

### SARA DIGIPEATER ON THE AIR

SARA has moved into the world of digital communications with the installation of the club's own digipeater on Mt. Oso. The machine came on the air on February 25, 1986 operating on 145.01 mHz. club approved The the digipeater at the February 18th meeting 25 proposed by SARA member Mike, W6VY. Following the approval, the equipment was gathered quickly for the operation. Tim, loaned the club WB6UJD, his Yaesu 227R two meter rig. Denny, WG6P, picked up a new Kantronics KPC-1 terminal node controller (TNC) for the club in Oakland and transported it back to Modesto. Mike, donated a 5/8 wave WGVY,

antenna, mounting hardware and coax. Mike also mounted the antenna On the pole outside the 220 mHz vault on the highest point on Mt. Osc. VY hooked it all together and programmed the TNC and within minutes the unit Was buzzing with activity. The club owns an ICOM 230 two meter rig which will be put in service in place of the 227R as soon as a crystal for 145.01 mHz is received in about three The digipeater weeks. will provide a link to the north and south as well as to bay area digipeaters and is expected to carry a large amount

(Continued on p-14)

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

EADOUT is the official publication of the STANISLAUS AMATEUR RADIO ASSOICATION INC. "SARA" P. D. Box 4601 Modesto, CA. 95352. Entered as third class mail at the U.S. Post Office Modesto CA, 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 228 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 conducts in 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 a the 12th and H streets in downtown Modesto. Meetings begin at 730 pm. SARA is incorporated with the State of California and carries liability insurance covering all members. SARA 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. Dues are prorated 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 Ro	ng	239-9236
	VICE PRESIDENT	
John Co	waanK660U SECRETARY	527-7258
Laverne	LanderosKB6ECF TREASURER	578-5554
Lynn Wi	ndus	523-0141

funnies by KF6QA



NAW... HOPE YAGET DEATH ROW, THE FOOD'S BETTER, AND TEN ORTWENTY YEARS THERE WILL PUT SOME MEAT ON YA!



## "THUMP, THUMP, THUMP"

You may cuss them everytime you drive over them, but they have been proven to prevent accidents and save lives and keep mobiling ham's on their side of the road. What are they? "Botts Dots!" "What's that road. What you say?" Well, officially they are called "Raised Pavement Markers," and are those little round markers you see marking the streets and highways. They were invented by Dr. Elbert Botts in the 1950's when he was head of the Caltrans chemical laboratory in Sacramento. The "dots" started



appearing on California freeways in the late 1960's when their life saving value was realized. However, a major problem was how to fasten them to the pavement. Originally, spikes and nails were tried but soon gave way to epoxy glue which held the dots securely. The rumbling THUMP, THUMP, THUMP associated with

driving over the dots has awakened many a sleepy driver, helped keep cars in their lanes and warned drivers of impending intersection stops. The dots also make it easier to see lane markings at night. Two types of the dots are used, reflective and non-reflective. The non-reflective ones are 4 inches in diameter and made of ceramic material. The yellow dots are used to mark the center line while white ones mark bike lanes and miscellaneous markings on the pavement. Reflective dots come in blue and red with the blue ones used by many city fire departments to mark fire hydrant locations. The red ones are used to warn drivers they are going. the wrong way. Today over 20 Today over 20 million dots are in use on California highways. It costs Caltrans \$4 million a year to install new ones and replace old and damaged ones. The dots have a life expectancy of from one and half to ten years depending on the amount of traffic on the roadway and weather conditions. They cost \$3.50 each which includes the labor to install them, not to mention the savings on many gallons of paint that would otherwise be used.



THE "GRUNGE" LOCATED

Sources of radio interference can be as hard to find as the proverbial needle in the haystack. So, when strange noises, collective referred to as a "grunge" started interfering with the SARA two meter machine, we expected a tough time finding it. The noises sounded like a combination of telemetry, paging tones, raw a.c. hum and distorted. voices, all of which were strong enough to wipe out weak signals reaching our repeater on Mt. Osc. As a result of some good sleuthing, excellent cooperation and yes, some luck, we were able to find the source in two days.

