Calendar of Events				
Nov 2	Fri	7:30 PM	Marin ARC Meeting, Alto Clubhouse, 27 Shell Road, Mill Valley	
Nov 3	Sat	10:00 AM	Red Oak Victory ARC Meeting, Point Richmond	
Nov 7	Wed	5:30 PM <b>7:30 PM</b>	Dinner at Marie Callenders, 2460 Mendocino Ave, Santa Rosa SCRA Meeting, Agilent Technologies, 1400 Fountain Grove Prkwy, Santa Rosa	
Nov 14	Wed	6:30 PM	SCRA Board of Directors Meeting, 3450 Airway Dr., Santa Rosa	
Nov 21	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. Guest Speaker: ARRL Pac Div Dir Jim Maxwell W6CF	
Nov 16	Fri	8:00 PM	San Francisco ARC; VA Medical Center, 42 <sup>nd</sup> Ave & Clement, San Francisco	
Nov 26	Mon	7:00 PM	Willits ARS Meeting, Brooktrails Firehouse, Willits	
Dec 5	Wed	6:30 PM	SCRA Christmas Party! Michele's, 7th & Adams Streets, Santa Rosa	

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**Club Station** 

W6LFJ

# **Short Skip**

newsletter of the

# Sonoma County Radio Amateurs, Inc.

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Repeater Station W6SON

November 2001

Volume 26 Number 11

Spunko's Sparks

By Gregory Gordon AC6VJ SCRA President



Election of our officers and directors for next year is coming up at the

November meeting. Have you really thought about what the club means to you and the community? SCRA fulfills several important functions for us. It is an important amateur radio and social club that allows us to enjoy each other's company and to learn more about radio arts. SCRA acts as an important resource or reserve for the our community's communication needs. The best evidence is the demand for our help in public service events locally and the participation of Hams in the recent tragedy in New York.

For SCRA to continue to evolve and be a viable club, we must have knowledgeable and dedicated officers and directors managing our club. A "warm body" is not a help, but is a hindrance. That is why the club requires that a person be a member of the club for a year before taking a position as an officer or director. With members who are familiar with the club's history and a plan for the future, SCRA will continue to serve its membership and our community long into the future.

Want to help? Serve as an officer or director, or, volunteer to head up or serve on a committee. SCRA is what you want it to be. You get out of it what you put into it.

73,

Gregory AC6VJ

# FCC Clarifies CORES Amateur Implementation

The FCC's Wireless Telecommunications Bureau has clarified several issues regarding Amateur Service implementation of the Commission Registration System--or CORES. Starting December 3, everyone doing business with the FCC--including amateur licensees--must obtain and use a 10-digit FCC Registration Number (FRN) when filing.

Amateur licensees now registered in the Universal Licensing System (ULS) already have been cross-registered in CORES and issued an FRN by mail. The FCC said it planned another cross-registration by November 28. Amateurs can check to see if they have an FRN via a ULS license search. Many Internet call sign servers, including ARRL's, also can provide this information.

Once CORES becomes mandatory, the FCC will "auto-register" all amateurs who seek to register in ULS and will issue them an FRN. Amateurs then should use their FRN in place of their Taxpayer Identification Number (TIN--typically an individual's Social Security Number) when filing applications with the FCC. New or upgrade license applicants not previously registered in ULS will be registered automatically in both CORES and ULS when they provide a TIN on a license application filed through a Volunteer Examiner Coordinator.

Although both ULS and CORES will contain a licensee's FRN, updating information in one system will not update the other. For amateurs, CORES registration will replace ULS "TIN/Call Sign" registration, but the ULS will remain the Amateur Service licensing database within WTB, and only ULS will associate an individual with a particular call sign and FRN. Once CORES/FRN

(continued on page 3)

# 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

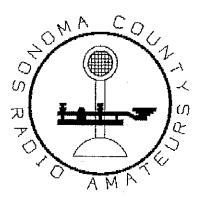
SCRA Hotline	707 579-9608
SCRA E-Mail	scra@sonomacountyradioamateurs.com
SCRA Web Site	http://www.sonomacountyradioamateurs.com

# **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**

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For more information, contact	the Editor.



