

The READOUT

YEAR 11 NUMBER 2 FEBRUARY, 1988



Stanislaus Amateur Radio Association, Inc.
P.O. Box 4601 Modesto, Ca 95352

...THE READOUT FACTS...

READOUT is the official publication of the Stanislaus Amateur Radio Association Inc. "SARA" P.O. Box 4601, Modesto, CA. 95352. Entered as third class mail at the U.S. Post Office Modesto, CA. 95352. Contributions to READOUT are always welcome and may be submitted to the editor, Bob Pinheiro, WA6ZLO at 1221 Mist Flower Ct. Modesto, CA. 95355. SARA owns and operates two F.M. repeaters. 145.39 MHz (-) located on Mt. Oso, 22 miles SW of Modesto at an elevation of 3,370 feet. Our 220 MHz repeater operated on 223.68 MHz (-) and is also located on Mt. Oso at an elevation of 3,500 feet. Both repeaters are equipped with an autopatch for the use of SARA members. SARA owns and operates a Packet Digipeater, W06EJF-1, also located on Mt. Oso at 3,500 feet. Frequency is 145.01 MHz. SARA conducts an informational net on both repeaters each Thursday evening at 800 pm with the exception of holidays. SARA meets the third Tuesday of each month at the Stanislaus County Administration building at the corner of 12th and H streets in downtown Modesto. Meetings begin at 730 pm. SARA is incorporated in the State of California, is an affiliated club of the American Radio Relay League (ARRL) and Stanislaus County RACES. Dues are \$20.00 per annum and \$10.00 for students up to sophomores in college. Dues are pro-rated for newly joining members from the date they join. ARRL memberships and DST renewals may be made through the club with a \$2.00 commission retained by SARA.

PRESIDENT

Bud Pelletier.....N6OCV.....823-0877

VICE PRESIDENT

Bill Duncan.....WA6OHP.....537-2785

SECRETARY

Dottie Duncan.....KI6YQ.....537-2785

TREASURER

Bob Vreugdenhil.....N6OCS.....522-6127

HAPPENINGS

Next SARA Meeting

February 16, 1988
Program

"Working DX"

with
Denny, W66P

730 pm

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CONTACT LENS ALERT A HOAX

A couple of months back we reprinted a story that appeared in WorldRadio concerning a contact lens alert. The story warned contact lens wearers of a safety hazard from electrical and welding arcs. The story alleged that exposure to such a high intensity arc would cause the contacts to weld to the cornea of the eye(s) and cause instant blindness. The following month, WorldRadio reported that the story appeared to be a hoax. According to the American Welding Society, that's exactly what it is, a HOAX. According to an editorial in their national magazine, Welding Journal, from time to time this myth pops up in industrial circles. The pseudoscientific explanations for the "accident" is that microwaves in the electric arc instantly evaporated the moisture between the eye and the contact lens, permanently bonding the two together. This is simply NOT TRUE! It has never happened and never will according the Welding Society article. The story has been circulating for at least ten years and each time it resurfaces on a large scale it is summarily exposed as a sham by authorities no less notable than the National Society to Prevent Blindness and the American Optometric Association. Unfortunately, the story refused to die, and it occasionally gains false credence by widespread media coverage.

(Thanks Jack, WA6CYR)



Meet the ladies!
Top to bottom,
Linda Franklin,
N6REB. Nancy
Woodard, N6QEB.
Shirley Armen-
trout, KB6TQW.

On The Agenda.

The January 19, 1988 meeting of SARA was opened by Bud, N6DCV at 735 pm. Introductions of members and visitors followed. No minutes were available from the Secretary, so, they will be read at the February meeting. The treasurers report was read and approved. The balance on hand was \$1,337.21 with a starting balance of \$1,351.95 and deposits of \$532.00 and disbursements of \$546.73. Old business: 1. New building for the repeater is in Jim, N6KMR's yard waiting for the work to get done. 2. Discussion about the fireworks booth. We need a volunteer to investigate. 3. Dinner-dance needs to be planned. New business: 1. Classes for Novice through Advanced begin February 6th at 9 am. 2. VE session Feb 25 and 27th.

