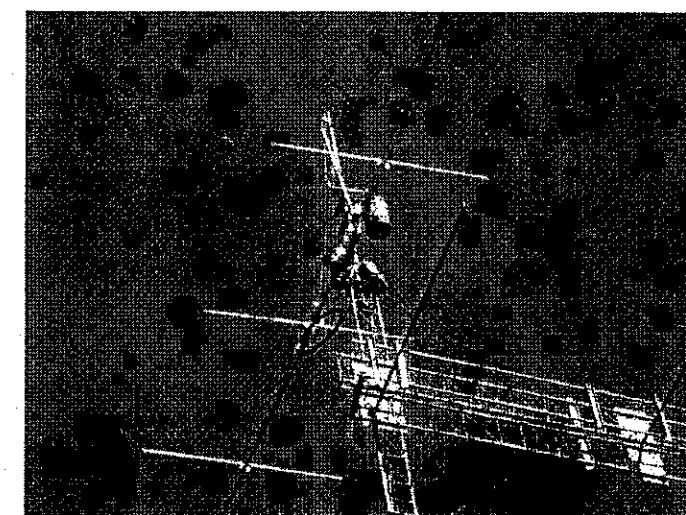
## Public Service Events Calendar

John Mullan KD2L, SCRAPS Chairman

**Jul 20** - Healdsburg Chamber of Commerce Harvest Century Ride - A low key family oriented bicycle event. Start/Finish at Healdsburg High School, several rest stops and sag wagons. Good food when you are finished.

**Sept 15** - Sonoma County Diabetes Society ride - Another low key, family oriented ride. Start/Finish at the Airport Business Park. Rest stops at the EAA hangar on Windsor Rd, at Hoofbeat Park in Healdsburg and on Starr Rd. Several sags. More good food at the end of the day.

About sag wagons for these events: given that a lot of the vehicles used for sag wagons are whatever the volunteer driver has available with a bike rack, sometimes there is not a lot of room for a radio operator as well as the driver and then bike riders and bikes. Because of this we are often seeing sags without radio operators. This is the choice of the event organizers. We wish we could get radios into each and every one of these sags. Several regular sag drivers have gotten their licenses to help out on these events. If you have the opportunity, talk up the hobby with the sag drivers without radio ops.



Bob Magnani K6QXY installing a new 6 meter beam on his EME array.

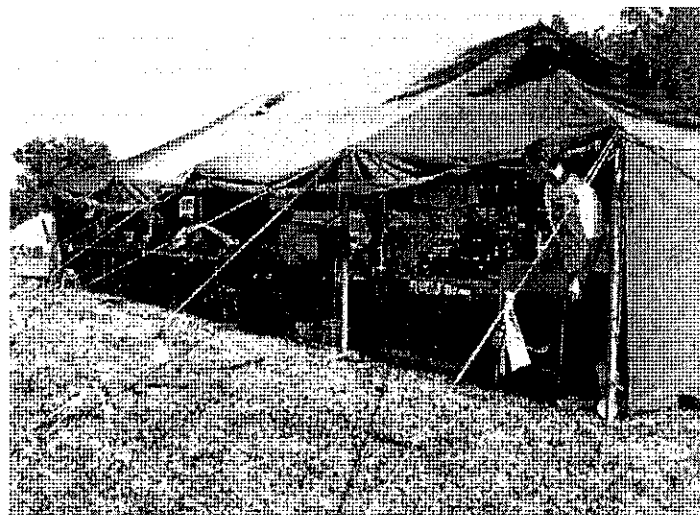
Sonoma County Radio Amateurs, Inc.		New [ ] Renewal [ ]	
Please Print Clearly			
Membership Application			
Name _____	Call Sign _____	License Class _____	Date _____
Address _____		Hm Phone _____	Wk Phone _____
City/State _____		Zip _____	E-Mail _____
ARRL Member? [ ] Yes [ ] No			
<b>Dues &amp; Fees:</b> (SCRA dues year is from 3/1 to 2/28)		<b>Payment Calculations:</b> Make checks payable to SCRA	
Individual/Associate Member	\$ 20 (\$5.00/qtr)	Dues - Full Year (3/1 to 2/28)	\$ _____
Family Membership	\$ 30 (\$7.50/qtr)	Dues -	
Under 18 Membership	\$ 10 (\$2.50/qtr)	Prorated _____ Qtrs. X \$ _____ /qtr	\$ _____
Badge	\$ 7	Badge	\$ _____
<b>Badge Information</b>		Other - _____	\$ _____
Call Sign _____		Donation	\$ _____
First Name _____		Total	\$ _____
City _____		<b>Mail to:</b> SCRA, P. O. Box 116, Santa Rosa, CA 95402	

