

Calendar of Events

Feb 1	Fri	7:30 PM	Marin ARC Meeting, Alto Clubhouse, 27 Shell Road, Mill Valley
Feb 2	Sat	10:00 AM	Red Oak Victory ARC Meeting, Point Richmond
Feb 6	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
Feb 9	Sat	9:00 AM	VE Test Session - VOMARC, Sonoma Developmental Center, Glen Ellen Contact: Randy (707) 996-9252
Feb 13	Wed	6:30 PM	SCRA Board of Directors Meeting, 3450 Airway Dr., Santa Rosa
Feb 15	Fri	8:00 PM	San Francisco ARC; VA Medical Center, 42 nd Ave & Clement, San Francisco
Feb 20	Wed 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.
Feb 23	Sat	9:00 AM	VE Test Session - Marin Amateur Radio Society, Kaiser Hospital, San Rafael Contact: Stuart Dake AC6GD 415-382-8317 (3-6 PM only please)
Feb 25	Mon	7:00 PM	Willits ARS Meeting, Brooktrails Firehouse, Willits

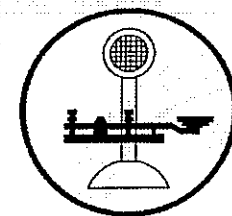
Sonoma County Radio Amateurs, Inc.

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Club Station
W6LFJ

Short Skip

newsletter of the

Sonoma County Radio Amateurs, Inc.

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(707) 579-9608

<http://www.sonomacountyradioamateurs.com>

Repeaters

146.73- • 224.48- • 441.375+



Repeater Station
W6SON

Volume 27 Number 2

February 2002

QTC

by
Bill Hillendahl KH6GJV
SCRA President



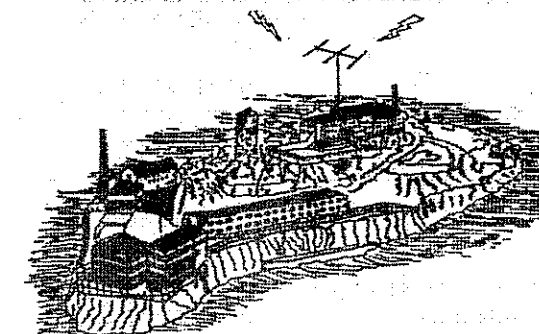
SCRA's Unsung Heros

Each year at the party in December, our club bestows honors and thanks on those who have served as officers, directors and major committee chairmen. I'd like to recognize and thank those individuals that, without their effort, many of the club functions or activities would not take place. The following members are not listed in any particular order:

Ted DeCroff KB6PTA has served for several years as our refreshment provider at the meetings. Ted makes the effort to see that the coffee, tea, hot chocolate and donuts are on hand for the member's enjoyment. **John Mullan KD2L**, in addition to serving as a Director and Public Service Chairman last year, served as the club's Volunteer Examiner Liaison, coordinating the four test sessions the club holds. **Sue Mullan K8SUE** helps John with the session paperwork, but also handles the membership raffle at the meetings. Yes, she's the one who gets after you to put your quarter in the can. **Brian Lukrich KG6AQT** conducted the raffle at the meetings last year which gets participating members 50% of the pot and hands out the other prizes that are won. Did you know that **Jeff Basham W2JAB** takes care of Hank's Swap Shop, the club website and the e-mail list maintenance along with the Secretary's job? **Al Bloom N1AL** is available to assist with TVI/RFI issues when they come up and **Lee Dibble KE6EAQ** serves as an ARRL volunteer legal counsel.

Many thanks to you for your service to SCRA!

ALCATRAZ ISLAND



"Hey, buddy, if you don't watch it, youse gonna sleep wit da fishes!" You might hear that echo in the middle of the night while sleeping in the infamous D block of the Rock.

