

Calendar of Events

Oct 3	Wed	5:30 PM	Dinner at Marie Callenders, 2460 Mendocino Ave, Santa Rosa
		7:30 PM	SCRA Meeting, Agilent Technologies, 1400 Fountain Grove Prkwy, Santa Rosa
Oct 5	Fri	7:30 PM	Marin ARC Meeting, Alto Clubhouse, 27 Shell Road, Mill Valley
Oct 6	Sat	10:00 AM	Red Oak Victory ARC Meeting, Point Richmond
Oct 10	Wed	6:30 PM	SCRA Board of Directors Meeting, 3450 Airway Dr., Santa Rosa
Oct 17	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. Guest Speaker: ARRL Pac Div Dir Jim Maxwell W6CF
Oct 19	Fri	8:00 PM	San Francisco ARC; VA Medical Center, 42 nd Ave & Clement, San Francisco
Oct 19-21			Pacificon , Concord Sheraton
Oct 22	Mon	7:00 PM	Willits ARS Meeting, Brooktrails Firehouse, Willits

Sonoma County Radio Amateurs, Inc.

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

ADDRESS SERVICE REQUESTED

Time Sensitive Material - Please Deliver Promptly

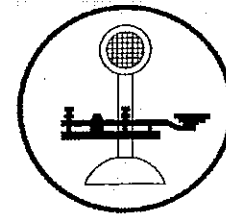
Presort Standard
U.S. POSTAGE PAID
SANTA ROSA, CA

PERMIT NO. 658

Expires: 03/01/2002

John Breckenridge
574 Wild Oak Dr
Windsor CA 95492

WB6FRZ



Club Station
W6LFJ

Short Skip

newsletter of the

Sonoma County Radio Amateurs, Inc.

P. O. Box 116, Santa Rosa, CA 95402-0116
(707) 579-9608

<http://www.sonomacountyradioamateurs.com>

Repeaters

146.73- • 224.48- • 441.375+



Repeater Station
W6SON

Volume 26 Number 10

October 2001

Spunko's Sparks

By
Gregory Gordon
AC6VJ
SCRA President



The end of this successful year is rapidly approaching, yet there are still important things to accomplish.

The annual Christmas party will again be held at Michele's Restaurant on Wednesday, December 5th. Please mark your calendar so that you will not miss this special social gathering.

We are already planning for next year's activities, specifically Field Day and the Swap. Please read **Brian Torr's N6IYY** ideas in this edition. We welcome your comments on his ideas to simplify Field Day. We need to hear from you, so please call a Board member or send an e-mail with your thoughts to: mail@sonomacountyradioamateurs.com.

The swap meet this last weekend was great. We had more vendors than last year and it appears that there was a bigger crowd. We look forward to a bigger swap next year.

Last, but not least, election of the club officers for 2002 will be at the November meeting. Consider running for office or volunteering for a position. It's your club. How about jumping in and helping keep the club the top club in several counties!

73,

Gregory AC6VJ

Swap Meet a Blast!
New Ham/Member Wins HT

The morning started early as usual with club members arriving at 6 AM to get set up. Ingenuity prevailed when the school's custodian arrived late to open the gate. Members and vendors found unique entrances pending the custodian's arrival and had already started to get ready for the buying crowd which started arriving just prior to 7 AM.

Ted DeCroff KB6PTA showed his usual mastery of the refreshment stand. The visitors consumed quite an unexpected stack of donuts. **Gregory Gordon AC6VJ** and **Lee Dibble KE6EAO** were making deals at the club's table peddling goodies that had been brought by the members and club stuff to eager shoppers.

John Mullan KD2L ran a VE session with a reported 15 people taking tests. **Brian Torr N6IYY** ran a radio testing station where visitors could test the frequency accuracy, power output and deviation of their rigs.

Vicki Cero KF6ZCT, **Brian Lukrich KG6AQT** and **Jeff Basham W2JAB** worked the crowd selling raffle tickets for the Kenwood Tri-Band HT and the door prizes. The door prizes were courtesy of the **ARRL**, **HSC Electronics** in Rohnert Park and **World Radio** magazine. As usual, it was a good collection of prizes.

The grand prize winner was one of our newest and youngest members, **Karl Johnston K6QMT** (formerly **KG6HSC**) who had just signed up as a club member with his Dad that morning. Karl won the Kenwood TH-F6A Tri-Band HT which will be delivered as soon as Ham Radio Outlet receives its first shipment. Congratulations, Karl!

