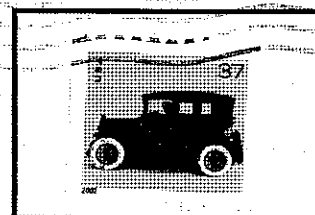


Calendar of Events

Dec 4	Wed	6:30 PM	SCRA POTLUCK CHRISTMAS PARTY! Agilent Technologies, 1400 Fountain Grove Prkwy, Santa Rosa
Dec 6	Fri	7:30 PM	Marin ARC Meeting, Alto Clubhouse, 27 Shell Road, Mill Valley
Dec 7	Sat	10:00 AM	Red Oak Victory ARC Meeting, Point Richmond
Dec 11	Wed	6:30 PM	SCRA Board of Directors Meeting, 3450 Airway Dr., Santa Rosa
Dec 17	Tues	7:30 PM	Hamilton Wireless Assoc., Bldg 549, Hamilton Field, Novato
Dec 18	Wed	7:00 PM	REDXA Meeting, Carrow's, Petaluma
	Wed	7:30 PM	Valley of the Moon ARC Meeting, McDougall Hall, Sonoma Developmental Center, Glen Ellen.

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



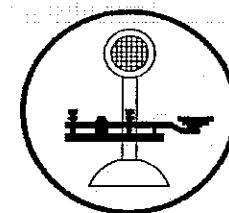
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Short Skip

newsletter of the

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Repeaters

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Repeater Station
W6SON

Volume 27 Number 12

December 2002

Happy Holidays

QTC

by

Bill Hillendahl KH6GJV
SCRA President

My Shopping List



No, I'm not heading down to HRO to buy the latest and greatest radio toy, although that new Yaesu FT-897 looks pretty interesting. What I am doing is putting together the list of things that I give to others.

My nieces and nephews are of the age now that all they really want are checks. Too easy and boring. I used to really enjoy spending hours in the toy stores looking for just the right gifts to watch their little faces beam on Christmas morning. Besides, I got to play with the new toys to see if they were durable. (I know you believe that!) Then, of course, there was the wrapping and the hiding, the gifts, that is. The kids were really good at finding the spots we used to hide the presents. But, that's another story.

What I have been doing the past few years is picking up a number of gift cards from giving trees in the area. You know, the trees in your local bank or department store that have cards listing a child, adult or senior who might not have a Christmas present if someone wasn't there to help. The cards generally have the person's first name, age and gift suggestion. You take the card, shop for that person and return the card with the present to the merchant to wrap and pass on. Sometimes I add a little extra something, a small extra gift or a five dollar bill to the package. Yeah, I don't get to see the look on their face when they open their gift, but I know that I might have brought some sparkle in someone's eyes who might not have such a happy holiday otherwise.

(continued on page 3)

WRC-03 CONFERENCE PREPARATORY MEETING UNDER WAY

The Conference Preparatory Meeting (CPM) for next year's World Radiocommunication Conference (WRC-03) opened in Geneva, Switzerland November 18. Some 1000 delegates are attending the worldwide gathering.

"The objective of the CPM is to approve a 500-page CPM Report to WRC-03 that will provide a technical basis for consideration of administrations' proposals for changes in the international Radio Regulations," explained ARRL Chief Executive Officer David Sumner, K1ZZ. Sumner is attending in his role as International Amateur Radio Union (IARU) secretary. He says 174 "input documents" to the CPM offer comments on the existing draft CPM Report text and propose additions, deletions, and changes.

Chairing the CPM is Germany's Eberhard George, DL7IH. At the day-long opening plenary, George and the chairpersons of the various working groups provided an overview of the meeting's structure and the major issues facing WRC-03.

"Several of the working group chairs were quite candid in their remarks," Sumner said. "Music to many ears including amateurs' was the assessment by New Zealand's Alan Jamieson regarding so-called little LEOs--mobile satellites operating below 1 GHz." According to Sumner, Jamieson said there was no congestion in their existing bands, and sharing studies had been unfavorable. Sumner predicted that the likely outcome at WRC-03 would be the suppression of an existing Resolution that invites sharing studies on the basis of an "urgent need" that no longer exists.