The Empire Amateur Radio Society was selected for an over night stay on Alcatraz and has invited SCRA members to join them. The event will not be a major radio event like in the past due to changes in the park rules, but guests will still enjoy the "hospitality" of the island and maybe make a few QRP contacts.

The trip will take place on the weekend of **May 18th and 19th**. Reservations are not being accepted at this time as the costs have not been figured. Check with EARS Chairman Bill Hillendahl KH6GJV for details.

DUES ARE DUE!

Yes, it's that time of year again. The SCRA dues for the 2002-2003 fiscal year are due. The dues are **\$20 per year for individual members** and **\$30 per year for a Family membership**. If you are a current SCRA member, a renewal envelope is included with this edition of *Shortskip* to make it easy to send in your dues. Please take a couple of minutes and complete the membership information on the envelope flap so that we can update the roster. If the envelope is missing, please use the membership application on the inner last page. *Thanks!*

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	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 & Web Staff

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

Contacts

Antenna Ordinance/Legal	Lee Dibble	KE6EAQ	707 544-1675
Public Relations	Bill McCall	W2WDM	707 538-2844
Raffles	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
SCRA Web Site <http://www.sonomacountyradioamateurs.com>

Tuesday Night Net

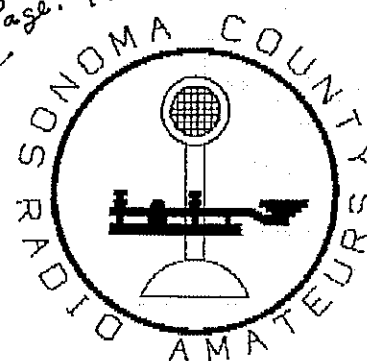
Check in to the SCRA net each **Tuesday** evening on the **146.73-(PL 88.5)** repeater at **7:00 PM**. Announcements are made of upcoming SCRA and other amateur radio activities in the area and what is listed in Hank's Swap Shop. You will also hear the weekly *Amateur Radio Newsline* broadcast.

Short Skip Advertising Rates

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Each Addn'l Quarter Column	\$ 4
Full page (one side)	\$ 35
Pre-printed inserts (each)	\$ 35
Guaranteed circulation of 200 per month!	
For more information, contact the Editor.	

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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

February 6th

7:30 PM

Program:

Ham Radio Jeopardy
 (See article)

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!

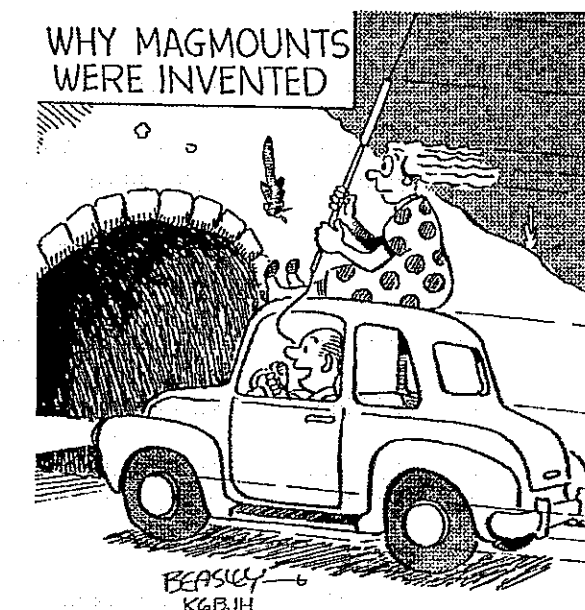
Homebrew Night is Coming Soon!

The program for our April meeting is the traditional Homebrew Night. This is the time to bring in a piece of your own handiwork. It doesn't have to be big and elaborate. In fact, some of the most interesting projects are those that have been cobbled together on the spur of the moment from stuff just laying around the house. And it doesn't have to be hardware, either. Perhaps you wrote a simple program to control your HF rig or log contacts or convert return loss into SWR. If you've hit upon a new technique of how to do something, such as winding a toroid, tell us about it. If it's too big to haul in (we don't expect you to dismantle that beautiful 50 foot tower you built from scratch), bring in pictures. Anything related to ham radio, and electronics in general, is fair game.