Anyone accredited with W5YI is encouraged to contact Chet, W6XK. 3. Lynn, KB6-DXX, net coordinator, requested a volunteer for net control for the second Thursday of each month. Christia, KB6GYM, accepted the challenge. 4. Lynn also suggested that if any problems of a technical nature arise with interference, please discuss it privately with the technical committee or Ray, WA6OQF. 5. Laverne, KB6ECF, volunteered to check into another mini-DXpedition for the upcoming year. Break for 10 minutes was followed by a demonstration of a service monitor by Bill, WA6OHP. Meeting adjourned at 935 pm. Respectfully submitted by Dottie Duncan, KI6YQ, SARA Secretary.

HAM LOAF RECIPE

Ingredients are one Amateur Radio operator. Two trees and a hammock. Mix well, cover and allow to remain undisturbed for several hours. Garnish with one handi-talkie and a rubber ducky.

(Thanks SINEWAVE, Kings Amateur Radio Club, Hanford, CA.)



DID YOU FORGET SOMETHING? If your call appears in the list below, YOU HAVE FORGOT TO PAY YOUR DUES! Your name will be dropped from the roster and this will be the last copy of The READOUT you will receive. This list was prepared on 1-24-88. If you paid your dues after that date and the time you read this, please disregard. If you have any questions, contact SARA Treasurer, Bob, N60CS, evening at 522-6127.

KA7AFZ	KB6DXZ	KL7GHV	W6KU	KB6NMC	WA4ROH
WD6AKT	KB6DYA	WA6GKS	WA6K	N6NMM	
K6AXV		KB6GMU	KB6KYI	KB6NSE	WB6SHE
K6AYA	WD6EFM		N6LAB	N6NUO	K6SJV
KE6BE	W6EVQ	NQ6H	N6LRB	KG6NZ	K6SXF
KB6CCL	WD6EYX	W6HOG	N6LSC		KG6TG
WD6CEV	WA6FBE	N6ICM	N6LYQ	WA6OOX	WA6TIB
KA6CIO	WD6FFX	KA6ILO	WB6LZA	KG6DX	KB6TQW
HK1CLT	W6FGC	WU6I	WB6NAO	W6DYK	KB6TTY
WD6CMI	WA6FDL	N6JSN		N6PDW	W6TWU
WD6CYZ	N6GGB	WA6KDC	KB6NKB	N6PEB	KB6TYT
KA6DLK	KL7GHT	N6KMR	KB6NKH		KB6TYV

Contributions to The READOUT can be made through my Packet Mail-box on the W6FGC-2 BBS at Twain Harte. Column width and length are not critical. I download all contributions into the word processor and get them ready for the newsletter. Frequency is 145.07. All contributions are welcome and carefully considered.
de WA6ZLO.

N6POF	KB6UKN
W66P	KA6UPS
N6QJP	KB6VAG
KB6QKA	K9YBM
KJ6Q	W6YCB
KB6QMO	
N6REG	KA6YRC
ASSOC.	
HARESH PORECHA	WA6ZSY



OFFICIAL JAMMING STATION LETTER

(Date)

(Name and Address of neighbor)

Dear Sir:

You have called to my attention the fact that transmissions from my station are causing interference to your TV reception. Interference such as you describe is not caused by CB operations, as CB stations can not, and do not cause TV interference. Nor is this interference the result of any malfunction of my equipment or poor operating habits -for my station is not a CB station.

Be advised that your government is placing a \$500.00 per year tax on all TV receivers. Because it is difficult at this late date to obtain a listing of TV set owners for taxation purposes, your government has established a vast network of TV jamming installations with the hope that TV set owners will make themselves known to the jamming stations so that their names can be added to the tax rolls. My station is just such an installation.

Your government greatly appreciates you turning yourself in. You will be one of the first to be taxed! You have also verified that this TV jamming equipment is functioning properly. We have also made note of the time and channel you reported this jamming. This information will be given to several TV program rating services. You have therefore provided a valuable service to the entertainment industry and to your government.