keys/foot and fanny key (John and Brian), September-Satellites (Mark and Greg).  
 John Mullan urged us to write our congressmen and direct them to vote for the pro-ham radio bill now in congress.  
 The club calendar was not discussed.  
 The dues/member call up was discussed. Many messages were left on answering machines. Those contacted were generally unable to attend due to work, etc.

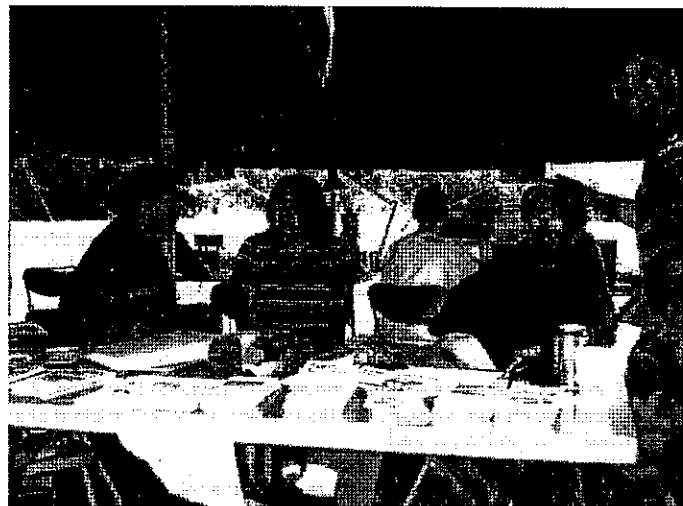
## New Business

The July Board meeting will be at 6:30 PM at the Round Table Pizza across from Coddington; 1003 Guerneville Road.  
 The meeting was adjourned at 8:56 PM.

Respectfully Submitted,  
 John Breckenridge



Back of the CP tent used for stations and observation.



Lt Trisha Lay, Sylvia Nunez, Ken Debrecht WB6NOV and Capt Tony Hamill man the public information table.



John Breckenridge WB6FRZ, center, works CW with some assistance.



Josh AD6XI checking out the GOTA station.



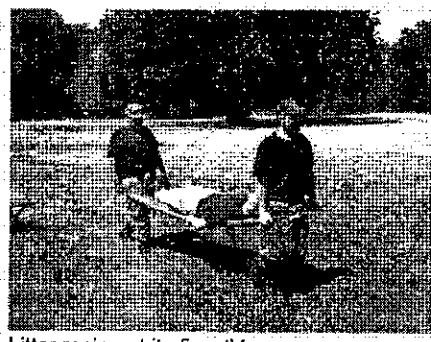
Capt Tony's tired!



Brian Torr N6IYY, right, works with CAP cadet Anna on phone.



Mark KK7CU & Kevin KG6ABB working PSK31



Litter racing at its finest!



And no one took a tumble.

## July Program Ham Radio Jeopardy - Redux

Join us on **Wednesday, July 3rd**, for a repeat of the highly entertaining and educational Ham Radio Jeopardy conducted once again by **John Breckenridge WB6FRZ** and **Brian Torr N6IYY**. This very popular program still has members talking about how much they actually new about some of the more obscure "questions." Brian and John have promised more unique and "highly desirable" prizes for the winners.

There was a record turnout for the June meeting on Field Day setup and operations. **Activities Chairman Mark Lockwood KK7CU** presented the overview of the whole event. **Antenna Guru Brian Torr N6IYY** showed the antenna layout for the weekend and **Master Chef John Mullan KD2L** provided a glimpse of the planned repast for Saturday evenings dinner and Sunday breakfast prepared by the Board.