On to Swap Meet 2002!

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 & 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
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.

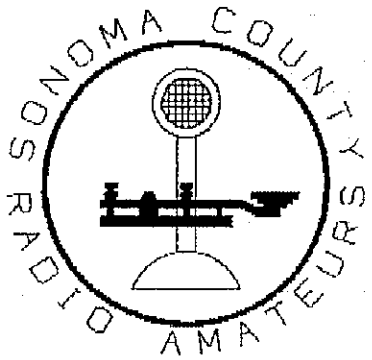
Short Skip Advertising Rates

Business Cards	\$ 12
1" Quarter Column	\$ 13
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.

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!



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

October 3th

7:30 PM

Program:

Using Spec Analyzers & Testing Your HT

(see article for details)

Letter from the Diabetes Society

Dear John (Mullan):

I would appreciate it if you would forward this to the radio folk who helped at the bike ride.

The Diabetes Society of Sonoma County greatly appreciates your support and assistance on last Sunday's Bike Festival. We truly couldn't have put on such a good time without you.

We'd also like your comments on the good points of the day and what might be improved. I would appreciate it if you would forward this to the radio folk who helped at the bike ride.

Once again, thanks and I hope to see you on the 29th.

Vin Hoagland
Chairman
Diabetes Society of Sonoma County Bike Festival

WANTED



Do you know this person?

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 _____

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)

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 \$ _____

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

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

Badge Information

Call Sign _____

First Name _____

City _____

Autoslot Request:

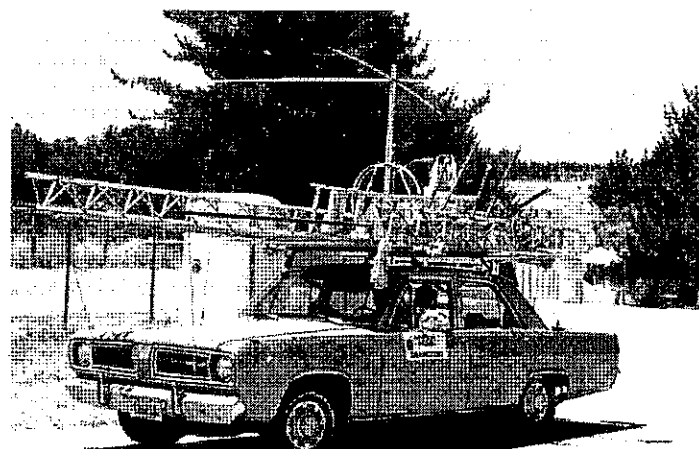
Licensed SCRA members are able to request an auto-dialing "autoslot" for the repeater phone patch. Complete the information below and send the form to the club.

Name _____ Call _____

Phone # for slot _____

Current list of Public Service Events:
9/29&30 - Waves to Wine

- d Repeater Committee - Greg Gordon AC6VJ
 - i. Net Control Operators - 10/2 - KE6VGV, 10/9 - AC6VJ, 10/16 - KH6GJV, 10/23 - N6IYY, 10/30 - KD2L/K8SUE
 - ii. Status of Repeaters - Greg reported that 2 meters, 220 and 440 are up and running on English Hill. Greg said he is going to start repeater classes again next month. Signup with Jeff W2JAB if you are interested.
146.730 Status - A letter to Riley Hollingsworth is in the works. It will be sent in the next few days.
 - iii. Surplus Repeater Equipment - Greg reported that the club has surplus repeater batteries and two surplus repeaters. It was decided that the Batteries would be at the club table at the Swap meet, and the Uniden and Repco repeaters be put on EBay.
- 6. Unfinished Business
 - a. Meeting Programs - Oct - Spectrum Analyzers / Test Station, Nov - Elections & Slide Show of U.S.S. Pampanito (Maybe), Dec - Christmas Party @ Michele's.
 - b. Club Calendar - January meetings will be pushed back one week, due to New Years. The regular meeting will be on the 9th, and the board meeting will be on the 16th.
- 7. New Business
 - a. ARES Future - Rich discussed the future of ARES, and what plans he has for the group with the board.
 - b. Field Day Reservation - Bill KH6GJV suggested that the club decide on where they will hold Field Day 2002, and make the reservation soon. He asked Jeff W2JAB to put it on the agenda for next month.
- 8. Announcements - None
- 9. Adjournment - The meeting was adjourned at 7:47 PM



Now that's some serious HF mobile. Do you know who this is?