In order that you will not be the only one taxed, please be patient as we continue our jamming operations.

Sincerely yours,

(Operator signature here)

Official Jamming Station.

.....de W66NON (HI HI)

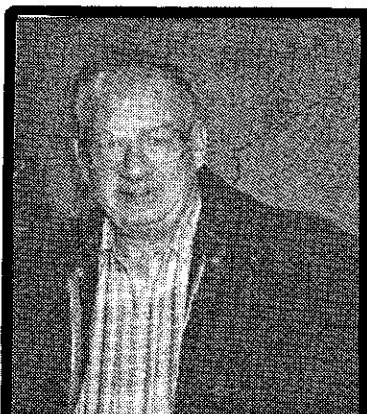
DX NET THURSDAYS

For those of you who are either avid DXers now, or for those who would like to learn a little more, there will be a new net on the 145.39 Repeater. It will be for DX info and also QSL info. WG6P will host initially, with help from others later. For now, the net will meet after the regular info net on Thursday nights. Later on, the net will move to another night, so as to eliminate the nets from becoming too long. So, now's your chance folks! Tune in and learn all about the "rare ones"!

..de WG6P Denny

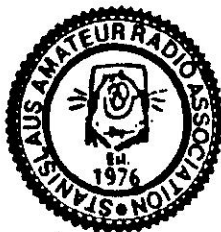
NEW ARRL PACKET PUBLICATION

Are you one of the many Amateurs that have been wondering what all the fuss over packet radio is about? Perhaps you have been awaiting an easy-to-understand book that would answer all your questions. That publication is now here. Now available from ARRL is the new packet book entitled Your Gateway to Packet Radio by Stan Horzepa, WA1LOU, the editor of gateway. The 205-page publication contains 13 chapters, and 7 appendices, a sampling of which are: the radio hacker; installation; theory of operation; vhf and uhf communications;



Meet SARA
Member Walt
Caton, KB6QYC
Ceres.

**VE Test
Sponsored by**



**Contact Person
KI6YQ 857-8788**

Walkin's OK

County Center 3

))) February 25, 1988 (((
(Thursday Night)

630 pm.....20 WPM Code
700 pm.....13 WPM Code
730 pm.....5 WPM Code
800 pm.....Written Tests

))) February 27, 1988 (((
(Saturday)

900 am.....20 WPM Code
930 am.....13 WPM Code
10 am.....5 WPM Code
1030 am.....Written Tests

Modesto

FED'S TEAM UP WITH AMATEUR RADIO FOR WEATHER BULLETINS

By Tom Margrave, N6RED

The National Weather Service, located in Redwood City, is working with the Amateur Radio community through the Northern California Skywarn System (NCSS) to provide timely and accurate reports of severe weather reports. NCSS is run by N7EQN, with support from KEGAD and K6ANN and is located at the National Weather Service Forecast Office. N7EQN also runs a digipeater (N7EQN-1) located on Mt. Pisgah. N7EQN operates on 144.97Mhz (BBS) and 145.01. NCSS also provides flash flood and winter storm warning programs serving the cities, counties and state agencies that comprise the twelve bay area counties. The U.S. Geological Survey, USGS, located in Menlo Park is interested in NCSS for the rain data on their BBS (Packet Bulletin Board Systems), which is updated every three hours and is used in conjunction with USGS data to forecast landslides in the Bay Area. As an employee of USGS Information Systems Division, I was asked to setup a packet radio station to download data from N7EQN. Equipment was furnished from various sources to get the job done.

