

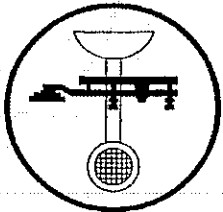
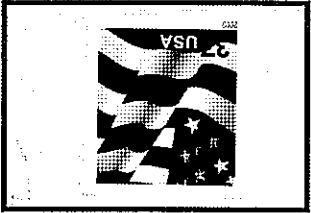
Calendar of Events

Mar 3	Wed	5:30 PM	Dinner at Marie Callenders, 2460 Mendocino Ave, Santa Rosa
		7:30 PM	SCRA Meeting, Luther Burbank Art & Garden Center, 2050 Yulupa Avenue, Santa Rosa
Mar 5	Fri	7:30 PM	Marin ARC Meeting, Alto Clubhouse, 27 Shell Road, Mill Valley
Mar 6	Sat	10:00 AM	Red Oak Victory ARC Meeting, Point Richmond
Mar 10	Wed	6:30 PM	SCRA Board of Directors Meeting
Mar 16	Tues	7:30 PM	Hamilton Wireless Assoc., Bldg 549, Hamilton Field, Novato
Mar 17	Wed	7:00 PM	REDXA Meeting, Carrow's, Petaluma
		7:30 PM	Valley of the Moon ARC Meeting, McDougall Hall, Sonoma Developmental Center, Glen Ellen.
Apr 23-25	Fri-Sun		International DX Convention, Holiday Inn, Visalia, CA - Info: www.scdxc.org
Apr 24	Sat	7:00 AM	VOMARC Hamfest, Veterans Hall, Sonoma

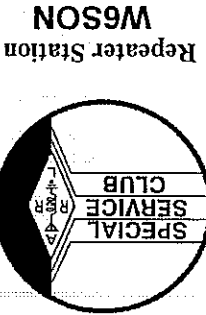
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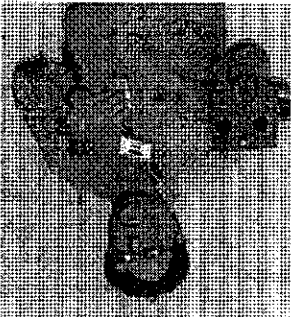
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Volume 29 Number 3

QVA

by
Brian Torr Neily
SCRA President



The Public Service season is fast approaching. Our first event will be in April. I encourage all members to participate in whatever way they can. Public service events are great training for emergency communications and they demonstrate to the community what ham radio can do. The work is rewarding and fun.

Unfortunately, we are not as prepared for this public service season as we should be. We are still in need of a Public Service Chairperson. I know many of us are busy, but I am hopeful that we can find someone that can find the time to fill this very important position. Please give volunteering for this position some serious consideration.

We need to start making plans for Field Day 2004. Field Day is the weekend of June 26 & 27. Last year's Field Day was great and we came within a hair's breadth of beating REDXA's QSO count. This year we will not have a conflict with the Santa Rosa Cycling Club's Terrible Two bicycle event, so we should be able to get more operators. Should we do it at English Hill again this year? Should we keep our 2A entry classification? Give this some thought. In addition to our regular program, this will be a topic of discussion at our April meeting will feature one of my favorite programs: Homebrew Night. A few members are already planning what they're going to show. I will be showing one, or possibly two, things. If you've built something interesting, whether in the last year or the last (continued on page 3)

DUES ARE DUE!

Yes, it's that time of year again. The SCRA dues for the 2004-2005 fiscal year are due. The dues are \$24 per year for individual members and \$36 per year for a Family membership. If you are a current SCRA member, a renewal envelope was included in the February issue 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!