## SCRA's Mobile Communications Unit The "Toaster"

If you have not had a chance to come by and help, make it a point to do so. The project is fun and you get to be on the ground floor of designing and building the club's mobile communications center. The "Toaster" will be able to be used at public service events, Field Day, ARES events, and, of course, true emergencies should the need arise. The vehicle will also be a good public relations device to keep Amateur Radio in the mind of the general public. **Work parties are held each Saturday from 10 AM until about Noon at Lee Dibble's home, 1290 Parsons Drive, Santa Rosa. Come and join the fun!**

**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 [kh6jiv@arrl.net](mailto:kh6jiv@arrl.net). We'd love to see YOU in print!

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### J. Mullan, Photographer

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John C. Mullan  
 Photographer

## QTC (continued from page 1)

Rich points out that packet radio was the predecessor to today's computer LANs, WANs and wireless networks. APRS is a Ham invention and it has been adapted to commercial use.

Likewise, commercial inventions have been introduced into amateur communications. The new digital audio Alinco HT has opened many eyes and interests for use in the amateur bands. Rich also points out that many of the people working on the new technologies are Hams. Could it be that their Amateur Radio experience had an influence? Rich comments that it is highly likely that they have used their knowledge, skills and problem-solving philosophy that they learned in Ham Radio in their jobs. I think that Rich is right.

Finally, why Amateur Radio today? Like the proverbial mountain to climb, because it is there. There are those of us who like to do things that are a challenge requiring more effort than the norm. So get out there and go "fishin!"

## Fresh-Tasting "Toaster" Fundraiser

By John Breckenridge, WB6FRZ

The club needs your help in a tasty fund-raiser for the "Toaster!" As many of you know, the club has taken on the project of restoring a motor home (the "Toaster") and transforming it into an effective portable communications center. To raise funds for this task, we are asking YOU to help sell coupon books for tasty deals at Fresh Choice restaurants. The price is \$5 per book and contains \$85 worth of coupon savings at any Fresh Choice restaurant. Buy several to sell or as gifts, or get one for yourself and family. Either way you win, and the community is served by making it easier for your club to complete work on this worthy project. For details, contact John Breckenridge, WB6FRZ at (707)838-6398 or come to the next club meeting.

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 Sunday Closed

Steve Basham  
 OWNER

(707) 527-6000  
 (800) 675-7557  
 Fax (707) 527-1368



## ARES Comm Log

by Rich Freitas KF6SZA  
Greater Santa Rosa  
Emergency Coordinator

On Vacation - See you next month!

## Field Day (continued from page 1)

The club's audio splitters were used so that others could sit in at a station and work or just monitor. Everyone liked being under one tent.

The club operated as a 3A station with a Get On The Air (GOTA) station. One radio was used for CW, one for PSK31, and, the remaining station and the GOTA were on phone. The club's laptops were revived prior to FD by **Mark Lockwood KK7CU** from information discovered by **Greg Gordon AC6VJ** and were used for logging.

Again this year, a number of cadets and senior members from CAP joined the club for Field Day. Headed by **CAP Capt. Tony Hamill** and senior cadet **MSgt. Zach Hamill KG6ABA**, the cadets ably assisted with setup and takedown. During Field Day, they learned about Amateur Radio and communications skills that will assist those cadets that will be working toward their CAP communications certification. The cadets spent many hours operating the stations under the supervision of licensed Hams.

But it wasn't all about radio. There was a water balloon war which yielded soggy participants and a litter race that resulted in no injuries. CAP members also took care of seeing that the American flag was properly displayed throughout the weekend.

Food was abundant during Field Day. After Friday's setup, an impromptu Pizza-fest was held leaving everyone a bit groggy from the feeding frenzy. Saturday morning brought coffee, juice, donuts, bagels and fruit for those in attendance. Saturday's lunch was hosted by SCRA President **Bill Hillendahl KH6GJV** and visitor **Tim Flourney KH6IDP** who is chairman of the Hawaiian Empire Amateur Radio Society. Gourmet tube steaks, potato salad, chips and fruit were provided for the famished troops.

Of course, the high point of the weekend was **Master Chef John Mullan KD2L's** BBQ chicken dinner with John's special beans. John reported that he slightly modified his marinade recipe which resulted in a most delicious experience. **Sue Mullan K8SUE** was John's assistant and made sure that everyone on the reservation list and newcomers were properly fed.