# **CLUB MEETINGS**

The club normally meets the first Wednesday of each month at:

Agilent Technologies 1400 Fountaingrove Parkway Santa Rosa, CA

The meeting starts at 7:30 PM

# ALL ARE WELCOME!

Please join us at our next meeting. Membership in SCRA is open to anyone interested in Amateur Radio. A membership application is included in this newsletter.

Interested? For more information, contact any SCRA officer, director or member.

# NEXT MEETING November 7th 7:30 PM Program:

USS Pampanito by Joe Senft KM6TN (see article for details)

# HUNGRY BEFORE THE MEETING?

JOIN US FOR DINNER! We meet at Marie Callenders restaurant, 2460 Mendocino Avenue (corner of Mendocino & Chanate), Santa Rosa. People start showing up at 5:30 PM. No RSVP is required! See you there!

Short Skip is published monthly by the Sonoma County Radio Amateurs, Inc. Permission to reprint articles is granted provided the source is properly credited. Items printed do not necessarily represent the views of the SCRA or its editors. Letters, photos and articles sent to Short Skip are subject to editing and may or may not be printed.

# A A

SHORT SKIP

# ARES Comm Log

by Rich Freitas KF6SZA Greater Santa Rosa Emergency Coordinator

# **SET Recap**

The annual ARRL SET (Simulated Emergency Test) was conducted on Saturday, October 13<sup>th</sup>. After meeting at the local gourmet restaurant known affectionately as "Chez McDonald's" for a quick breakfast and an event briefing, the participants were split up into teams and directed to specific locations. A few last minute adjustments had to be made when we found out that Oakmont desired to participate. The scenario involved an interface fire (buildings bordering on a forested area) around Santa Rosa. The exercise consisted of relaying disaster-type messages between operators stationed at Memorial and Sutter Hospitals, the Veteran's Memorial Building as a shelter, a fire team in Oakmont, a California Division of Forestry base in Santa Rosa, a Salvation Army

mobile canteen, and Net Control at Santa Rosa Junior College. Traffic was passed for about two hours and then we all met at Mary's Pizza for lunch and a critique. Everyone who attended agreed that the event was a lot of fun in addition to being a learning experience.

I would like to thank Jim (KE6VGV) and Toni (KF6ZCW) at Memorial Hospital, Terri (KF6CA) at Sutter Hospital, Vicki (KF6ZCT) and Randy (KE6VMZ) at Satern1, Bob (WD6DPE) and Andy (AD6JZ) at CDF base, Fred (KQ6OB) at Oakmont, Bill (KH6GJV) at Shelter1, and Brian (N6IIY) for doing a great job as Net Control. If there's anyone I may have forgotten to mention, I humbly apologize; the event couldn't have taken place without you.

If you'd like to take part in ARES, we have a weekly net on the SCRA repeater on 146.73 MHz, - offset, 88.5PL, every Monday at 7:30 PM. After roll call we do a bit of message copy practice and relay any news. About once every two months we have a face-to-face with a training session on some subject pertaining to emergency communication. We'd love to have you join us.

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Badge Information  Call Sign  First Name			Autoslot Request: Licensed SCRA members are able to request an autodialing "autoslot" for the repeater phone patch. Complete the information below and send the form to the club.		
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nothing to report. Bill H. reminded the officers that he needed their articles ASAP.

- Public Service Committee John Mullan KD2L John reported that the Public Service Season is over-he said that the Waves to Wine was a success.
- Repeater Committee Greg Gordon AC6VJ
  - Net Control Operators 11/6 AC6VJ, 11/13 KH6GJV, 11/20 - N6IIY, 11/27 - KE6VGV
  - Status of Repeaters Greg reported that 2 meters, 220 and 440 are up and running on English Hill. He also said that he was going to replace the 440 antenna, and that he is going to start repeater classes again soon. Sign up with Jeff W2JAB if you are interested.
  - 146.730 Status Greg reported that their had been no word from the FCC, and that a follow up letter had been sent.
  - Co-Channel on 440 Greg reported that the club had received a request for another repeater to be a co-channel user on 441.375MHz. The board decided that Greg should respond, letting him know that we don't mind, but advising him of our repeater on Castle Rock.
- Nominating Committee Jeff Basham W2JAB Jeff presented the slate as it stood to the Board. President - Bill GJV, VP - Jim VGV, Sec - Jeff W2JAB, Treasurer - Vicki ZCT, Director - Randy VMZ, John FRZ, Brian IIY