"Please be assured that we have already begun coordination of this action with NTIA," Powell told Walden, "and that the Commission will give all studies, including the forthcoming NTIA study, thorough consideration prior to any final action or rules on the subject." The FCC has not yet released the BPL NPRM nor invited public comments. (continued on page 8)

FCC CHAIRMAN ASSURES CONGRESSMAN ON BPL STUDIES

FCC Chairman Michael Powell has assured US Representative Greg Walden, WB7OCE, that the Commission will give "thorough consideration" to all Broadband over Power Line (BPL) studies before it takes final action on BPL. Powell responded February 3 to Walden's January 15 letter requesting that the FCC defer any further action in its BPL proceeding until the National Telecommunications and Information Administration (NTIA) releases the results of its BPL study and the public has had a chance to comment. On February 12 the FCC took the proceeding to the next level, unanimously approving the issuance of a Notice of Proposed Rule Making (NPRM). Among other provisions, the NPRM would require BPL providers to employ "adaptive interference-mitigation techniques."

"Please be assured that we have already begun coordination of this action with NTIA," Powell told Walden, "and that the Commission will give all studies, including the forthcoming NTIA study, thorough consideration prior to any final action or rules on the subject." The FCC has not yet released the BPL NPRM nor invited public comments. (continued on page 8)

2004 Club Officials

President	Brian Torr	707 575-5871
Vice President	John Mullian	707 575-9176
Secretary	Walter Masten	707 577-0711
Treasurer	Jim Lee	415 892-0317
Director	Randy Black	707 546-0723
Director	Greg Gordon	707 523-7077
Past President	Bill Hillendahl	707 544-4944

Short Skip & Web Staff

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

Antenna Ordinance/Legal	Lee Dibble	707 544-1675
Public Relations	Bill McCall	707 538-2844
Raffles	Karl Johnston	707 542-4008
Refreshments	Ted DeCroft	707 542-4008
Volunteer Exam Liaison	John Mullian	707 575-9176

Contacts

KE6EAO	707 544-1675
W6WDM	707 538-2844
K6QMT	
KB6PTA	707 542-4008
KD2L	707 575-9176

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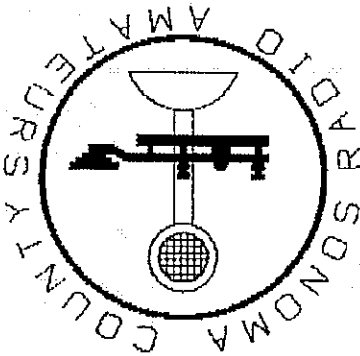
Business Cards	\$ 12
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Each Adn ¹ Quarter Column	\$ 4
Full page (one side)	\$ 35
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For more information, contact the Editor.

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 6:30 PM. No RSVP is required! See you there! (except December)

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



NEXT MEETING
March 3rd
7:30 PM
Program:

"Through the Keyhole"
by
John Felton KE5RI
(see article)

CLUB MEETINGS

The club normally meets the first Wednesday of each month. This month's meeting will be at:

Luther Burbank Art
& Garden Center
2050 Yulupa Avenue
Santa Rosa, CA

The meeting starts at 7:30 PM

ALL ARE WELCOME!

Please join us at our next meeting. Anyone interested in Amateur Radio may be eligible for membership. A membership application is included in this newsletter.

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

CONTEST CORNER

by Kevin Alt, K6BSG

Hello contesters. For this month, once again the big event is the ARRL International DX Phone Contest on 6-7 March. For more fun there is the CQWW Phone contest on 27-28 March. It's not too early to start thinking about Field Day, either. Happy DX'ing.

1 Mar - **Spartan Sprint** - CW 80-10 meters on QRP calling frequencies. See: http://www.arsqr.com/ars/pages/spartan_sprints/ss_rules_new.html.
2 Mar - **DARC 10-Meter Digital "Corona"**-- RTTY/AMTOR/PACTOR/PSK31/clover. See: <http://www.darc.de/referate/dx/>.
6-7 Mar - **ARRL International DX Contest** - Phone, 160 - 10 meters. See:

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New [] Renewal []

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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 \$ 24 (\$6.00/qtr)
Family Membership \$ 36 (\$9.00/qtr)
Under 18 Membership \$ 12 (\$3.00/qtr)
Badge \$ 7

Badge Information
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City _____
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Badge \$ _____
Other - \$ _____
Donation \$ _____
Total \$ _____
Mail to: SCRA, P. O. Box 116, Santa Rosa, CA 95402

