



# **— The — READOUT**

**Vol. 9 No.10**

**Oct 1986**

## **CHOOSE AND PAY FOR YOUR OWN SECONDARY CALL??**

It could happen, in fact it is likely! The concept, which has preliminary FCC approval, calls for the ARRL to issue SECONDARY call signs for use by Amateur radio operators who already hold FCC assigned calls. The League made the request to the Secretary, FCC, in a letter dated June 17, 1986. ARRL asked for the exclusive role of issuing special Amateur radio call signs. The FCC believes that it can legally be done under the existing rules. According to Johnny Johnston, W3BE, Chief of the Personal Radio Branch of the FCC, he does not believe there is any legal

impediment as long as the FCC assigns the primary Amateur radio station call sign. The League will have certain guidelines for issuing supplemental call signs. The major stumbling block is a needed provision for "cost recovery." In other words, it won't be free. You'll have to buy the call sign. A translation list made available to the FCC will let them know an Amateur's FCC issued call sign. It appears probable that SECONDARY, MEMORIAL and SPECIAL EVENT call signs are on their way back! It could happen this year. (W5YI Report)

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

# R

EADOUT is the official publication of the STANISLAUS AMATEUR RADIO ASSOCIATION INC. "SARA" P. O. Box 4601 Modesto, CA. 95352. Entered as bulk mail at the post office Modesto, CA. Contributions

may be submitted to the editor, Bob Pinheiro, WA6ZLD at 1221 Mist Flower Ct. Modesto, CA. 95355. SARA owns and operates two F.M. repeaters. 145.39 MHz (-) located on Mt. Oso 18 miles SW of Modesto at an elevation of 3,370 feet. Our 220 MHz repeater operates of 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 also located on Mt. Oso at 3500 feet. The frequency is 145.01 MHz. SARA conducts an informational net on both repeaters each Thursday evening at 730 pm with the exception of holidays. SARA meets the third Tuesday of each month at the Stanislaus County Administration building at the 12th and H streets in downtown Modesto. Meetings begin at 730 pm. SARA is incorporated with the State of California and is an affiliated club of the American Radio Relay League (ARRL) and Stanislaus County RACES. Dues are \$15.00 per annum, \$7.50 for students up to sophomore in college and \$7.50 per year for Associate membership. Dues are pro-rated for newly joining members from the date they join. ARRL membership and QST renewals may be made through SARA with a 2.00 commission retained by SARA.

#### PRESIDENT

Gene Rong.....KI6DC.....239-9236

#### VICE PRESIDENT

John Cowman.....KB6DU.....527-7258

#### SECRETARY

Laverne Landeros.....KB6ECF.....578-5554

#### TREASURER

Lynn Windus.....KB6DXX.....523-0141

## ■ ■ ■ SARA MEETING ■ ■ ■

Regular meeting

730 pm Oct. 21, 1986

Program- Open

Raffle Prize- MONEY!!

## ■ PROGRAM THIS MONTH ■

### DIRECTOR TO SPEAK

ARRL Pacific Division Director Rod Stafford, KB6ZV, will be the guest speaker for the November 18th, 1986 meeting of SARA. Those that have had the opportunity to hear Rod speak have enjoyed his presentation. Plan to be there in November.



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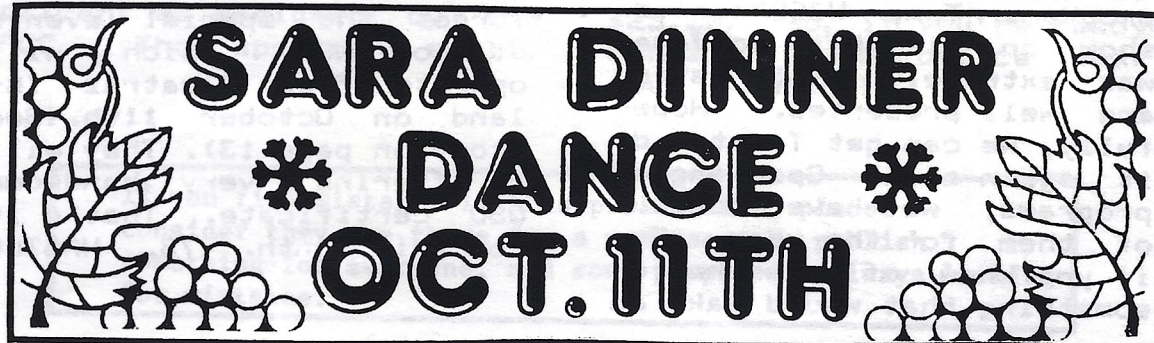
1325 J. Street  
Modesto, CA 95354  
(209) 529-5395

