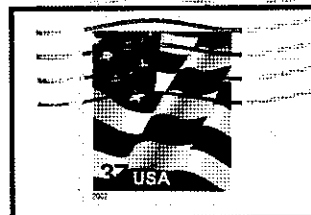


Calendar of Events

Jul 2	Wed	5:30 PM 7:30 PM	Dinner at Marie Callenders, 2460 Mendocino Ave, Santa Rosa SCRA Meeting, Agilent Technologies, 1400 Fountain Grove Prkwy, Santa Rosa
Jul 4	Fri	7:30 PM	Marin ARC Meeting, Alto Clubhouse, 27 Shell Road, Mill Valley
Jul 5	Sat	10:00 AM	Red Oak Victory ARC Meeting, Point Richmond
Jul 9	Wed	6:30 PM	SCRA Board of Directors Meeting, Agilent Technologies
Jul 15	Tues	7:30 PM	Hamilton Wireless Assoc., Bldg 549, Hamilton Field, Novato
Jul 16	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.
Jun 19	Sat		Public Service - Healdsburg Harvest Century Ride - Contact: John KD2L (707) 575-9176

Sonoma County Radio Amateurs, Inc.
P. O. Box 116
Santa Rosa, CA 95402-0116

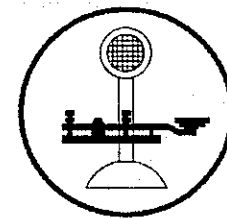
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W6LFJ

Short Skip

newsletter of the

Sonoma County Radio Amateurs, Inc.

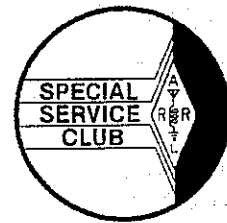
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Repeater Station
W6SON

Volume 28 Number 5

Late July 2003

QTC

by
Bill Hillendahl KH6GJV
SCRA President

Field Day
Afternotes

Field Day Is Over!

by
Josh Fiden AD6XI

It's hard to believe that Field Day is over already. After a couple of months of intense activity--arranging for radios, planning the site and antenna strategy, trying to think of all the details (and missing a few)--it seemed like just the blink of an eye and we were tearing down the towers!

I hope that everyone who attended had as much fun as I did. I only had time to make about 100 contacts, but I can tell you that all the rigs and antennas were truly first rate. It's really great to call CQ and have multiple stations coming back at you. After all was said and done, we made 1,846 QSOs!! That's more than 3-1/2 times what we did last year. What a great success!

I'm already thinking about next year and how to make it even better. We had a few problems. There were things that just didn't work out the way we planned them. But with this accomplishment under our belts I feel ready to reach for the stars.

You can also think about any personal goals for next year. I'd like to improve my code proficiency so I can work those 25-30 wpm CW contacts. I don't know if I can do it, but the first step is setting the goal.

Please tell me what you thought about our Field Day this year. Did you love it or hate it? What would you do to make it better? Drop me an email or give me a call. Your input is very important to me. See you on the air!

73,
Josh Fiden, AD6XI
Activities Chairman

Email: ad6xi@arrl.net

2003 Club Officials

President	Bill Hillendahl	KH6GJV	707 544-4944
Vice President	Brian Torr	N6IYY	707 575-5871
Secretary			
Treasurer	Jeff Basham	KK6JAB	707 542-3860
Director	Josh Fiden	AD6XI	707 874-3940
Director	Jim Lee	KE6VGV	415 892-0317
Past President	Greg Gordon	AC6VJ	707 523-7077
Activities Chairman	Josh Fiden	AD6XI	707 874-3940
Public Service Chairman	John Mullan	KD2L	707 575-9176
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	Karl Johnston	K6QMT	
Refreshments	Ted DeCroff	KB6PTA	707 542-4008
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

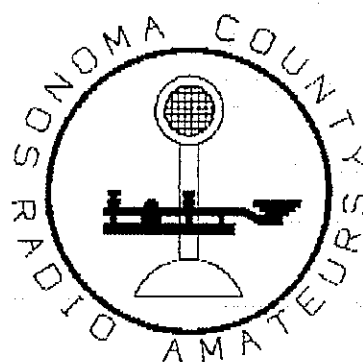
Check in to the SCRA net each **Tuesday** evening on the **146.985-(PL 88.5)** repeater at **7:00 PM**. Announcements are made of upcoming SCRA and other amateur radio activities in the area and what is listed in Hank's Swap Shop. You will also hear the weekly *Amateur Radio Newsline* broadcast.