# 5. Unfinished Business

- Meeting Programs Nov Elections & Slide Show of U.S.S. Pampanito (Maybe), Dec - Christmas Party @ Michele's.
- 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.
- Field Day Reservation Jeff W2JAB is going to contact the city to reserve Youth Park for Field Day 2002.

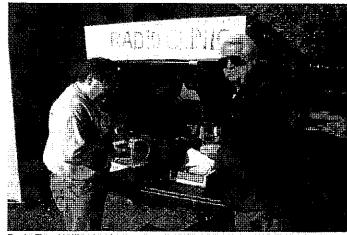
## New Business

- Member of the Year Committee Rick K6ZWB was appointed chairman of the member of the year committee. Please contact Rick if you would like to nominate someone for member of the year.
- Non-Club Members representing SCRA Bill KH6GJV and Jeff W2JAB presented their concerns about non-club members serving in key public contact positions at public service events. After discussion, Bill KH6GJV made a motion that only SCRA members may serve as the Public Service Net Control Station. The motion carried

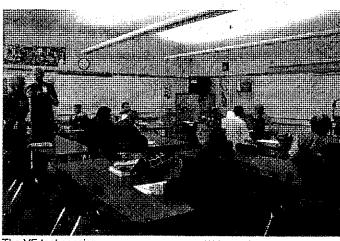
# 7. Announcements

- a. Pacificon 2001 October 19-21 in Concord.
- 8. Adjournment The meeting was adjourned at 8:15 PM

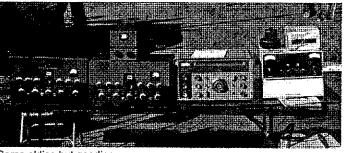
# **More Swap Meet Photos**



Brain Torr N6IIY checks out a radio with the Radio Clinic equipment as Rick Reiner K6ZWB looks on.



The VE test session.



Some oldies but goodies

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# November Program

November's program will be a presentation on the transition of the USS Pampanito, a WWII submarine to a historical museum. Joe Senft KM6TN will have a slide show that shows the Pampanito in transition while he provides the history of the sub and its current mission. Joe is a founding member of the Pampanito's amateur radio club. The Pampanito is currently docked at Fisherman's Wharf, San Francisco.

At the October meeting, Brian Torr N6IIY made a presentation on the use of a spectrum analyzer to test the performance of our radios. Several members had their radios put through their paces with some surprising results. Thanks, Brian for an interesting demonstration.

# 2002 Officer & Director Nominations

(To date)

President Bill Hillendahl KH6GJV

Vice President

SHORT SKIP

Secretary Jeff Basham W2JAB Treasurer Vicki Cero KF6ZCT Director (2 needed) Randy Black KE6VMZ

John Breckenridge WB6FRZ Brian Torr N6IIY

Jeff Basham W2JAB is the Nominating Committee Chairman. Please contact Jeff if you are interested in running for a position or wish to nominate someone. Nominations will be reopened at the November meeting prior to elections.

# **Public Service Events Calendar**

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

SCRA's Public Service season has come to an end for 2001. Many thanks to all who volunteered to provide valuable service to the organizations who needed our help for the safety of their participants. Special thanks to John Mullan KD2L for his countless hours organizing the support for the events.

Participation in the public service events is another exercise in being prepared and practiced for a real emergency. Our Winter season is rapidly approaching. Who knows what weather we may experience. Keep your batteries charged and your "go-packs" ready. You never know......

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 kh6gjv@arrl.net. We'd love to see YOU in print!

# **SCRA Christmas Dinner** December 5th, 6:30 PM Michele's, 7th & Adams Street, Santa Rosa

Mark your calendar today so that you don't forget the best holiday party of the season! The SCRA annual Christmas party will be held on Wednesday, December 5th at Michele's Restaurant in Santa Rosa. The dress is dressy-casual and the raffle prizes are great! Reservations will be required. More details will be forthcoming. Stay tuned......

