

Calendar of Events

Jul 6	Fri	7:30 PM	Marin ARC Meeting, Alto Clubhouse, 27 Shell Road, Mill Valley
Jul 7	Sat	10:00 AM	Red Oak Victory ARC Meeting, Point Richmond
Jul 11	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 18	Wed	6:30 PM	SCRA Board of Directors Meeting, 3450 Airway Dr., Santa Rosa
Jul 18	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 20	Fri	8:00 PM	San Francisco ARC; VA Medical Center, 42 <sup>nd</sup> Ave & Clement, San Francisco
Jul 21	Sat	9:00 AM	VE Session, Agilent Technologies, 1400 Fountaingrove Parkway, Santa Rosa PUBLIC SERVICE EVENT: Healdsburg Harvest Century
Jul 23	Mon	7:00 PM	Willits ARS Meeting, Brooktrails Firehouse, Willits

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

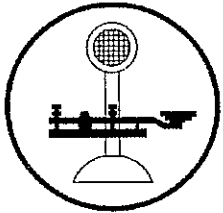
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WB6FRZ

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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

146.73- • 224.48- • 441.375+



Repeater Station  
W6SON

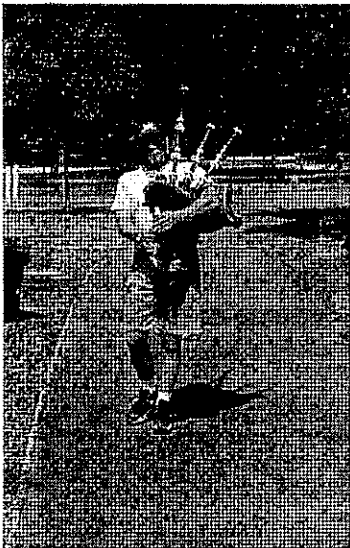
Volume 26 Number 7

July 2001

FIELD DAY!



Field Day 2001 started off Friday afternoon with antenna guru **Brian Torr N6IYY** laying out the antenna pattern that he designed that has worked quite well for several years. The addition this year was a second tubular crank-up tower so that both beams were on rotatable structures. The 3A station consisted of three regular phone or CW tents and the Novice/Tech station that was manned headed up by **Bill McCall W6WDM**.



Greg Brahms WB6UHH pipes in the start of Field Day 2001

Setup of the antennas, tents and stations seemed to take place in record time and pizza was ordered and consumed long before the sun went down. Several brave souls stayed over Friday evening and warmed up their operating skills for the contest.

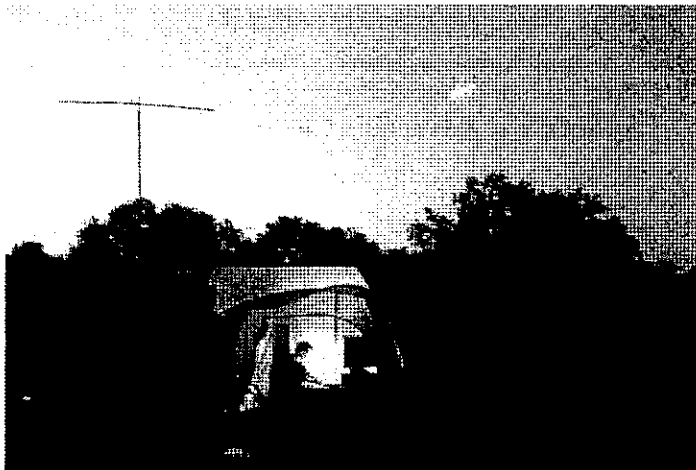
SPECIAL MEETING DAY!  
Wednesday, July 11

Due to our meeting day falling on our country's Independence Day celebration, the meeting has been pushed off a week to Wednesday, July 11<sup>th</sup>. Same place; same time. See you at the meeting!

The official start of Field Day was piped in by **Greg Brahms WB6UHH** who dazzled those in attendance with his mastery of the bagpipes.

Phone and CW station captains **Al Bloom N1AL**, **John Breckenridge WB6FRZ** and **Brian Torr N6IYY** kept things hopping on the air. Their stations were manned by both experienced and novice operators who had plenty of guidance to rack up the contact points. To add a bit of light to the operating field, a couple of four foot fluorescent tubes were tied to the dipole in use which gave a great demonstration of tuning and VU metering of the voltage wave on the antenna.

