

Calendar of Events

Mar 1	Sat	10:00 AM	Red Oak Victory ARC Meeting, Point Richmond
Mar 5	Wed	5:30 PM 7:30 PM	Dinner at Marie Callenders, 2460 Mendocino Ave, Santa Rosa SCRA Meeting , Agilent Technologies, 1400 Fountain Grove Prkwy, Santa Rosa
Mar 7	Fri	7:30 PM	Marin ARC Meeting, Alto Clubhouse, 27 Shell Road, Mill Valley
Mar 12	Wed	6:30 PM	SCRA Board of Directors Meeting, Agilent Technologies
Mar 18	Tues	7:30 PM	Hamilton Wireless Assoc., Bldg 549, Hamilton Field, Novato
Mar 19	Wed	7:00 PM Wed 7:30 PM	REDXA Meeting, Carrow's, Petaluma Valley of the Moon ARC Meeting, McDougall Hall, Sonoma Developmental Center, Glen Ellen.
Apr 6	Sun		Public Service - MS Walk
Jun 20-22			San Francisco Section Convention - Ferndale

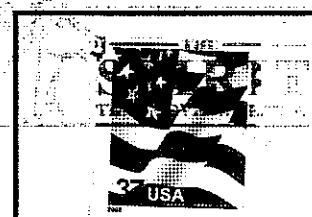
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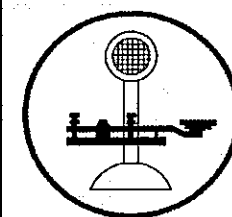
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Short Skip

newsletter of the

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Repeater Station
W6SON

Volume 28 Number 3

March 2003

QTC

by

Bill Hillendahl KH6GJV

SCRA President

ARRL Continuing
Education Courses

Recently, I got a list of all local Hams who have completed the Amateur Radio Emergency Communications courses. I was a bit surprised at how few people have taken the courses. The courses are quite easy to take online and there is a grant available to reimburse you the \$45 cost once you have completed the course.

There are three levels to the course and they are not difficult, but you do have to set aside time to go through the self-paced course within two months.

The courses cover a wide range of subjects related to emergency communications and management. The information will be of great value to you, not only in your Amateur Radio activities, but in your daily life as well.

The ARECC courses are not the only continuing education courses available. There are also courses in HF digital communications and antenna design. When I have the time, I'm going to try out the HF digital course. There are other courses in development, so I bet that you will find something to your liking.

So check out the ARRL web site for information on the continuing ed courses. Talk to someone who has gone through one for more details. What a great way to expand your knowledge about our favorite hobby!

AMATEUR RADIO SPECTRUM
PROTECTION ACT REINTRODUCED
IN US HOUSE

The Amateur Radio Spectrum Protection Act has again been introduced in the US House of Representatives. The measure is an ARRL legislative initiative. Florida Rep Michael Bilirakis put the latest version of the bill, HR 713, into the legislative hopper on February 12. It has been referred to the House Committee on Energy and Commerce. When last introduced in 2001, the measure was known as HR 817.

The House bill already has two cosponsors, Reps John Boozman, Arkansas, and Patrick Tiberi, Ohio. Both cosponsored last year's bill.

HR 713 is aimed at ensuring the availability of spectrum to Amateur Radio operators. It would protect existing Amateur Radio spectrum against reallocations to or sharing with other services unless the FCC provides "equivalent replacement spectrum" elsewhere. Bilirakis, a Florida Republican, has twice before sponsored similar legislation at the League's recommendation. A Senate version of the bill is pending.

(continued on page 4)

DUES ARE DUE!