Our purpose for establishing a packet radio station was to test the feasibility of using radio to upload and download computer data with low cost equipment. I conducted the tests from my home station in Modesto while I was on leave during the December holidays. My findings established that packet radio works well on VHF at 1200 baud for data dumps into packet BBS' automatically without operator assistance. There were no problems connecting via N7EQN-1 from Menlo Park except traffic can get heavy at times. Connection from Modesto can be an iffy thing. I could not find any other digipeaters at 144.97 and my connects to N7EQN-1 were about 45 percent successful. For those of you who are interested in weather or emergency traffic, Skywarn BBS has some very interesting information not seen on other BBS's. We get some of their products, but we see only summary information. I found the pro-

...See SKYWARN on Page 13



Editor's WA6ZLO Notes

You can forget about Instant Novice operation. The FCC released an Order on December 31, 1987, denying the concept. The FCC said that the processing period of approximately 6 weeks is not unreasonable and the marginal benefits to be derived by authorizing successful Novice operator examinees temporary operating authority are outweighed by the disadvantages that could occur. In addition, the Commission felt that the proposal appeared to be contrary to International Law in regards to the requirement that an examinee's qualifications to hold a license be verified before issuance of a license. The fact that the ARRL refused to support the proposal probably contributed to its defeat. +++ We are well on our way to replacing the old building on Mt. Oso housing our two meter repeater with a

new building. The cargo van purchased by the Club in December was picked up by a team of SARA members and moved to N6KMR's home in Modesto. There, it will be outfitted with electrical service, ventilation ports and some minor repairs. Once completed, it will be hauled up the hill and installed at the base of the tower. The building we're presently in has been provided at no charge by the property manager and was originally built as a temporary building, constructed of particle board with a tin corrugated roof. The years and the elements have taken a toll on the particle board despite several coats of Army surplus paint that were applied over the years. The new unit is 7 foot high by 14 feet long and is constructed of aluminum with a hardwood floor and a large roll up door. It will provide secure housing for many years to come. +++ I got a nice letter from Ernie, K6UVI. Ernie says that he and Rita have settled into their new home in Springfield, Oregon, just outside of Eugene, where he is attending the University of Oregon. Good Luck Ernie! Also, I got a nice letter from Jack Hamilton, WD6FVQ, of Glendale. Jack reports

.....See Next Page.....

that there is a lot of activity on 1.2 GHz in the L.A. now. He's still working for the PBS television station in Hollywood. +++ Some new call signs have come in for several SARA members who have upgraded. N6PXP is now KJ6CK. KB6TYU is now N6REB. KB6UNU is now N6RED and KB6TPP is now KJ6CH and Jonathan Rong's new Novice license has arrived. His call is KB6VDQ. Welcome to new SARA member Dan Burton, N6IPH who is with us for the first time. +++ Denny, W66P, will be presenting the program for the February meeting of SARA. He will speak on his favorite subject, "DX". By the way, Denny has a new TS 940 Kenwood to chase DX with. He found it under his Christmas tree. +++ Condolences to Russ Clark, KB6VI on the death of his father Earl E. Clark on December 16th, 1987. Mr. Clark was 89 years old. He owned and operated Model Pharmacy in Modesto for 47 years. +++The 145.05 WB6MFV digipeater on Bear Mtn. is schedule to be moved to 145.07 soon. This will provide a path to the Sacramento Valley and many Bay Area locations for the W6FGC-2 BBS at Twain Harte. Speaking of Packet, two more club members are now on Packet. WJ60 and N6RED. Good to see the

number growing. +++ Federal authorities in Atlanta intentionally jammed two-way radio transmissions from Cuban inmates holding hostages at the Atlanta prison last month so that they would not have access to the news media. The radios were taken from guards during the revolt. +++ Microcomputer technology constantly changes. First it was CP/M, then MS-DOS, now the single-user personal computer standard seems headed toward OS/2- IBM's new proprietary operating system of the future which supposedly can't be cloned. But MS-DOS won't go quietly. It is, by far, the largest single installed operating system in PC's today. You can expect MS-DOS (Micro Soft Disk Operating System) to be around for years and come up with bridges for MS-DOS to OS/2 architecture. Biggest problem with MS-DOS is the 640K memory capacity. OS/2 can handle 5M bytes of RAM. Speaking of computers, the Atari Corporation has bought the 67-store Federated Group consumer electronics stores for \$67 million. Federated, which was having financial problems, sells two-thirds of Atari's PC's. Atari will shortly introduce a new desktop publishing system for under \$5,000 which will be

EDITOR'S NOTES (Cont.)

complete with computer hardware, software and a laser printer. +++ Regency Electronics, (the scanner people) is getting out of the consumer electronics business. They plan to sell off their line of scanners, information radio products and marine radios and concentrate on the more profitable land mobile, utility load management and mobile telephone business. +++ The Omninet Communications Co. has filed an application with the FCC to use satellites to provide data communications and position location services primarily for truckers. The customers would be able to communicate (via alpha/numeric keyboards and readouts) and track locations of 18 wheelers operating throughout the nation.