A thornier issue is 7-MHz "harmonization." The IARU backs a 300-kHz worldwide allocation in the vicinity of 7 MHz. "At this stage, we have six methods to address the agenda item," Sumner said--including no change in the status

(continued on page 4)

2002 Club Officials

President	Bill Hillendahl	KH6GJV	707 544-4944
Vice President	Brian Torr	N6IYY	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			
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	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	W6WDM	707 538-2844
Raffles			
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

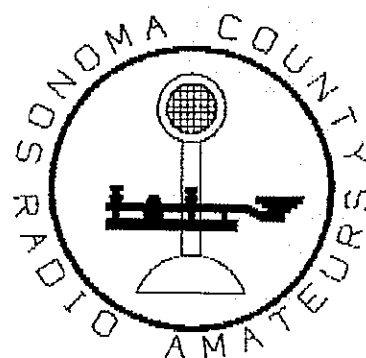
Check in to the SCRA net each **Tuesday** evening on the **146.985-(PL 88.5)** repeater at **7:00 PM**. Announcements are made of upcoming SCRA and other amateur radio activities in the area and what is listed in Hank's Swap Shop. You will also hear the weekly *Amateur Radio Newsline* broadcast.

Short Skip Advertising Rates

Business Cards	\$ 12
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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! NOT DECEMBER**



NEXT MEETING
December 4th
6:30 PM

Program:

SCRA Potluck Holiday Party

(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.

The Task Force also concluded that spectrum rights and responsibilities are not always clearly defined and that users need more certainty. "In addition, the rights and responsibilities that are defined need to better reflect more market-based models and policies," it said. Among its specific recommendations was to adopt "interference temperature" to quantify and manage interference.

The Task Force said using an "interference temperature" standard to establish maximum permissible interference levels on a band-by-band basis would place a limit on the noise environment in which receivers would be required to operate. "To the extent, however, that the interference temperature in a particular band is not reached, users who emit energy below that temperature could operate more flexibly," the panel said, "with the interference temperature serving as the maximum cap on the potential RF energy they could introduce into the band."

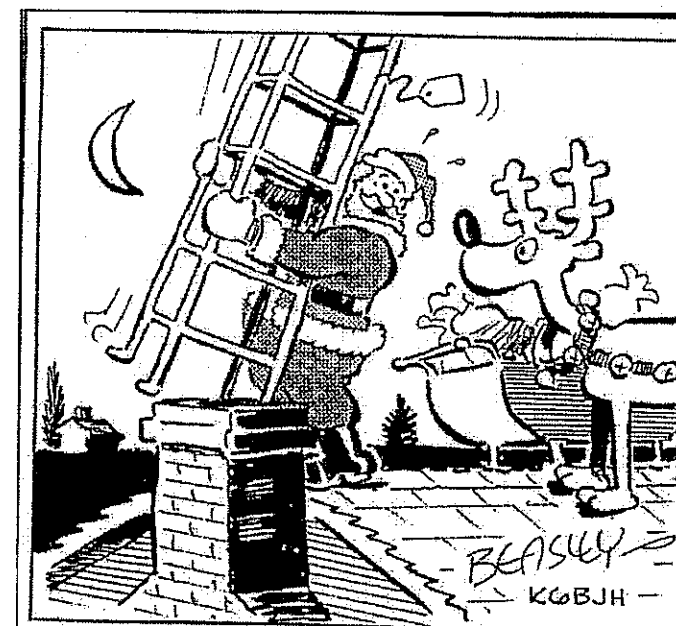
The Task Force said it found that new technological developments now permit access to unused or underused spectrum through time-sharing of spectrum between multiple users and lead to more efficient use of the spectrum resource."