## **SARA VE EXAM NOV. 1 ST**

The next SARA sponsored VE Exam will be held in Modesto on Saturday November 1, 1986 starting at 830 a.m. The location will be the Sierra Room at County Center 3 at the Corner of Oakdale Rd and Scenic Drive. The test contact person is Gene Rong, KI6DC, 326 Dana Ct. Manteca, CA. 95336. Walk-in's will be taken to the limit of test material on hand. A completed 610 form, a copy of your license (if any) and a check for \$4.25 mailed to Gene will pre-register you for the session. Make your check payable to ARRL/VEC. Questions? Call Gene at 239-9236.

## **Mt. Oso Statistics**

- Overall height 3500 feet  
Highest transmitting site in Stanislaus County. 22 miles SW of Modesto.
- SARA 2 meter repeater:  
Input 144.79 MHz. Output 145.39 MHz. Call, WD6EJF/Rpt. ERP 100 watts. Antenna Phelps Dodge Station Master. Elevation 3,370 feet.
- SARA 220 repeater: Input 222.080 MHz. Output 223.680. ERP 100 watts. Antenna Isopole. Call, WD6EJF/R. Elevation 3,500 feet.
- SARA Digipeater: 145.01 MHz. ERP 25 watts. Antenna Ringo Ranger. Call, WD6EJF-1. Elevation, 3,500 feet.
- Coverage Sacramento to Fresno & Central Sierra.





## **Editor's WA6ZLO Notes**

This edition of READOUT will reach you earlier than usual because I'm going to be away at school the first two weeks in October. This gives me the opportunity to encourage you to make your plans to attend the 9th annual SARA dinner-dance on October 11th. Contact Lynn, KB6DXX, for tickets. Tickets are \$15.00 per person. The event is the club's social event of the year. Members and their guests are welcome. +++ For those of you that missed the last meeting, you missed a good program. Tom, WJ6D's slide show on his trip to Japan was extremely interesting and well presented. Hopefully, we can get Tom to do it again soon. Speaking of programs, we have run out of them for the year. So, if you know of someone or something that would make an

interesting program contact Gene, KI6DC and let him know. The subject matter doesn't necessarily have to be on Amateur Radio. +++The club is looking for a club photographer. Nothing fancy, just someone who can take pictures for the newsletter. If you can help, either full time or part time, please contact me at 523-5880. +++Congratulations to Kevin, KB6MYB, who upgraded to a Technician in Merced recently. +++ N3ELB, Dan Von Jeneff, has moved to Lutherville, Maryland where his business is located. Good Luck Dan and keep in touch. +++ On the centerfold of this edition is the very latest Packet Radio digipeater map for 145.01 MHz. I have the latest maps for all packet frequencies. They will be appearing in subsequent editions of READOUT, however, if you would like any or all of them now, send me an SASE with at least 36 cents postage and I will mail them to you. Don't forget the special events station W6AK which will operate from Alcatraz Island on October 11th. (See story on page 13). They will be offering a very handsome QSO certificate. That's it for this month. 73. WA6ZLO

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## HOW TO APPLY FOR CALIFORNIA AMATEUR CALL PLATES

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If you haven't done it already, here's the information you 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, and the department may issue special 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 (\$20) for the initial issuance of the special plate. (2) Twelve dollars (\$12) for the transfer of the special plate to another motor vehicle. (Effective January 1, 1983) ...A note of caution, if you are applying for the first time, be prepared to refer the people at the 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 is \$25.00. So, if you're ready contact the DMV office near you. (WA6ZLD)

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.