Short Skip Advertising Rates

Business Cards	\$ 12
1" 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 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 2th
7:30 PM

Program:

Field Day - 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. Anyone interested in Amateur Radio may be eligible for membership. 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
 kd2l@pacbell.net (707) 575-9176

Jul 19 - 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.

Sep 13 & 14 - Waves to Wine

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Contest Corner by Kevin Alt K6BSG

As a new feature of Short Skip, I have agreed to provide a short paragraph on the upcoming contests of possible interest to the club members. The source for these contests will primarily be the ARRL web-site. This will be a brief summary to catch your interest. For full details, go to the web site. If you know of upcoming contests that are not listed on web site, feel free to send them to me for inclusion in this column. Here is the round-up for July:

July 12: FISTS Summer Sprint - CW. See www.fists.org.

July 12-13: IARU HF World Championship - CW/Phone, 160 - 10 meters.

July 13: QRP ARCI Summer Homebrew Sprint- CW, 160 - 10 meters. See personal.palouse.net/rfoltz/arci/arcitst.htm

July 19: Pacific 160 Meter Contest - CW/Phone.

July 19-20: North American RTTY QSO Party - 80-10 meters.

July 19-20: CQ WW VHF Contest - all modes, 6 and 2 meters.

July 22: CQC Great Colorado Gold Rush - CW, 20 meters only.

July 26-27: RSGB Islands-On-The-Air Contest - CW/Phone, 80-10 meters.

July 26-27: Kentucky QSO Party - CW/Phone, 80-10 meters.

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Sonoma County Radio Amateurs, Inc.

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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	\$ 20 (\$5.00/qtr)
Family Membership	\$ 30 (\$7.50/qtr)
Under 18 Membership	\$ 10 (\$2.50/qtr)
Badge	\$ 7

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 First Name _____
 City _____

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Make checks payable to SCRA

Dues - Full Year (3/1 to 2/28)	\$ _____
Dues -	
Prorated _____ Qtrs. X \$ _____ /qtr	\$ _____
Badge	\$ _____
Other - _____	\$ _____
Donation	\$ _____
Total	\$ _____

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

Having your Cake and Eating it too!

By Allen Ferrera K6MXI

Our meeting's 'program' this evening, 2 July 2003, left me wondering if required to choose one path over the other, which way would I want to see SCRA head? My answer is BOTH!

I think it is quite apparent that there is a great deal of diversity in the opinions of what SCRA should do and should not do for Field Day and, in the same breath, acknowledging the desire to continue to support the developing young and questioning minds of CAP cadets and youth in general.

I'd like to suggest a couple of changes that I think would satisfy both mindsets and in fact help the club grow, to prosper and succeed, and truly enrich each members participation opportunities.

I would suggest two new standing committees. One, the "Contest and Operations Program (COP) Committee" and a second "The Education & Radio Mentoring (TERM) Committee".

The COP Committee would promote contests and operation programs like Field Day, VHF-UHF Contests, pre-activity training to provide individuals with a means to hone their contesting skills and learn the protocols of contest operations. This committee would have a Chairperson who would hold the Chairperson position for up to four years and then rotate out of the Chairperson's role to that of a regular committee person. Total members... say four or five. Along with the contesting and skill building the COP Committee could invite TERM members who showed sincere and real interest in amateur radio to join with COP contests and skill building functions. Having to earn an invitation might be a great incentive to really learn and participate in amateur radio... at a higher level that would be afforded by the TERM program, as detailed below.