AMATEUR DATABASE AVAILABLE VIA PACKET

The first connection of CD-ROM (Compact Disc-Read Only Memory) to Amateur Packet radio took place on October 16, 1987, when the entire Buckmaster database of all U.S. Amateur licensees (472,000+) went on line. The contact was made between WA4ONG-1@ PPBS in Richmond, Virginia and N1BIC in Mineral, Virginia. ONG provided the multiuser PBBS and interface software. BIC supplied the Hitachi 1502S CD-ROM Disc. The purpose of the event was to test the availability of this massive file (142+ megabytes) in a packet environment. A CD-ROM optical disc can hold over 550 megabytes of read-only data. Other data bases of interest to hams are planned. HF PBBS operation is also being discussed.

...de NEWSYI Report!

REMOVING DECALS & STICKERS

Ever have trouble removing decals from your transceiver, car windows, bumpers or other pieces of gear? Even price tag stickers can be tough to get off and attracts dirt and grime. This tip from the finish folks at Ranger Boat Co. can make sticker and decal removal quick and easy. Use a common hair dryer and gradually heat the entire decal. After the decal peels off, use simple white vinegar or WD-40 to remove any sticky residue. Wash with soap and water and you got it.

...de Portsmouth, VA ARC and ARNS.

COMPUTER PRICES DOWN- BUYER BEWARE!

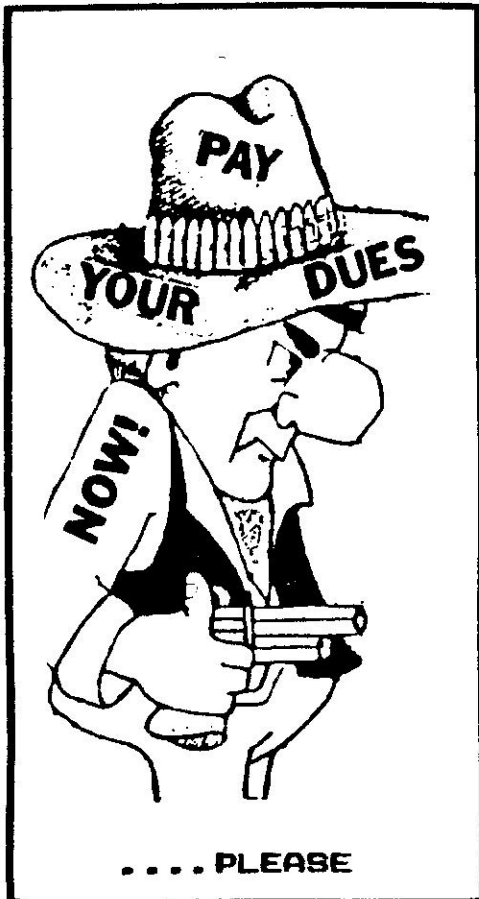
Competition among vendors in recent months has not only brought down the average price of computers, but has produced what appears to be some wide price differences between essentially the same computers. Be aware that there can also be wide differences between what is offered for the prices. Some vendors do not include the monitor (TV display) in the price. This can make a difference of one to three hundred dollars, depending on whether the computer is capable of displaying colors or can only display black and white. Some include only a single floppy disk drive instead of two. Some include only a very minimal amount of memory. There are other smaller differences, such as the number of keys on the keyboard, or the size of the power supply. Color is nice to have. It makes a flashy display, but actually is

rarely of practical value. Unless one also has a color printer there is no real advantage to having a computer that displays color. For the average Ham Shack, a monochrome computer does all the same things and saves money. On floppy disk drives, it's possible to get by with one, but two drives makes the computer so much easier and faster to operate. A hard drive, if you can afford it, is the absolute best way to go. On memory, the same is true, the more there is the easier the computer is to use, and well worth the cost. One advantage we hams have is that we can easily communicate. When buying computers or any other equipment, it pays to ask questions of those who are already using such equipment.