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# W5YI REPORT....

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The cat-and-mouse game between the satellite programmers, satellite equipment makers/dealers and the backyard dish owners continues with each trying to outsmart the other. Each are looking out for their own interest. Referees in the form of Congress and the FCC are trying to enforce the rules, or write new ones as the game wears on. In the mean time, the whole industry is in a state of turmoil! In a recent development, the FCC unanimously voted to study the scrambling of satellite-delivered programming and access to those signals by the nation's nearly 1.5 million home satellite owners. According to FCC Chairman Mark Fowler, the public inquiry into signal scrambling will be completed by the end of the year. It is anticipated that the study will recommend much needed reforms. The Senate has been holding hearings on the backyard dish controversy. Congress has asked that satellite, cable and broadcasting firms be fair to home dish owners. Programmers, on the other

hand, defend their right to do what they wish to with the signals they own and transmit. Senator Albert Gore introduced new legislation that will allow citizens to file suit against networks that refuse to make programming available under equitable terms. His bill joins a stack of scrambling moratorium proposals, none of which will probably ever be acted on. The reason that most people resent the scrambling is not that the satellite programmers are not entitled to charge for their services, but simply that they are all trying to get rich quick on it by charging \$15 to \$20 per scrambled service. If you were to pay to descramble the same programming you get on cable it would cost you \$200 to \$300 a month! 1986 was an incredibly poor year for the home satellite industry. Satellite scrambling caused a boom-to-bust situation almost overnight. Sales are down drastically! 1985 saw some 600,000 home back yard dishes sold. The number of installed home dishes now is more than 1.4

million. A research firm in New York has put together a report that says by 1988, sales will once again reach or surpass 1985's "high water mark". The research feels that 290,000 dishes will be sold this year and between 350,000 and 500,000 in 1987. The industry will hit "full stride" in 1988 when the number will be between 500,000 and 700,000 according to the report. Their forecast is based on their belief that hardware costs will have fallen to the point where consumers will be able to buy a dish and subscribe to a package of scrambled pay programming for three years for the same amount the consumer in 1985 paid for the hardware alone--\$2,500. The market will also reap the benefits of the availability of cable programming on Ku-band satellites permitting the use of smaller and less expensive earth stations and the development of phased array antennas which are aesthetically more pleasing and easier to install. If you believe the report, ultimately 15 or 16 million homes will have a satellite antenna that can receive direct-to-the-home satellite signals.

))) The in-fighting between the cellular telephone industry and those that oppose the Electronic Communications Privacy Act on the basis that it provides mobile phone users with a false illusion of confidentiality is heating up. The new draft approved a couple of weeks ago has two changes concerning radio. Reduced are the criminal sanctions for Public Land Mobile Common Carriers (i.e. old car phone technology) and paging services from 1 year/ \$100,000 to a 6 mo's/\$500 fine. This brings it in line with the penalties for cellular infractions. Backyard dish owners also will be able to receive unscrambled satellite programming unless the video programmer obtains a court injunction to stop the interception. Continued unauthorized satellite signal acquisition can incur a fine of up to \$500. Efforts are underway to add FM sub-carriers and remote broadcast pickup stations to this. They are now fully protected. That is, you can't monitor them. The bill if signed into law will limit the capabilities of radios. They will be brought under the same legal category that covers "bugs" and wiretap devices.

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# PACKET RADIO MAILBOX NEWS

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Packet Radio Mailbox News is a new feature in READOUT. The news you will read in this column has come exclusively from various packet radio mailboxes throughout the state. The content of the stories will appear exactly as received by error-free packet. Some layout changes were made by the word processor in order to fit the stories on to the page. Otherwise, there exactly the way you would see them if you were receiving them yourself on packet. Packet mailboxes, officially known as PPBS, (packet bulletin board systems) are designed to originate, receive and automatically forward messages. The various mailboxes are owned and operated by Amateur radio operators out of their homes using their own equipment. Information in the boxes are from various sources on a variety of subjects. This month we have selected the EXAMSKED which is a list of VE examinations being conducted in Northern California through the remainder of the year.