Yes, it's that time of year again. The SCRA dues for the 2003-2004 fiscal year are due. The dues are **\$20 per year for individual members** and **\$30 per year for a Family membership**. If you are a current SCRA member, a renewal envelope 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!*

2003 Club Officials

President	Bill Hillendahl	KH6GJV	707 544-4944
Vice President	Brian Torr	N6IYY	707 575-5871
Secretary			
Treasurer	Jeff Basham	W2JAB	707 542-3860
Director	Josh Fiden	AD6XI	707 874-3940
Director	Jim Lee	KE6VGV	415 892-0317
Past President	Greg Gordon	AC6VJ	707 523-7077
Activities Chairman	Josh Fiden	AD6XI	707 874-3940
Public Service Chairman	John Mullan	KD2L	707 575-9176
Repeater Chairman	Greg Gordon	AC6VJ	707 523-7077

Short Skip & Web Staff

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

Contacts

Antenna Ordinance/Legal	Lee Dibble	KE6EAQ	707 544-1675
Public Relations	Bill McCall	W6WDM	707 538-2844
Raffles	Karl Johnston	K6QMT	
Refreshments	Ted DeCroff	KB6PTA	707 542-4008
Volunteer Exam Liaison	John Mullan	KD2L	707 575-9176

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

Tuesday Night Net

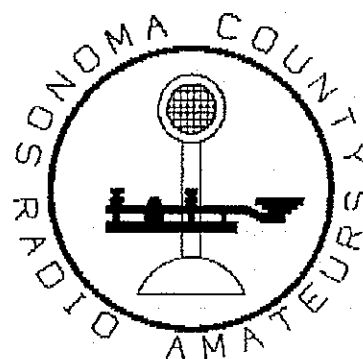
Check in to the SCRA net each Tuesday evening on the 146.985- (PL 88.5) repeater at 7:00 PM. Announcements are made of upcoming SCRA and other amateur radio activities in the area and what is listed in Hank's Swap Shop. You will also hear the weekly *Amateur Radio Newslines* broadcast.

Short Skip Advertising Rates

Business Cards	\$ 12
1st Quarter Column	\$ 13
Each Addn'l Quarter Column	\$ 4
Full page (one side)	\$ 35
Pre-printed inserts (each)	\$ 35
Guaranteed circulation of 150 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!



NEXT MEETING

March 5th
7:30 PM

Program:

Stealth Antennas

by Brian Torr N6IYY

(See article)

CLUB MEETINGS

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

Agilent Technologies
1400 Fountaingrove Parkway
Santa Rosa, CA

The meeting starts at 7:30 PM

ALL ARE WELCOME!

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

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

articles. Article 25 covers technical requirements and operator qualifications, including Morse code proficiency--which could be left up to individual administrations to require following WRC-03; Article 19 covers call sign configurations, and Article 1 deals with issues consequent to any changes to Article 25.

Twelve CITEL countries agreed in Orlando on an IAP to propose a "footnote allocation" of 135.7-137.8 kHz to amateurs in Region 2. This band is already available to amateurs in some CEPT countries.

The 136-kHz issue came up as a Canadian proposal to create a secondary allocation, but the issue is not on the WRC-03 agenda. According to Siverling, International Telecommunication Union (ITU)

member-states want to eliminate or minimize footnotes in the Radio Regulations. The IAP for a "footnote allocation" at 136 kHz, however, was seen as a way to get the issue on the WRC-03 agenda "on an exception basis," he said.

Siverling explained that the CITEL IAP leading to a possible allocation in Region 2 of the 136-kHz band at WRC-03 has been handled separately from the pending US amateur LF allocation. Acting on an ARRL request, the FCC has proposed a domestic (US-only) allocation at 136 kHz on a non-interference basis. "At some point, the twain will meet," Siverling said.

From ARRL Letter

CHARLES J. TARR
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UTC EMERGENCY COMMUNICATIONS NATIONAL TRAINING GRANT TO COVER ALL LEVELS

A generous grant from ARRL corporate partner United Technologies Corporation (UTC) <<http://www.utc.com>> will expand reimbursed Amateur Radio Emergency Communications Course (ARECC) training to all three training levels and put the UTC grant program on a national level. The three-year, \$150,000 grant will reimburse the cost of tuition to students anywhere in the US who successfully complete ARRL's Level I, II and III Amateur Radio emergency communication courses. An earlier UTC grant covered Level I and II ARECC training for more than 280 Connecticut amateurs.