The TERM Committee, on the other hand, would promote the education of interested individuals such as CAP cadets by hosting "working" field trips, classroom sessions and "Elmering" of those individuals who demonstrated a "real" interest in obtaining an amateur radio license. Field trips could be similar to Field Days in that participants would erect antenna systems, operate under the same conditions available to them in a Field Day GOTA station situation, however they might be held at locations more easily accessed such as the park where prior Field Day contests were held. Additionally, individual club members could hosts "radio get-to-gethers" at their own stations for additional training, could visit "significant amateur radio stations" to see them in operation by their owners, however TERM participants would not to operate those stations... unless invited to do so by their owner. CAP cadets could be matched with an "Elmer" if he or she showed more than a casual interest in amateur radio. The TERM Committee would also address the learning needs of non-CAP cadets (the general population) and the TERM program might also include annual or semi-annual classroom visits to Sonoma County Junior High and High Schools to introduce our hobby to interested students in a relaxed and casual setting among their peers.

The COP functions could address the contesters' needs.

Meals could be catered to allow for full member participation and preclude the situation of Terrible Two pulling members in two directions (I think John, KD2L, would feel better too!) COP members could concentrate on making HUGE SCORES because they could concentrate on operating and making many "Qs" and they could plan in advance further, check out equipment compatibility on their schedule, develop a scale of expertise to better determine, and in the long run, put the right operators in the right position to maximize contest results. With regard to the goals many members felt Field Day was designed to foster, "emergency preparedness", what better way could the club accomplish this? The club would have a stronger core of seasoned operators with the facilities (both mentally and equipment wise) and man-power in numbers to meet emergency needs... and any member could participate in the COP's program to better his or her skills sets in emergency preparedness communications. No one would be excluded from participation. Those needing or wanting to grow their personal skills could do so with the assistance of a COP member.

For those members who felt that the club needed a "radio" social presence the TEAM outings would provide both an opportunity to socialize, with or without radios, would promote goodwill amongst the membership and provide a forum open to the public to see functioning amateur radio facilities. It would be at TEAM function that our Master of B-B-Q (KD2L) could flame a hot dog or broil a chicken.

The TEAM Committee could support the clubs need to have a community presence in a casual atmosphere. The club's PIO would operate in this forum as the Assistant Chairperson and a Chairperson would function for four years and then return to a general committee member. The committee would have three or four additional members if desired.

I hope that all SCRA members will give these thoughts some serious consideration. I invite your most sincere comments... be they good or be they bad... and I will try to filter thru them... un-biased... and present a summary of your comments, your concerns and, hopefully, your expansion on these ideas at a future club meeting.

I want to see SCRA grow to be a model of amateur radio at its finest! I like some members have many years invested in this hobby. A lot has changed in the almost 45 years I've have my license. I have "my" bands and "my" modes of "special interest"... but I also recognize that not everyone sees amateur radio as I do. I do hope every member will take the time to send me an E-mail... if for nothing more than to confirming that they read this far... and I hope, even more, that each member will share his or her thoughts about the concerns, the comments and suggestions I have put forth above.

73's for now. If you get this before the 4th... have a fun and safe Fourth of July... and if you get this later, I hope you all had a great day as we remember why we are so lucky to live here in the United States... even with all its problems! God Bless America!

Field Day - Redux

The July program was an informal recap of Field Day. Some photos were shown and an impromptu move made by John Mullan KD2L was played. (Great on-the-fly editing, John!) There was discussion on different members' view of Field Day.

Join us in August for an update on an old device that is still very useful in Amateur Radio. Alan Bloom N1AL will reintroduce the grid dip meter.

Sarah Davis N6FAX, SK

We are sad to report that Sarah passed away on June 10, 2003. Sarah and her husband Hank (SK) were active in SCRA for many, many years. You could generally find Sarah helping out with the raffle or in the kitchen during the swap meets. Sarah had been battling cancer.

73 & 88, Sarah. We will miss you!