CDS ENTERPRISES
Communication is the Heart of Business

Steve Carniglia
707 573 3500

Voice Mail / Paging
Internet Service Provider
Software Support
725 Farmers Lane #17
Santa Rosa, CA 95405

415 884 1904
Fax 707 573 3516
E-Mail steve@cdsl.net
<http://www.cdsl.net>

Field Day 2002 Brainstorming Session

At our September meeting, we held an impromptu brainstorming session on what we should do for Field Day 2002. We would like to continue this brainstorming at the October meeting, so put your thinking caps on! The key rule to remember in a brainstorming session is that we do not discuss the ideas, we merely record them. This makes the session fast-paced and allows for more ideas to be expressed in a relatively short period of time.

There seemed to be a renewed enthusiasm for emphasizing the contesting aspect of Field Day. This would represent a departure from the public awareness aspect that we have been emphasizing the last several years. What do you think should be the emphasis on Field Day?

Also, be thinking of ways we could improve club participation in Field Day. This is a big event, and requires a lot of help to pull it off.

Here are the ideas recorded at the September meeting:

1. Team up with REDXA
2. Move Field Day to Finley Park (from Santa Rosa Youth Park)
3. Team up with other clubs, such as VOMARC
4. Focus on contesting
5. Get Boy/Girl Scout involvement
6. Less emphasis on socializing (separate social event?)
7. Move Field Day to Annadel State Park
8. Need more volunteers
9. Set up subcommittee(s) to focus on bonus points (i.e. natural power QSOs, message handling, etc).
10. Make sure logs are prepared well in advance and operators are trained on logging procedures and logging software.
11. Set up a "beginner's station" as a substitute for the Novice station.

If you will not be able to make it to the October meeting, please feel free to call me or e-mail me with your ideas.

Let's make Field Day 2002 a great event!

73,

Brian Torr, N6IYY
n6iyy@arrl.net
(707) 575-5871

October Program

October's program will be a presentation on how to use spectrum analyzers by **Brian Torr N6IYY**. Brian will also have a test station set up to show members how to test their radios for power, frequency stability, deviation/modulation and spurious emissions. Bring your favorite HT or mobile rig and let Brian put it through its paces.

At the September meeting, **George Rothbart KF6VSG** presented his design of a radio link via the internet. George made it sound simple setting up the hardware and using the software that he developed and allows to be used for free. George developed the system at the request of his teenage son, also a Ham, who wanted to build a link to talk to his Dad when he was on trips.

Public Service Events Calendar

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

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

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.

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!

California QSO Party Coming! October 6 & 7

CQP is the premier state QSO party. Last year there were over 7,000 active hams involved in some way or other. The vast majority get on the bands and give a few QSOs to the more serious contesters, but then stick around and join in the activity looking for those CA counties. We are again doing advance planning work to insure that all 58 CA counties will be on the air and active during this event. In fact, if you happen to be in one of the rarer counties you can easily have a pile up.

CQP is not just for HF. It also includes 6 and 2 meters. Unknown to many, CQP also has a club competition. It can be a great club activity to organize your club to get as many members as possible on the air and send in their logs to help your club achieve a high total score.

Full rules and other information is easily available at <http://www.cqp.org>.

Tks & 73,

Al AD6E AD6E@arrl.net

Pacificon 2001 is Coming!

October 19, 20 & 21

Concord Airport Sheraton Hotel
Concord, CA

for more information check

www.pacificon.org

Get Your Tickets Today!

PARTS PROFESSIONALS // WHOLESALE-RETAIL // NO REPAIRS

BASHAM'S ELECTRONIC SUPPLY

345 West College Ave., Santa Rosa, CA 95401

Mon.-Fri. 8:00-5:30
Saturday 9:00-12:00
Sunday Closed

Steve Basham
OWNER

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



ARES Comm Log

by Rich Freitas KF6SZA
Greater Santa Rosa
Emergency Coordinator

The Purpose of SET

This month, October, brings us the annual ARRL Simulated Emergency Test (SET for short). Many hams not involved in emergency and public service radio have criticized these exercises as just so-much useless role-playing. Indeed, even some involved hams occasionally tire of passing made-up messages just for the sake of filling up bandwidth. We need to ask ourselves if the SET really accomplished any goal.