"This grant plays perfectly into the overall plan and scope of emergency communication for local communities and our nation as a whole," said ARRL Emergency Communications Course Manager Dan Miller, K3UFG. "This will allow us to increase the number of seats offered each month for reimbursable courses." Miller praised UTC's foresight and proactive approach to community involvement.

ARRL Chief Development Officer Mary Hobart, K1MMH, said UTC clearly recognizes the importance of emergency communication. "With this new grant, UTC has taken a giant step and renewed its commitment to Amateur Radio, emergency communication and homeland security," she said.

Including the earlier UTC grant and a three-year federal Corporation for National and Community Service (CNCS) award of some \$543,000, the ARRL now has secured \$726,000 for emergency communication training. That training, Hobart predicted, "will have an impact on every state in the union."

Students successfully completing any level of the on-line Amateur Radio Emergency Communications classes under the new UTC grant will be eligible for reimbursement of their \$45 registration fee.

From ARRL Letter

HARMONIZED 7 MHz ALLOCATION GAINS SUPPORT IN THE AMERICAS

A dozen countries in the Americas have agreed to support a proposal for a "harmonized" 300-kHz amateur band in the vicinity of 7 MHz. The issue of a uniform worldwide 40-meter allocation is on the agenda of the World Radiocommunication Conference 2003 (WRC-03), set to be held in Geneva this June and July. The US has so far taken no position on the issue.

"It is possible that other countries will sign on when this proposal is circulated among all 34 member-states of the Inter-American Telecommunication Commission (CITEL)," said ARRL Technical Relations Specialist Jon Siverling, WB3ERA. "It takes at least six countries of the Organization of American States to make an Inter-American Proposal (IAP). If more countries sign on, the IAP will have greater weight at WRC-03."

Argentina, Canada, Colombia, Costa Rica, Dominican Republic, El Salvador, Guatemala, Honduras, Mexico, Paraguay, Peru and Venezuela agreed to the Canadian-sponsored IAP for a 300-kHz amateur band--from 7 to 7.3 MHz--in all three ITU radio regions. That position is in line with what the International Amateur Radio Union (IARU) has been calling for.

The support came during a meeting of CITEL's Permanent Consultative Committee for Radiocommunications (PCC.II-RADIO) Working Group, which is preparing Inter-American Proposals for WRC-03. PCC.II-Radio met February 3-7 in Orlando, Florida. Fourteen CITEL member states attended the Orlando session.

Siverling has been chair of so-called Chapter 5 issues for CITEL, leading up to WRC-03, which he will also attend. Chapter 5 issues include the Maritime Mobile, Amateur and Amateur-Satellite and Broadcasting services in the MF and HF bands.

Another matter on the WRC-03 agenda is possible changes to Articles 25, 19 and 1 to the international Radio Regulations. Fifteen countries--Argentina, Brazil, Canada, Colombia, Costa Rica, Dominican Republic, El Salvador, Guatemala, Honduras, Mexico, Paraguay, Peru, the US, Uruguay and Venezuela--signed an IAP favorable to the Amateur Service. The US signed the IAP but withheld support on two of the 18 specific provisions.

Siverling explained that the IAP approved at Orlando conforms with IARU positions on the three

March 5th Program Are You, Or Have You Ever Been "Antenna Challenged"?

By Brian Torr N6IYY

In these days of deed restrictions, CC&Rs, and restrictive antenna ordinances, many hams find it nearly impossible to erect a decent antenna, especially for HF. I know because I've faced this challenge and had varying degrees of success. There are surely several other SCRA members that have faced this challenge and could share their experiences.

The program for our March meeting will be a "Stealth Antenna Forum". The goal is for those of us who have faced this challenge to offer our experience and advice to those who are still struggling.