The information was compiled by KK1A and listed with the various mailboxes. We got the list via the WB6AIE mailbox in Fresno. Additionally, on page 14 of this issue you will find a story on Repeater & Phone-patch Usage which was written by KB6DXX and was also received by packet radio and a mailbox. It was transmitted to the W6FGC-2 mailbox at Twain Harte where it was put in my mailbox (in memory on disc) from where I retrieved it a day or so later. In addition to this column bringing you additional news, it will also give you an idea of one of the many facets of Packet Radio, the digital marvel of the century. We hope you find this column interesting and informative. From this point on, it's all from packet.

\*\* Message from KK1A to EXAMSKED entered Friday 29 -Aug -86 at 1:40 AM. Subject: Ham License tests in Northern CA. Here is a short list of MANY exams being given in Northern California, under many different VECs. Fees are \$4.25 unless noted. Updated 23 August 86.

Date:	City of test	Call-sign:	Phone of Contact Person:
Sep 6	Visalia	WA6OGB	(209) 733-3109
	Sacramento	WA6RPE	(916) 483-3293
	Berkeley	WA2UNP	(415) 540-8916
Sep 7	Chico	KE6EP	(916) 893-5208
Sep 13	Los Altos Hills	W6NLG	(408) 255-9000
Sep 14	Pleasant Hill	W6NLG	(408) 255-9000
Sep 16	Eureka	KB6FIW	(707) 442-9245
Sep 20	Novato	N6AQY	(415) 897-8950
	Sebastopol	W6DTV	(707) 823-7885
Sep 28	Santa Cruz	W6NLG	(408) 255-9000
Oct 3	San Jose	AE6Z	(408) 243-8349
Oct 4	San Jose	AE6Z	(408) 243-8349
Oct 5	San Jose	AE6Z	(408) 243-8349
Oct 11	Los Altos Hills	W6NLG	(408) 255-9000
Oct 18	Monterey	WE6R	(408) 649-8766
Oct 21	Eureka	KB6FIW	(707) 442-9245
Oct 26	Napa	W6DNY	(707) 224-1530
Nov 1	Modesto	KI6DC	(209) 239-9236
Nov 2	Chico	KE6EP	(916) 893-5208
Nov 8	Jackson	KE6NS	(209) 296-4771
	Los Altos Hills	W6NLG	(408) 255-9000
Nov 9	Pleasant Hill	W6NLG	(408) 255-9000
Nov 15	S. San Francisco	K6GBH	(415) 589-0236
	Lake Tahoe NV	W6NLG	(408) 255-9000
Nov 18	Eureka	KB6FIW	(707) 442-9245
Dec 6	Visalia	WA6OFB	(209) 733-3109
Dec 13	Novato	N6AQY	(415) 897-8950
	Los Altos Hills	W6NLG	(408) 255-9000
Dec 16	Eureka	KB6FIW	(707) 442-9245

PRE-REGISTRATION DEADLINE: All Chico Exams, 7 days before the test. No test fee in Visalia. If VEC is W6NLG, test fee \$4.00; Good luck. If you know of tests not on this list, please leave me a message in the W6CUS-1 PBBS, and I will add that information to the list. DE KK1A

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NEXT SARA MEETING OCT. 21 ST

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# 145.01 DIGIPEATERS AND MAILBOXES

To WB7SZM-1 To KV7N  
Ashland OR  
@ OR

KA6NEO-1 WB7AWO-1  
Eureka Hornbrook  
(2500') (3800')  
W6SDP  
N7EVB-1 Mt. Shasta  
Mt. Shasta (3600')  
(6700')  
WD6BFC #  
Redding

W6AMT-7  
20 miles west of  
Willows (8000')

N6IJB-1  
Elk Ridge  
w. of  
Miranda  
(2300')

N6IJP-1\*  
Angwin  
(2000')

WB6PER-2  
Sonoma Mt.  
KA6IDT-1\*  
Yountville  
(1000')

KE6BX #

W6AMT

WA7DIA-1  
Reno  
WA6TLW-1  
Slide Mt.