The answer is, if done right, ABSOLUTELY YES! We all know that exercise messages are not real. In fact, it doesn't matter if they're even believable. The real purpose of SET is to strengthen our ability to accurately pass traffic in an orderly manner. It really has no bearing on whether the drill is about an earthquake, a fire, or an invasion of little green men. What does matter is if we have the capability to initiate a message at one point, relay it via amateur radio, and have it correctly received at a desired destination. That's it! Remember, we are communicators our job is to get the message through.

Realistically speaking, as horrific as the terrorist attack in Manhattan was, the collapse of the World Trade Center is a drop in the bucket compared to the mass destruction an 8.0 magnitude quake can cause. The attack was contained in a relatively small geographical area whereas a major quake or the use of WMD (Weapons of Mass Destruction) would cause much more damage and loss of life. As contained as the WTC event was, communications were a mess.

Despite news coverage showing people at 'Ground Zero' using their cell phones, that was not the case in the sense that people might assume. They were dialing numbers, true, but they did not get through! The only cell phones that worked, occasionally, were special 'dedicated' Private Virtual

Network phones such as NEXTEL. This situation occurred as the result of two factors: massive blocking by health & welfare telephone messages and by physical destruction of several telephone and cell phone exchanges. The New York Telephone building is 400 feet from the North East Tower of the World Trade Center – three times as close as the WTC was tall. AC power was cut to the building; its switching equipment (that which was still working) was working on 48-volt battery backup usually engineered for eight hours power. The two WTC buildings each had both PABX and NY Bell local switching equipment that was totally destroyed.

The Police and Fire Public Services regular commercial radio channels were also completely overwhelmed with blocking traffic. They were not engineered for the voice/data traffic levels required to coordinate the efforts of almost a thousand police and fire professionals nor were they designed to coordinate the efforts of thousands of additional non-professional volunteers. And, maybe most important of all, they were not engineered to provide inter-linked 'broadcasts to all'. What was available was Amateur Radio.

The entire New York City area had bandwidth in the HF, VHF, UHF and SHF Amateur frequencies cleared for emergency traffic. There was an existing large inventory of portable amateur radio sets in place at OES. There was also an additional large inventory of portable radios with licensed and capable radio operators on-scene at both 'Ground Zero' and pulling shift work on a round-the-clock OES Communications Central.

The traffic did not consist only of 'health & welfare messaging' but Priority One Directives issued through the OES communications facility. Many broadcast messages were relayed from the top levels of NY City government to the public service employees working on the rescue effort providing immediate communications including a 'warning to evacuate' when #1 Liberty Plaza Tower was indicating imminent collapse at any moment. In NY the usual concepts of Amateur Radio being merely a tertiary communications application – a redundant 'backup' and 'health & welfare messaging' system – were historically overturned forever. In a real disaster of titanic proportions – in an 8.0 magnitude earthquake, in a military attack resulting in mass destruction, or in a targeted attack on specific key communications nodes in ALL these situations Amateur Radio will be a PRIMARY, not tertiary, communications system for the mission essential messaging of City, State, and even Federal Command and Control.

That is why we have the SET.

(Information regarding WTC communications from the 5-1-2 Regional ARES Bulletin by David and Nannette Thorne)