Concluded FCC Chairman Powell, "The Commission is chartered to serve the public interest. The public has made their desire for interference-free spectrum-based services quite clear. The challenge now rests with us to deliver."

From ARRL Letter

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Sonoma County Radio Amateurs, Inc.

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ARRL Member? ☐ Yes ☐ No

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

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Family Membership	\$ 30 (\$7.50/qtr)
Under 18 Membership	\$ 10 (\$2.50/qtr)
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Mail to: SCRA, P. O. Box 116, Santa Rosa, CA 95402

1. Hanks Swap Shop - Jeff reported that there have been problems with the software that Hanks Swap Shop runs on, and asked the BoD for approval to purchase DCAdS, which seems to be simpler to use, and will service the members needs better. John WB6FRZ moved that Jeff be re-imbursed \$69.00 for the purchase of the software. The motion carried.
2. Domain Name - Jeff reported that the sonomacountyradioamateurs.com domain name needs to be renewed. Jeff will check into pricing and report back next month.
3. "SCRA Anarchists" - Jeff reported the existence of the "SCRA Anarchists" website, and passed around communication he has had with Geocities regarding the removal of the site.
- iii. Treasurer - Vicki Cero - Vicki gave the current financial report.
- b. Directors
 - i. John Breckenridge - John reported that he is donating a QMI 20-6 antenna to the club. Along these same lines, Rick K6ZWB announced that he was donating a General Coverage Recvr, 20 channel scanner and matching speaker back into club inventory. Jim requested to purchase the General Coverage Recvr from the club, and Greg AC6VJ moved that we sell it for \$20. The motion carried.
 - ii. Jim Lee KE6VGV - Jim moved that the club pay \$78 to the FCC for the freedom of information act request. The motion carried.
- c. Past President - Greg Gordon - Greg reported that several members told him that they really like the Pot Luck idea for the Christmas Meeting.
4. Committee Reports
 - a. ARES - Rich Freitas - Rich reported on the current happenings of ARES.
 - b. Mobile Comm Van - Lee Dibble - Lee was not present to give a report. Discussion was held.
 - c. Activities Committee - UNASSIGNED
 - i. T-Hunts - No update.
 - ii. Xmas Dinner - Mailing out a flyer was discussed. It was decided that this would be a good idea.
 - d. Newsletter - Bill KH6GJV
 - i. Letter from ACS - The board discussed a letter that was sent to the newsletter editor by Sonoma County ACS.
 - e. Public Service Committee / VE - John Mullan - John was not present to give a report.
 - f. Repeater Committee - Greg Gordon - Greg reported that all systems are up and running. Greg also reported that there is a club owned Repeater Rack which he has no use for any longer. John WB6FRZ moved to let Greg dispose of the extra rack in any way he sees fit. The motion carried.
5. Unfinished Business - There was no unfinished business.
6. New Business - There was no new business.
7. Announcements - There were no announcements.
8. Adjournment - The meeting was adjourned at 8:57pm

FCC SPECTRUM POLICY TASK FORCE PRESENTS RECOMMENDATIONS

The FCC Spectrum Policy Task Force this week presented recommendations to modernize the rules that guide how the nation's spectrum is managed and utilized. The panel recommended that spectrum management evolve from a traditional government "command-and-control" model to a more flexible, consumer-oriented approach. Created by FCC Chairman Michael Powell last June, the Task Force--after research and extensive public input--concluded that the time is ripe for spectrum policy reform.

"The foundations of our current spectrum policy are cracking beneath the weight of innovation and widespread consumer use of spectrum-based services," Powell said. "This is no surprise, since most of our policies date from the 1920s." The FCC said in a Public Notice <http://hraunfoss.fcc.gov/edocs_public/attachmatch/DOC-228242A1.doc> that the Task Force's report will provide a starting point for a long-term review of spectrum policy approaches.