If you have dealt with this issue, I would like to ask you to present your experiences. The presentation need not be long, perhaps only five minutes. Photographs or sketches of your solutions would be great. Nothing fancy required. We need to leave time for discussion.

If you can assist by making a presentation, please let me know. My telephone number is 707-575-5871 and my e-mail address is n6iyy@arrrl.net

At the February meeting, Gregory Gordon AC6VJ made a presentation on tubes and their origins. Greg found a 1948 video on the development of tubes and their original use in telephone and radio equipment. Greg had some great samples of various tubes. A great look back at the origins of some of our technology.

Side note: There are many projects than can still be built with tubes. Check an old copy of the ARRL Handbook!

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 kh6gfv@arrrl.net. We'd love to see YOU in print!



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ATTORNEYS AT LAW

Tracy & Josh Fiden Generate Their 1st Harmonic



Nikole joined the Fidens on February 18th and is a healthy, curious little bundle. Josh reported that Nikole immediately showed interest in radio, little doubt since Josh played CW tapes while Nikole was still in development. Josh said, "I was poised with the camera to capture baby's first QSO (having generously offered to serve as control op), when Nikole realized she has no idea how to talk and just spit up instead."

Welcome to the world, Nikole!

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ARES Comm Log

by Rich Freitas KF6SZA
Sonoma County District
Emergency Coordinator

The Four C's of Emergency Communications

The best advice for anyone performing emergency communications can be summarized by the four C's: Calm, Courteous, Correct, and Concise.

CALM Try to keep emotion out of your voice. No matter what the emergency, a calm, professional attitude will help keep things cool and get the message through more quickly and accurately. Losing your cool, calm attitude may cost an important message. The more reason you have for getting excited, the more important it is for you to remain calm. As an emergency communications volunteer you should set a good, calm example for the other people to follow.

COURTEOUS You must think of yourself as a public servant. Regardless of provocation, remain courteous at all times. Never display temper on the air. Remember the "Golden Rule" at all times and practice it. Never fight with other operators over calls or reports. Always follow the instructions of the Net Control Station - whether you agree with those instructions or not. Most problems can wait until after the emergency situation is over. If some problem absolutely must be ironed out, do it by telephone or on another frequency - not on the net.

CORRECT Work to keep errors out of your communications. Use the phonetic alphabet and repeat the message where appropriate to get names, locations, and other information accurately. Write everything down for reference. Remember, your role is communications - you are not in charge of anything - most communications will be between the people who are in charge. When the Emergency Operations Center or Net Control Station asks a question, go get the answer from the person responsible - don't just give your best guess. It is always better to admit you don't know rather than give out information that is wrong. Always use plain language - don't use jargon, Q-signals, 10-codes, etc., which may not be understood by everyone. Avoid using specialized words and codes, even those of the agency you are supporting unless the message is going specifically to the same agency.

CONCISE Your job as an emergency communications volunteer is to get the message transferred while also allowing time for the other operators to get their messages transferred. Avoid tying up the net by keeping your

transmissions as brief as possible. Always leave a few seconds between transmissions in case someone needs to break in with an emergency call. A strictly business attitude is your best technique for assuring time-saving communications. You must consider the conditions - if everyone is full-quieting, there is little need to spell words, but if conditions aren't good or the word is particularly difficult, then it makes sense to spell it. Don't rush - speaking a little bit slower often gets the message through faster because the other operator doesn't have to ask for repeats. Don't assume everyone has a pad and pencil instantly ready when you need to send them a long or complex message - ask first, it saves time in the long run.

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

Spectrum (from page 1)

The measure would amend the Communications Act to require the FCC to provide "equivalent replacement spectrum" to Amateur Radio and the Amateur-Satellite Service in the event of a reallocation of primary amateur allocations, any reduction in secondary amateur allocations, or "additional allocations within such bands that would substantially reduce the utility thereof" to amateurs.