...de WB6KAI and GEARS
Newsletter, Chico.

If you find mistakes in this publication, please consider they are there for a purpose. We publish something for everyone, and some people are always looking for mistakes.

10,000 WATTS CB AMP SEIZED



On December 4, after conducting a lengthy investigation, the FCC Atlanta office along with the US Marshal's service, seized an estimated \$10,000 worth of electronic equipment, including a 10-kw linear amplifier, from the residence of Arthur Ford, in Ellenwood, Ga, according to an FCC Public Notice.

The use of this equipment is prohibited under section 301 of the communications act, and FCC part 95. Penalties include fines of up to \$100,000 and imprisonment. This is part of a program by the FCC to curtail operation of illegal CB equipment.

SKYWARN SYSTEM (From Pg 8)



-ject fun and interesting. I learned a lot about packet radio, but I know I need to learn a bunch more. Thanks to SARA classes and VE's this fall, I got my Novice in September and my Technician the 3rd of December. In 1974 I got my Novice as WN6CED, but it was good for only two years in those days and I could not find time to get to FCC in San Francisco for testing. It's nice to be back in Amateur Radio again!

73 de Tom ,N6RED

"I DID clean up my desk . . . two years ago, just before I picked up that call from Russia."



Jan. 7, 1988

Dear Bob,

Just a note to say that as I read the January '88 READOUT, I noticed that Charles (Chas) Franklin- KB6TPP, was not among the SARA members acknowledged for their recent upgrade to Advanced Class. I realize this must have been an oversight, but he was among those club members who tested and passed at the Tuolumne VEC testing last November 21st.

Since receiving his Novice license last August, he has upgraded to Advance and is now preparing for his Extra class upgrade. He has worked very hard for his achievements, and I am very proud of him. Since Charles is my husband, I am sure you will understand why I had to bring this to your attention.

Thank you!

/s/ Linda Franklin - KB6TYU/KT

Ed. Note: My spies let me down Linda. Sincere apologies and warmest congratulation to the OM. I greatly appreciate your letter and best of luck on the upgrade to Extra and please be sure to let me know when he gets it.



KB6QMD
John McGaughey
Manteca



N6MSB
Judy Rong
Manteca



N6GEF
Ken Mendenhall
Ceres

THE AMERICAN RADIO RELAY LEAGUE, INC.

SECTION MANAGER

SAN JOAQUIN VALLEY

Charles P. McConnell W6DPD

In response to an ARRL request, on January 11, 1988, FCC Private Radio Bureau Chief Ralph Haller approved an extension until January 4, 1989, of the Special Temporary Authority (STA) permitting automatic control of designated high frequency packet stations. Authorized stations are being notified by letter.

A robot 6 meter packet radio metscat station will be on the air in central Iowa during several VHF operating events in 1988. Stations within 2000 km will be able to test the feasibility of automatic contest operation by attempting a QSO. The system operated during the ARRL VHF Sweepstakes in January and will be operated during the June and September ARRL VHF QSO Parties from different grid squares. For more information contact W0RPK at the Callbook address. Check the W1AW bulletins for information as the event approaches.

WA4NJP and K6MYC/KH6 accomplished a new 6 meter EME distance record at 0940 UTC on January 5. This was the first transoceanic EME contact on 6 meters.

The FCC had *denied* a petition, RM 5924, filed by KJ4JE which requested that a successful Novice examinee begin operating immediately by using a temporary callsign consisting of the callsign of one of the volunteer examiners plus a unique numeral. The FCC said that the application processing period is not unreasonable, and that the instant licensing proposal appears to be contrary to International Radio Law.