(continued on page 8)



Brian Torr N6IYY operates lighting up the fluorescent tubes attached to the dipole for "visual effect"

## 2001 Club Officials

President	Greg Gordon	AC6VJ	707 523-7077
Vice President	Bill Hillendahl	KH6GJV	707 544-4944
Secretary	Jeff Basham	W2JAB	707 542-3860
Treasurer	Jim Lee	KE6VGV	415 892-0317
Director	Rich Freitas	KF6SZA	707 578-9335
Director	John Mullan	KD2L	707 575-9176
Past President	Rick Reiner	K6ZWB	707 575-4455
Activities Chairman	Bill McCall	W6WDM	707 538-2844
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
Editor	Bill McCall	W6WDM	707 538-2844
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	Brain Lukrich	KG6AQT	707 527-0795
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

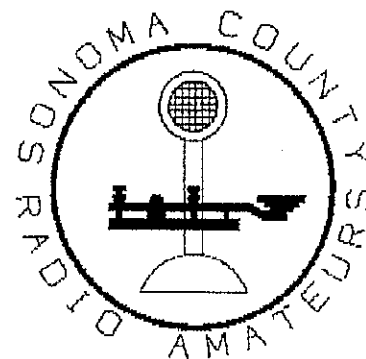
**SCRA Hotline** 707 579-9608  
**SCRA E-Mail** [scra@sonomacountyradioamateurs.com](mailto:scra@sonomacountyradioamateurs.com)  
**SCRA Web Site** <http://www.sonomacountyradioamateurs.com>

## Tuesday Night Net

Check in to the SCRA net each **Tuesday** evening on the **146.73-(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.	



## 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.

## NEXT MEETING

July 11th

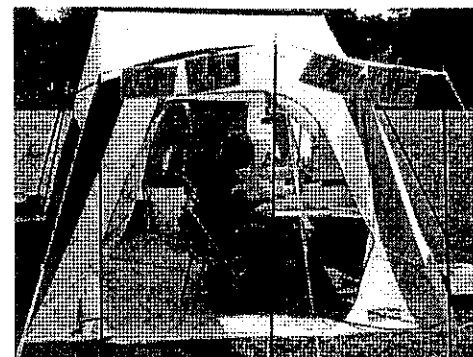
7:30 PM

Program:

**Antennas Explained**  
 with John Breckenridge WB6FRZ  
 (see article for details)

## 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!



Operators hard at work

Saturday's capstone was the superb BBQ expertly prepared once again by John Mullan KD2L and Sue Mullan K8SUE.



Bill McCall W6WDM taking a break

The operating was fast and furious. There were barely any breaks in operating until Saturday dinner and the wee hours.



Bill W6WDM & Bill KH6GJV duel over who is going to flip the hotcakes while preparing Sunday's breakfast

Jeff W2JAB reports that SCRA racked up a score of 3064 points.

More next month.

FD photos by David French



John KG6BHI, John KD2L & Al WA6MX1



Jeff W2JAB, Randy KE6VMZ, Vicki KF6SZT & Patti KG6GFR

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 \_\_\_\_\_

**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
ARRL Dues (over 65)	\$ 34 (\$28)

When renewing your ARRL membership, please do it through SCRA. We get to keep \$2 for each SCRA member. *Thanks!*

**Payment Calculations:**

Make checks payable to SCRA

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

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

## Badge Information

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

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

City \_\_\_\_\_

## Autoslot Request:

Licensed SCRA members are able to request an auto-dialing "autoslot" for the repeater phone patch. Complete the information below and send the form to the club.

Name \_\_\_\_\_ Call \_\_\_\_\_

Phone # for slot \_\_\_\_\_

- iii. Status of Mediation with Jim Maxwell - Greg said that Jim Maxwell would like to meet with the board again. Jim Maxwell proposed to Greg for a meeting on July 11<sup>th</sup>, which does not work. Greg will get other dates from Jim, and the board will decide via email. Discussion took place regarding various repeater issues.
- iv. Repeater Control Operator Finalization - Greg and Jeff W2JAB presented the final slate for the Repeater Committee candidates. Greg moved that this list, along with the additions at the meeting be accepted as the Repeater Committee for the remainder of 2001. The motion carried. The 2001 Repeater Committee shall be: Greg Gordon AC6VJ (chair), Jeff Basham W2JAB (control operator), Randy Black KE6VMZ (control operator), Vicki Cero KF6ZCT (control operator), Rich Freitas KF6SZA (control operator), Zach Hamill KG6ABA (control operator), John Hart KG6BHI (control operator), Bill Hillendahl (control operator), Brian Lukrich KG6AQT (control operator), John Mullan KD2L (control operator), Sue Mullan K8SUE (control operator).
5. Unfinished Business
  - a. Meeting Programs - July - ARRL Antenna Video w/ John Breckenridge WB6FRZ, August - Radio Video featuring Bob K6QXY (possible), September - Dr. George Rothbart, Inventor of the Internet Repeater, Oct - Spectrum Analyzers with Brian Torr N6IY, Nov - Elections, Dec - Christmas Party.
  - b. Club Calendar - No Changes.
6. New Business - There was no new business.
7. Announcements - Brian N6IY announced the following general meeting schedule changes:
  - NEXT MONTH'S MEETINGS DELAYED BY 1 WEEK.
  - II Membership - July 11, 2001
  - II BoD - July 18, 2001
8. Adjournment - The meeting was adjourned at 8:40 PM