This is a great opportunity to share knowledge. You just might have hit upon a simple solution for another ham that's been puzzling over the same

problem. So look around the shack for something you might want to share with the rest of the club!

Brian Torr, N6IYY



From *The Best of Beasley* by Robert Beasley K6BJH
 Worldradio Books

Sonoma County Radio Amateurs, Inc.

Please Print Clearly

Membership Application

New [] Renewal []

Name _____ Call Sign _____ License Class _____ Date _____

Address _____ Hm Phone _____ Wk Phone _____

City/State _____ Zip _____ E-Mail _____

ARRL Member? [] Yes [] No

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

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

Payment Calculations: 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

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 _____

trustee for W6LFJ. Greg accepted the nomination, and the motion carried.

iii. Presidential Appointments

- i. Field Day Chair - ?, Swap Meeting Chair - ?, Education Chair - ?, VE Liaison - KD2L, Raffle Chair - Same as Activities Chair, Members Only Raffle - K8SUE, Refreshments - KB6PTA, Newsletter Editor - KH6GJV and WB6FRZ, Swap Shop Manager - W2JAB, Public Relations - W6WDM, TVI/RFI - N1AL?, Antenna Legal - KE6EAQ

- d. Refreshments at Meetings - Jim KE6VGV moved that the following price schedule be adopted for refreshments at meetings: Coffee - 25 cents, Hot Chocolate - 25 cents, Soda - 50 cents, Donuts - 50 cents. The motion carried.

7. Announcements - There were no announcements.

8. Adjournment - The meeting was adjourned at 8:23 PM.

Service by Tracy WB6TMY

Let's say you're interested in putting up a 65 foot tower with a yagi on top of it for your 2 meters. You can count on spending a fair amount of money on Rohn, guy wires, rotators etc. An alternative is to hang a rope over a friendly tree limb at 65 feet and use an MFJ 2-meter J-Pole made out of twinlead with a little weather-proofing. I'll grant you that 1/2 wave is not going to outperform a yagi... but it will be a whole lot cheaper! If you're running a 2-meter J pole on your garage roof right now, it might give a considerable improvement in coverage. If you're into HF, a dipole is always a good choice, and though it's not as effective as a yagi, it's a whole lot cheaper. As always, higher is better.

I have invested about \$300 in some snake boots & a "EZ-Hang sling shot," + about 35 years doing antennas in ham radio. I don't want to make it sound like I have some exotic product or offering, but I just find it hard to believe that nobody in this area couldn't use a hand. It would be swell if I could recover some of my investment, and if I can't help you at all, you wouldn't owe me anything. If you're not "flush" I'd be happy to do it for free or even get my gas money covered. This outfit is supposed to jump over 100 foot trees with no big effort and that's a very nice height!

Very 73,

Tracy Reese
WB6TMY@arrl.net

Got Feedline?

The following was posted by Ray Herring, channel 7/24's transmitter engineer, on the AVS HDTV Forum. Here is why KBHK-DT and KRON-DT are off the air and what is involved to get them back on.

Here's the latest that I have regarding the burned transmission line and the outage of KRON and KBHK's digital signals.

The line manufacturer has determined that the entire line must be replaced. This after all the old line has been removed from the tower. With manufacturing time, installation, tuning, etc. we're estimating about January 20th for them to be back on air.

As near as we can determine the problem started in the power splitter on the antenna. Winds evidently distorted it. When a teflon spacer burnt near the base of the tower, it caused carbon filled smoke to rise in the line and caused arcs in many places. All this can occur in a matter of seconds. From the pictures of the line I could count about 25 or more places in the line that burned. It got hot enough to have puddles of aluminum from the bullets in the bottom of some elbows. In next couple of days, I'll try to post a couple of the pictures of the line on my web site for those who are curious about it.