- Sonoma County Radio Amateurs, Inc.
Membership Meeting 9-5-2001
MINUTES
- Call to Order, Verification of Quorum - The meeting was called to order by President Gregory Gordon AC6VJ at 7:36 PM at the Santa Rosa Agilent Technologies facility.
 - Introductions
 - Officers & Directors - The club officers and directors introduced themselves.
 - Guest Speaker - George Rothbart KF6VSG was introduced.
 - Visitors - K6RBF, KG6HSC, KQ6OB, Wally, Roslan (from Russia)
 - New Calls & Upgrades - AD6YB (new Call, ex KD6ZZD)
 - Approval of Minutes - Jim Robinson KE6UAR moved that the minutes of the 8-1-2001 membership meeting be approved as corrected. The motion passed.
 - Officer & Director Reports
 - Treasurer - Jim Lee KE6VGV gave the club's financial rundown. He also reported changes with the ARRL's commission program.
 - Officers -
 - Vice-President - Bill Hillendahl KH6GJV - Bill was not present to make a report.
 - Secretary - Jeff Basham W2JAB - Jeff reminded members to pick up their membership badges, and invited members to review the binder of other club's newsletters that the SCRA receives. He also gave a rundown of the raffle for the evening.
 - Directors -
 - Rich Freitas KF6SZA - Rich invited all members to check into the ARES net on Monday evenings at 7:30pm on the 146.730MHz. He also announced that there would be a SET sometime between Sept and November. If you are interested in helping plan the SET, please contact him.
 - John Mullan KD2L - John reported that the next VE session will be at the SCRA Swap Meet.
 - Rick Reiner K6ZWB - Rich updated the membership on the swap meet.
 - Committee Reports
 - Activities Committee - Bill McCall W6WDM - Greg AC6VJ asked for volunteers for the SCRA Swap Meet, and passed a signup sheet.
 - Newsletter Editor - Bill Hillendahl KH6GJV and Bill McCall W6WDM - Bill H. reported that he is going to submit the newsletter to a organization that rates Amateur Radio Club Newsletters.
 - Public Service - John Mullan KD2L passed out signup sheets for the Diabetes Ride and the Waves to Wine.
Current list of Public Service Events: 9/16 - Diabetes Ride; 9/29, 30 - Waves to Wine
 - Repeater Committee -
 - Greg reported that our 2 meter machine is no longer "howling" - if you wish to know technical details behind the fix, please contact him.
 - Update on SCRA/County of Sonoma dispute - Greg AC6VJ reported that NARCC gave the frequency to the County of Sonoma. The Board is going to submit a follow up to the complaint we filed with Riley Hollingsworth. He also said that Repeater Classes would be starting soon.
 - Unfinished Business -
 - Greg reported that nominations for the Board of 2002 would be opening next month.
 - New Business -
 - Club Generator - Al WA6MXI, Bob K6QXY and Josh AD6XI reported that they are working on refurbishing the club generator. They gave a rundown of supplies and parts they will need. Mike AD6YB moved to spend no more than \$500 to refurbish the generator to 1st Class Quality. The motion carried. Jim KE6UAR moved that the generator be painted a "Battleship" Gray. The motion Carried.
 - Show & Tell -
 - AC6VJ - Greg Showed off a broken connector from the English Hill repeater Site.
 - KB6PTA - Ted explained and showed his new "Catch a Call" internet call waiting system.
 - Brian N6IY led a discussion regarding Field Day 2002.
 - Recess - There was a 14 minute break.
 - Program - George KF6VSG made a presentation about his Internet

- Repeater System.
- Raffles -
 - Regular - Greg AC6VJ won the 50/50 raffle. His split was \$16, and he donated it back to the club.
 - Lottery - Mike AD6YB won the membership lottery. The amount was not reported.
 - Announcements
 - Greg AC6VJ reported that the next program presentation will be announced in Short Skip, and that the Board meeting is next Wednesday at Furniture Traditions, 6:30pm.
 - Adjournment - The meeting was adjourned at 9:30pm

Sonoma County Radio Amateurs, Inc.
Board of Directors Meeting 9-12-01
MINUTES

Board Members Present: Greg Gordon AC6VJ, Bill Hillendahl KH6GJV, Jeff Basham W2JAB, Jim Lee KE6VGV, Rich Freitas KF6SZA, John Mullan KD2L, 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

- Call to Order, Verification of Quorum, Introductions - The meeting was called to order by President Greg Gordon AC6VJ at 6:41PM. The meeting was held at Furniture Traditions, 3450 Airway Drive. A quorum was present in that all seven voting board members were present.
- Approval of Minutes - John KD2L moved that the minutes of the August 8, 2001 board meeting be approved as corrected. The motion passed.
- Approval of Minutes - Rich KF6SZA moved that the minutes of the August 16, 2001 Special Board of Directors Meeting be approved as submitted. The motion passed.
- Officer & Director Reports
 - Treasurer - Jim Lee KE6VGV
 - Current Financial - Jim reported that the club's books have had no significant changes since his last report.
 - Status and/or Review and acceptance of audit report - No update.
 - ARRL Commission Rate Changes - Jim reported that the ARRL has revised their commission rates. The club no-longer receives a commission for ARRL renewals, but we get \$15 for each new ARRL member, where we used to get only \$5.
 - Officers
 - VP - Bill Hillendahl KH6GJV - Bill had nothing to report.
 - Secretary - Jeff Basham W2JAB
 - Mail & Communications - Jeff distributed the mail to the appropriate officers.
 - Directors
 - John Mullan KD2L - John reported that the next VE session is scheduled for the SCRA swap meet.
 - Rich Freitas KF6SZA - Rich reported that he is having problems contacting other agencies for an inter-agency SET. He may write his own exercise.
 - Rick Reiner K6ZWB - Rick had nothing to report.
- Committee Reports
 - Activities Committee - Bill McCall W6WDM
 - SCRA Swap Meet - Discussion was held regarding the Grand Prize. Jim KE6VGV will submit payment to HRO. The grand prize will be the new Kenwood TH-F6A tri-band handheld. Rick K6ZWB reported that he talked with Lewis Adult Education Center and they have us on the plans. Ted KB6PTA is going to handle refreshments. Rich KF6SZA will get tables and chairs for the club to use. Randy KE6VMZ, Jeff W2JAB, and Rick K6ZWB will bring ice chests, and donate the ice to go in them. Jim KE6VGV and Greg AC6VJ are going to drive their pickup trucks for haul-away after the swap. Jeff W2JAB is going to think up a raffle winner display. The board should bring flashlights and be there by 6:00am. Prices for refreshments were decided as the following: \$.50 cents for Donuts, Coffee, and \$1.00 for Sodas.
 - Newsletter - Bill KH6GJV and Bill W6WDM - The editors had nothing to report.
 - Public Service Committee - John Mull KD2L - John reported that he has sent assignments out for the Diabetes Ride, and is still recruiting for the Waves to Wine on the 29th, and 30th.