<http://www.arrl.org/contests/rules/2004/intldx.html>.
6-7 Mar - **EU EME Contest** - any mode, 432 MHz, 2.3-5.7 GHz. See: <http://www.marsport.demon.co.uk/e-me.htm>.
13-14 Mar - **RSCB Commonwealth Contest** - CW, 80-10 meters. See: <http://www.rsgbhfcc.org/>.
13-14 Mar - **YL International SSB System QSO Party** - Phone, all bands. See: <http://www.gsl.net/yl-ssb/>.
14 Mar - **North American RTTY Sprint**, 80-20 meters. See: <http://www.ncweb.com/>.
14-15 Mar - **Wisconsin QSO Party** - Phone/CW, 80-10 meters. See: <http://www.warac.org/>.
20 Mar - **10-10 Mobile Contest** - any mode, 10 meters only. See: <http://www.ten-ten.org/>.
20-21 Mar - **Russian DX Contest** - CW/SSB, 160-10 meters. See: <http://www.rdx.org/>.
20-22 Mar - **Virginia QSO Party** - Phone/CW, 160 meters - 70 cm. See: <http://www.gsl.net/sterling>.
21 Mar - **CLARA and Family HF Contest** - Phone/CW, 80-10 meters. See: <http://www.gsl.net/clara/contest.html>.
22 Mar - **Spring QRP Homebrewer Sprint** - CW/PSK31, 80-10 meters. See: <http://www.njgrp.org/data/qrp/homebrewersprint.html>.
27-28 Mar - **CQ WW SSB WPX Contest** - SSB, 160-10 meters. See: <http://www.cqwp.com/>.
27-28 Mar - **EU EME Contest** - any mode, 144 MHz, 1.3 and 10 GHz. See: <http://www.marsport.demon.co.uk/e-me.htm>.

Foothill Swap Meet Moves

The Electronics Flea Market that has been held at Foothill College for the last several years is moving to a new location in Sunnyvale. The location is near Onizuka Air Force Base in Sunnyvale. The location is off of 11th Avenue in Sunnyvale, which is about one block west of Mathilda Avenue and just north of 237.

The first market is scheduled for March 13, 2004 and will be hosted by the Palo Alto Area Red Cross. This is the same market that is held on the 2nd Saturday of the month. See the ASVARO web site <http://www.asvaro.org/> for details and directions to the new market location. There should be signs up on the road near the market to help you find it. Also, call up on the local repeaters if you get lost. Try W6ASH 145.27-(100Hz PL) or N6NFI 145.23-(100Hz PL).

FCC & BPL (continued from page 1)

An Office of Engineering and Technology (OET) briefing at the FCC's February 12 open meeting indicated that the Commission would make no changes in Part 15 rules governing emissions from unlicensed devices. To date, the FCC has released only a public notice on its BPL proposals. Walden, a member of the House Subcommittee on Telecommunications and the Internet, had told the FCC chairman that, in view of the importance of avoiding interference to federal government HF communications, the FCC should give the pending NTIA study a thorough airing before proposing any rules to govern BPL systems. The Oregon Republican is one of two Amateur Radio licensees in the US House.

Commenting on last April's FCC BPL Notice of Inquiry in ET Docket 03-104, the NTIA had expressed "broad concern" about the technology's potential to cause interference to federal government users. The NTIA said the Commission "must ensure that other communications services, especially government operations, are adequately protected from unacceptable interference."

An arm of the US Department of Commerce, the NTIA subsequently undertook evaluations of BPL field test sites, in part to gauge the technology's interference potential. The NTIA was supposed to conclude its field work last month, and release its observations and conclusions during the first quarter of this year. The ARRL's own BPL study, which is assessing the potential of interference both from and to BPL systems, also is set to wrap up early this year.

Acting Assistant Secretary of Commerce Michael Gallagher and NTIA head Michael Gallagher told a December meeting of BPL proponent the Power Line

Communications Association that the NTIA was "studying interference risks and potential means for making risks more tolerable." He indicated that the first phase of NTIA's pending BPL study would recommend radiated emission limits, compliance measurement procedures and other conditions in its report to the FCC.