KD6GF-1  
Mt. Vaca  
(2800')

WD6EJF-1  
Mt. Oso  
(3500')

WA6OSA-1  
Shaver Lake

Intermittent  
K7WS-3  
Goldfield, NV  
(7000')

VE7BEU-1  
Victoria, BC  
WA7HDI  
Oak Harbor, WA  
N7GRN  
Seattle  
WN7ANK-5  
Seattle  
K7ZVV-1  
Longview, WA  
W7XI-1  
Vancouver, WA  
KS7Y-1  
Eugene, OR  
WB6NWP-2  
Grants Pass, OR  
WB7SZM-1  
@ Ashland

## PACKET RADIO

DIGIPEATER AND  
BBS/MAILBOX  
MAP

145.01 MHZ

\*=scans 145.01 - .09  
#=BBS/Mailbox

K7EA-1  
SLC  
WA7YAZ  
SLC  
KD7YK-1  
Orem  
KD7YK-2  
Snowbird  
WA7GTU-2  
west of  
Milford  
WA6GTU  
Cedar  
City  
To WA7GTU-1  
Cedar City  
UT



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## BANNING EXTERNALLY PROGRAMMABLE RADIOS

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The FCC's proposed ban on externally programmable land mobile radio operating above 25 MHz is being viewed by the industry as laudable for its intent, but perhaps shortsighted for its content. The issue, is indicative of the rapidly growing land mobile industry and the advancements in RF technology which could easily impact Amateur radio frequencies with illegal transmissions. PR Docket No. 86-37 is a welcomed ounce of prevention for a potential large-scale disaster of interference chaos over the airwaves. The development of frequency synthesized radios in the land mobile service has revolutionized the industry not only in technological aspects, but also in the areas of manufacturing, sales, marketing and distribution. Deregulation, specifically the elimination of FCC-certified technicians in favor of industry certification combined with this technological advancement, has created a brave new world of inexpensive, mass produced, user friendly programmable two-way radios subject to

self enforcement. The concern is that radios, which are programmable by either knowing or unknowing persons, could ultimately open the floodgates to harmful interference. Out of caution for the potential problems that these new radios could cause in the deregulated environment and the consequences of introducing undetectable unauthorized transmissions into the spectrum environment caused the FCC to act decisively. In one case earlier this year, the St. Petersburg, Fla. police arrested a 25 year old radio hacker who intentionally broke into law enforcement mobile communications using a personal programmable transceiver and a book listing the department's radio frequencies. He carried out the interference for several days before he was caught. Other cases identified included taxi and vehicle towing employees attempting to gain an edge on competition by illegally tuning into outside frequencies on programmable radios. Regency Land Mobile Inc. is the largest maker of programmable radios presently.

# STATION LOG

ARRL  
affiliated club

MINUTES OF AUGUST 19, 1986 SARA MEETING

Meeting called to order at 731 pm by President Gene, KI6DC. Introductions of 20 members and guests followed. Treasurers report given by Lynn, KB6DXX. As of 7/31/86 bank balance was \$1,483.24. SARA balance same. Books balanced! August expenses to 8-19-86 included overpayment refund \$3.75. Phone bill \$19.80. July READOUT \$42.30. Total \$65.85. August income to date \$38.87. SARA balance as of 8-19-86 \$1,456.26. Lynn also reported on projected budget for next year. Moved, seconded and approved his report. KG6OU reminded everyone about the dinner-ance. Tickets are available at \$15.00 per person. The annual event will be held on October 11th.

Social hour from 6 pm to 7 pm. Leroy, NV6S, made motion we buy a new battery for the two meter repeater. Seconded by KB6CCL, Lille, and carried. Thank you letter was read from the Tenaya Boy Scouts regarding our participation in the Scout Fair at Beyer High School. The program for the evening was a color video tape on the trip to the Voice of America in April. The program host was Jim, W6DYF who donated the tape to the club following the showing. The raffle of \$10.00 was won by Wes Cooper, N6NUO. Meeting adjourned at 845 pm. Respectfully submitted by Laverne, KB6ECF, SARA Secretary.