J. Mullan, Photographer
330 Manka Circle
Santa Rosa, CA 95403
(707) 575-9176
jmullan@pacbell.net

John C. Mullan
Photographer

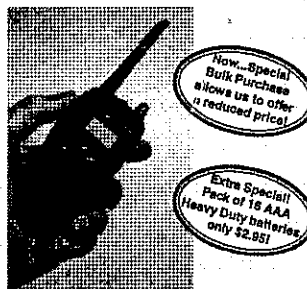
HSC Electronic Supply

Serving Silicon Valley since 1964!

...brings you a potpourri of high-tech goodies for the techno-tinkerer!
For thirty years we have been your source for Silicon Valley exotica!

License-Free Two-Way Radio!

- Fanon "Coulter KF-310, factory-new in box!
- Stay in touch at the park, in the mall or on the road!
- Transmits up to two-mile range without a license!
- Full-power (5W) with extras not found on others!
- LCD backlit display for use day or night!
- Uses new "Family Radio Service band" - all 14 channels, plus 38-channel CTCSS encode-decode
- VOX or Push-to-talk, w/3-type call tone
- 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!



HSC#18198 **\$39.95/ea**
...or Get TWO for **\$74.95**

CD-R Media Bargain!

- "Artmedia" 8X speed premium CD's...
- 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 disks -- 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 on/off switch, SCSI ID switch, fan-cooled switching power supply. Attractive beige color, curved front panels. Rear panel is punched for SCSI-1 (CN-50) daisy-chain connectors. Internal SCSI cable not included. Brand new in box, 90-day warranty.

- Two-bay case
- RCA 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**

Multimeter Specials!

- Model #AECO-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:
- 1000VDC, 700VrmsAC, 200 ohm - 200 Megohm, 20 mA - 20A, 2nF - 20 uF, NPN/PNP HFE
- Separate jacks for capacitors and transistors
- 'HOLD' function to capture measured peaks
- Soft rubber cradle protects meter, prevents slides
- 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...
- Soltec HM102B 20 Mohm 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 parallax-corrected readings
- New...90-day warranty



HSC# 18260 **\$9.95**

Disk Drive Deals!

- Seagate ST321271N "Barracuda 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-301 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 80 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

HSC#18361 **\$9.95**

- Keep after the glitches with "Fix-It Utilities 99"
- Powerful diagnostic and repair package
- View, open/convert 12 file types, 4 email formats
- Over a dozen hardware diagnostics
- NTFS, FAT, and FAT32 disk repair
- Integrated views for Word, Excel, PowerPoint, AVI files...MORE!
- For Windows 95, 98 & NT

HSC#18362 **\$9.95**



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

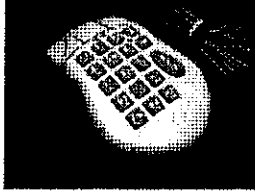


HSC# 80540 **Black \$195.00**
HSC# 80541 **Cream \$195.00**

Keypad Mouse!

- 'Unit' 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 **\$9.95**



Talk to your Computer!

- "Voice Express - Standard" software by L & H
- Talk...and your computer does the rest!
- Leams 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!