Our weather computer logged wind gusts as high as 125 mph at the sixth level of the tower Nov 24th. Same as a category 5 hurricane. Winds at ground level were only about 55 mph.

Ray Herring, Transmitter Supervisor
KGO-TV, Channel 7
KGO-DT, Channel 24
San Francisco, CA

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February Program Play SCRA Ham Radio Jeopardy!

Join us on **Wednesday, February 6th**, to play SCRA Ham Radio Jeopardy, the program at our February meeting. Don't miss it! Everybody will participate. You'll get a chance to provide questions to answers in several ham radio categories. Prizes will be awarded. Don't miss this fun and educational event.

At the January meeting, **Art Lebermann W6REQ** spoke on his thirty-plus years in the commercial broadcast industry. Art is currently an Engineer for KGO radio in San Francisco. Art spoke about the transition of the stations from tube to solid state, 50 KW transmitters and saving energy in the process.



Art Lebermann W6REQ
photo by KA5S

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.

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John C. Mullan
Photographer

SCRA's "Toaster"



Among the surprise announcements at the last meeting was the presentation of the new-to-the-club's 17 foot Winabego by **Lee Dibble KE6EAQ**. The RV, lovingly dubbed "The Toaster" due to its square shape, is a 1970 model with only 86,000 miles on it. It is in good mechanical shape and with minor work will be a great public service and emergency mobile communications vehicle. A list of improvement projects has been developed and work has already started on several of them. Work parties are every Saturday morning at Lee's home, 1290 Parsons Drive, from 10 AM until about 1 PM. Members are encouraged to come by and lend a hand. Don't worry if you think that you do not have a skill to offer; the work crews will find something for you to do and show you how.

On the Wanted List are items such as 2-meter, 220 and 440 radios, as well as antennas. We might want to replace the AM broadcast radio with a more modern AM/FM/Cassette/CD radio for entertainment. The goal is to have the RV ready for the opening of our public service season.

Join in on Saturday and have fun with the Toaster!

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 kh6gjjv@arrl.net. We'd love to see YOU in print!

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ARES Comm Log

by Rich Freitas KF6SZA
Greater Santa Rosa
Emergency Coordinator

Mixed Bag

NTS Just how good are you at copying radiogram traffic? If you'd like to find out, here's a fun way to do it. Every Wednesday evening at around 2000 hrs. local on 3987 LSB you can have a shot at it. D.W. Thorne, K6SOJ, the Sacramento Valley ARES Section EC, runs an ARES Leadership Net weekly and, at the end of each net, there are three radiograms transmitted in NTS format. You can download the ARRL radiogram forms from the website (www.arrl.org) and participate in the practice. As an extra bonus, you can send your forms to K6SOJ and, if you have perfect copy, he will send you a special QSL card for your efforts. Copying formal traffic is a skill we may need some day and this is a fun way to enhance that capability before the real need arises. Give it a try!

CDF Many of your ARES members are also CDF (California Division of Forestry) VIP volunteers. CDF plays a major role both in fires and floods events that effect us locally and new members are welcome. This also is a great way to gain additional training in emergency-related skills from communications to fire prevention to defensive driving. CDF volunteers meet the third Thursday of each month at the facility on W. College Avenue. There is a weekly net at 8:00 PM on 147.18 MHz, + offset, 151.4 PL. You are all invited to check in.