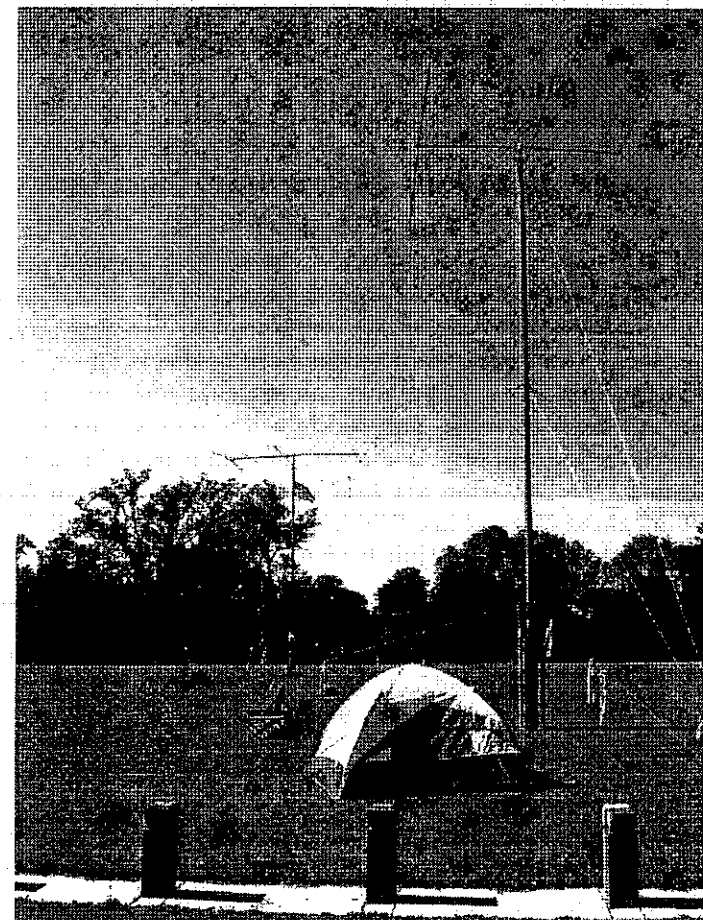
Sunday morning, as per tradition, a sausage, pancake and eggs breakfast was cooked by SCRA Board members for

the Field Day participants. This year the cooking line was streamlined so that more food could be cooked faster. Lead food mongers were **Bill McCall W6DWM**, **Bill Hillendahl KH6GJV**, **Tim Flourney KH6IDP** and **Ted DeCroff KB6PTA**. **CAP Lt Trisha Lay** jumped in and became the egg cracker to assist the cooking team. Bill and Bill engaged in the new traditional duel of the spatulas.

Field Day ended at 11 AM local time, just as it started, with a bang causing John Breckenridge to flinch. A small salute cannon was present to mark "special" times during the weekend.

Field Day photos are throughout this issue of Short Skip.

Field Day 2002 will go down in the SCRA books as one of the great ones. Participants are welcome to provide comments and suggestions at the next meeting or at the Board meeting. We'll do it again next year!



The antenna field looking North. A3S in foreground, dipole next, TH-6 on second tower and 40 meter wire beam and inverted V beyond.



RF indicators on dipole light up the field.

Sonoma County Radio Amateurs, Inc.