### Public Service Events Calendar

John Mullan KD2L, SCRAPs Chairman  
(707) 575-9176 kd2l@pacbell.net

#### July 8 - Half Vineman

A half distance triathlon, starts with a dip in the Russian River at Guerneville. Then a bicycle ride of ~50 miles around Sonoma County, followed by a half marathon (13 miles, 195 yards) Start last year was at Johnsons Beach, finished at Windsor H.S. 3 observers at beach, 8 bike course rest stops, 5 run course rest stops; possible sag wagons

#### July 21 - Healdsburg Harvest Century

Healdsburg Chamber of Commerce. Family oriented 100km (and shorter variants) bike ride around Healdsburg. Start/Finish at Healdsburg Elementary school; 4-5 rest stops; 4-5 sag wagons

#### August 11 - Vineman

Full distance triathlon, see description of Half Vineman and double all the distances. Starts early in the day (6:30 AM) and goes until 10:00 PM; 3 observers at beach, 8 bike course rest stops, 5 run course rest stops, possible sag wagons

#### Sept 28 & 30 - Waves to Wine

A two day bike ride to benefit the Northern California MS Society. This event raises many dollars for MS research. Headquarters is at the Luther Burbank Center in Larkfield. Saturday is a ride of varying distances through western Sonoma County (Waves). Sunday is a ride, again of varying distance, through northern Sonoma County (Wine). 10 rest stops each day possible sag wagons

### Field Day (continued from page 1)



L-R: Bill McCall W6WDM, Darin Wick KG6GFQ and Patti Wick KG6GFR prepare lunch for the hungry crowd using the Salvation Army mobile kitchen

The presence of the Salvation Army's mobile kitchen was put to good use preventing station operator starvation. Saturday's lunch was hosted by Patti Wick KG6GFR and her son, Darin Wick KG6GFQ. The gourmet hot dogs hit the spot. Thanks, Patti and Darin!



Brian Torr N6IY and Kevin French KG6ABB work the bands



Darin KG5GFQ and Bill KH6GJV assemble patch cords

### July Program

The July program will be presented by our own John Breckenridge WB6FRZ. John will share with the group an ARRL video that graphically demonstrates the radiation pattern of the different types of antennas and how the relationship of the antenna to ground affects the pattern of the antenna. This video, coupled with John's commentary, will bring clarity to the invisible dimension of the antennas that we use.



One of our members is having a birthday this month. Do you know who it is?

### ULS at SCRA Meetings

John Mullan KD2L will have a computer at the meeting for members to register with the FCC's Universal Licensing System. Most Hams have not registered which is required to make any changes or upgrades to your license, even an address change. John will be available to help you through the process. The FCC computers run on east coast time, so you have to use the ULS before the meeting or at the break.



paid advertisement

### Who should be our next ARRL Section Manager? An Editorial

There are two candidates running for election as the ARRL San Francisco Section Manager: Leonard Gwinn WA6KLK and John Wallack W6TLK. The contrast between the two is striking.

Wallack has served as SM several times in the past. He has resigned from the office twice leaving the Section adrift. He even withdrew as a candidate from this election and then re-entered the race. Each time he resigned, the Section faltered due to the lack of an in-place management structure. Most holding appointments in the Section were inactive and not serving the ARRL membership under Wallack's terms. Most recently, Wallack was a no-show at the Ferndale Section Convention where, after Wallack advised them he was going to attend, the vacant chair at the head table was an example of Wallack's management. Wallack is backed by those in ACS/Sonoma County government that want to control Amateur Radio and are trying to steal the 146.73 frequency from SCRA.

Gwinn took over the job as SM when Wallack resigned again. He quickly realized that the Section was dead in the water. As he was working to assemble a management team, during a conversation with Sonoma County DES officials, he was told by them that DES had to approve all of his appointments. Gwinn had the backbone to resist DES's attempt to control the ARRL Section. In his short term in office, Gwinn has appointed truly interested Hams to posts and organized a management team. Gwinn has taken the steps to ensure that the Section will not suffer if a team member leaves. The result has been new, involved and interested ECs, DEC's, OO's and PIO's. Gwinn has also seen to it that each club in the Section is visited frequently, not once a year, if at all.