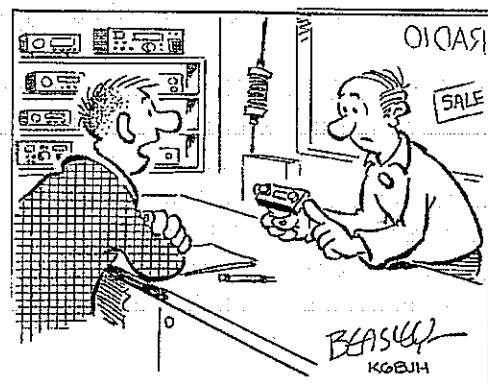
SET As most of you know, ARES has 2 or 3 SET's (Simulated Emergency Test) each year. We create an emergency scenario, write some applicable traffic messages, and disperse to various locations to pass the traffic. The purpose is to ensure our ability to efficiently and accurately pass formal traffic via a directed net in a field environment. Participants are not aware of the scenario or the traffic until the exercise begins and nearly all locations are mobile. Besides building our skills it only takes a few hours and it's a lot of fun. We are in the process of designing the next SET scheduled for March. If you'd like to help with the scenario or you'd just like to participate in the exercise let me know we'd like to have you join us.

TOASTER By now most of you are aware that, due to the generosity of Lee, KE6EAQ, the club is in possession of a 17' Winnebago motorhome fondly referred to as "The Toaster". Destined to become a mobile communications

command post for emergency and public service events, work has begun to refit it for our needs. A steering committee is being formed to design the required changes and solicit donations. If you have any older radios not being used, we are in need of 2-meter, 440, or dualband radios and antennas remember, we are a (501) (c) (3) corporation so any donations are tax deductible. The work party meets on Saturday mornings at 10:00 AM at Lee's house and all are welcome.

EMCOMM Every year there is an emergency communications conference called EMMCOMM. A combination of seminars, vendors and displays, it is like Pacificon but directed specifically at emergency communications. EMMCOMM 2002 is scheduled for April 20-21 in Palo Cedro (10 miles east of Redding). I planned on attending this event until I found out that there will be a Safety Fair in Rohnert Park the same weekend. Obviously a closer event is easier to attend and ARES can make a better showing locally so I will probably opt for this event. CDF, Red Cross, Salvation Army (?), and various other emergency and law enforcement groups will be in attendance. Maybe we'll even get "The Toaster" out there. If you have the time, mark it on your calendar.

As always, the ARES net meets on Mondays at 7:30 PM on the 146.73 repeater, - offset, 88.5 PL. Everyone is invited to check in.



THAT'S THE SNAP-OFF CONTROL PANEL - YOU GET THE REST OF THE RADIO WHEN YOU'VE MADE A FEW PAYMENTS

From *The Best of Beasley* by Robert Beasley
K6BJH Worldradio Books

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Sonoma County Radio Amateurs, Inc.
Membership Meeting 11-7-2001
MINUTES