## SPECIAL EVENTS STATION ON ALCATRAZ ISLAND OCT. 11TH

The Sacramento Amateur Radio Club will operate club station W6AK from 1730Z to 2300Z on Saturday, October 11th, from Alcatraz Island in San Francisco Bay. Freq-

uencies: Phone- 3.950, 7.270, 14.300, 21.400, 146.52; CW- 3.725, 7.125, 14.050, 21.085 and Packet

(Continued on Page 17)

We enjoy, and I do mean enjoy, having a repeater at our disposal 24 hrs. a day. What a blessing it is to have our 2mtr HT range extended to unbelievable distances and be able to get help whenever the "need" arises! Let us define two words which exactly apply to how we are supposed to use the Phone-Patch according to FCC regulations. If we happen to run out of gas on the highway, or where ever and our vehicle is not a hazard to traffic, that constitutes a "Need". By strict definition, this does not warrant use of the Phone-Patch. Most certainly we should get on the air and request help from another Ham and ask for a phone call to be made to get help. If, however, your vehicle is a hazard to traffic, this constitutes an "Emergency" and the Phone-Patch then is definitely legal. Some of you are going to say, "Boy, there is a nitpickin' jerk!". Maybe you are right, I will not argue the matter except to say, if you haven't read the regula-

tions, why not do a little reading about the subject? Let us explore a little bit further. If I had car trouble on Corral Hollow Road at midnight, believe me I would consider that an "emergency" if I couldn't raise another Ham, so would most certainly use the Phone-Patch! Conversely, I would not call home using the patch, to ask the XYL if she needed anything from the store. Nor would I use the patch to advise her that I would be late for dinner. 'Lest you think me stupid, I would stop, use a pay phone because not to advise her might constitute an "emergency" indeed "hazardous to MY health!!" Let us now talk about courtesy. Whenever possible, we should switch to a simplex frequency in order to keep the repeater open to those who "need" it to communicate. I am equally guilty of gabbing, which is ok, but take a deep breath between transmissions in case some one else needs to make a call. I think we all get a little careless about this! Kind of hard to

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**"DON'T QUOTE PRICES"**

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The FCC is reluctant to draw the line at mentioning price as a deciding factor as to whether Amateurs are, or are not, in violation of Section 97.112 when talking about selling equipment on the air. The Commission interprets this Section as meaning that 'Amateurs may use their stations from time to time to discuss the availability of a piece of Amateur radio equipment, but such activity would be limited to that of an occasional nature. The best advice that can be offered is not to discuss price on the air, based on recent FCC citations of Amateurs in a swap and shop net case.

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**"SMART" CREDIT CARDS**

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Business Communications Co., a market research company says that 127 million "smart" credit cards will be issued by such firms as VISA, MasterCard and Sear's new Discovery card as early as next year. The micro-processor chip imbedded card will be used for electronic banking, identification, personal data bases and encrypting devices. VISA already has a contract with Toshiba to produce their smart card and MasterCard projects nationwide use of their version in 1987. Smart cards allow immediate and inexpensive credit verification and are tamper proof!

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**REPEATER AND PHONE-PATCH TIPS (from page 14)**

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hear a "break" if you do not leave a little pause in there! Finally, to answer a question, yes we do monitor the repeater in accordance with FCC regulations and do have remote control so that we can shut it down if a violation occurs. We like the privilege of having a repeater but must protect that privilege. As an end to this great discourse

(HI), SARA members are darn good operators on the 2 meter repeater and do adhere to the rules in good fashion. Your language usage is excellent and some of you have developed synonyms for "cuss words" that boggle my mind and leave me rolling in the aisles!

--KB6DXX, Lynn Windus

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# FCC Newswire

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Some questions and answers from the FCC Forum conducted at the ARRL National Convention in San Diego last month.

Q: Why can't the FCC provide more help with jammers on repeaters? A: Staff reductions, etc. limit ability to help.