The ARRL was among the entities and individuals commenting in the FCC's Task Force initiative, ET Docket 02-135, earlier this year. The League told the FCC that marketplace forces should not determine Amateur Radio spectrum allocations, and that interference management is a technical, not an economic, issue.

"The value to the public of a vital, growing Amateur Radio Service, while perhaps only indirectly measurable in market terms, cannot translate to a marketplace ability to pay for spectrum, no matter what the mechanism," the ARRL asserted in its comments. A market-oriented allocation processes could preclude Amateur Radio communications, the League asserted.

In its comments, the ARRL compared Amateur Radio spectrum to a public park or right-of-way. "Given the wide availability of Amateur Radio to the general public and its value as an educational and public service resource, the concept fits well," the League said.

The Task Force said some bands are heavily used while many are not in use in all geographic areas or are used only part of the time. "Thus, there may be opportunities for spectrum-based services or devices to operate in the resulting 'white spaces,'" the Task Force suggested. The Task Force said that technological advances--such as the increased use of digital technologies and the development of software-defined radios--are providing some potential answers to current spectrum policy challenges. "These technological advances enable spectrum rights to be parceled as a function of time," the FCC panel said. "Also, they allow systems to be much more tolerant of interference than in the past."

SCRA Holiday Party December 4th - 6:30 PM

This year the club is returning to its past by holding the annual holiday bash as a pot luck. The event will be held at Agilent Technologies, 1400 Fountaingrove Parkway in Santa Rosa. The actual party will be in the cafeteria, but everyone needs to stop by Building 1 to check in before heading over to the party. There will be a guide to assist. The main dishes of roast turkey and honey baked ham as well as coffee and tea will be provided for the \$7.50 per person cost. Please bring either a salad, side dish or a dessert to share with the group. **RSVP by 11/29 is a must!** We have to let the caterer know how many! If you have not already done so, RSVP to Brian Torr N6IHY@arrl.net and send payment to the SCRA mailbox. Many thanks to Brian for setting this up.

At the November meeting **SCRA Repeater Chairman Gregory Gordon AC6VJ** presented a pictorial tour of the SCRA and other repeater sites serving Sonoma County and beyond. Greg also had some pieces of equipment that make up the typical repeater system for members to see first hand. Greg invited members to join him on his periodic missions to the repeaters to learn how they operated and how to maintain them.

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 kh6gjuv@arrl.net. We'd love to see YOU in print!



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ATTORNEYS AT LAW

Weekly Ragchew Night

Calling all SCRA members... dust off your microphone and loosen up your jaw! Starting November 5th we're having a weekly ragchew following the Tuesday night net on the club repeater (146.985-). Everyone is welcome and please join in, even if you just want to say "hello".

Do you have any ideas for future club events? Need help with your shack or a new antenna? Found a great restaurant? Let's talk about it. All topics are fair game, so make it lively!

73,
Josh AD6XI

QTC (continued from page 1)

Besides, it gives me an excuse to go shopping and play, I mean evaluate, the latest toys (we didn't have a lot of these goodies when I was a kid).

If you have a few bucks to spare and a little time, pick up a card from a giving tree and go shopping. Make a stranger smile on Christmas morning.

I wish everyone a very happy holiday season.

HR 4720 Progress

Congress adjourns; HR 4720 expires without action: The US House of Representatives officially adjourned for the year November 22 at 2:33 PM. The US Senate wrapped up its business earlier this week, so the 107th Congress is officially in the books. With adjournment go any hopes of passage of HR 4720, the CC&R bill introduced by New York Democrat Steve Israel earlier in the year. ARRL members are requested to wait until a new CC&R bill--with a new bill number--is introduced in the next session of Congress before seeking cosponsorship support from members of Congress.

From ARRL Letter

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ARES Comm Log

by Rich Freitas KF6SZA
Greater Santa Rosa
Emergency Coordinator

Status Report

By now, most of you are aware of the meetings between Sonoma County ACS and ARES with regards to the effort underway to develop a Memorandum of Understanding between the two organizations. I recently received an email from Ken Harrison, Sonoma County ACS Radio Officer, in which he references the efforts that have taken place of the past few months to discuss how we can improve the relationship between our two groups. Our discussions have lead to ideas that could mean real progress, like joint exercises and true collaboration.