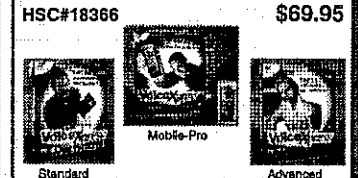
HSC#18365 **\$14.95**

- "Voice Express - Advanced" software by L & H
- Leams 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!

HSC#18364 **\$19.95**

- "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

HSC#18366 **\$69.95**



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/air cooling fan
- Standard ATX form-factor
- Brand-new, 90-day warranty

HSC# 18350 **\$12.95**



- Lite-ON model no. PS-4151-0B, 150 watts
- 5V @ 18A, 5V @ .3A, 12V @ 4.6A, -12V @ 0.3A
- Hi-Pot tested w/air 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

HSC#18304 **\$17.50**



HALTED specialties co. HSC Electronic Supply

Toll Free (Orders Only) 1-800-4 HALTED (1-800-442-5833)
Internet World Wide Web: <http://www.halted.com>
3500 Ryder St., Santa Clara, CA 95051 (408) 732-1573
4837 Amber Ln., Sacramento, CA 95841 (916) 338-2545
5681 Redwood Dr., Rohnert Park, CA 94928 (707) 585-7344 FAX your orders to: (408) 732-6428

Watch HSC's Website!

- Changes are coming to our website...stay tuned!
- Simply point your browser to <http://www.halted.com>
- We plan secure shopping, with shopping basket!
- Or, you can email your orders to hscmail@halted.com

Weekly Web Specials!

- A new section has been added to our web page!
- Simply go to www.halted.com and click the top button!
- Items from our ads, as well as non-advertised items
- Also, you can download our catalog as Adobe PDF files

Terms: Some quantities limited; all items subject to prior sale. Minimum order: \$16.00 plus shipping. Orders under \$20.00 subject to \$2.00 handling fee, in addition to shipping. All orders shipped FOB Santa Clara, CA (this means you pay freight!) by UPS Surface (no P.O. Boxes) unless otherwise specified, in which case prevailing carrier rate plus \$5.00 handling fee applies. Prepaid orders that don't include shipping charges will be shipped freight COD. There is a \$5.00 UPS charge added to shipping charges for COD shipments. If you have questions about your order, please call Customer Service at (408) 732-1854 M-F 9AM to 5PM PST.

ANAHEIM, CA
(Near Disneyland)
933 N. Euclid St. #2801
(714) 533-7573
(800) 854-6046
Janet, K1ZMF, Mgr.
anaheim@hamradio.com

BURBANK, CA
2492 W. Victory Bl., #1506
(818) 842-1788
(800) 854-6046
Eric, K8AGU, Mgr.
Victory Blvd. at Buena Vista
1 mile west US
burbank@hamradio.com

OAKLAND, CA
2210 Livingston St., #4606
(510) 534-5757
(800) 854-6046
Mark, W1ZYN, Mgr.
I-880 at 23rd Ave. ramp
oakland@hamradio.com

SAN DIEGO, CA
5375 Kearny Villa Rd., #2123
(619) 580-4600
(800) 854-6046
Tom, K6GK, Mgr.
Hwy. 163 & Claremont Mesa
sandiego@hamradio.com

SUNNYVALE, CA
510 Lawrence Exp., #102
#4085
(408) 738-0466
(800) 854-6046
Ken, K1ZKM, Mgr.
So. from Hwy. 101
sunnyvale@hamradio.com

NEW CASTLE, DE
(Near Philadelphia)
1509 N. Dupont Hwy., #720
(302) 322-7092
(800) 644-4476
Rick, K3TL, Mgr.
Rt. 13 1/4 mile So. F-205
newcastle@hamradio.com

PORTLAND, OR
11705 SW Pacific Hwy.
#7223
(503) 598-0555
(800) 854-6046
Rich, N7FD, Mgr.
Hwy. 99W exit
from Hwy. 5 & 217
portland@hamradio.com

DENVER, CO
3400 E. Judd Ave., #0231
(303) 745-7373
(800) 444-9476
Joe, KD0GA, Mgr.
John, N5EHP, Mgr.
denver@hamradio.com

PHOENIX, AZ
1999 W. Denker Ave., #5021
(602) 242-8616
(800) 444-9476
Gary, N7GJ, Mgr.
1 mile east of I-17
phoenix@hamradio.com

ATLANTA, GA
6071 Buford Hwy., #0340
(770) 263-0700
(800) 444-9476
Mark, K14VO, Mgr.
Doraville (off I-285)
atlanta@hamradio.com