At the FCC's February 12 open meeting, Powell pledged that the FCC would continue to be vigilant in the area of BPL's interference potential. Anh Wride of the OET staff, who provided the broad strokes of the pending NPRM, said the FCC recognizes the concerns of licensed radio service users regarding BPL's interference potential. Wride said "licensed operations must be protected," but added that the OET staff believes that "these interference concerns can be adequately addressed."

From ARRL Letter

NPR FEATURE SPOTLIGHTS
ADDITION OF @ SYMBOL TO
MORSE CODE

Some hams may have thought they'd left their transceivers turned on Tuesday, February 17. That's when the popular National Public Radio (<http://www.npr.org>) afternoon news magazine All Things Considered ran a piece about the pending addition of the @ symbol to the official international Morse code lexicon. That's because NPR introduced and closed the nearly four-minute segment with actual CW, catching the ear of many hams.

ARRL Chief Technology Officer Paul Rinaldo, W4RI, conceived of the new character, necessary for transmitting e-mail addresses in CW, among other possible purposes. Assuming approval by International Telecommunication Union (<http://www.itu.int/home/index.html>) member-states, the new character--the first added to the code in many, many years--will be "AC" run together (---.-.).

The new character, Rinaldo says, is both unique in the Morse world as well as a mnemonic (think of an 'a' wrapped in a 'C').

ATC co-host Robert Siegel interviewed ARRL Senior News Editor Rick Lindquist, N1RL, for some background on the change, giving Lindquist an opportunity to mention his passion for mobile CW operation. The short feature, "Morse Code Enters Cyber Age," is available on the National Public Radio Web site, (<http://www.npr.org/run downs/segment.php?wfid=1680529>).

From ARRL Letter

(Editor's Note: I heard that the "commat" character was approved.)

MARCH PROGRAM

Join us on Wednesday, March 3rd at 7:30 PM to hear John Felton, KE5RI give us a "Through the Keyhole" look at US electronic intelligence gathering during the Cold War. He will discuss ELINT, SIGINT, COMINT and COMSEC and will describe some the equipment used during that era.

At the last meeting, ARRL Pacific Division Vice Director Andy Oppel N6AJO spoke on the ARRL's proposal for Amateur Radio license restructuring and on the future of Amateur Radio.

DUES INCREASE

SCRA annual dues have been increased. Individual member dues are now \$24 per year. Family membership is now \$36 per year. Under 18 years old membership is \$12. Please use the dues envelope enclosed with the February edition of *Short Skip* (hopefully it stayed in) to mail in the 2004-2005 dues. Please be sure to complete the renewal form on the flap of the envelope with the dues payment.

QVA (continued from page 1)

century, dust it off and bring it in. And even if you don't think it would be of interest, bring it in anyway; almost assuredly someone else will find it interesting. If it's too big to bring it, bring photos or drawings.

And speaking of homebrewing, I was pleased to see a few members figure out how the light control box demonstrated at the February meeting worked. Kudos to Dave, W6IBC for figuring out a second way to make this thing work. As Lee, KE6EAQ, remarked, this is actually an old device. I learned about it in N0AX's Radio Puzzle, published by the ARRL. It was from one of the Quist Quizzes that appeared in QST from 1951 to 1961. The original unit used small selenium rectifiers. The dimness of the lamps was the key clue to figuring 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 kh6gyv@arrl.net. We'd love to see YOU in print!