Karl K6QMT, Kevin KG6ABB, Trent and Ian KG6QJG

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 kh6gju@arrl.net. We'd love to see YOU in print!



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QTC (continued from page 1)

didn't hear anyone complaining about a lack of food! It's a wonder we could take down the towers after all that food!

The proof of the location, radios and setup was the tripling of last year's number of Qs and the pleasure expressed by the group. Many thanks to everyone who helped in the planning, execution and clean-up of this year's memorable Field Day. Photos of some of those memories taken by Josh Fiden AD6XI, Tim Flournoy KH6IDP and Brian Torr N6IYY are included here for your enjoyment.

Post-Field Day discussions have revealed a slight divergence of member goals for the annual event. Is a high score the primary goal? Is the purpose to attract new people to the hobby? Is it about introducing members to contesting? Is it supposed to be a major social event? Is it about educating the general public? How about an emergency communications exercise? Is it some combination of all of the above?

Historically for SCRA, Field Day has been pretty much a combination of all of the above. During one discussion a member asked what was the stated purpose of SCRA. A quick look at Article II of the SCRA Constitution (soon to be on the website) identifies what SCRA is all about, pretty much all of the above.

What emphasis future SCRA Field Days will take on will depend on what the majority of the members desire. Please think about what you want Field Day to be. Planning for the next Field Day will begin after the first of the year.

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ARES Comm Log

by Rich Freitas KF6SZA
Sonoma County District
Emergency Coordinator

ARES, SET and GPS

First of all, what is GPS? GPS stands for "Global Positioning System," a series of two dozen satellites in low Earth orbit that continuously broadcast their position. GPS receivers are able to triangulate on these signals and determine your location on the Earth's surface. Once you enter coordinates into a GPS receiver, the receiver can tell you how far away the location is and in what direction it lies.

There's an axiom that states, "Wherever you go, there you are." But where is here? How far away is there? And can you get there from here? Answers to these questions were made clearer when former President Bill Clinton removed the encryption from Global Position System (GPS) units. When the Department of Defense started launching GPS satellites in the 1980s, it provided two classes of service: signals with an accuracy of 10 to 20 meters for military users and a degraded (dithered) signal available to civil users with an accuracy of 100 meters. That policy was meant to prevent potential adversaries from using the GPS technology to launch attacks against U.S. forces or targets. However, the degradation of the civil GPS signal was removed because officials determined it would have a "minimal impact on national security."