Membership Meeting, 5 June, 2002

- 1) Call to Order, Verification of Quorum - The meeting was called to order by President **Bill Hillendahl, KH6GJV**, at 7:35 pm at the Santa Rosa Agilent Technologies facility
  - a) Introductions
    - i) Officers & Directors - The club officers and directors introduced themselves. Secretary **Jeff Basham, W2JAB**, was excused.
    - ii) Guest Speaker - **Mark Lockwood, KK7CU**, was introduced
    - iii) Visitors - **John, KE6RI**, **Ed Smith, W6GYQ**, **Joe Senft, N6FBJ**, **Steve, KF6TJO**, **Doug Morse**, and **Max Stein** introduced themselves.
    - iv) New Calls and Upgrades - **Peter Lucent** upgraded from Technician to General.
- 2) Approval of Minutes - It was moved and seconded by **John Mullan, KD2L**, and **Sue Mullan, K8SUE**, that the minutes as printed in Short Skip be approved. The motion passed.
- 3) Officer and Director Reports
  - a) President - **Bill, KH6GJV**, reported the following
    - i) SCRA has had its ARRL Special Services Club status renewed.
    - ii) The Humboldt ARC is organizing the ARRL San Francisco Section Convention in Ferndale on January 30.
    - iii) Want to see if there is interest in seeing the IMAX movies on the ISS (International Space Station), which features amateur radio. We could carpool to wherever the movie is showing, perhaps Sacramento or San Jose, in late July.
  - b) Vice President - **Brian, N6IY**, had nothing to report.
  - c) Secretary - **Jeff, W2JAB** was excused.
  - d) Treasurer - **Vicki Cero, KF6ZCT**, presented the club's current financial status.
  - e) Directors
    - i) **John Breckenridge, WB6FRZ**, reported the following:
      - (1) The Fresh Choice coupon book fundraiser for the Rolling Toaster continues
      - (2) John is teaching a ham radio class at his house. Theory is taught from 6pm to 7pm and code from 7pm to whenever.
    - ii) **Jim Lee, KE6VGV**, passed around pictures of Alcatraz and gave a report on the trip.
    - f) Past President - **Greg AC6VJ** - Nothing to report.
  - 4) Committee Reports
    - a) ARES - **Rich KF6SZA** had nothing to report.
    - i) Rolling Toaster Communications Van - **Lee KE6EAQ** was not present. **Bill, KH6GJV** reported that Lee has been given 3-weeks notice to get the Toaster out of his garage. The new flooring will be laid either June 14<sup>th</sup> or June 17<sup>th</sup>. Please come out and help. We meet at 10am every Saturday at 1290 Parsons Dr., SR. Activities Committee - **Mark Lockwood KK7CU** had nothing to report (**Jim, KE6VGV** stole his thunder on the Alcatraz trip)
    - b) Newsletter Editor - The newsletter was mailed at relatively the same time as last month, but members received their Short Skip much earlier than last month.
    - c) Public Service - **John Mullan KD2L**, reports that we are deep in the heart of the public service season. The Two Rock & Roll event went well. He needs lots of volunteers for the Terrible Two on June 22, the same weekend as Field Day. There will be lots of traffic to pass as we keep track of ~250 riders through several checkpoints. The event starts at 7am and goes until 11pm.
    - d) Repeater Committee - **Greg, AC6VJ** reported the following:
      - i) Both 2 meter repeaters are working. English Hill is operating on 146.985 and Castle Rock on 146.73. Both use 88.5Hz PL. The 70cm repeater on Castle Rock is in standby.
      - ii) Our request for coordination on 146.985 will not be published until approximately next October (around the time of Pacificon).
      - iii) There has been some interference noticed.
    - 5) Unfinished Business - None
    - 6) New Business - None
    - 7) Member Biography - **John, WB6FRZ**, told all about how he started as an audiophile and a trip to garage sale got him interested in amateur radio.
    - 8) Show & Tell - **Josh, AD6XI**, demonstrated a lightning detector.
    - 9) Recess - There was a break from 8:15 pm to 8:38 pm
    - 10) Program - **Mark Lockwood, KK7CU**, updated the club on our plans for Field Day. We need plenty of folks for every stage of the event, especially setup and tear-down. Set up begins at 1pm on Friday, June 21, at Youth Park

on Fulton Road across from Piner High School. A video on the basics of contesting was presented.

- 11) Raffles -
    - a) Lottery - **KK6VK**, was selected for the membership lottery. He was not present and the lottery rolled over.
    - b) 50:50 Raffle - **Ted, KB6PTA**, won the 50:50 raffle.
  - 12) Announcements - The board meeting will next Wednesday, June 12, at 6:30 pm at Furniture Traditions, 3450 Airway Drive, Santa Rosa
  - 13) Adjournment - The meeting was adjourned at 9:37 pm.
- Respectfully submitted by **Brian Torr, N6IY**, acting Secretary

Sonoma County Radio Amateurs, Inc.  
Board of Directors Meeting, June 12, 2002  
Present: **Bill Hillendahl, Brian Torr, Vicki Cero, John Breckenridge, Greg Gordon**  
Excused: **Jeff Basham** Absent: **Jim Lee**  
Others: **Rich Freitas, Mark Lockwood, Bill McCall, John Mullan, Sue Mullan**  
The meeting was called to order by President **Bill Hillendahl** at 6:38 PM and a quorum was verified.  
The board minutes of May 8 could not be approved because they were not available.