1. Call to Order, Verification of Quorum - The meeting was called to order by Vice-President Gregory Gordon, AC6VJ at 7:37 PM at the Santa Rosa Agilent Technologies facility.
 - a. Introductions
 - i. Officers & Directors - The club officers and directors introduced themselves.
 - ii. Guest Speaker - Slide Show on U.S.S. Pampanito
 - iii. Visitors - AB9CF, N8ZM, N8ASB, WA4LYX, KK6WG, KD6FZL
 - iv. New Calls & Upgrades - None
2. Approval of Minutes - Mike AD6YB moved that the minutes of the 10-3-2001 membership meeting be approved as printed. The motion passed.
3. Officer & Director Reports
 - a. Vice President - Bill KH6GJV - Bill had nothing to report.
 - b. Secretary - Jeff Basham W2JAB
 - a. Mail and Communications - Jeff distributed the mail to the appropriate officers.
 - b. Camera Use - Jeff informed the membership that John Breckenridge had obtained a camera use permit for the club meetings at Agilent, through 2010.
 - c. Treasurer - Jim Lee KE6VGV was not present to make a report.
 - d. Directors - Rich Freitas KF6SZA - Rich thanked the SET participants, and announced that there would be a ARES face to face in 2 weeks. He also encouraged participation in the ARRL CCE Courses. John Mullan KD2L - John reported that there is a VE session in the works for the day after Thanksgiving for those who cannot attend the weekend sessions. Rick Reiner K6ZWB - Rick was not present to make a report.
4. Committee Reports
 - a. Activities Committee - Bill McCall W6WDM - Bill was not present to make a report.
 - a. Christmas Dinner - Bill H. went over the details for the Christmas dinner and reservation forms were passed out.
 - b. Newsletter Editor - Bill Hillendahl KH6GJV and Bill McCall W6WDM - Bill H. has nothing to report.
 3. Public Service - John Mullan KD2L thanked everyone for participating in the public service events this last year, and reported that there are no more scheduled events.
 4. Repeater Committee - Greg AC6VJ reported that all the equipment is working on English Hill, and that he had gotten communication from Riley Hollingsworth that there would be a decision rendered by November 20th, 2001. Greg also said that the repeater class would be going up to Castle Rock this week.
5. Unfinished Business - None
6. New Business -
 - i. Elections of 2002 BoD - The nominees were introduced and the ballots were handed out. The result of the election was the following:
President: Bill Hillendahl KH6GJV, Vice President: Brian Torr N6IY, Secretary: Jeff Basham W2JAB, Treasurer: Vicki Cero KF6ZCT, Director: John Breckenridge WB6FRZ, Director: Jim Lee KE6VGV
7. Show & Tell -
 - ii AC6VJ, KH6GJV and W2JAB presented the items that they brought for show and tell.
- h. Recess - There was a break.
- i. Program - There was a slide show about the U.S.S. Pampanito
- j. Raffles -
 - a. Regular - Bill Hillendahl KH6GJV won the 50/50 raffle. His split was \$19.50, and he donated it back to the club.
 - b. Lottery - Nancy Mitchell KB5LCR was selected for the membership lottery. She was not present, and the lottery rolled over.
11. Announcements
 - a. Next Program - Xmas Dinner @ Michele's
 - b. Board Meeting Next Wednesday - Furniture Traditions 6:30PM
12. Adjournment - The meeting was adjourned at 9:23pm