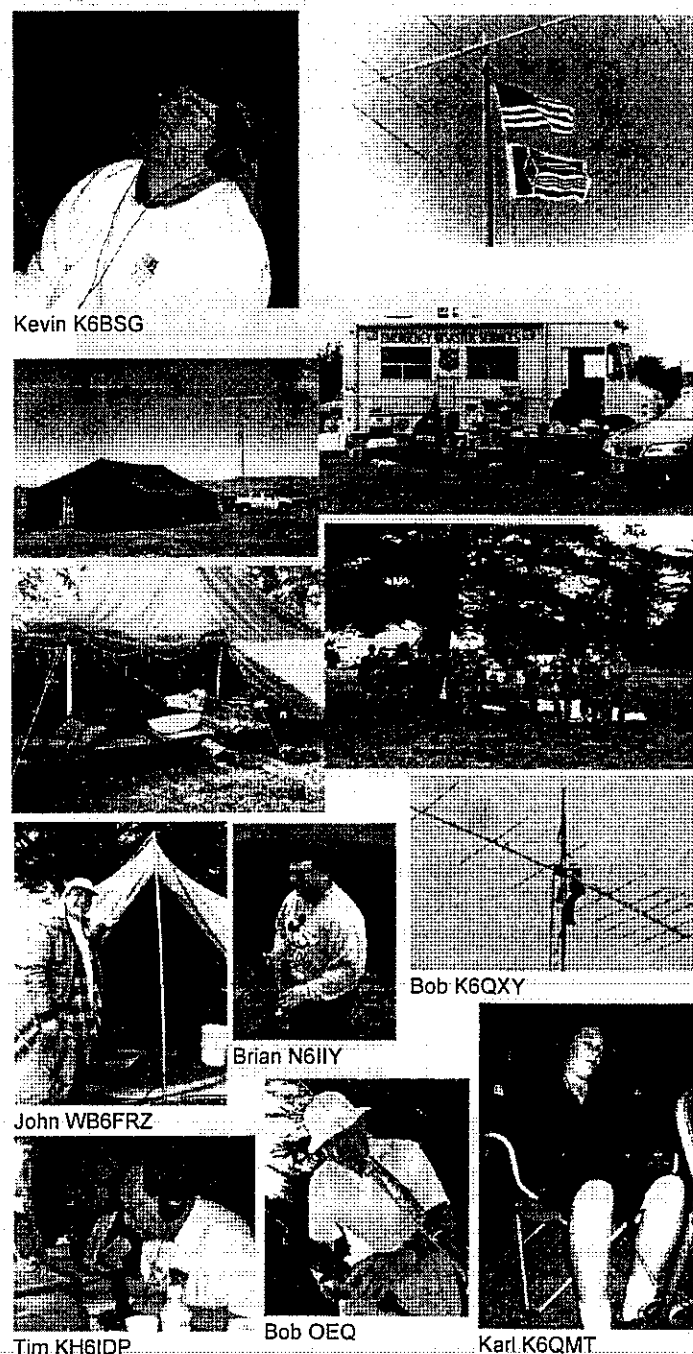
With the availability of the accurate GPS signals a new sport called 'geocaching' has formed. It has been called everything from high-tech hide-and-seek, global scavenger or stash hunting to a modern version of the classic Easter egg hunt. Simply put, geocaching is treasure hunting for the 21st century. Armed with a GPS receiver, a set of coordinates that tell you the location of a cache, and a healthy sense of adventure, participants go out and look for caches of goodies hidden by other geocachers. After you get the coordinates and enter them into your GPS, you are ready to get started. Even with the cache coordinates and a GPS unit, there can still be a bit of searching involved. Since the GPS navigates in a straight line, or "as the crow flies", you may have terrain obstacles to navigate around. The most direct path is not always the best path! As you head towards the cache coordinates, your unit will display the range and direction (bearing) to the spot. However, knowing that a cache is, for example, .32 miles northwest of you doesn't do you much good if there's an impassible cliff, a lake, or something else in your way. You need to find your way around. Of course, if you brought a kayak with you, a lake might not be a barrier.

How are we going to incorporate GPS and geocaching into the next SET? Easy! As in the past, SET participants will not know the scenario until just before the event. Participants will be formed into teams who will be either 'mobile teams' or 'command post'; you can take your choice depending on the amount of exercise you want although NO team will have to do any strenuous hiking. The mobile teams will be equipped with a GPS device and they will be given coordinates to find. They will

be periodically reporting their progress and position to the command post and, when they find the 'cache' they will find specific messages to report to relay.

This exercise has a lot of parallels with SAR (Search And Rescue) events. To prepare you for the SET we will have an ARES Face-To-Face on Monday, July 7th, 7:00 PM, at Lee Dibble's house. The actual SET will take place on Saturday, July 26th, at 9:00 AM; specifics will follow. It is extremely important that you attend this meeting if you wish to participate in the SET. We will be conducting some training on GPS and get an idea as to how many teams we will be able to accommodate. If you wish to participate and are not on the ARES email reflector, please let me know so I can keep you informed of our plans.

The weekly ARES net for the greater Santa Rosa area meets on Mondays at 7:30 PM, on the ARES repeater on 146.835 MHz, - offset, 88.5 PL; it is also linked to the ARES repeater on 444.900 MHz, + offset, 88.5 PL. Please join us.