In our opinion, the correct choice is clear. For a strong, resilient and independent San Francisco Section, vote for Leonard Gwinn WA6KLK when your ballot arrives from ARRL this month.

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ARES Comm Log

by Rich Freitas KF6SZA  
Greater Santa Rosa  
Emergency Coordinator

(NOTE: The following article is not entirely original. Many of the thoughts were borrowed from an article by Jim Wades, WBSSIW, in WorldRadio Magazine)

I've been doing a lot of thinking lately about the rift between local ACS/RACES and ARES. From my perspective as a local Emergency Coordinator I see that I have one job - that is to provide communications for the local served agencies. It seems to me that too few people realize that, at the volunteer level, there is plenty of room for all of us. As hams we don't own communications - we simply do emergency communications. The ownership belongs to the served agency ..... that's what we're there for - to get the message through.

Have you ever thought about what happens in a real emergency? Have you given any thought as to how unprepared you really are when things go "upside-down"? It doesn't even have to be a "major" catastrophe ..... a simple "minor" disaster at the local level will probably bring chaos to the communications system including the ham bands. It will most likely be a case of the unprepared doing an inadequate job with mediocre equipment.

When the power goes out and disaster strikes there will be an immense need for communications. The fact that one, two, three or even four local repeaters are operational will still be sorely inadequate for disaster needs. Think about just a few of the immediate disaster needs that require communications:

- Initial check-in and deployment
- General tactical communications (vehicles, personnel, supplies, logistics)
- Damage assessment
- ICS/EOC interface
- Health and welfare inquiries
- Shelter Ops (Red Cross/Salvation Army)
- Weather Ops (Skywarn, flood levels, etc.)

It's readily apparent that a single net is totally inadequate for the sheer volume of traffic generated in an emergency. The bottom line is there simply are not enough repeaters or nets in the county to support these

needs.

Next month I'll continue this train of thought and we'll see some ways to organize emergency communications to get the "biggest bang for the buck".

\*\*\*

Disaster Strikes

by Rich Freitas, ARES EC

A series of rolling blackouts throughout the state have caused a rippling effect of power surges. Many local backup generators have been overloaded and have burned out. Currently nearly every local utility is without power ..... signal lights are out, shopping malls are dark and most of the telephone system is inoperative.

Does this sound familiar? If it does then you probably participated in the last ARES Simulated Emergency Test conducted a couple of weeks ago. The ARES team were stationed at five locations and passed priority, routine and welfare traffic while operating totally on emergency power. For over two hours we dealt with everything from minor traffic accidents and heat stroke victims to looting in blacked-out malls and trying to locate an elderly person in a shelter. After the event we all met for lunch for a critique of the exercise.

This was the first SET since the national ARRL SET last fall and all team members expressed the desire to have more training. The first question asked was "When do we have another drill". The best way to become a good communicator is the same way to become good at most other things .....practice, practice, PRACTICE. By this time next year I hope to be conducting at least three drills a year.

If you missed the last exercise and would like to participate in the next one, keep looking for the next announcement in Short Skip. If you'd like to become an ARES member we'd love to have you join us. The ARES net meets every Monday at 7:30 PM on the SCRA repeater 146.73 (- offset, 88.5PL).

(Ed's Note: Another way to keep your communications skills sharp is to help out during SCRA's Public Service Events. Stay Radio Active!)

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 kh6gjbv@arrl.net. We'd love to see YOU in print!