# **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.

# **CORES** (from page 1)

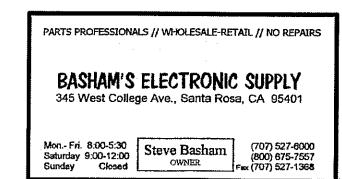
becomes mandatory, those registering in ULS will be redirected to CORES registration.

Going away December 3 will be the so-called Assigned Taxpayer Identification Number, or ATIN, which the FCC has been issuing to applicants ineligible to obtain a Social Security Number, such as foreign applicants and club station licensees. An FCC Public Notice this week said applicants that have been using ATINs "must now register in CORES." The FCC said it will accept ATINs only "during a short transitional period" after December 3.

CORES will offer exemptions to amateur clubs and to foreign entities not holding a TIN/SSN. Club station applicants also may use a trustee's TIN/SSN or a tax-exempt club's IRS-assigned EIN.

The WTB says that starting December 3, "all passwords will be maintained in the CORES database." Amateurs also may use FCC Form 160 to register in CORES, and those doing so will e mailed a CORES password for on-line access.

The FCC continues to work out the details of how amateurs, CORES and ULS will coexist. Amateur Service testing with CORES is planned for early November.



# Salvation Army Team Emergency Response Network update

One month into its disaster relief support operation in New York City, Salvation Army Team Emergency Response Network (SATERN) volunteers are holding up well. SATERN Amateur Radio Liaison Officer Jeff Schneller, N2HPO, says his current team is doing a fantastic job, and the operation could run for several more weeks.

SATERN is now "making do" with at least six Amateur Radio volunteers per day, from about 9 AM until 11 PM, primarily to support the Salvation Army World Trade Center canteen operation. Operators have come from all over, including New Hampshire, Ohio, North Carolina, Florida and Missouri, and Schneller said he even had offers of help from England and Canada. Two local groups—the Broadcast Employees Amateur Radio Society (BEARS) and the Electchester VHF Club have been providing exclusive use of their repeaters since Day One.

Schneller, who's in the fire alarm and sprinkler business, also has been involved from the start, and--with the understanding and support of his customers--has been logging some long hours. He said most of the volunteers' employers have been supportive as well. Carlos Varon, K2LCV, has been Schneller's backup and is in charge of scheduling volunteers.

SATERN radio volunteers have been handling base station duties at Salvation Army Headquarters on 14th Street in Manhattan as well as providing communication at key field sites, aboard supply trucks and at the distribution warehouse. Schneller thanked the dozens of Amateur Radio operators who have turned out to assist. He also said he appreciated the many other offers to help. SATERN now is limiting its fresh volunteers to those available from the Greater New York City area.

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

John C. Mullan Photographer Schneller strongly advised all Amateur Radio operators to prepare for the future by first getting acquainted with and joining their local ARES or SATERN teams, then by taking the ARRL Amateur Radio Emergency Communications Course. More information about SATERN is available on the SATERN Web site, http://www.satern.org.

November 2001

Information on the ARRL's emergency communications course is available on the ARRL Web site, http://www.arrl.org/cce/ . From ARRL

# **Swap Meet 2001 Photos**



Ed Small AD7G, Ted DeCroff KB6PTA and Gregory Gordon AC6VJ handle the refreshment and club swap table.



Vicki Cero KF6ZCT peddles raffle tickets.

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# Sonoma County Radio Amateurs, Inc. Membership Meeting 10-3-2001 MINUTES

- Call to Order, Verification of Quorum The meeting was called to order by Vice-President Bill Hillendahl KH6GJV at 7:31 PM at the Santa Rosa Agilent Technologies facility.
  - a. Introductions
    - Officers & Directors The club officers and directors introduced themselves.
    - Guest Speaker Brian N6IIY was introduced.
    - Visitors Ed and Jan KB6MZE Green, Carrie Breckenridge, Fred KQ6OB and Karl K6QMT (ex KG6HSC)
- iv. New Calls & Upgrades None . Approval of Minutes - John KD2L moved that the minutes of the 9-5-2001
- membership meeting be approved as corrected. The motion passed.