As of this writing, ACS has prepared a proposed Memorandum of Understanding that would help formalize a relationship and set the groundwork for future cooperation. This MoU is based upon several other existing ones that ARES has with other agencies. This simple document will offer mutual recognition, outline roles and responsibilities, and establish formal methods of communication and cooperation between our two groups. It also leaves open the possibility of future areas of mutual collaboration. Our sincere hope is that we can now make significant and concrete steps forward; our intention is to move in a more positive direction with all amateurs in Sonoma County.

The ARES net meets on Mondays at 7:30 PM on the 146.985 MHz, - offset, 88.5 PL. Everyone is welcome to participate.



THOSE WORK SO GOOD I DECIDED TO KEEP THAT ONE FOR MY OWN MOBILE---YOURS IS ON BACK-ORDER.

From The Best of Beasley, Worldradio Books

SCRA v NARCC

SCRA has been advised by their legal team at Rivkin Radler LLP that NARCC has obtained the free services of Marshall Bluestone with the Santa Rosa law firm of Senneff, Freeman & Bluestone. The Senneff firm is known to do a substantial amount of work on behalf of the County of Sonoma when the county cannot use in-house counsel.

NARCC had until November 18th to file their response to SCRA's petition. At the eleventh hour, NARCC's attorney contacted SCRA's counsel and was given the courtesy of a two week extension to file their response.

WRC-03 (continued from page 1)

quo. The item is in Working Group 5 (WG5) "We can't say for sure that the six methods will be in the CPM Report until WG5 takes another pass at the revised draft text and it's approved in plenary." That's not supposed to happen until next week.

Substantive work of the CPM will be wrapped up November 28--Thanksgiving in the US, but just another work day in Geneva.

In addition to Sumner, those representing the IARU at the CPM include President Larry Price, W4RA, and Region 1 Executive Committee member Wojciech Nietyksza, SP5FM. IARU Vice President David Wardlaw, VK3ADW, is on the Australian delegation and ARRL Technical Relations Manager Paul Rinaldo, W4RI, is on the US delegation.

Several other amateurs are on their national delegations, either to represent the amateur services or in professional capacities.

From ARRL Letter

Sonoma County Radio Amateurs Membership Meeting November 6, 2002 MINUTES

1. Call to Order, Verification of Quorum - President Bill Hillendahl, KH6GJV called the meeting to order at 7:31pm. The meeting was held at the Agilent Technologies Facility, 1400 Fountaingrove Parkway, in Santa Rosa. A quorum was present.
 - a. Introductions - The club officers and directors introduced themselves.
 - b. Guest Speaker - Greg Gordon AC6VJ was introduced.
 - c. Visitors - Bobby from Santa Rosa, Carrie Breckenridge, and K6HKY
 - d. New Calls and/or Upgrades - Jeff Basham W2JAB announced that he had upgraded to General.
2. Approval of Minutes of October 2, 2002 membership meeting - Ted KB6PTA moved that the minutes be accepted as printed in ShortSkip. The motion passed.
3. Officer and Director Reports
 - a. Officers
 - i. VP - Brian Torr - Brian had nothing to report.
 - ii. Secretary - Jeff Basham - Jeff presented Karl K6QMT, Bruce K6RBF and Josh AD6XI with their Wouff Hong Certificates which they earned at Pacificon.
 - iii. Treasurer - Vicki Cero - Vicki gave the financial report.
 - b. Directors
 - i. John Breckenridge - John presented a check to the club to go into the "Rolling Toaster" fund. He also offered the Fresh Choice coupon books for purchase.
 - ii. Jim Lee - Jim had nothing to report.
 - c. Past President
 - i. Greg Gordon - Greg had nothing to report.
4. Committee Reports
 - a. ARES - Rich Freitas - Rich answered questions about the ARES/ACS MOU, spoke about the SET, and invited everyone to check into the ARES net on the SCRA repeater on Mondays at 19:30.
 - b. Mobile Comm Van - Lee Dibble - Lee gave a general update of the status of the toaster, and announced that it had found a parking place.
 - c. Activities Committee - UNASSIGNED
 - i. IMAX - This has been rescheduled for the 1st of the year.
 - ii. T-Hunts - There has been no progress on this item.
 - iii. Xmas Dinner - Brian Torr announced all the details. Contact him with questions.
 - d. Newsletter - Bill Hillendahl - Bill had nothing to report.
 - e. Public Service / VE - John Mullan - John was not present to make a report, on his behalf Sue Mullan announced that Terrible Two t-shirts were available for those who worked the event. Brian Torr gave a VE update.
 - f. Repeater Committee - Greg Gordon - Greg reported on