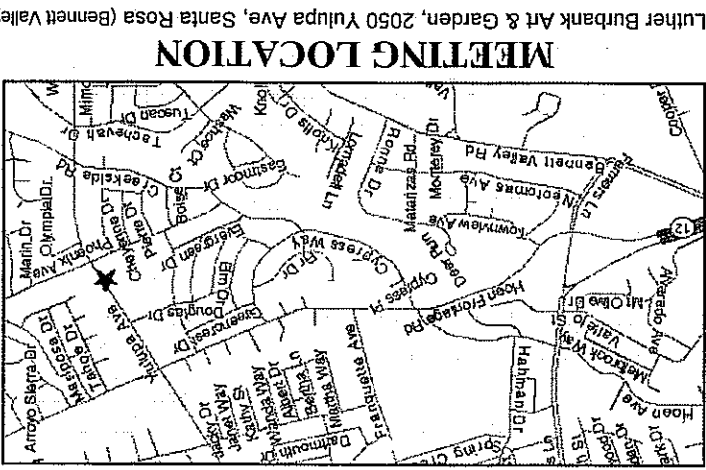
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OK, how many of you have read this far and are still wondering why I renamed this column "QVA"? First of all, "Brian's Brain Dump" just wasn't cutting it. I received one comment saying, "That name has got to go!" For those of you that cannot recite all the Q-signals ever created, myself included, QVA means "Have you news of." It is my intention that this column will keep you abreast of what's happening with SCRA and ham radio in general.

73, Brian NG1LY



Luther Burbank Art & Garden, 2050 Yulupa Ave, Santa Rosa (Bennett Valley)



by Rich Freitas KF6SZA
Sonoma County District
Emergency Coordinator

ARES Comm Log

as the District Emergency Coordinator (DEC), Emergency Coordinator (EC), Assist. Emergency Coordinator (AEC) or Official Emergency Station (OES) comes on the air, give that person the information that you have gathered. The ARES leadership representative will usually become net control or make the decision who should fill that position.

One of the first tasks will be to conduct a poll of all the cities in the county to determine the extent of damage in each city. If you hear your city called and no one responds, please announce your call sign even if only to report no damage. This way we can be sure that all cities have been contacted at least in an informal way. If cities are performing an in-city damage assessment net they should be sure to have one of their hams monitoring the ARES repeaters to let the net control know that information is to be coming from that city. The net should be maintained until all cities have been contacted; the net control should poll all cities before closing the net.

If there is a major earthquake everyone will know that it has occurred (believe me, they will know!). Under these circumstances, please limit your reports to situations where injury or major damage has occurred. If you happen to be the net control you should ask for, in this order:

- Injury reports
- Damage that could possibly cause injuries
- Minor damage reports
- No Damage reports

When you have a report to make to Net Control, then wait for the Net Control to acknowledge. Proceed with your report when Net Control tells you to go ahead.

The weekly ARES net for the greater Santa Rosa area meets on Mondays at 7:30 pm on 146.835 MHz, (-) offset, 88.5 PL; it is currently linked to 444.900 MHz, (+) offset, 88.5 PL. You may use either of these frequencies. All ARES members and guests are invited to check-in. Please join us.

You may then decide to be net control or you can ask one of the others on the net if they would be willing to do so. Net control should then start recording call signs and short summaries of reports (be sure to include the part of the city from which the ham is calling – e.g. "AB6DEF, no damage, downtown Santa Rosa"). First, ask for reports of injuries, serious or moderate damage. If none, then ask for reports of NO damage – this will be of value when we try to determine the areas most affected by the earthquake.

When an ARES leadership representative, such

In the event of a mild earthquake we need to hear from hams in all the cities in the county. If you are affected by a mild earthquake in the future (if it catches your attention, even if only in a minor way), please tune your radio to 146.985 MHz (-) PL 88.5 or 441.375 MHz (+) PL 88.5 (or a repeater local to your area) to see if any others are reporting effects of the earthquake. Net control operators, if it's not already done, please be sure to link the repeaters as soon as possible so that a county-wide as well as a region-wide damage assessment can be made effectively.

Have you ever thought about what would happen right after the shaking stopped? What can you do? What would you do? What's the RIGHT thing to do? We spend a fair amount of time training on net control procedures and traffic handling but when things start to fall around you it's important to know what to expect and what's expected of you as a volunteer communications resource.