The 2001 version of the measure attracted 53 cosponsors in the House but last spring became one of many pieces of legislation caught up in the so-called "Enron logjam," during which the Internet and Telecommunications Subcommittee did not meet, although its full committee, Energy and Commerce, held numerous hearings concerning Enron.

The ARRL is urging members of the Amateur Radio community to contact their representatives in Congress and request that they cosponsor HR 713. Experience has shown that, while most members of Congress understand and appreciate the benefits of Amateur Radio, some may be reluctant to sign on to a technical piece of legislation without some indication of support from their own constituents. A sample letter is available on the ARRL Web site.

The text of HR 713 is available via the Thomas Web site <<http://thomas.loc.gov/>>. Enter "HR713" in the "Bill Number" window. ARRL asks that members soliciting their members of Congress to cosponsor this legislation to copy their correspondence to the League via e-mail to specbill03@arrl.org.

From ARRL Letter

Sonoma County Radio Amateurs, Inc.

Membership Meeting 2-5-2003

MINUTES

1. Call to Order, Verification of Quorum - The meeting was called to order by President Bill Hillendahl KH6GJV at 7:32 PM at the Santa Rosa Agilent Technologies facility. There were 45 people present.
 - a. Introductions
 - i. Officers & Directors - The club officers and directors introduced themselves.
 - ii. Guest Speakers - Gregory Gordon AC6VJ was introduced.
 - iii. Visitors - There were several visitors.
 - iv. New Calls & Upgrades - None
2. Approval of Minutes - Bob Olsten WD6DPE moved that the minutes of the January 8, 2003, be approved as printed in Shortskip. The motion passed.
3. Officer & Director Reports
 - a. President - Bill Hillendahl KH6GJV announced that through his oversight, Lee Dibble KE6EAQ had not been recognized for his effort as Chairman of the EmCommVehicle, the "Toaster." Lee was presented an award of appreciation from the club. Bill also announced that a Technician Class was in progress at the SRJC ARISS station on Saturday mornings.
 - b. Vice President - Brian Torr N6IYY asked for volunteers for the club's weekly net.
 - c. Secretary - no report
 - d. Treasurer - Jeff Basham W2JAB - The current account balances were announced.
 - e. Directors
 - i. Josh Fiden AD6XI - nothing to report
 - ii. Jim Lee KE6VGV - nothing to report
 - f. Past President - Greg Gordon AC6VJ - nothing to report
4. Committee Reports
 - a. ARES - Rich Freitas KF6SZA - not present.
 - b. Mobile Comm Van - Lee Dibble KE6EAQ - Lee and John Breckenridge WB6FRZ advised that they needed 10 NMO mounts for the antenna racks. The Saturday after the club meeting would be the work party day to work on the RV.
 - c. Activities Committee - Josh Fiden AD6XI - Josh reported that he was working on a T-Hunt. Field Day will be at English Hill and that planning is in progress. The upcoming WASCRA contest was discussed.
 - d. Newsletter - Bill Hillendahl KH6GJV - Bill reported that a number of the dues envelopes slipped out of the newsletters. Members could pick up envelopes at the meeting.
 - e. Public Service & VE - John Mullan KD2L - The next VE session will be in April. April 6th will be the MS Walk and May 3rd will be the Wine Country Century. The club will resume assistance with the Human Race on May 10th.
 - f. Repeater Committee - Greg Gordon AC6VJ
 - e. Net control volunteers - Greg requested Net Control volunteers. Karl Johnston K6QMT was a volunteer.
 - f. Status of Repeaters - Greg reported that everything the club runs is up and running.
 - g. SCRA v NARCC - An amended petition had been filed.
5. Unfinished Business - None
6. New Business - None
7. Member Biography - Al Ferrara K6MXI gave a brief description of his Ham Radio experience since his licensing as a Novice at age 14 with the call WV6MXI.
8. Show and Tell - Bill Waters showed an MFJ antenna analyzer. Josh Fiden showed an antenna patch panel. Brian Torr showed Anderson Power Poles. Lee Dibble discussed the USGS Survey volunteer program.
9. Recess - a recess was held from 8:14 PM until 8:40 PM
10. Program - Gregory Gordon AC6VJ made a presentation on vacuum tubes and played a 1948 video on the development and use of tubes in the "old" days.
11. Raffle
 1. 50/50 - Ted DeCroff KB6PTA split \$32 with the club.
 2. Membership - Doug Reid KG6EW lost the membership drawing.
12. Announcements
 1. Next Program - tba
 2. Board Meeting is next Wednesday at 6:30 PM. Location tba.
 3. NCDX Convention in Visalia, CA May 2 - 4, 2003
 4. The Dayton Hamvention is May 16-18, 2003. Bill KH6GJV has