Sonoma County Radio Amateurs, Inc.  
Membership Meeting 6-6-2001  
MINUTES

1. Call to Order, Verification of Quorum - The meeting was called to order by Vice President Bill Hillendahl KH6GJV at 7:40 PM at the Santa Rosa Agilent Technologies facility. There were 37 people present.
  - a. Introductions
    - i. Officers & Directors - The club officers and directors introduced themselves.
    - ii. Guest Speaker - Bill KH6GJV gave a summary of the field day program for the evening.
    - iii. Visitors - Pam KG6GFP, Greg WB6UHH, David French
    - iv. New Calls & Upgrades - KK7CU to Extra, KG6FMR to Extra
    - e. Announcement - Jim Lee KE6VGV announced that on May 5<sup>th</sup>, 2001, him and Toni KF6ZCW, were married.
2. Approval of Minutes - Bob WD6DPE moved that the minutes of the May 2<sup>nd</sup>, 2001 membership meeting be approved as printed in Shortskip. The motion passed.
3. Officer & Director Reports
  - a. Treasurer - Jim Lee KE6VGV reported that the club is going to make it through the year with the finances on hand.
  - b. Officers -
    - i. Vice-President - Bill Hillendahl KH6GJV - Bill gave an update on the status of Greg Gordon AC6VJ's recovery. He also spoke about the September meeting program, which will be the inventor of the Internet repeater. Bill also announced that this would be the last meeting for Jessica Harris KG6AAZ, as she is moving to Colorado.
    - ii. Secretary - Jeff Basham W2JAB reminded members to pick up their membership badges. Jeff also presented a card for Greg Gordon AC6VJ who had surgery on his neck. The card was passed for the membership to sign.
  - c. Directors -
    - i. Rich Freitas KF6SZA - Bill KH6GJV announced for Rich that the ARES Simulated Emergency Test will be June 9<sup>th</sup>, and participants should meet at 9:00am at McDonalds on Mendocino Ave.
    - ii. John Mullan KD2L - John suggested that the club pass the hat for a Newline donation. Al Bloom N1AL moved that the club donate \$100 out of its treasury for a newline donation. The motion was seconded by Lee Dibble KE6EAQ and carried.
    - iii. Rick Reiner K6ZWB - Not present to make a report.
4. Committee Reports
  - a. Activities Committee - Bill McCall W6WDM - Sign up sheets for setup and take down were passed around. Bill gave a rundown of the Public Relations activities for field day.
  - b. Newsletter Editor - Bill Hillendahl KH6GJV and Bill McCall W6WDM - Bill H. asked for comment regarding the newsletter - there were no comments.
  - c. Public Service - John Mullan KD2L passed sign up sheets for the next two public service events. John also reported that the next VE session would be July 21<sup>st</sup>.  
Current list of Public Service Events:  
6/20 - Terrible Two; 7/8 - Half Vineman; 7/21 - Healdsburg Harvest Century; 8/11 - Full Vineman; 9/29, 30 - Waves to Wine
  - d. Repeater Committee - Bill KH6GJV reported that 2 meter had lost its voice again, and that it was being worked on. He also said that 220 had been off the air for the last week and a half for the addition of TX and RX PL. He said that the Condor 220 repeater is up and working, but the Mt. Vaca link is down.
  - e. Update on SCRA/County of Sonoma dispute - Bill KH6GJV said that the board was still working with Jim W6CF for mediation, and that there have been no new frequencies presented, and therefore very little progress. At the last NARCC meeting their 2 meter coordinator said that there were two possible pairs. Nothing has been send to Jim, Greg or Bill about those pairs, as promised. Jim KE6VGV gave a rundown of the NFCC meeting at Dayton, and a discussion about the repeaters took place.
5. Unfinished Business - None.
6. New Business - None.
7. Show & Tell - Cortland KA5S showed a new antenna he got for his Yeasu FT-817. Bill KH6GJV showed his new Yeasu VX-5R.
8. Recess - There was a 13 minute break.
9. Program - Field Day antenna design was shown. Jeff W2JAB gave a presentation of the NA logging software and the first half of the CQ contesting video was shown.
10. Raffle

- a. Regular - Brian Lukrich KG6AQT conducted the regular raffle. The raffle was won by Toni Lee KF6ZCW, who donated her winnings back to the club.
  - b. Membership - Sue Mullan K8SUE conducted the membership raffle. The raffle was lost by N6IRQ.
11. Announcements - There were no announcements made.
  12. Adjournment - The meeting was adjourned at approx. 9:30 PM.

Sonoma County Radio Amateurs, Inc.  
Board of Directors Meeting 6-13-2001  
MINUTES