## Officer & Director Reports

**Brian Torr** had nothing to report  
There was no mail or communications  
**Vicki Cero** presented a treasurer's report  
Vicki reported that her name should be added to the signature card for the club savings account  
**John Breckenridge** gave the following report:  
John presented **Vicki Cero** with a check to SCRA for \$30.73 from proceeds made from the Alcatraz tee shirt sales. The Fresh Choice fundraiser has brought in \$240, and there are 38 ticket books left. John is starting a technician and code class on Monday evenings at 6PM  
**Greg Gordon** had nothing to report

## Committee Reports

**Rich Freitas** had nothing to report on ARES. The importance of message handling practice was discussed, and that several of our activities support that practice.  
**Bill Hillendahl** reported on the Mobile Com Van. Bill and Mark will work on the floor tomorrow - invited all. Much work will ensue Saturday to prepare for moving the van.  
**Mark Lockwood** led the discussion of Field Day (as the last item of the meeting). All aspects of planning were discussed, and we're ready. **Bill McCall** reported on his work with public information for FD. **Bill McCall** sent articles to: Windsor Times, Healdsburg Times, Argus Courier (Pet. And R.P.), PD, Seb. Times, TV 50.  
The Swap Meet was discussed. With sadness, **John Breckenridge** moved that the club not have a swap meet this year, seconded by **Brian Torr**. After further discussion the motion passed unanimously.  
**Bill Hillendahl** led a discussion about the club newsletter. **Rich Freitas** presented costing information for several different methods of printing, assembling, and mailing. After discussion, **John Breckenridge** moved that we drop our Postal Service bulk mailing permit and have Superfast Copy assemble and mail our newsletters. Seconded by **Brian Torr**; motion passed unanimously. It was stated that clubs that receive our newsletter but do not reciprocate should be dropped from our mailing list. Guests at meetings should be included in the next two newsletters. Directors are to greet all guests and give them guest cards to fill out for this purpose.  
**John Mullan** reported on public service activities. All events are in good shape. Waves to Wine is scheduled for Sept. 29 and 30. **Rich Freitas** is to write an appropriate fundraising letter for the groups that we support. **Greg Gordon** reported on repeater status. Although nobody is using it, the membership wants to keep the autopatch active. Discussion ensued about the autopatch and members. We should educate our members about how to use it using a business-card sized quick reference, with the autopatch code as a write-in. We should change the autopatch code yearly.  
Tuesday net Control stations were assigned: 7/2-Greg, 7/9-Brian, 7/16-Mrk, 7/23-Bill H., 7/30-John M. or Sue M.  
Unfinished Business  
Meeting Programs were discussed and set as follows: July-Ham Radio Jeopardy (**John B.** and **Brian**), August-FISTS CW/member's code

**ANAHEIM, CA**  
(Near Disneyland)  
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Janet, K1ZMF, Mgr.  
anaheim@hamradio.com

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10000 SW 125th  
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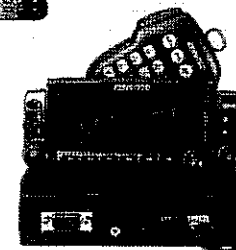
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- DX Packet Cluster Monitor
- 200 Memos., CTCSS
- VC-H1 Messaging Control

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- 50w VHF 35w UHF • Opt. Voice Synthesizer
- Receives 118-1300 MHz (cell blocked)
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**IC-706MkII** 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
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- 100W HF/6M • Newly designed 32 bit DSP
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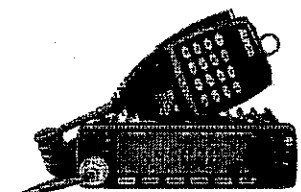
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**DJ-196T** 2M HT

- 5 Watt out
- 40 memories
- Alphanumeric Display
- CTCSS + DCS Built-in
- "S" Meter
- Auto Dialer

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- Front Panel GPS in • Rear DB-9 Port
- CTCSS/DCS Encode/Decode built in



**VX-5R**

50/2M/440HT

- Wideband RX, 6M-2M-440TX
- 5W output
- 220 memos, opt. barometer unit
- Alpha Numeric Display
- CTCSS/DCS built-in
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**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

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**FT-1000MP** HF Transceiver

- Enhanced Digital Signal Processing
- Dual RX
- Collins SSB filter built-in
- 100W, Power supply built-in

Call Now For Low Pricing!