  3. Officer & Director Reports
- Vice President Bill KH6GJV Bill reported that Len Gwinn will be visiting soon, and that he appreciates everyone's support in the recent election.
- Secretary Jeff Basham W2JAB Jeff reminded members to pick up their membership badges.
- c. Treasurer Jim Lee KE6VGV gave the club's financial rundown.
  - Rich Freitas KF6SZA Rich passed around a sign up for the ARES SET in 2 weeks.
  - John Mullan KD2L John reported that the last VE session had 15 candidates of which 11 walked away with an upgrade or new license.
  - Rick Reiner K6ZWB Rich had nothing to report.
- 4. Committee Reports
  - Activities Committee Bill McCall W6WDM Bill was not present to make a report.
    - a. Swap Meet Comments Bill KH6GJV entertained comments on the swap meet. Comments that were made included that it started too early, and that it was successful. Someone also said that they would like the club to be sure to hold it on the same day as HSC's big sale.
  - b. Newsletter Editor Bill Hillendahl KH6GJV and Bill McCall W6WDM - Bill KH6GJV reported that the mystery photos in the newsletter were Ted KB6PTA and Steve KV6A.
  - Public Service John Mullan KD2L thanked everyone for participating in the Waves to Wine 2002. He said that they has raised \$750,000, and that extra t-shirts are available for a \$5 donation to the MS society.
  - Repeater Committee Greg AC6VJ was not present to make a report.
- 5. Unfinished Business None
- New Business -
  - Nominations for 2002 BOD Bill KH6GJV conducted a nomination period for nominations for the 2002 BOD. Nominations for the office of president were opened. Jim KE6VGV moved that Bill KH6GJV be nominated as President. Bill accepted the nomination. Ted KB6PTA moved to close nominations for the office of president. The motion carried. The nominations for the office of Vice President were opened. Ted KB6PTA moved that Mark KK7CU be nominated as Vice President. Mark accepted the nomination. The club bylaws require that a nominee for an elected office must be a member for the past 12 months. Mark joined the club on April 4, 2001, and therefore was not eligible to be nominated. Jim KE6VGV was nominated for vice-president but declined the nomination. Rich KF6SZA was nominated for vicepresident but declined the nomination. Ted KB6PTA moved to close the nominations for the office of Vice President. The motion carried. The nominations for the office of Secretary were opened. Bill KH6GJV moved that Jeff Basham W2JAB be nominated for the office of Secretary. Jeff accepted the nomination. Ed KJ6XB moved to close nominations for the office of Secretary. The motion carried. The nominations for the office of Treasurer were opened. Al Bloom N1AL was nominated for Treasurer but declined the nomination. Rick K6ZWB moved that Vicki KF6ZCT be nominated as Treasurer. Vicki accepted the nomination. John KD2L moved to close the nominations for the office of Treasurer. The motion carried. The nominations for the 2 directors were opened. Rich KF6SZA moved that Randy KE6VMZ be nominated as a Director. Randy accepted the nomination. John KD2L moved that John

WB6FRZ be nominated as a director. John (FRZ) acception nomination. Vicki KF6ZCT moved that Brian N6IIY be nor as a director. Brian accepted the nomination. Ted KB6PTA reto close the nominations for the 2 directors. Bill KH6GJV appoins Jeff W2JAB as nominations committee chairman. Please con Jeff with any nominations you may have.