When the Shaking Stops

Sonoma County Radio Amateurs, Inc.
Membership Meeting 2-4-2004
MINUTES

1. Call to Order, Verification of Quorum - The meeting was called to order by President Brian Torr NG1LY at 7:30 PM at the Luther Burbank Art & Garden Center. There were more than 25 people present.
2. Introductions
a. Officers and Directors - The club officers and directors introduced themselves.
b. Program - Andy Oppel, N6AJQ spoke on The Future of Amateur Radio and The ARRL's Proposal to the FCC for License Restructuring.
c. Visitors - There were no visitors at the meeting this month.
d. New Calls and Upgrades - There were no new calls or upgrades this month.
3. Approval of Minutes - Ted KB6PFA moved that the minutes of the January 7, 2004 meeting be approved as printed in Short Skip. The motion was passed.
4. Officer and Director Reports
a. President - Brian Torr, NG1LY - Brian mentioned that we have committee positions open and passed around a form to get meeting program ideas.
b. Vice President - John Mullian, KD2L was not present
c. Secretary - Walter Masten, KG6OXW - Nothing to report
d. Treasurer - Jim Lee, KE6VGV - Jim reported that we have \$2,928 in our savings account and \$3,834 in our checking (\$2,000 Comm Van account and the balance is for our operating expenses).
5. Committee Reports
a. ARES - Rich Freitas, KF6SZA - Not present
b. Mobile Comm Van - Gregory Gordon, AC6VJ - Greg reported that the Comm Van is getting the antenna supports installed.
c. Activities Committee - Josh Fiden, W6XU - Nothing to report
d. Newsletter - Bill Hillendahl, KH6GJV - Nothing to report
e. Public Service Committee - Position Open
f. VE Liaison - John Mullian, KD2L - We had two candidates at the last V.E. Session.
g. Repeater Committee - Greg Gordon, AC6VJ
h. Net Control Volunteers - Positions Filled
i. Status of Repeaters - All repeaters are operational.
j. Repeater operators wanted to monitor our repeaters.
k. SCRA v NARCC Update - Nothing to report
l. Unfinished Business - None
m. Appointments - Brian is looking for committee leaders for the P.S.C. and Activity Committees
n. Future Programs - Brian thanked the members for their input on future programs.
8. Member Biography - Our speaker Andy Oppel N6AJQ started out as a ham user. With that as an inspiration he gained his Novice Class license and has since upgraded to the General Class. As many of us know he is now working hard with the ARRL.
9. Show and Tell - Walter KG6OXW Reported that he has finished working all 50 states and is currently waiting on five QSL cards to be able to get his WAS award. He also reported that he made these contacts and many DX contacts on the HHN net (07:00Z 7.235 MHz). Brian NG1LY shared an interesting brain-teaser electronic contraption and asked the members to figure out how it worked before showing us the schematic.
10. Recess - A recess was held from 7:45 PM until 8:15 PM
11. Program - Andy Oppel, N6AJQ gave a wonderful presentation on "The Future of Amateur Radio and The ARRL's Proposal to the FCC for License Restructuring" and answered questions that members had.
12. Raffles - Karl Johnson, KG6QMT
a) 50/50 - Jeff KX6JAB donated his winnings back to the club.
b) Membership - No membership raffle this month.
13. Announcements
a) Next Membership Meeting - March 3: Program TBA
b) Board Meeting - February 12 at Marie Calendars
14. Adjournment - There being no objections the meeting was adjourned at