The Golden Jubilee DXCC award period ended December 31, 1987, but applications will be accepted until December 31, 1988. Send completed forms to: Golden Jubilee of DXCC; ARRL HQ; 225 Main Street; Newington, CT 06111. Please send \$5 to cover the cost of printing, postage, and handling. Headquarters reports that over 4100 certificates were issued in 1987. ARRL LETTER V6 N26.

The Fresno Hamfest is May 6-8, 1988, at the Airport Holiday Inn, Fresno. There was an announcement of a resumption of the Sierra Hamfest in Reno to be held on August 20, 1988. Look for more information on this in the future.

NEW 2 METER AND 440 MHZ HEATHKIT TALKIES

The latest issue of the Heathkit Catalog offers two new handie talkies for 2 meters and 440 MHz. Unlike their name and reputation implies, these new offerings are NOT KITS. They're offered only as assembled units, including all of the accessories. A basic (no frills) and a deluxe model of each is available. The HW-2-M and HW-470CM are the basic models offering thumbwheel tuning, hi/low power operation with 400 mw low and 3 watts high power settings. CTCSS or DTMF are optional capabilities. The deluxe models feature 20 channel scanning, DTMF, CTCSS encode and decode, auto power off, LCD display, 100 kHz channel stepping, signal meter, RF attenuator and programmable offsets. All models are powered by six "AA" size bat-

teries. Prices are steep by the time you add all the desirable accessories. The basic two meter talkie is \$179.95. The deluxe, \$299.95. The basic 440 talkie is \$219.95 and the deluxe is \$319.95. The accessories include a \$39.95 small rechargeable NiCad battery pack. The large pack is \$59.95. The wall charger is \$13.95 while the quick-charge charger is \$39.95. The carrying case for the basic models is \$7.95 and \$11.95 for the deluxe models. There are other optional accessories ranging from mobile battery charger for non battery recharging to a headphone set for hands free operations. Accessories prices run from \$65.95 to \$7.95 for 15 different items.

Stanislaus Amateur Radio
Association, Inc.
P.O. Box 4601 Modesto, Ca 95352

MAIL TO:

NEW	NAME _____		
	ADDRESS _____		
	CITY _____	ST. _____	ZIP _____
OLD	ADDRESS _____		
	CITY _____	ST. _____	ZIP _____

Let us know your
new address

MOVING?

APPLYING TO D.M.V. FOR YOUR AMATEUR CALL PLATES

If you haven't done it already, here's the information you will need to know in order to apply for and receive California license plates with your Amateur call on them. Section 5005 of the California Vehicle Code (CVC) says..." (a) Any person holding an unexpired Amateur radio station license issued by the FCC, may, after the requirements for the registration of the motor vehicle have been complied with, also apply directly to the department for special license plates in lieu of the regular license plates. The special plates shall be affixed to the motor vehicle for which registration is sought and, in lieu of the numbers otherwise prescribed by law, shall display the official Amateur radio station call letters of the applicant as assigned by the FCC. The applicant shall, by satisfactory proof, show that he or she is the holder of an unexpired license. (b) The department shall not issue more than one set of special plates for any licensed Amateur radio station. (c) In addition to the regular fees for an original registration or renewal of

registration, the following special fees shall be paid: (1) Twenty dollars for the initial issuance of the special plate. (2) Twelve dollars for transfer of the special plate to another vehicle. (Effective January 1, 1983)." A note of caution, if you are applying for the first time, be prepared to refer the people at DMV to this section, 5005 CVC. Otherwise, they may (and often do) make the mistake that you are applying for a so-called environmental or personalized plate which are \$25.00. So, remember, \$20.00 when you apply for the first time and get new plates, and \$12.00 to transfer the plates from the old car to the new car if you are changing vehicles. If you are applying for the first time, be sure to take your Amateur license with you to prove you hold a valid license. It takes from 45 to 60 days to get the new plates if all goes well. It doesn't make any difference what class of license you hold, the only consideration is whether you are planning to upgrade and/or change calls. (WA6ZLO)

ORIGIN OF THE WORD "HAM"