13. Adjournment - There being no objections, the meeting was adjourned at 9:20 PM

Sonoma County Radio Amateurs, Inc.

Board of Directors Meeting 2-12-2003

MINUTES

- Board Members Present: Bill Hillendahl KH6GJV, Brian Torr N6IYY, Jeff Basham W2JAB, Josh Fiden AX6XI, Jim Lee KE6VGV, and Greg Gordon AC6VJ.
- Guests Present: None
1. Call to Order, Verification of Quorum, Introductions - The meeting was called to order by President Bill Hillendahl KH6GJV at 6:55PM. The meeting was held at Agilent Technologies, 1400 Fountaingrove Parkway, Santa Rosa. A quorum was present in that six of the seven voting board members were present.
 2. Approval of Minutes - Brian N6IYY moved that the minutes of the Board meeting of 1-15-2003 be approved as printed in Short Skip. The motion passed. Approval of the BoD meeting minutes of 12-11-2002 was deferred as they had not been provided by the 2002 Secretary.
 3. Officer & Director Reports
 - a. President - Bill KH6GJV - Nothing to report.
 - b. Vice President - Brian N6IYY - Nothing to report.
 - c. Secretary - office vacant
 - d. Treasurer - Jeff W2JAB - Jim Lee KE6VGV presented a recap of the account balances. Jim will work with Jeff to do the Treasurers job.
 - e. Directors
 - i. Josh AD6XI - Nothing to report
 - ii. Jim KE6VGV - Nothing to report
 - f. Past President - Greg AC6VJ - Nothing to report.
 4. Committee Reports
 - a. ARES - Rich KF6SZA - Not present.
 - b. Mobile Comm Van - Insurance is in place. Lee Dibble will transfer the ownership in the near future. Greg AC6VJ offered to Chair the CommVan committee. The Saturday after the regular club meeting will be the work day on the RV.
 - c. Activities Committee - Josh AD6XI - Josh reported that the owner of English Hill had approved the use of the hill for Field Day. Josh and John Felton KE5RI will work on the logistics of holding Field Day on the hill. The WASCRA contest was discussed.
 - d. Newsletter - Bill KH6GJV - nothing to report
 - e. Public Service & VE - John KD2L - John was not present. Civil Air Patrol Cadets want to participate in SCRA's public service events.
 - f. Repeaters - Greg AC6VJ
 - i. Status of Repeaters - everything was up and running.
 - ii. Legal update - in executive session
 - iii. Weekly Net Control - 3/4 - W2JAB; 3/11 - K6QMT; 3/18 - AC6VJ; 3/25 - N6IYY
 5. Unfinished Business
 - a. Meeting Programs

January - ARISS	July -
February - Hollowstate Devices	August -
March - Stealth Antennas	September -
April "Homebrew Night"	October -
May -	November - Elections & Repeaters
June - "Field Day"	December - "Christmas Party" & Photos
 - b. Programs Ideas - 911 Services; Jeopardy;
 - c. Club Calendar
 6. New Business
 - a. 2003 Budget - There being no objections, this item will be carried over to the next meeting.
 - b. WorldRadio - Club listing renewal - Greg AC6VJ moved that the \$65 for renewal be paid. The motion passed.
 7. Announcements - None.
 8. Adjournment - The meeting was adjourned at 7:45 PM.