Sonoma County Radio Amateurs, Inc.
Board of Directors Meeting 01-16-02
MINUTES

- Board Members Present: Bill Hillendahl KH6GJV, Brian Torr N6IY, Jeff Basham W2JAB, Vicki Cero KF6ZCT, Jim Lee KE6VGV, John Breckenridge WB6FRZ and Greg Gordon AC6VJ
Guests Present: Mark Lockwood KK7CU
1. Call to Order, Verification of Quorum, Introductions - The meeting was called to order by President Bill Hillendahl KH6GJV at 6:34 PM. The meeting was held at Furniture Traditions, 3450 Airway Drive. A quorum was present in that all seven voting board members were present.
 2. Approval of Minutes - December 12, 2001 - This item was deferred, due to the minutes not being published in Shortskip.
 3. Officer & Director Reports
 - a. Treasurer
 - i. Current Financial - Vicki Cero KF6ZCT gave the current financial report.
 - ii. Year End Report - Jim Lee KE6VGV presented the year end report and 2002 budget to the board. Jim moved that the budget, as amended, be accepted. The motion carried.
 - iii. Audit Report - This item was deferred.
 - b. Officers
 - i. Vice President - Brian Torr N6IY - Brian had nothing to report.
 2. Secretary
 1. Mail & Communications - Jeff W2JAB handed out the mail to the appropriate officers.
 2. ARRL Information Update - Bill KH6GJV asked Jeff to update the information about the club on the ARRL website, and the Pacific Division Website.
 - c. Directors
 - i. Jim Lee KE6VGV - Jim had nothing to report.
 - ii. John Breckenridge - John had nothing to report.
 4. Committee Reports
 1. ARES - Rich Freitas KF6SZA - Rich updated the board on the activities of the ARES unit. He also reported on the "Rolling Toaster" Communications Van.
 - b. Activities Committee - Bill McCall W6WDM was not present.
 - i. Christmas Dinner (Michele's) - The Board discussed the possibility of having a partial or full pot luck for the 2002 Christmas dinner. Brian N6IY and Rich KF6SZA will look into possible locations.
 - ii. Trip to Alcatraz - No new information.
 - c. Newsletter - Bill KH6GJV and Bill W6WDM - Rich KF6SZA proposed that each board member write at least one article during the year.
 - d. Public Service Committee - John KD2L was not present.
 - e. Repeater Committee - Greg Gordon AC6VJ
 - a. Status of Repeaters - Greg advised that everything seemed to be working normally. He also reported that he is working on the 70cm repeater from English Hill.
 - b. Status of FCC Complaint - under review by FCC
 - c. Net Control Operators - 2/5 - VJ, 2/12 - IY, 2/19 - GJV, 2/26 - FRZ
 5. Unfinished Business
 - a. Meeting Programs - Feb - Brian N6IY and John WB6FRZ will arrange something.
Future program ideas - NWS Skywarn, Marconi Sites, CDF, N1AL on RFI
 - b. Club Calendar - Not Yet issued.
 6. New Business
 - a. 2002 Budget and Dues - Discussed Earlier
 - b. Appointments by BoD
 1. Activities Chairman - John WB6FRZ moved that Mark KK7CU be appointed Activities Chairman. Mark accepted the nomination, and the motion carried.
 2. Public Service Chairman - Brian N6IY moved that John Mullan KD2L be appointed Public Service Chairman. John had previously accepted the nomination, and the motion carried.
 3. Repeater Chairman - Bill KH6GJV moved that Greg Gordon AC6VJ be appointed Repeater Chairman. Greg accepted the nomination, and the motion carried.
 4. License Trustees - Jeff W2JAB moved that Greg Gordon AC6VJ be appointed the trustee for W6SON, and that Al Bloom (upon his accepting the nomination) be appointed the

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 GPIB (IEEE-488) interface Boxed, w/ manual, cord, 90-day warranty HSC# 19131	Computer Power Supply, ATX, 145W HSC# 18350	\$9.95
Rechargeable 12VDC Battery 40 AH, lead/acid, Yuasa NPX-150R HSC# 18917	Network card, ISA bus, 10-Base T HSC# 18943	\$4.95
Server Cabinet, ATX rack mount, with Power Supply, White color HSC# 80541 New Price!	Computer Speakers, powered HSC# 18662	\$9.95
SCSI Controller, Initio, PCI Bus HSC# 18218 New Price!	Compact AC Inverter for the car, 100W HSC# 19021 New Price!	\$14.95
SCSI Controller, Adaptec 1505, ISA Bus HSC# 17995 New Price!	Motherboard, 486DX4 AT HSC# 18529 New Price!	\$9.95
Mouse, 2-button HSC# 18731	Motherboard, Baby AT, 486VLB HSC# 19003	\$9.95
Mouse, w/ numeric keypad HSC# 80539	Multimeter, analog, VOM HSC# 18260	\$9.95
Scrolling mouse, translucent body HSC# 18629	Multimeter, DMM, with transistor check HSC# 80370	\$14.95
Computer Power Supply, ATX 200W, "Mini-Tower"-style HSC# 18665 New Price!	Multimeter, DMM, tilt-up display, nice! HSC# 80504	\$39.95
	Computer Joystick, "FX2000" HSC# 18772 New Price!	\$3.00
	Tower Chassis, 7-Bay "RAID" HSC# 80544	\$42.50

Disk Drive Deals!