5. the status of the SCRA's repeaters.
6. Unfinished Business - There was no unfinished business.
7. New Business
 - a. 2003 BoD Elections - The slate, as known to the current board of directors was presented. It was announced the Jeff Basham W2JAB had "termed out" of the office of Secretary, and was not eligible for re-election. Bill KH6GJV opened the nominations for the office of President. Randy KE6VMZ moved that the nominations be closed. The motion carried. Bill KH6GJV opened the nominations for the office of Vice President. Sue K8SUE moved that the nominations be closed. The motion carried. Bill KH6GJV opened the nominations for the office of Secretary. Jeff W2JAB nominated Dave W8NF as secretary. Dave declined the nomination. Jeff W2JAB moved that the nominations be closed. The motion carried. Bill KH6GJV opened the nominations for the office of Treasurer. Randy KE6VMZ moved that the nominations be closed. The motion carried. Bill KH6GJV opened the nominations for the office of Director. Greg AC6VJ moved that the nominations be closed. The motion carried. Due to the slate only having one candidate in each office, except for Secretary where there was no candidate, and Director where there were two candidates for two positions, John WB6FRZ moved to suspend balloting pursuant to bylaw 8. The motion carried. Bill AC6MA moved to accept the slate by acclamation. The motion carried.

The 2003 Board of Directors: President: Bill Hillendahl KH6GJV, Vice-President: Brian Torr N6IYY, Secretary: Open, Treasurer: Jeff Basham W2JAB, Directors: Jim Lee KE6VGV and Josh Fiden AD6XI
 - b. SCRA v. NARCC - Jim KE6VGV gave a report of the litigation filed against the Northern Amateur Relay Council of California (NARCC.) Discussion was held.
7. Member Biography - There was not a volunteer, and this item was skipped.
8. Show and Tell - There was no show and tell for the evening.
9. Recess/Break - The meeting recessed.
10. Program - Greg Gordon AC6VJ and Jeff Basham W2JAB gave slide show of the SCRA's repeater sites.
11. Raffle
 - a. Regular - There was no raffle held.
 - b. Membership Lottery - Karl K6QMT ran the lottery. The winner was not present, and the lottery rolled over. (Secretary's Note: The raffle winner was mistakenly not recorded.)
12. Announcements
 - a. Next Meeting is the Christmas Party on December 4th, at Agilent.
 - b. Board Meeting next Wednesday at Furniture Traditions, 6:30pm.
13. Adjournment - The meeting was adjourned. (Secretary's Note: I did not record the time of adjournment, either.)