WOODBRIE, VA
(Near Washington D.C.)
14803 Bullitt America Dr.
#28191
(703) 845-0633
(800) 444-4759
Mike, K4MDK, Mgr.
Exit 161 I-95 So. to US-1
woodbridge@hamradio.com

SALEM, NH
(Near Boston)
224 N. Broadway, #03079
(603) 899-3750
(800) 444-0047
Chuck, K4MZE, Mgr.
salem@hamradio.com
Exit 31 I-93
2.5 mile N of Boston
salem@hamradio.com

12 Store Buying Power!



HAM RADIO OUTLET

WORLDWIDE DISTRIBUTION

KENWOOD



TS-2000 HF/VHF/UHF TCVR

- 100W HF, 6M, 2M • 50W 70CM
- 10W 1.2 GHz w/optional UT-20 module
- IF Stage DSP • Built-in TNC, DX packet cluster
- Backlit Front Key Panel

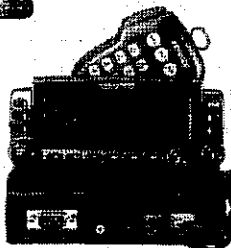
Call Now For Low Intro Price!



TH-D7A(G) 2M/440

- 2M/440 Dual Band
- Built-in 1200/9600 Baud TNC
- APRS Compatible
- DX Packet Cluster Monitor
- 200 Memos, CTCSS
- VC-H1 Messaging Control

Call Now For Low Pricing!



TM-D700A 2M/440 Dualband

- 50W VHF 35W UHF • Opt. Voice Synthesizer
- Receives 118-1300 mHz (cell blocked)
- Remote Head Inst. only (kit included)
- 200 Memories • Built in 1200/9600 baud TNC
- Advanced APRS Features
- Dx Packet Cluster
- Tone Scan • GPS/VC-H1/PC Ports

**COAST TO COAST
FREE SHIPPING**
UPS - Most Items Over \$100



**Rapid Deliveries From
The Store Nearest To You!**

OAKLAND, CA

2210 Livingston St., #4606
(510) 534-5757
(800) 854-6046
Mark, W1ZYN, Mgr.
I-880 at 23rd Ave. ramp
oakland@hamradio.com

SUNNYVALE, CA

510 Lawrence Exp. #102, #4085
(408) 736-9496
(800) 854-6046
Ken, K1ZKM, Mgr.
So. from Hwy. 101
sunnyvale@hamradio.com



IC-706MkIIIG HF/VHF Transceiver

- All mode HF/6M/2M/70CM
- 100W HF/6M, 50W/2M, 20W/440 MHz
- AF-DSP • Plug and Play Filters - No Soldering
- Easy-to-Navigate Menus

Call For Low Pricing!



IC-756 PRO All Mode Transceiver

- 100W HF/6M • Newly designed 32 bit DSP
- 5 inch TFT color LCD • Digital IF filter with 41 passband widths
- 121 microphone equalized audio settings
- Multiple DSP controlled AGC loops
- Advanced CW functions
- Real time spectrum scope

Call Now For The Ultimate Radio!



VX-5R

50/2M/440HT

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

Call For Low Price!



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

- Compact Transceiver w/detachable front panel
- Rx 100kHz to 970mHz (cell blocked)
- Tx 100W 160-6M, 50W 2M, 20W 70CM
- Built-in DSP, Vcx, CW keyer
- 300 Memories

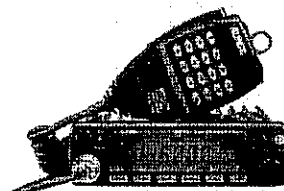
Call Now For Low Pricing!



DJ-196T 2M HT

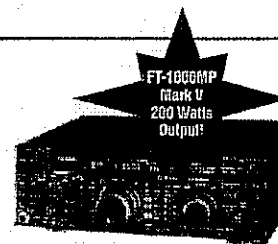
- 5 Watt out
- 40 memories
- Alpha numeric Display
- CTCSS + DCS Built-in
- "S" Meter
- Auto Dialer

**CALL NOW
FOR LOW PRICE!**



DR-135TP 2M Mobile

- 50 Watt out
- Alpha Numeric Display
- 100 mems
- Built-in TNC 1200 & 9600 Baud
- Front Panel GPS in
- Rear DB-9 Port
- CTCSS/DCS Encode/Decode built in



FT-1000MP HF Transceiver

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

Call Now For Low Pricing!