- Board Members Present: Greg Gordon AC6VJ, Bill Hillendahl KH6GJV, Jeff Basham W2JAB, Jim Lee KE6VGV, Rich Freitas KF6SZA, John Mullan, KD2L  
Board Member Absent: Rick Reiner K6ZWB  
Committee Chairmen Present: Greg Gordon AC6VJ, John Mullan KD2L, Bill McCall W6WDM  
Committee Chairman Absent: Brian Lukrich KG6AQT  
Guests Present: Brian Torr N6IY, Sue Mullan K8SUE, Randy Black, KE6VMZ, John Breckenridge, WB6FRZ
1. Call to Order, Verification of Quorum, Introductions - The meeting was called to order by President Greg Gordon AC6VJ at 6:39PM. The meeting was held at Furniture Traditions, 3450 Airway Drive. A quorum was present in that all of the six of the seven voting board members were present.
  2. Approval of Minutes - John Mullan KD2L moved that the minutes of the May 9, 2001 board meeting be approved as corrected. The motion passed.
  3. Officer & Director Reports
    - a. Treasurer - Jim Lee KE6VGV
      - i. Current Financial - Jim KE6VGV presented a report for the last 6 months, which was reviewed by the board. Discussion took place regarding the report.
      - ii. Review and acceptance of audit report - Jim KE6VGV is going to contact Lee Dibble, so that this audit can take place.
      - iii. Change of accounting year to calendar year - Jim KE6VGV expressed interest in moving the clubs accounting year to the calendar year. Discussion took place, and it was decided to leave the accounting year how it is.
    - b. Officers
      - i. VP - Bill Hillendahl KH6GJV - Bill had nothing to report.
      - ii. Secretary - Jeff Basham W2JAB
      - iii. Mail & Communications - Jeff W2JAB distributed the mail to the appropriate officers.
    - c. Directors
      - i. John Mullan KD2L - John had nothing to report.
      - ii. Rich Freitas KF6SZA - Rich had nothing to report.
      - iii. Rick Reiner K6ZWB - Rick was not present to make a report.
  4. Committee Reports
    - a. Activities Committee - Bill McCall W6WDM
      - iii. Field Day - June 22 (setup), 23 and 24 - Discussion regarding field day took place.
    - b. Newsletter - Bill KH6GJV and Bill W6WDM - Bill H. notified the board that the last time he took payment to Super Fast Copy he was notified that they were going out of business. Bill is going to look for a new printer for the newsletter. Bill KH6GJV moved that the \$125 post office bulk mail permit fee be paid. The motion carried. Bill KH6GJV moved that \$100 be deposited into the post office bulk mail account for the next newsletter mailing. Bill also said the deadline for articles for the July newsletter the weekend after the board meeting.
    - c. Public Service Committee - John Mullan KD2L  
John reported that the Terrible Two is shaping up good, but he needs a lot more operators for the Half Vineman.  
Current list of Public Service Events:  
6/30 - Terrible Two; 7/8 - Half Vineman; 7/21 - Healdsburg Harvest Century; 8/11 - Full Vineman; 9/29&30 - Waves to Wine;
    - d. Repeater Committee - Greg Gordon AC6VJ
      - i. Net Control Operators - 7/3 - AC6VJ, 7/10 - N6IY, 7/17 - KH6GJV, 7/24 - W6WDM, 7/31 - KD2L
      - ii. Status of Repeaters - Greg reported that 2 meters and 440 are up and running on English Hill. 220 is down for installation of TX and RX PL. 2 meters is listening very well, but not talking very well. Greg will be meeting Bob on English Hill in the near future to investigate that problem.



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- ◆ Auto "power save" mode, auto-squelch
- ◆ Monitor button, speaker/mic jack, wrist strap
- ◆ Uses four "AAA" batteries (not included)
- ◆ Perfect for camping, sports, road trips, work...more!



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Extra Special!  
Pack of 18 AAA  
Heavy Duty batteries  
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HSC#18198

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### Multimeter Specials!

- ◆ Model #AEEC-1890 3 1/2 Digit LCD DMM
- ◆ Adjustable large flip-up display for the easy viewing
- ◆ 0.5% basic accuracy, dual-slope integration A/D
- ◆ Measures AC/DC volts, ohms, current, capacitance, hFE & temperature (temp. probe included!)
- ◆ Ranges:  
0-1000VDC, 700VrmsAC, 200 ohm - 200 Megohm, 20 mA - 20A, 2nF - 20 uF, NPN/PNP hFE
- ◆ Separate jacks for capacitors and translators
- ◆ "HOLD" function to capture measured peaks
- ◆ Soft rubber cradle protects meter, prevents skids
- ◆ Brand new! - With test leads
- ◆ Compare at prices of \$70, \$80 and up!



HSC# 80504

\$39.95

- ◆ Some people just don't like digital meters...
- ◆ Sotlec HM102S 20 KOhm per Volt Multimeter
- ◆ Ranges:  
0-1000VDC, 0-1000VAC, 0-50uA, 0.5, 5, 50 & 500 mA, 0-20 MOhm with X1, X10, x1K & X10K ranges
- ◆ Standard banana-plug test leads, manual included
- ◆ Carrying handle/stand, measures 3.5" x 5.25" x 1.5", mirrored dial for parallel-corrected readings
- ◆ New, 90-day warranty



HSC# 18260

\$9.95

### CD-R Media Bargain!

- ◆ "Armadillo" 8X speed premium CD...
- ◆ 650 MB / 74 minute capacity
- ◆ 2x, 4x, 6x or 8x speed recording
- ◆ Compatible with all leading CD writers/readers
- ◆ Fully compliant with the "Orange Book Standard"
- ◆ Brand new, sealed, includes jewel case!
- ◆ Box contains ten discs -- Best deal!