The word "Ham" as applied to Amateur Radio, dates back to 1908 and was the call letters of the first Amateur wireless station operated by three members of the Harvard Wireless Club. They were Albert S. Hyman, Bob Almy and Reggy Murray. At first they called their station Hyman-Almy-Murray, but tapping out such a long name in code soon called for a revision. They changed their call sign to Hy-Al-Mu, using the first two letters of each name. Early in 1909, some confusion resulted between signals from HyAlMu and the Mexican ship named the Hyalmo. It was then they decided to use only the first letter of each name and the call became HAM. In the early days of radio, Amateur operators picked their own frequency and their own call letters. Then as now, some Amateurs had better signals than some commercial stations. The resulting confusion and interference finally came to the attention of Congressional committees, and they in turn gave much attention to proposed legislation designed to critically limit Amateur activities.

In 1911 Albert Hyman chose the controversial wireless legislation bill as his thesis topic at Harvard. His instructor insisted that a copy be sent to Senator Davis A. Walsh, a member of one of the committees hearing the bill. The Senator was so impressed he sent for Hyman to appear before the committee. He took the stand and described how their little Amateur station was built. He almost cried when he told the crowded committee room that if the bill went through they would have to close the station. They could not afford the license fees and all other requirements that were called for in the bill. The debate started and the little ham became the symbol of all the little Amateur stations in the country crying out to be saved from the menace and greed of the big commercial stations that didn't want them around. Finally, the bill got to the floor of Congress and every member talked about the poor little station HAM. This is

....See Next Page....

ORIGIN OF THE TERM "HAM"

From Previous Page

how it all started. You will find the story in the Congressional Record. Nationwide publicity associated radio station HAM with Amateurs. From that day to this, and probably to the end of time, in radio language, an Amateur is a HAM.

...de Sine of the Times
Indiana Co. Amateur RC.

MUSIC COPY-CODE PROTECTION

Recording artists are not convinced that the proposed Recording Industry Association of America (RIAA) plan to protect their copyrighted music is the answer to protecting their music. The RIAA is attempting to get a law passed that audibly damages the music itself if an attempt to copy it is made. The Copy-coded digital audio tape recordings will contain a "notch" of missing audio frequencies centered around 3,840 Hz. A DAT recorder will listen for 3,840 HZ and if it's there, the recorder shuts down a recording in progress for 25 seconds ruining the copy being made.

LAST CHANCE

This is your
LAST CHANCE!
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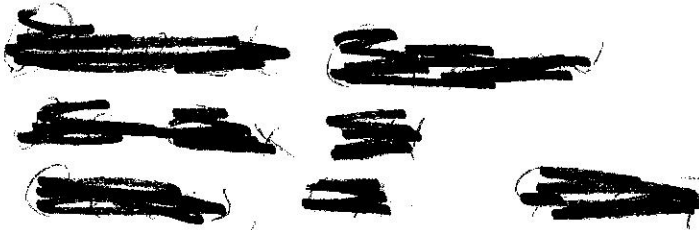
CALENDAR

Feb.	16,	1988.....	SARA Monthly Meeting.....	730 pm
Feb.	25,	1988.....	Thursday Night VE Test in Modesto at Co. Ctr. # 3.....	630 pm
Feb.	27,	1988.....	VE Test Saturday morning at County Center #3.....	900 am
Mar.	15,	1988.....	SARA Monthly Meeting.....	730 pm
Apr.	19,	1988.....	SARA Monthly Meeting.....	730 pm
May	5,	1988.....	Thursday Night VE Test in Modesto at County Ctr. #3.....	630 pm
May	6-7,	1988.....	Fresno Hamfest Airport Holiday Inn.	
May	7,	1988.....	VE Test Saturday Morning in Modesto at County Ctr #3.....	900 am
May	17,	1988.....	SARA Monthly Meeting.....	730 pm
June	21,	1988.....	SARA Monthly Meeting.....	730 pm
Jun	25-26,	1988.....	Field Day.....	24 hrs

SARA meets the third Tuesday of each month (except holidays) at the Stanislaus County Administration Building at 12th and H streets in Modesto. The meetings are held in the lower-level conference room starting at 730 pm. Visitors are welcome.

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