Sonoma County Radio Amateurs Board of Directors Meeting November 13, 2002 MINUTES

1. Call to Order, Verification of Quorum - President Bill Hillendahl KH6GJV called the meeting to order at 6:32pm. A quorum was present in that all 7 of the voting board members were in attendance.
2. Approval of Minutes of the October 9, 2002 BoD Meeting - John WB6FRZ moved that the minutes be approved as printed in ShortSkip. The motion carried.
3. Officer and Director Reports
 - a. Officers
 - i. VP - Brian Torr - Brian shared an item of interest about the "Baker to Vegas" race. Implementation into the SCRA's public service program was discussed.
 - ii. Secretary - Jeff Basham -

CHARLES J. TARR
Attorney at Law
WA6VAG
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Server Cabinet, ATX rack mount, with Power Supply, White color HSC# 80541	Computer Speakers, powered HSC# 18662
Battery charger, NiMH HSC# 19151	Game-pad, Microsoft "Sidewinder" HSC# 80486
SCSI Controller, Initio, PCI Bus HSC# 18218	Compact AC Inverter for the car, 100W HSC# 19021
SCSI Controller, Adaptec 1505, ISA Bus HSC# 17995	Motherboard, 486DX4 AT HSC# 18529
Mouse, 2-button HSC# 18731	Motherboard, Baby AT, 486VLB HSC# 19003
Mouse, w/ numeric keypad HSC# 80539	Multimeter, analog, VOM HSC# 18260
Scrolling mouse, translucent body HSC# 18829	Multimeter, DMM, with transistor check HSC# 80370
Computer Power Supply, ATX 200W, "Mini-Tower"-style HSC# 18665	Multimeter, DMM, tilt-up display, nice! HSC# 80504
	Computer Joystick, "FX2000" HSC# 18772
	Tower Chassis, 7-Bay "RAID" HSC# 80544

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- Intel PRO/100 PCMCIA Network Adapter Card
MBLA1800 LAN card supports 10BaseT/100BaseTX
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- "Videoelectronics" Model No. VHS-105 player deck
- Dual power output - 110VAC or 12VDC
- Perfect for entertaining the kids in the car!
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- Standard NTSC VHS format, full front-panel controls, soft-touch buttons with LED's
- Remote control sensor on front panel - remote NOT included - may work with generic remotes?
- Removed from working service, 90-day HSC warranty

HSC# 19048 \$19.95!

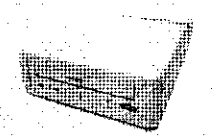
VHS for even less!



- Magnavox Model No. VHS100AT01 video player
- Standard "F" type connectors for infinte connection
- Rear panel switch selects Ch. 3 or Ch. 4 output
- SCA 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.
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- Hewlett-Packard Model 7200 Series CD-RW
- Use just like a floppy! Shares printer port!
- Drag & drop up to 650MB on a single CD!
- 2X write on CD-RW, up to 6X read on CD-R
- 1X RW: 150KB/sec, 2X RW: 300KB/sec
- 6X Read: 800KB/sec - drives avail. at HP website
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- 74 min. on 120mm disk, 21 min. with 90mm disk
- Power supply not included (pilot provided)
- Rehabilitated, 90-day HSC warranty

HSC# 19036 \$49.50

Lab Bench Supply!

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

HSC# 80606 \$139.00

Variable Transformers!

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

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- Our most popular model!
- Model AEEC-2000VR
- 0 - 120 VAC output, 2KVA
- Measures 8" x 10" x 9.5"
- Features meter, illuminated switch, line cord, fuse

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- Finally...we found a source for solder pots! New, 90-day HSC warranty, very handy for the workbench!
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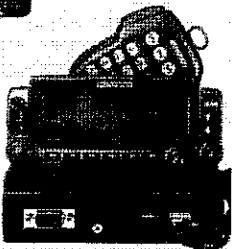
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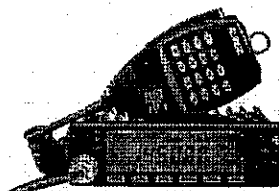
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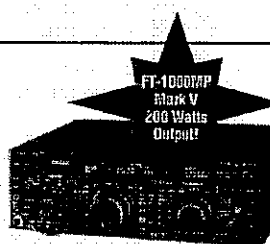
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