Q: Why aren't the amateur volunteer monitors called on for more help by the FCC? A: Need to get back thru the ARRL and the local FCC in charge. Requires an agreement between the Section Mgr and the local Engineer in charge. Only section on the west coast with such an agreement is the LA section.

Q: What about new club licenses? A: Would come under the special callsign program.

Q: What if another organization besides the ARRL wanted to handle special calls? A: I don't know. Haven't ruled out having more than one organization. Hope to have something out for comment by Christmas.

Q: Who decides who is responsible for freq coordination in an area? A: This was covered in the FCC's recent repeater ruling. The hams decide the community of users, not the repeater owners (he defined the group as all persons eligible to establish a repeater).

Q: Are there upcoming threats to amateur spectrum? A: Yes. More frequent targeting of 'lightly used' spectrum.

Q: What is position regarding sale of equipment on the air? A: FCC policy is that you stop before you discuss price.

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## ULTRA SMALL TALKIES

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The talk of this year's ARRL National Convention were the new, ultra-small two meter and 440 MHz Handie-Talkies being introduced by Yaesu and Alinco. These are single banders - with the Alinco unit being a basic thumb-wheel programmable model and the Yaesu's being keyboard

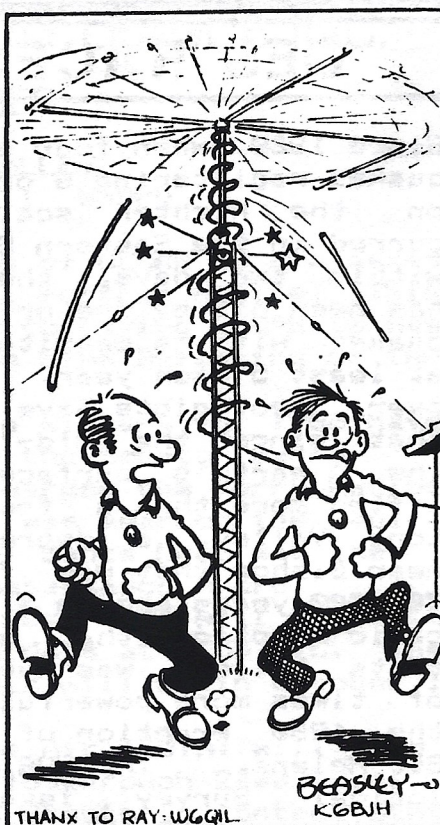
programmable with memories. However, the Alinco does include a priority channel capability in addition to the thumbwheel set frequency. The only problem with both of these units is that they are NOT available yet. The Alinco unit is expected to be on the market in the next couple of months with a price in the \$275 range (the units include a DTMF pad). Specifics on the Yaesu availability and price were not available. The new ICOM micro-2AT is another tiny one! These new HT's are truly shirt pocket size - and once you see one you've just GOT to have one! Of course, ICOM maintained compatibility with their existing battery packs - a wise move for the manufacturer of the most popular line of HT's in history. Owners with significant investments in battery packs will appreciate being able to use the new unit with their existing hardware.

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#### ALCATRAZ ISLAND STATION (From page 13)

Radio, W6AK-5 145.01. The packet station can be reached through the SARA digipeater, WD6EJF-1 by routing through W6AMT (San Jose) and if needed, WB6PER-2 (Sonoma Mtn). Alternate route through WD6EJF-1 to KD6GF-1 Mt. Vaca to WB6PER-2.

17



THANK TO RAY: W6QIL

I TOLD YOU NOT TO ASSEMBLE  
THOSE GEARS IN THERE IN  
REVERSE ORDER!



"I see it's almost time for you and your ham  
set to renew your marriage license."