The first solid lead came when Ray, WA60GF, picked up the offending signal coming from the south. Bob, WA6ZLO put in a call to Randy, KA6-FTA, in Merced 60 miles south of the repeater, who was asked to look at the input frequency (144.79 mHz) in his area. Two hours later Randy reported a strong S-9 signal moving back and forth across our input from 144.70 to 144.-82. His beam heading was due south from Merced. This placed the signal in the area of Coalinga. Hearing this, WA6ZLO speculated that the signal was coming from Joaquin Ridge at just under 4,000 feet ten miles NE of Coalinga. Joaquin Ridge. like Mt. Oso, is crawling with radio equipment, and looks easily at Mt. Oso and our repeater. It was also known that Don, K6VWF, who works for AT&T, maintains the AT&T microwave station on Joaquin Ridge and goes to the mountain daily. His counterpart for the micro-wave station on Mt. Oso is Mike, W6VY. VY was con-

tacted and given the information developed. VY then contacted VWF on February 5th and asked Don to check Joaquin Ridge. Don reported back the same day that the offending signal was definately coming from Joaquin Ridge. As luck would have it, Don had with him a service monitor that would tune the VHF band which enabled him to tune around until he located the source. Don pinpointed the culprit as a business band repeater operating on 152. -120 mHz and owned by Cook Communications in Fresno which just happened to be in the building next to the AT&T building. A call was placed to Cook who reponded on the February 6th and corrected the problem. The transmitter obiviously had developed a "spurious " signal that happen to fall near our input frequency. All in all, a nice piece of work by all concerned and particulary KA6FTA and K6VWF for helping us find it in short order, even though the source was over 100 miles away. We got lucky on this one! Thanks to all for a job well done!

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#### 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 ERP 25 watts. mHz. Antenna Ringo Ranger. Call, WD6EJF-1. Elevation, 3,500 feet. -Coverage Sacramento to Fresno & Central Sierra. CW check-in's on the SARA CH net Thursday's at 738 pm

before the regular net. Freq. 3739 (+/-) QRM.

### THE AMERICAN RADIO RELAY LEAGUE, INC.

### SECTION MANAGER

#### SAN JOAQUIN VALLEY Charles P. McConnell W6DPD

FCC has started a rule making proceeding, Docket 86 63, to determine whether credit should be given for written elements passed for Amateur Radio Exams coordinated by VECs under Subpart I of Part 97 or the rules. At present credit can be given only for the telegraphy exam elements. The Commission also enquired whether it is necessary to continue filing an application form each time a person takes an examination. Possibilities for expanding the Certificate of Successful Completion of an examination will be explored. Comments on Docket 86 63 are due April 30, 1986 with Reply Comments due on May 31, 1986.

FCC has denied PRB-2, a request for waiver filed by Lee Shoblom, K6ADA, of London Bridge Broadcasting, Inc. This waiver would have allowed Mr. Shoblom to use Amateur Radio for newsgathering for broadcast over his commercial low power TV station. ARRL filed strong comments in opposition to this waiver.

Starting at 0001 UTC February 28, 1986, Amateurs with General, Advanced, and Extra Class licenses living south of 20 degrees north latitude will be able to operate phone on 7075-7100 kHz. This is for U.S. possessions in the Caribbean. This was the result of action in PR Docket 85 104.

FCC has released a Report and order in PR Docket 85 105 allowing automatic control for digital operation on frequencies 50 mHz and above. However, the Commission did not remove the requirement that a control operator be present at the control point of an Amateur Radio station when third party traffic is being passed. ARRL had hoped that one result of this Docket would be the removal of the control operator requirement for third party traffic for packet radio, data transfer, and other types of digital communications. Since this was not the case in the Report and Order, ARRL will work to get the desired result on this Docket.

The complete minutes of the 1986 ARRL will be in the March 1986 QST. Be sure to read them.

#### CANADIAN RFI TRIAL!

In Canada, the big news is the Ravenscroff QRM trial! Ottawa's Jack Ravenscroft, VE3SR, is being sued by neighbors, Tim and Dale Houghtby for interfering with their home electronic appliances. An injunction against all Ravencroft amateur radio operation forced Jack off the air six months 200. Ravencroft's amateur radio station interferes with the Houghtby television, organ, microwave oven and furnace. They seek \$35,000 in damages. The Canadian amateur community isn't taking it lightly. Thousands of donated dollars have supported Ravencroft's legal defense. The trial, which lasted three days in January. started with counsel for the Houghtby's demanding that a contempt of court charge be issued against Ravenscroft for breaking a court injunction banning any transmissions from his station. It seems that the plantiff's oven continues to be turned on by his alleged transmissions. Ravenscroft denied breaking the injunction and the judge denied the contempt request. Interestingly, after the plantiff's