- Seagate ST15150N 4.1 GB "Barracuda" SCSI
 - 7,200 RPM, 8.0/9.0 ms avg. seek time
 - 21 Hds, 11 Disks, 3,711 Cyl.
 - Standard 50-pin SCSI
 - 3.5" size, half-height (1.5" tall)
 - Refurb. 90-day warranty
- HSC# 18412 \$32.50**
- Seagate ST1917WC Ultra-SCSI Wide Area
 - Formatted capacity: 9.1GB
 - Spindle speed: 7200 RPM
 - 3.5" size, half-height (1.5" tall)
 - 90-124 mb/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 (85CA23700) or 68-pin (85CA23720) Adapter for \$10.00!
Normally a \$20 - 30 value!

PCMCIA Goodies!

- EPSON Ethernet PCMCIA interface card
 - Both 10Base2 and 10BaseT cables included!
 - Compatible with notebook PCs with Type II slots
 - Hot card insertion and removal - no power down
 - No jumpers or switches - two LED status lights
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- HSC# 19125 \$9.95**
- Intel "PRO/100" PCMCIA Network Adaptor Card
 - MBL 1000 LAN card supports 10BaseT/100BaseTX
 - For PC Card Type II sockets, 32KB packet buffer
 - Full duplex support (10Mbps networks only)
 - Ethernet Spec. IEEE 802.3 & 802.3u spec
 - With RJ45 cable, OEM packed, 90-day warranty
- HSC# 19190 \$39.50**
- Epson/Adaptec AP4460B PCMCIA SCSI Card
 - Up to 2 MByte/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-105 player deck
- Dual power option - 110VAC or 12VDC!
- Perfect for entertaining the kids in the van!
- Many other uses... home, business, camping...
- Standard VHS format, full front-panel controls, soft-touch buttons with LEDs
- Remote control sensor on front panel - remote NOT included... may work with generic remotes?
- Renowned 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 inline connection
- Rear panel switch selects Ch. 3 or Ch. 4 output
- RCA jacks for line level video/audio connect
- Pulled from working service. Units have slight markings from removed infrared transmit element covering front panel infrared detector. Remote NOT included.
- For 110VAC, 60Hz operation
- Renowned from working service, 90-day HSC warranty

HSC# 19152 \$17.50!

External CD-RW!



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

HSC# 19036 \$49.50

Lab Bench Supply!

- Model No. AEEC-350, 0-50VDC @ 3 Amp
- 110VAC, 60Hz - 150VA - small footprint!
- Dual digital meters for voltage and current
- Short-circuit protected, grounded 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 now in box, made in China
- Model AEEC-500VR
- 0 - 120 VAC output, 500 VA
- Measures 6.5" x 9" x 7" tall
- Features meter, illuminated switch, line cord, fuse

HSC# 80474 \$45.00

- Our most popular model!
- Model AEEC-200VR
- 0 - 120 VAC output, 200 VA
- Measures 6" x 10" x 9.5"
- Features meter, illuminated switch, line cord, fuse

HSC# 80461 \$95.00

Solder Pots!

- Finally... we found a source for solder pots! New, 90-day HSC warranty, very handy for the workbench!
- AEEC-10P - handy compact desktop unit
 - 110VAC, 110 Watts - perfect for small jobs
 - Adjustable temp. levels - 300 to 430 deg. C
 - Bath dimensions: 38mm dia x 30mm deep

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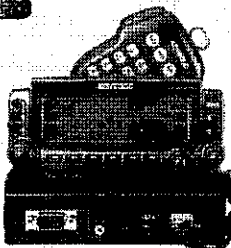
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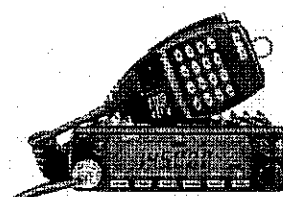
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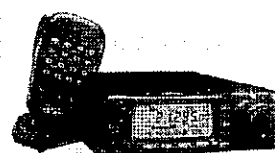
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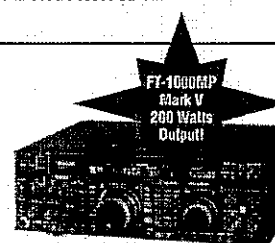
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