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- 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

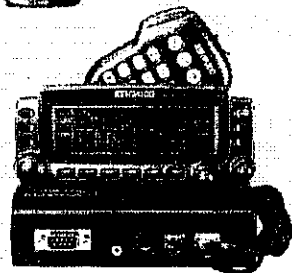
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TH-D7A(G) 2M/440

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

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

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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

Low Pricing!



IC-756 PRO II All mode Transceiver

- 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

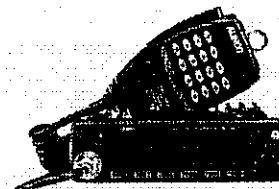
The Ultimate Radio!



DJ-196T 2M/HT

- 5 Watt out
- 40 memories
- Alphanumeric display
- CTCSS + DCS built in
- "S" meter
- Auto Dialer

Low Pricing!



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

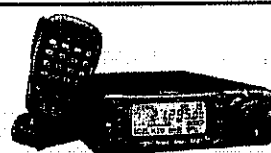
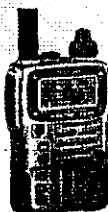
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VX-7R

- 50/2M/220/440 HT
- Wideband RX
- 900 Memories
- 5W TX (300mw 220MHz)
- Li-Ion Battery
- Fully Submersible to 3 ft.
- Built-in CTCSS/DCS
- Internet WIRES compatible

Great 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, Vox, CW keyer
- 300 Memories

Low Pricing!



FT-100DMP MKV HF Trans.

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

Low Pricing!

HSC Web Specials!

The items below can be found in the "Specials" area of our on-line shopping pages at www.halted.com...check them out and use our secure site to place your order for the holidays!

Fujitsu FPG-310 Color Pen Plotter GPIO (IEEE-488) interface Boxed, w/ manual, cord, 90-day warranty HSC# 19131	Computer Power Supply, ATX, 145W HSC# 18350
Rechargeable 12VDC Battery 40 AH, lead/acid, Yuasa NPX-150R HSC# 18917	Network card, ISA bus, 10-Base T HSC# 18943
Server Cabinet, ATX rack mount, with Power Supply, White color HSC# 80541 New Price!	Computer Speakers, powered HSC# 18562
Battery charger, NiMH HSC# 19151	Game-pad, Microsoft "Sidewinder" HSC# 80486
SCSI Controller, Initio, PCI Bus HSC# 18218 New Price!	Compact AC Inverter for the car, 100W HSC# 19021 New Price!
SCSI Controller, Adaptec 1505, ISA Bus HSC# 17995 New Price!	Motherboard, 486DX4 AT HSC# 18529 New Price!
Mouse, 2-button HSC# 18731	Motherboard, Baby AT, 486VLB HSC# 19003
Mouse, w/ numeric keypad HSC# 80539	Multimeter, analog, VOM HSC# 18260
Scrolling mouse, translucent body HSC# 18829	Multimeter, DMM, with transistor check HSC# 80370
Computer Power Supply, ATX 200W, "Mini-Tower"-style HSC# 18655 New Price!	Multimeter, DMM, 8t-up display, nice! HSC# 80504
	Computer Joystick, "FX2000" HSC# 18772 New Price!
	Tower Chassis, 7-Bay "RAID" HSC# 80544

Disk Drive Deals!

- Seagate ST15150N 4.3 GB "Barracuda" SCSI
7,200 RPM, 8.0/0.0 ms avg. seek time
21 Hds, 11 Disks, 3,711 Cyl.
 - Standard 50-pin SCSI
3.5" size, half-height (1.5" tall)
 - Reformats, 90-day warranty
HSC# 18412 \$32.50
 - Seagate ST10171WC, Ultra-
SCSI Wide ASAT
Formatted capacity: 9.1GB
Spindle speed: 7200 RPM
3.5" size, half-height (1.5" tall)
 - 80-124 mb/s/sec internal transfer rate
Average Access (read/write): 9.7-10.7 ms
HSC# 18753 \$39.95
- Special: buy this drive & get a 50-pin (HSCA23700) or 68-pin (HSCA23720) Adapter for \$10.00! Normally a \$20 - 30 value!