- . Show & Tell -
  - K6QMT Karl showed the new Kenwood TH-F6A 2m/440/220 handheld that he won in the grand prize drawing at the club's swap meet.
- 8. Recess There was a 18 minute break.
- Program Brian N6IIY gave a presentation about spectrum analyzers, and tested member's radios.
- 10. Raffles -
  - Regular Jim KE6VGV won the 50/50 raffle. His split was \$9, and he donated it back to the club.
  - Lottery Mark KG6BKA lost the membership lottery. He was not present, and the lottery rolled over.
- 11. Announcements
  - a. Next Program Elections and Slide Show of U.S.S. Pampanito?
  - . Board Meeting Next Wednesday Furniture Traditions 6:30PM
  - c. Pacificon 2001 October 19, 20, 21 in Concord.
  - Sonoma Life Support Explorers Post Jeff W2JAB invited any members between the ages of 14 and 21 that are interested in emergency medicine to see him regarding a new explorers post at Sonoma Life Support.
- 12. Adjournment The meeting was adjourned at 9:42pm

# Sonoma County Radio Amateurs, Inc. Board of Directors **M**eeting 10-10-01 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
Committee Chairman Absent: Brian Lukrich KG6AQT, Bill McCall W6WDM
Guests Present: Brian Torr N6IIY, Sue Mullan K8SUE, Randy Black
KE6VMZ, John Breckenridge WB6FRZ, Mark Lockwood

- Call to Order, Verification of Quorum, Introductions The meeting was called to order by President Greg Gordon AC6VJ at 6:30PM. 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 Rich KF6SZA moved that the minutes of the September 12, 2001 board meeting be approved as corrected. The motion passed.
- 3. Officer & Director Reports
  - a. Vice President Bill Hillendahl KH6GJV Bill had nothing to report.
     b. Secretary Jeff Basham W2JAB
    - Mail & Communications Jeff distributed the mail to the appropriate officers.
    - Card Presentation Jeff gave Greg AC6VJ the get well card that the club signed at the general meeting.
    - FYI Swap Mailers Jeff told the board that 165 (or about 12.8% of the total) of the swap meet mailers had come back as return to sender for incorrect addresses.
  - c. Treasurer Jim Lee KE6VGV
    - Current Financial Jim reported that the club's books have had no significant changes since his last report.
    - Swap Meet Financial Jim reviewed the swap meet financial report with the board.
  - d. Directors
    - John Mullan KD2L John reported that he had submitted the paperwork for the last VE Session, and discussed possible VE dates for 2002 with the board. Suggestions were to have a mid-week session or a session on a 3 day weekend.
    - Rich Freitas KF6SZA Rich reported that there was no progress on the issues he reported last month. He also reported that the SET is this weekend.
  - 3. Rick Reiner K6ZWB Rick had nothing to report.
- 4. Committee Reports
  - Activities Committee Bill McCall W6WDM Bill was not present to make a report
  - b Newsletter Bill KH6GJV and Bill W6WDM The editors had

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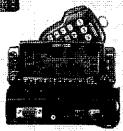
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TH-D7A(G) 2M/440

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

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- . Receives 118-1300 mHz (cell blocked)
- · Remote Head Inst. only (kit included)
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IC-706MkIIG 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

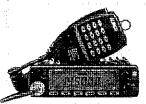
**Call Now For The Ultimate Radio!** 





# **DJ-196T** 2M HT

- 5 Watt out
- 40 memories Alphanumeric Display
- CTCSS + DCS Built-in . "S" Meter
- · Auto Dialer
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- Tx 100W 160-6M, 50w 2M, 20W 70CM • Built-in DSP, Vox, CW keyer
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- Collins SSB filter built-in •100W, Power supply built-in

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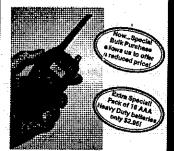


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- VOX or Push-to-talk, w/3-type call tone
- Auto "power save" mode, auto-squelch Monitor button, speaker/mic lack, wrist strap
- Uses four "AAA" batteries (not included)
- Perfect for camping, sports, road trips, work...more!



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

# Multimeter Specials!

- Model #AEEC-1890 3 1/2 Digit LCD DMM
- Adjustable large flip-up display for the easy v 0.5% basic accuracy, dual-slope integration A/D
- Measures AC/DC volts, ohms, current, capacitance, hFE
- & temperature (temp. probe included!)
- 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 cradie protects meter, prevents skids
- Brand new! With test leads
- Compare at prices of \$70, \$80 and up