HSC# 18363 \$4.99 ea. or \$3.95/Box 10

### SCSI Drive Cases

Just in...two new styles of SCSI drive case. Perfect for those RAID systems, server backup, or other mass storage systems! Both feature: Power and drive status LEDs, front panel off/on switch, SCSI ID switch, fan-cooled switching power supply. Attractive beige color, curved front panels. Rear panel is punched for SCSI-1 (ICH-50) daisy-chain connectors, internal SCSI cable not included. Brand new in box, 90-day warranty

- ◆ Two-bay case
- ◆ PCA Jacks/ Sound Cable incl.
- ◆ Measures 6.3" x 7.0" x 11.25"
- ◆ 80-watt power supply



HSC# 18267

\$39.95

- ◆ Four-bay case (similar styling to two-bay case above), no sound cable
- ◆ Measures 10.3" x 7.125" x 14.3"
- ◆ 200-watt power supply



HSC#18268

\$49.95

...and two more cases!

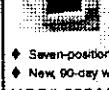
- ◆ 3.5" compact SCSI cabinet
- ◆ Ideal for 1" high SCSI drives
- ◆ Built-in fan-cooled power supply
- ◆ Two 50-pin Centronics daisy-chain connectors & SCSI switch on rear panel
- ◆ New, with IEC power cord, 90-day warranty



HSC# 80545

\$9.95

- ◆ CD-ROM drive tower case, made for Compaq Computer Systems
- ◆ Can handle 7 5/25" SCSI-II CD-ROM drives
- ◆ Includes 200W power supply, slides for drives
- ◆ Removable front and side panels
- ◆ Solid, heavy gauge construction
- ◆ Seven-position daisy-chain ribbon cable included
- ◆ New, 90-day warranty



HSC# 80544

\$89.00

### Disk Drive Deals!

- ◆ Seagate ST321271N "Barreccio Ultra-SCSI"
- ◆ 3.5" 2.16 GB hard disk drive
- ◆ 7200 RPM, 9.4 ms access time
- ◆ Packaged for Motorola product
- ◆ Brand new, with slide brackets
- ◆ OEM (Motorola) box, 90-day warranty



HSC# 18388

\$49.00

- ◆ Lite-ON Model LTN-31 32-speed CD-ROM drive
- ◆ Perfect for second drive, repaired or home-built systems
- ◆ Standard IDE 40-pin interface, manual, audio cable & driver disk
- ◆ Refurbished, 90-day HSC warranty

HSC# 80542

\$32.50

### Useful Utilities!

- ◆ Supercharge Windows with PowerDesk!
- ◆ Drag, drop files with multiple views, built-in ZIP utility
- ◆ View over 60 types of files -- Super search engine!
- ◆ Powerful email attachment decoder
- ◆ Instant graphic view of hard drive space
- ◆ Many more features...too much to list here!
- ◆ Windows 3.1, 95, 98 & NT compatible

HSC#18360

\$9.95

- ◆ Conquer Zip files with "ZipMaster!"
- ◆ Use ZIP files without unzipping
- ◆ Saves tons of disk space!
- ◆ Makes regular ZIP files look like folders
- ◆ Integrated viewing previews over 50 file formats
- ◆ Handles ZIP, Z, RAR, ZOO, ARJ, GZ, TAR...MORE!
- ◆ Windows 3.1, 95, 98 & NT compatible

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- ◆ Keep after the glitches with "Fix-It Utilities 99"
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- ◆ For Windows 95, 98 & NT

HSC#18362

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### Rack-mount Chassis!

- ◆ Rugged construction for heavy duty server use
- ◆ Supports all standard ATX motherboards
- ◆ Industry standard 4U height
- ◆ 250W standard/350W surge high output supply
- ◆ Filtered cooling system, locking front panel
- ◆ Can mount up to ten drives
- ◆ Folding front handles, mounting ears & accessories
- ◆ Brand new, boxed with 90-day warranty
- ◆ Available in black or cream textured finish



HSC# 80540 Black

\$195.00

HSC# 80541 Cream

\$195.00

### Keypad Mouse!

- ◆ "Unis" mouse with multi-function keypad!
- ◆ Numeric & special function keys, including SHIFT, ALT, RETURN
- ◆ Unique all-in-one ergo design for easy data entries
- ◆ Ideal for CAD, spreadsheet, games...etc.
- ◆ LED indicators, 400/1200dpi switchable
- ◆ PC/AT compatible, w-9-pin D conn.
- ◆ New, 90-day warranty



HSC# 80539

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### Talk to your Computer!