Tim KH6IDP

Bob OEQ

Karl K6QMT

Sonoma County Radio Amateurs, Inc.
Membership Meeting 6-4-2003

MINUTES

- i. Call to Order, Verification of Quorum - The meeting was called to order by President Bill Hillendahl KH6GJV at 7:32 PM at the Santa Rosa Agilent Technologies facility. There were more than 47 people present.
 - a. Introductions
 - i. Officers & Directors - The club officers and directors introduced themselves.
 - ii. Guest Speakers/Program - Ham Radio Squares
 - iii. Visitors - There were several visitors.
 - iv. New Calls & Upgrades - None
 - ii. Approval of Minutes - John Felton KE5RI moved that the minutes of the May 7, 2003, be approved as printed in Shortskip. The motion passed.
 - iii. Officer & Director Reports
 - i. President - Bill Hillendahl KH6GJV - Nothing to report.
 - ii. Vice President - Brian Torr N6IY - Nothing to report.
 - iii. Secretary - no report
 - iv. Treasurer - Jeff Basham KK6JAB - Jeff reported the account balances.
 - v. Directors -
 - i. Josh Fiden AD6XI - Nothing to report.
 - ii. Jim Lee KE6VGV - Jim reported on the May NARCC meeting.
 - Past President - Greg Gordon AC6VJ - Nothing to report.
 4. Committee Reports
 - a. ARES - Rich Freitas KF6SZA - Rich reported on the upcoming SET and the July 7th face-to-face meeting on using GPS. GPS will be used in the SET. Rich also advised the MOU with the Blood Bank of the Redwoods had been signed and that they were setting up an EmComm station.
 - b. Mobile Comm Van - Greg Gordon AC6VJ - Greg advised that the Toaster was in the parking lot for members to see.
 - c. Activities Committee - Josh Fiden AD6XI - Josh reminded members to mark their calendar for the club picnic on September 20th.
 - d. Newsletter - Bill Hillendahl KH6GJV - Bill said that he hopes to have Short Skip available in a .pdf format soon after he learns how to use the software.
 - e. Public Service & VE - John Mullan KD2L - John reminded the group that the Terrible Two bike ride was on 8/28, Field Day weekend. He asked that members work a shift as well as participate at Field Day.
 - f. Repeater Committee - Greg Gordon AC6VJ
 - d. Net control volunteers - Greg requested Net Control volunteers.
 - e. Status of Repeaters - Greg gave a list of the systems that can be linked to SCRA operated repeaters. He reported on the work party effort.
 - f. SCRA v NARCC - Greg reported on the status of the case.
 5. Unfinished Business - Brian Torr N6IY reported on the progress of the roster.
 6. New Business - None
 7. Member Biography - Bob Olsten WD6DPE volunteered to talk about his entry into Amateur Radio. Bob has been involved since 1938.
 8. Show and Tell - Skipped
 9. Recess - a recess was held from 8:15 PM until 8:40 PM
 10. Program - Activities Chairman Josh Fiden AD6XI discussed the Field Day layout and preparations for English Hill.
 11. Raffle
 1. 50/50 - Al Ferrera K6MXI split \$14 with the club; he donated it back to the club.
 2. Membership - Lost by Charlie Carniglia KK6WN
 12. Announcements
 1. Next Program - tba
 2. Board Meeting is next Wednesday at 6:30 PM at Agilent.
 3. ARRL San Francisco Section Convention, Ferndale - June 20 - 22.
 13. Adjournment - There being no objections, the meeting was adjourned at 9:45 PM