- Sonoma County Radio Amateurs, Inc.
Board of Directors Meeting 2-11-2004
MINUTES
- Board Members Present: Brian Torr NG1LY, Walter Masten KG6OXW, Randy Black KE6VMZ, Bill Hillendahl KH6GJV
Board Members Excused: John KD2L
Guests Present: None
Guests Present: None
1. Call to Order, Verification of Quorum, introductions 6:30 - The meeting was called to order by President Brian Torr NG1LY at 6:40 PM. The meeting was held at Marie Calendars', 2460 Mendocino Avenue, Santa Rosa. A quorum was present in that four of the seven voting board members were present.
 2. Approval of Minutes - Bill KH6GJV moved that the minutes of the 1-14-2004 be approved as amended. The motion passed.
 3. Officer and Director Reports
a. President - Brian NG1LY - Nothing to report
b. Vice President - John KD2L - Absent
c. Secretary - Walter KG6OXW - Nothing to report
d. Treasurer - Jim KE6VGV was not present- Bill KH6GJV reported that we had 3630 in the account (\$2000 belongs to the Mobile Comm Van). \$65 was approved to be sent to World Radio for advertising. We have made \$250 so far with the sale of donated computer shelves.
 4. Committee Reports
a. ARES - Rich KF6SZA - Not present
b. Mobile Comm Van - Greg AC6VJ - Not present
c. Activities Committee - Position not yet filled. - Field Day (26 - 27 June) was discussed
d. Newsletter - Bill KH6GJV - Nothing to report
e. Public Service/VE - Position not yet filled. - Nothing to report
f. Repeater - Greg AC6VJ
g. Status of Repeaters - Greg AC6VJ was not present
h. Weekly Net Control - Greg AC6VJ was not present
 5. Unfinished Business
a. Meeting Programs - 2004
January - The Secret Wireless War, Part 2
July - August
September - October
November - December
b. Program Ideas - The board discussed upcoming meeting programs.
c. Club Calendar - The board discussed putting a club calendar on our website.
d. Meeting Place - The board discussed alternative meeting locations.
e. Open Committee Chair positions - The open Committee Chair positions were discussed and candidates were suggested.
 6. New Business
a. Repeater signals - The mapping of our repeater signals was discussed.
 7. Executive Session - Nothing to report
 8. Announcements - None.
 9. Adjournment - The meeting was adjourned at 8:20 PM.
- If you are not getting the ARRL San Francisco Section news by e-mail and you are an ARRL member, be sure to subscribe under your Members Only information or go to <http://www.arrl.org/sections/?sect=SF> or <http://www.pdarrl.org/sfsec/>

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 sunnyvale@hamradio.com

IC-756 PRO II
All mode Transceiver

Low Pricing!

- 160-6M @ 100W • Enhanced RX performance
- 32 bit IF DSP • SSB/CW synchronous tuning
- Enhanced 5 inch color TFT w/spectrum scope
- Selectable IF filter shapes for SSB & CW
- Multiple DSP controlled AGC loops
- Advanced CW functions
- 101 alphanumeric memories

The Ultimate Radio!

IC-706MKIII HF/VHF Transceiver

Low Pricing!

- All mode HF/6M/2M/70CM
- 100W HF/6M, 50W/2M, 20W/40 MHz
- AF-DSP • Plug and Play filters - No Soldering
- Easy-to-Navigate menus

VX-7R
50W/220/440 HT

Great Price!

- Wideband RX
- SW TX (300mw 220MHz)
- Li-Ion Battery
- Fully Submersible to 3 ft.
- Built-in CTCSS/DCS
- Internet WSP, Vox, CW Keyer

FT-1000MP MKV HF Trans.

Low Pricing!

- Enhanced Digital Signal Processing
- Dual RX
- Collins SSB filter built-in
- 200W External power supply

FT-1000 HF/6M/2M/70CM Trans.

Low Pricing!

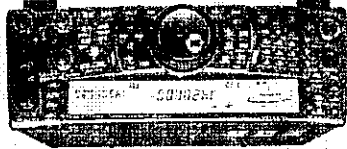
- Compact Transceiver w/detachable
- 900 Memories
- 300 Memories

FT-1000MP MKV HF Trans.

Low Pricing!

- Enhanced Digital Signal Processing
- Dual RX
- Collins SSB filter built-in
- 200W External power supply

KENWOOD



TS-2000 HF/VHF/HF TCVR

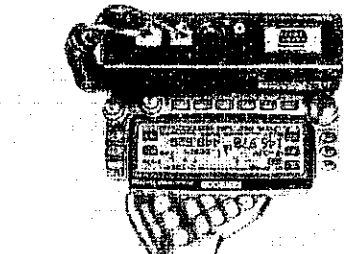
Low Intro Price!

- 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

TH-D7AG 2M/440

Low Pricing!

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



TM-D700A 2M/440 Dualband

Low Pricing!

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



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