## HSC# 80504

- \$39.95 Some people just don't like digital meters...
- Sollec HM102S 20 KDhm per Volt Mutitagle
- Ranges: 0-1000VDC, 0-1000VAC, 0-50uA,0.5, 5, 50 & 500 mA, 0-20 MOhm with X1, X10, x1K & X10K ranges
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- Carrying handle/stand, mea aures, 3.5' x 5.25' x 1.5'. corrected readings
- New...90-day we

HSC# 18260



# CD-R Media Bargain!

- "Artmedia" 8X speed premium COs...
- 650 MB / 74 minute capacity
- 2x, 4x, 5x or 8x speed recording
- Compatible with all leading CD writers/readers
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- Box contains ten disks -- Best deal
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# SCSI Drive Cases

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- Two-bay case
- RCA Jacks/ Sound Cable Incl.
- Measures 6.3" x 7.0" x 11.25"
- 80-wall power supply HSC# 18287 \$39.95



- Four-bay case (similar styling to twobay 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
- New, with IEC power cord, 90 day warrants

# HSC# 80545



- ♦ CD-ROM drive tower case, made for
- Compaq Computer Systems

  ♦ Can handle 7 5/25" SCSI-VII CD-
- ♦ Includes 200W power supply, slides
- ♦ Removable front and side namels
- Solid, heavy gauge construction
- Seven-position daisy-chain ribbon cable included
- New 90-day warranty

HSC# 80544

\$89.00

\$49,00

\$9.95

# Disk Drive Deals!

- Seacate ST321271N "Barracuda Uttra-SCSt
- 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 (Motorole) box, 90-day warrant,

# HSC# 18388

♦ Lite-ON Model LTN-301 32-speed CD-ROM drive



move . Perfect for second drive, repaired or ome-built systems

♦ Standard IDE 40-pin Interface manual, audio cable & driver disk

Beturbished, 90-day HSC warranty **HSC# 80542** 

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5

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- Drag, drop files with multiple views, built-in ZIP ultility View over 80 types of files - Super search engine!
- Powerful email attachment decoder
- Instant prephic view of hard drive son Many more features...too much to flat here!
- ♦ Windows 3.1, 95, 98 & NT compátible

### HSC#18360

- \$9.95
- Conquer Zio files with "ZipMester"!
- Saves lons of disk space!
- Makes regular ZIP files look like folders
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- Keep after the glitches with "Fix-It Utilities 99"
- Powerful diagnostic and receir package
- View, open/convert 12 file types, 4 em Over a dozen hardware diagnostics
- NTFS, FAT, and FAT32 disk repair Integrated views for Work, Excel, PowerPoint, AVI Ses.,MORE
- For Windows 85, 88 & NT

HSC#18362

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# \$9,95

- 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, 88 & NT

# HSC#18366





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\$14.95

\$19.95

# 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 penel
- Folding front handles, mounting pers & ecoassocies
- Brand new, boxed with 90-day warranty Available in black or cream textured finish



HSC# 80540 HSC# 80541

Black Cream

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# Keypad Mouse!



- 'Unia' mouse with multi-function keypad! Numeric & special function keys, including SHIFT, ALT,
- Unique all-in-one error dealon for easy data entries
- Ideal for CAD, spreadsheet, games...etc
- LED indicators, 400/1200dpi switchable PC/AT compatible, w 9-pin D conn.

HSC# 80539

\$9.95

### Comfort Keyboard! Delf 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



\$14.95

# Power Supply Specials!

- ♦ Lite-ON model no. PS-5151, 145 watts ♦ 5V Ø 18A, 12V Ø 5A, -12V Ø 0.8A
- 3.3V @ 7A, +5Vsb @ 0,15A Hi-Pot tested w/isrge cooling fan
- Standard ATX Form-factor Brand-new, 90-day warranty



# HSC# 18350

- Lits-ON model no. PS-4151-9B 150 water
- 5V @ 18A, -5V @ .3A, 12V @ 4.6A, -12V @ 0.3A
- Hi-Pot tested w/large cooling fan
- Standard AT "Mini Tower" Form-factor



# HSC# 18351

\$14.95 Power Computing TCX-20D Perfect for upgrading! Put modern most

Standard Mini-tower form-factor, ATX connector

200W fan-cooled power supply



HSC#18304

\$17.50

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