- ◆ "Voice Express - Standard" software by L & H
- ◆ Talk...and your computer does the rest!
- ◆ Learn your voice in about 5 minutes
- ◆ 300,000+ vocabulary, with plug-in support
- ◆ "Say It Your Way" commands!
- ◆ Boost productivity + voice-enable applications!
- ◆ Works with Win 95/98/NT, Lotus, Corel, AOL...MORE!

HSC#18365

\$14.95

- ◆ "Voice Express - Advanced" software by L & H
- ◆ Learn your voice in about 5 minutes
- ◆ Accurately turns your voice to text
- ◆ "Say It Your Way" commands!
- ◆ Boost productivity + voice-enable applications!
- ◆ Works with Win 95/98/NT, Lotus, Corel, AOL...MORE!

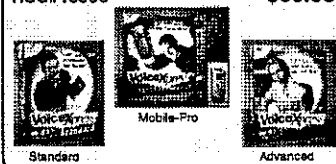
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- ◆ "Voice Express - Mobile Pro" software by L & H
- ◆ Includes pocket-sized digital voice recorder!
- ◆ Speech recognition learns your voice in under 10 minutes! Works with favorite Window apps!
- ◆ "Say It Your Way" commands! 230,000+ words
- ◆ Dictate on the run or in the office
- ◆ Voice-enable 100's of applications!
- ◆ For Win95, 98 & NT

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### Comfort Keyboard!

- ◆ Dell Internet Keyboard, made by Microsoft!
- ◆ Special Internet "hot" keys for quick, mouse-less commands -- Ergo shape for comfort!
- ◆ Brand New...boxed, with PS/2-style connector
- ◆ HSC 90-day warranty



HSC#18367

\$14.95

### Power Supply Specials!

- ◆ Lite-ON model no. PS-5151, 145 watts
- ◆ 5V @ 18A, 12V @ 5A, -12V @ 0.8A, 3.3V @ 7A, +5Vsb @ 0.15A
- ◆ Hi-Pot tested w/large cooling fan
- ◆ Standard ATX Form-factor
- ◆ Brand-new, 90-day warranty



HSC# 18350

\$12.95

- ◆ Lite-ON model no. PS-4151-08, 150 watts
- ◆ 5V @ 18A, -5V @ .3A, 12V @ 4.6A, -12V @ 0.3A
- ◆ Hi-Pot tested w/large cooling fan
- ◆ Standard AT "Mini Tower" Form-factor
- ◆ Brand-new, 90-day warranty



HSC# 18351

\$14.95

- ◆ Power Computing TCX-200
- ◆ Perfect for upgrading! Put modern motherboards into older cases
- ◆ 200W fan-cooled power supply
- ◆ Standard Mini-tower form-factor, ATX connector
- ◆ Units are brand new w/90-day warranty



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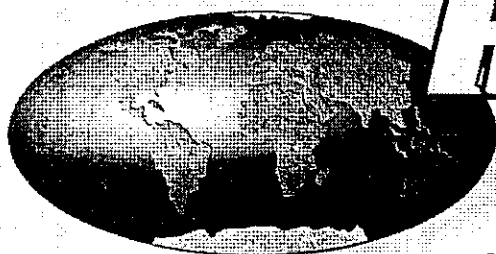
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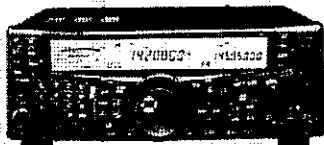
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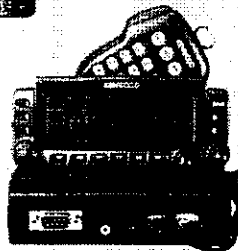
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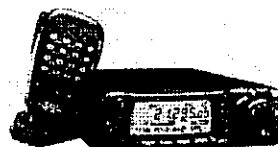
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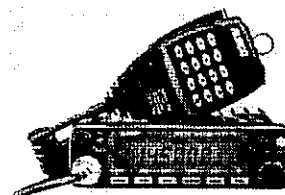
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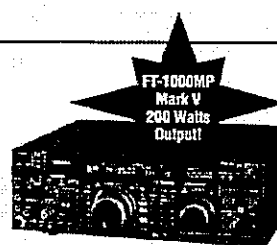
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