## 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!

Fujiitsu FPG-310 Color Pen Plotter GPIB (IEEE-488) interface Boxed, w/ manual, cord, 90-day warranty HSC# 19131	Computer Power Supply, ATX, 145W HSC# 18350	\$9.95
Rechargeable 12VDC Battery 40 AH, lead/acid, Yuasa NFX-150R HSC# 18917	Network card, ISA bus, 10-Base T HSC# 18943	\$4.95
Server Cabinet, ATX rack mount, with Power Supply, White color HSC# 80541 New Price!	Computer Speakers, powered HSC# 18662	\$9.95
Battery charger, NiMH HSC# 19151	Game-pad, Microsoft "Sidewinder" HSC# 80486	\$12.50
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SCSI Controller, Adaptec 1505, ISA Bus HSC# 17995 New Price!	Motherboard, 486DX4 AT HSC# 18529 New Price!	\$9.95
Mouse, 2-button HSC# 18731	Motherboard, Baby AT, 486VLB HSC# 19003	\$9.95
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Scrolling mouse, translucent body HSC# 18829	Multimeter, DMM, with transistor check HSC# 80370	\$14.95
Computer Power Supply, ATX 200W, "Mini-Tower"-style HSC# 18665 New Price!	Multimeter, DMM, tilt-up display, nice! HSC# 80504	\$39.95
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## VHS Video To Go!



- "Microtronics" Model No. VHS-105 player deck
- Dual power option! - 110VAC or 12VDC!
- Perfect for entertaining the kids in the yard!
- Many other uses: home, business, camping
- Standard HSC 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!**

## External CD-R/W!



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

HSC# 19036 **\$49.50**

## VHS for even less!



- Magnavox Model No. VRB100AT01 video player
- Standard F type connectors for inline connection
- Rear panel switch selects Ch. 3 or Ch. 4 output
- RCA 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!**

## Lab Bench Supply!

- Model No. AEEC-250, 0-50VDC, 0.3 Amp
- 110VAC, 60Hz - 150VA - small footprint!
- Dual digital meters for voltage and current
- Short-circuit protected, grounded I-line 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-600VR
- 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 9.5"
- Features meter, illuminated switch, line cord, fuse

HSC# 80461 **\$95.00**

- 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
- Bath dimensions: 38mm. dia x 30mm. deep

HSC# 80610 **\$32.00**

## Disk Drive Deals!

- Seagate ST15150N 4.3 GB "Barracuda" SCSI
- 7200 RPM, 8.0/9.0 ms avg. seek time
- 21 Hds, 11 Disks, 3.711 Cyl
- Standard 50-pin SCSI
- 3.5" size, half-height (1.5" tall)
- Refresh, 90-day warranty

HSC# 18412 **\$32.50**

- Seagate ST19171WC Ultra-SCSI Wide ASB2
- Formatted capacity: 9.1GB
- Spindle speed: 7200 RPM
- 3.5" size, half-height (1.5" tall)
- 80-124 mb/sec external 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 notebooks/PCs with Type II slots
- Hot card insertion and removal - no power down
- No jumpers or switches - two LED status lights
- New, boxed, deluxe & manual, 90-day warranty

HSC# 19125 **\$9.95**

- Intel "PRO100" PCMCIA Network Adaptor Card
- MBLA1000LAN 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 pack, 90-day warranty

HSC# 19190 **\$39.50**

- Epson/Adaptec APN460B PCMCIA SCSI Card
- Up to 2 Mbytes/sec PC Card bus rate
- New, OEM pack with DB25 cable, 90-day warranty

HSC# 19160 **\$49.50**

## EASY NETWORK!

Multi-PC Web Access...  
Save Money!  
Up to 4 PC's on one phone line!

- Perfect for home/small business
- Share printers, send faxes, backup files
- Proxy server for multi-PC internet access!
- Only one phone line needed for ISP connection
- Includes 4-port hub/16K modem & 1 network card
- If you want more than two PC's networked, you will need more network cards (HSC# 18463 \$4.95)
- 50 ft network cable, driver/installation manual CD
- OEM package, new, 90-day warranty

HSC# 80599 **\$29.95**

- ...or, you can just buy the modern/mini-hub card!
- Comes with installation software CD
- You can connect your own 10-BaseT network PC's (up to three) to its hub and sever!
- OEM package, new, 90-day warranty

HSC# 18942 **\$17.50**

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