had a supplier change some of the faulty microwave oven components, the problem did not reoccur. The judge seemed to be of the opinion that money spent on interference proofing the appliances might have been better spent and preferable to legal and court costs. He suggested that the two parties work out a settlement. The Houghtby's flatly rejected this. At one point in the trial the plantiff introduced a tape recording It is charged that of a CW contact taped off their electronic organ as damaging evidence against Ravenscroft. Amateurs attending the trial were highly amused when they copied the code in the courtroom. It was a transmission made by VE30AI, another Amateur about 500 feet away from the Houghby residence! There are about 150 Amateurs in Jack's suburb. The following day, the defense asked VE30AI to take the stand. He showed his log and he did indeed make that transmission. The plaintiff's counsel was very embarrassed since it indicated that the problem was wider in scope than alleged.

> Engineers from Canada's Department of Communications (DOC-Canadian FCC) testified

(Continued Page 14) Page 7

## N. CALIFORNIA V.E. TESTS

2	Sacramento	
19	Monterey WE6R	209
26		1
1		193
4	ChicoKE6EP	
10	Los Altos HillsW6NLG	
18	Pleasant HillsW6NLG	
7	VisaliaWA60FB	109
14	Novato	
14	Los Altos Hill W6NLG	145
4-6	WatsonvilleN6JNZ	200
12	Los Altos Hills W6NLG	
13	Chico	2.2
19	So. San Francisco. K6GBH	25
19	MontereyWE6R	3-7
9		ST.
6	VisaliaWA60FB	2.91
7	ChicoKE6EP	gir:
-14	Los Altos HillsWENLE	
20	Novato	
11	Los Altos HillsW6NLG	
18	MontereyWE6R	
2	Chico	8129
5	Los Altos HillsW6NLG	grade g
9	Pleasant HillW6NLG	ausia
15	So. San Francisco. K66BH	
13	NovatoN6AQY	
	the last champing and the	
	12 19 26 1 4 10 17 14 16 13 19 10 10 10 10 10 10 10 10 10 10	12 Los Altos Hills. W6NLGP 19 Monterey. WE6R 26 Novato. N6AQY 1 San Francisco. KK1A 4 Chico. KE6EP 10 Los Altos Hills. W6NLG 18 Pleasant Hills. W6NLG 7 Visalia. WA6OFB 14 Novato. N6AQY 14 Los Altos Hill. W6NLG 4-6 Watsonville. N6JNZ 12 Los Altos Hills. W6NLG 13 Chico. KE6EP 19 So. San Francisco. K6GBH 19 Monterey. WE6R 9 Los Altos Hills. W6NLG 6 Visalia. WA6OFB 7 Chico. KE6EP -14 Los Altos Hills. W6NLG 20 Novato. N6AQY 11 Los Altos Hills. W6NLG 18 Monterey. WE6R 2 Chico. KE6EP

#### CONTACT INFORMATION:

W6YFW.				(916)	483-0	551
WENLG.				(408)	255-9	000
WEGR				(408)	649-8	766
N6AQY.				(415)	897-8	950
KK1A				VIA H	60WE/	R
			1	46.70	MHZ R	TTY
KE6EP.				(916)	893-5	208
WAGOFB				(209)	733-3	1.09
NGJNZ.				(415)	932-04	491
K6GBH.				(415)	589-0	236



Emegency Coordinator Stanislaus County

WEDUZ , V.	DALE
BROOKS, SI	LENT
KEY FEBRUARY	18TH

Regretfully we record the passing of SARA member, V. Dale Brooks, W6DUZ, of Fairfield. Dale died of a massive heartattack on February 18, 1986. He was 75! Dale had been a member of SARA for many years. Condolences to his family.

### LAUGH LINES K6YII

#### A BIG CITY COW

A big city school boy described a cow something like this. A cow is a completely automatic milk manufacturing machine. It is encased in untanned leather and mounted on four vertical, movable supports, one on each corner. The front end contains the cutting and grinding mechanism, as well as the headlights, air inlet bumper and foghorn. At the rear is the dispensing apparatus, exhaust and an automatic fly swatter. The central portion houses a hydro-chemical conversion plant. This consists of four fermentation and storage tanks connected in series by an intricate network of flexible plumbing. This section contains the heating plant complete with automatic temperature controls, pumping station and main ventilating system. The waste disposal apparatus is located at the rear of this central section. In brief, the externally visible features are: two lookers, two hookers, four stand-uppers, four hang-downers and a swishy-wishy. There is a similiar machine known as

the bull, which is not to be confused with a cow. It produces no milk, but has many other interesting uses.