(Thanks WORLD RADIO & COMMUNICATOR)

# OES RACES BULLETIN de KH6GBX

Since 1980, when four earthquakes registering 6 or more on the Richter scale occurred in the Eastern Sierra within two days, the area has been hit by one or more earthquakes with a magnitude of at least 5 each year. Moreover, geologists have noted that since the mid-1970's the earth's surface has lifted more than a foot in Long Valley, a depression near Bishop that was formed 700,000 years ago in a volcanic eruption that scientists believe was hundreds of times more powerful than the 1980 eruption of Mount St. Helens. The US Geological Survey issued a warning in 1982 that a major volcanic eruption would be possible. They say that the most recent earthquakes may not be directly related to the previous volcanic activity because they were centered about 20 miles from the Long Valley caldera. But he warned that intensified earthquake activity would probably continue and predicted that earthquakes with a magnitude of 6 or more could be expected. Amateur radio operators in public service everywhere should

self-analyze all of the "What if?" questions that come to mind.

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## ATV ANTENNA ON AIRCRAFT

The antenna should be mounted half-way between the tail and the rear window, on the bottom of the fuselage, to minimize "shadows" in banks and turns. Select a whip antenna similar to that used by transponders and DME except that the whip will have to resonate at 434 Megahertz. Use an aircraft-type antenna made for aluminum skinned aircraft. It must have a coaxial fitting at the feedthrough base of the antenna and not the type that has a lug mount. Cut the radiator (whip) to seven (7") inches. Run the coaxial transmission line to the back seat with a BNC male termination.

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OES Bulletin is produced by KH6GBX for the State of California Office of Emergency Services.  
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# THE AMERICAN RADIO RELAY LEAGUE, INC.

## SECTION MANAGER

SAN JOAQUIN VALLEY

Charles P. McConnell W6DPD

As of September 17, 1986, users of OSCAR 10 are asked to remain off the transponders until further notice. This is because a new and risky approach to saving OSCAR 10 was attempted on September 6. Listen to W1AW Bulletins or the AMSAT Nets for more information.

The ARRL Foundation Scholarship winners for 1986 have been announced. KA9AKI was awarded the Senator Barry Goldwater Scholarship. N1AMR was awarded the Perry Hadlock, K2IK, Memorial Scholarship. KA0EMS was awarded the Paul and Helen Grauer Scholarship. WA6KFA of Santa Cruz was the winner of the first Amateur Radio Ambassador Award.

As a result of membership desires, ARRL will transmit Keplerian Data on Tuesdays and Saturdays at 2230 UTC. These additional transmissions of this data will begin October 14, 1986.

The 29th annual Jamboree on the Air (JOTA) will take place from 0001 local time October 18 through 2400 local time October 19. This event allows Scouts to contact other Scouts on Amateur Radio. This activity may whet an interest in Amateur Radio in these boys and stimulate them to get an Amateur license. They might also become interested in earning the Radio Merit Badge. See the Contest Corral in the October QST for more information and suggested frequencies.

Amateur Radio licenses have a habit of expiring every so often. Be sure to check your license occasionally for the expiration date so you can make a timely renewal. If you send in for your renewal before the expiration date of your license, you may continue to operate until your renewed license arrives, even if your license has expired. If you wait until your license has actually expired before renewing, you must remain off the air until you receive your renewed license. If you wait for more than one year after your license has expired you can renew without a retest, but you will get a new callsign.

# ■ ■ CALENDAR ■ ■

- October 11, 1986...9th annual SARA dinner-dance.  
Sylvan Club house. 6pm on.
- October 21, 1986...SARA Monthly meeting 730 p.m.
- Nov. 1, 1986...SARA VE Exam, County Ctr. 3  
Scenic & Oakdale Rds. 830 am
- Nov. 7-8-9, 1986...Ham West Convention in Las  
Vegas.
- Nov. 18, 1986...SARA Monthly meeting 730 p.m.  
Program: Rod Stafford, KB6ZV  
Pacific Division ARRL  
Director.
- Dec. 16, 1986...SARA Monthly meeting 730 p.m.  
Election of 1987 club  
officers.
- Jan. 20, 1987...SARA Monthly Meeting 730 p.m.
- Feb. 17, 1987...SARA Monthly Meeting 730 p.m.
- Mar. 17, 1987...SARA Monthly Meeting 730 p.m.
- April 21, 1987...SARA Monthly Meeting 730 p.m.
- May 19, 1987...SARA Monthly Meeting 730 p.m.

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 p.m. Visitors are welcome.



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