Sonoma County Radio Amateurs, Inc.
Board of Directors Meeting 6-11-2003

MINUTES

- Board Members Present: Bill Hillendahl KH6GJV, Brian Torr N6IY, Jeff Basham KK6JAB, Josh Fiden AX6XI and Jim Lee KE6VGV.
Members Excused: Greg Gordon AC6VJ
Guests Present: Rich Freitas KF6SZA
7. Call to Order, Verification of Quorum, Introductions - The meeting was called to order by President Bill Hillendahl KH6GJV at 6:40PM. The meeting was held at Agilent Technologies, 1400 Fountaingrove Parkway, Santa Rosa. A quorum was present in that six of the seven voting board members were present.
 8. Approval of Minutes - Brian N6IY moved that the minutes of the 5-14-03 meeting be approved as submitted. The motion passed.
 9. Officer & Director Reports
 - a. President - Bill KH6GJV - Nothing to report.
 - b. Vice President - Brian N6IY - Nothing to report.
 - c. Secretary - office vacant
 - d. Treasurer - Jeff KK6JAB - Jeff reported the account balances.
 - e. Directors
 - ii Josh AD6XI - Nothing to report.
 - ii Jim KE6VGV - Nothing to report.
 - f. Past President - Greg AC6VJ - Not present.
 10. Committee Reports
 - a. ARES - Rich KF6SZA - Rich reported on the Blood Bank of the Redwoods MOU and equipment, the upcoming face-to-face meeting and the SET.
 - b. Mobile Comm Van - Greg AC6VJ - Bill KH6GJV moved that the insurance policy with Sate Farm be renewed for six months at a cost of \$240.83. The motion passed.
 - c. Activities Committee - Josh AD6XI
 - ii Field Day - Josh updated the Field Day planning.
 - ii The club picnic - September 20th at Lee Dibble's home, Noon to 3 PM - Details were discussed. We need to check with John KD2L to see if it conflicts with the Waves to Wine ride.
 - d. Newsletter - Bill KH6GJV - Nothing to report.
 - e. Public Service & VE - John KD2L - Not present. Future events: 6/28 Terrible Two; 7/19 Harvest Century; 9/? Wave to Wine; 10/12 Diabetes Society.
 - f. Repeaters - Greg AC6VJ Not present for report.
 - ii Status of Repeaters - no report
 - ii Legal update - in executive session.
 - ii Weekly Net Control - 7/1 - AC6VJ; 7/8 - AD6XI; 7/15 - N6IY; 7/22 - tba; 7/29 - tba
 11. Unfinished Business
 - a. Meeting Programs

January - ARIS	July - Al Bloom N1AL on Grid Dip Meters?
February - Hollowstate Devices	August -
March- Stealth Antennas	September -
April "Homebrew Night"	October -
May-Ham Radio Squares	November - Elections & Repeaters
June - "Field Day" & Contesting	December - "Christmas Party" & Photos
 - b. Club Calendar - No changes
 - c. 2003 Budget - Deferred to the next meeting.
 12. New Business - None.
 13. Executive Session - Legal issue.
 14. Announcements - None.
 15. Adjournment - The meeting was adjourned at ended at 7:20 PM.

HSC Web Specials!

The items below can be found in the "Specials" area of our on-line shopping pages at 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# 18350	\$47.50	\$9.95
Rechargeable 12VDC Battery 40 AH, lead/acid, Yuasa NPX-150R HSC# 18917	Network card, ISA bus, 10-Base T HSC# 18943	\$29.50	\$4.95
Server Cabinet, ATX rack mount, with Power Supply, White color HSC# 80541	Computer Speakers, powered HSC# 18662	New Price!	\$9.95
Battery charger, NiMH HSC# 19151	Game-pad, Microsoft "Sidewinder" HSC# 80486	\$17.50	\$12.50
SCSI Controller, Initio, PCI Bus HSC# 18218	Compact AC inverter for the car, 100W HSC# 19021	New Price!	\$14.95
SCSI Controller, Adaptec 1505, ISA Bus HSC# 17995	Motherboard, 486DX4 AT HSC# 18529	New Price!	\$9.95
Mouse, 2-button HSC# 18731	Motherboard, Baby AT, 486VLB HSC# 19003	\$7.50	\$9.95
Mouse, w/ numeric keypad HSC# 80539	Multimeter, analog, VOM HSC# 18260	\$9.95	\$9.95
Scrolling mouse, translucent body HSC# 18829	Multimeter, DMM, with transistor check HSC# 80370	\$9.50	\$14.95
Computer Power Supply, ATX 200W, "Mini-Tower"-style HSC# 18655	Multimeter, DMM, tilt-up display, nice! HSC# 80504	New Price!	\$39.95
	Computer Joystick, "FX2000" HSC# 18772	\$14.95	\$3.00
	Tower Chassis, 7-Bay "RAID" HSC# 80544		\$42.50

Disk Drive Deals!