PCMCIA Goodies!

- EPSON Ethernet PCMCIA interface card
Both 10Base2 and 10BaseT cables included!
- Compatible with notebooks/PCs with Type II slots
- Hot card insertion and removal - no power down
- No jumpers or switches - Two LED status lights
- New, boxed, diskette & manual, 90-day warranty
HSC# 19125 \$9.95
- Intel "PRO100" PCMCIA Network Adaptor Card
MBLA1600 LAN cards support 10BaseT/100BaseTX
- For PC Card Type II socket, 32KB packet buffer
- Full duplex support (10Mbps network only)
- Ethernet Specs: IEEE 802.3 & 802.3u spec
- With RJ45 cable, OEM packed, 90-day warranty
HSC# 19190 \$39.50
- Epson/Adaptec APM80B PCMCIA SCSI Card
Up to 2 MByte/sec PC Card bus rate
- New OEM pack with DB25 cable, 90-day warranty
HSC# 19160 \$49.50

VHS Video To Go!



- "Videolectra" Model No. VHS-100 player deck
- Dual power option - 110VAC or 120VAC
- Perfect for online viewing the kids in the yard
- Many other uses...home, business, camping...
- Standard NTSC VHS format, full front-panel controls, self-touch buttons with LEDs
- Remote control sensor on front panel - remote NOT included...may work with generic remote?
- Removed from working service, 90-day HSC warranty

HSC# 19048 \$19.95!

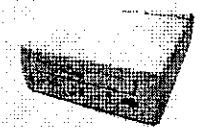
VHS for even less!



- Magnavox Model No. VR9100AT01 video player
- Standard F-type connectors for inline connection
- Front panel switch selects Ch. 3 or Ch. 4 output
- RCA jacks for line level video/audio connect
- Pulled from working service. Units have slight markings from removed infrared transmit element covering front panel infrared detector. Remote NOT included.
- For 110VAC, 60Hz operation
- Removed from working service, 90-day HSC warranty

HSC# 19152 \$17.50!

External CD-RW!



- Hewlett-Packard Model 7200 Series CD-RW
- Use just like a floppy! Shares printer port
- Drag & drop up to 850MB on a single CD!
- 2X write on CD-RW, up to 6X read on CD-R
- 1X RAW: 150KB/sec, 2X RAW: 300KB/sec
- 6X Read: 900KB/sec - drivers avail. at HP website
- EIDE (ATAPI) interface w/MMC, front bay load
- 74 min. on 120mm disk, 21 min. with 80mm disk
- Power supply not included (pinout provided)
- Refurbished, 90-day HSC warranty

HSC# 19036 \$49.50

Lab Bench Supply!

- Model No. AEEC-350, 0-50VDC @3 Amp
- 110VAC, 60Hz - 160VA - small footprint
- Dual digital meters for voltage and current
- Short-circuit protected, grounded I-w cord
- New, IEC power cord, manual, 90-day warranty

HSC# 80606 \$139.00

Variable Transformers!

- One of the most useful instruments on your bench!
- Always wanted one, but they were too expensive?
- Two sizes to choose from, now they're affordable!
- Both new in box, made in China
- Model AEEC-500VR
- 0 - 120 VAC output, 500VA
- Measures 6.5" x 8" x 7" tall
- Features meter, illuminated switch, line cord, fuse

HSC# 80474 \$45.00

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

HSC# 80461 \$95.00

Solder Pots!

- Finally...we found a source for solder pots! New, 90-day HSC warranty, very handy for the workshop!
- AEEC-10P - handy compact desktop unit
- 110VAC, 110 Watts - perfect for small jobs
- Adjustable temp. levels - 300 to 430 deg. C
- Both dimensions: 36mm dia x 30mm deep

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