- Seagate ST15160N 4.3 GB "Barracuda" SCSI
7,200 RPM, 8,000.0 mm avg. seek time
21 Hds, 11 Dths, 3,711 Cyl.
Standard 50-pin SCSI
3.5" size, half-height (1.5" tall)
Rebates, 90-day warranty
HSC# 18412 \$32.50
 - Seagate ST19171WC, Ultra
SCSI Wide ASA2
Formatted capacity: 9.1GB
Spindle speed: 7200 RPM
3.5" size, half-height (1.5" tall)
90-124 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 66-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, diskette & manual, 90-day warranty
HSC# 19125 \$9.95
- Intel "PRO/100" PCMCIA Network Adapter Card
MSL 1000 LAN cards 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 APM4600 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

VHS Video To Go!



- "Videotronics" Model No. VHS-109 player deck
- Dual power option! - 110VAC or 120VDC!
- Perfect for entering 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!

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-R
- 2X write on CD-R/W, up to 6X read on CD-R
- 1X RW: 160KB/sec, 2X RW: 300KB/sec
- 6X Read: 900KB/sec - drivers avail. at HP website
- EIDE (ATAPI) interface w/MMC front bay load
- 74 min. on 120min disk, 21 min. with 80min disk
- Power supply not included (pinout provided)
- Refurbished, 90-day HSC warranty

HSC# 19036 \$49.50

VHS for even less!



- Magnetics Model No. VHS100AT01 video player
- Standard "F" type connectors for inline connection
- Four-panel switch selects Ch. 3 or Ch. 4 output
- NTSC (pins 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-360, 0-50VDC @ 3 Amp
- 110VAC, 60Hz - 150VA - small footprint!
- Dual digital meters for voltage and current
- Short-circuit protected, grounded 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-500VR
- 0 - 120 VAC output, 500 VA
- Measures 6.5" x 9" x 7" tall
- Fuses/meter, illuminated switch, line cord, fuse

HSC# 80474 \$45.00

EASY NETWORK!

Multi-PC Web Access...

Save Money!

Up to 4 PC's on one phone line!

- Perfect for home/small businesses
- 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/DSL modem & 1 network card
- If you want more than two PC's networked, you will need more network cards (HSC# 18493 \$4.95)
- 50' network cable, driver/installation manual CD
- OEM package, new, 90-day warranty

HSC# 80599 \$29.95

- ...or you can just buy the modem/hub-card!
- Comes with installation software CD
- You can connect your own 10-Base-T network PC's (up to three) to its hub and save!
- OEM package, new, 90-day warranty

HSC# 18942 \$17.50

Our most popular model!

- Model AEEC-2090VR
- 0 - 120 VAC output, 2KW
- Measures 8" x 10" x 9.5"
- Fuses/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: 36mm dia x 30mm deep

HSC# 80610 \$32.00

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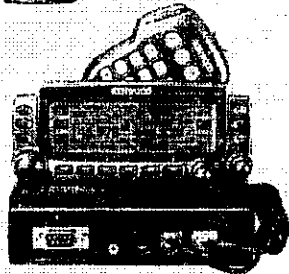
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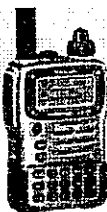
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FT-100D HF/6M/2M/70CM Trans.

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IC-706MKIIG HF/VHF Transceiver

- All mode HF/6M/2M/70CM
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- AF-DSP • Plug and Play Filters - No Soldering
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IC-756 PRO II All mode Transceiver

- 160-6M @ 100W • Enhanced Rx performance
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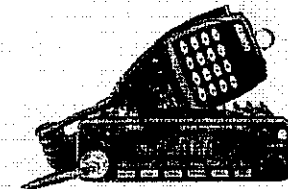
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