#### ALL THE EXTRAS

A farmer, who recently bought a new car, was surprised and unhappy about the cost of the so-called "extras". Later, the car dealer wanted to buy a cow from the farmer. The farmer quoted him the following prices.

Basic	: cc	w.											\$1	00	
Two-t	one	r f	in	i	sh								\$	45	
Four-	-bar	re	1	5	tc	m	a	cł	٦.				\$	75	
Cowhi															
Produ	ict	st	or	a	ge	2	8	C	i t		-				
pensi	ng	de	vi	C	R.								\$	60	
Four	spi	go	ts										\$	40	
Dual	hor	n.											 \$	15	
Autom	ati	C	11	y	2	W	a	tt	; 6	1			\$	35	
Field	fe	rt	11	1:	zi	n		g	56	2	-	1			
vice.													\$	45	
Total															

Thanks to Ken Deadmon, K6YII for this month's Laugh-Lines



Welcome to new SARA members Ralph Storti, WB6JBO, of Manteca; Dr. Emile Lengyel, KE6BE of Modesto; Terry Morley, KB6NZ, of Ripon; Robert Vreugdenhil. Ex-W6WDZ and Charles Schwarz, KB6HCJ of Modesto. Ralph is retired from Lockheed Missile Division in Sunnyvale. Dr. Lengyel is a physician in Modesto and has been inactive for several years. He had been a ham for several years and held a W6 call before going inactive. Terry is a medical technologist in Modesto and makes his home in Ripon. Vreugdenhil works for Storer Transportation as a driver. Schwarz is an Innkeeper at the Vagabond Inn in Modesto. Also, welcome back Randy Francis, KB6ANA, of Turlock a Stanislaus County Deputy Sheriff. Welcome aboard gentlemen! +++ The

new Sonora Pass Amateur Radio Klub (SPARK) is off to a good start. The club was born on February 15, 1986 with 23 Amateurs signing up as members. Elected president was Harry Grace, KI6-AD. The permanent meeting place is at the California Division of Forestry mess hall in Twain Harte. +++ Alinco Electronics Inc. of Osaka, Japan has opened its USA branch office in Sparks. Nevada and named former SARA member Everett Gracey , WA6-CBA as President of U.S. operations. Gracey was the co-founder of Mirage Communications in Morgan Hill. Alinco will be marketing IC regulated power supplies from 6 to 55 amps among other electronic items. +++ Both Marilyn, NQ6H and Joe, +++ N6LSB are recovering nicely from recent surgeries. Congratulations to Joe who upgraded to Extra on January 25th in Merced and our President, Gene, N6JRC who updated to Advance last month. +++ W60A-1 is a new digipeater on the air from Livermore. The machine is located at the Livermore Lab's site 300 testing facility near Tracy on Corral Hollow Rd. Its operating on 145.03 mHz. +++ Condolences to Cliff, WA6EWR, of Sonora whose wife, Ethel, passed away on February 18th. She was 68. +++The 10

program this month is a tour of the television transmitter building plant of Sainte Broadcasting of Modesto. We will have our regular meeting at 730 pm and drive to the plant following the meeting. The plant is at the corner of Carpenter Road and Elm street in West Modesto. +++ We are putting the final touches on another special SARA Field trip. This will be a tour of the Walnut Grove transmitting facilites of Channels 3-10-13 at the base of the 1500 candelabra tower. That's tenatively scheduled for Speaking of field May. trips, we only have a few seats left for the Voice of America trip on April 5th. Contact me as soon as pos-sible if you want to go. +++ I hope you enjoyed the photo's of the officers we ran in READOUT last month. I want to thank Gene and Dan Von Jeneff who took the photos and Gary, KJ6Q in Vacaville who half-toned them for reproduction in the newsletter. +++ I leave you with this goodie from K6-SJV... "Two ladies of the night advertized in the the yellow pages. One under fun and games. One went The other under sporting equipmerit." Have a good one and see you next month on the VDA tour. 73, Bob, you next month on WAGZLO.

V.O.A. DELANO FIELD TRIP

The deadline for the Voice of America Field Trip on April 5th is just about here. March 18th is the cut off date. As of this writting, 28 seats are sold with only 10 left. If you' re planning to take advantage of this rare opportunity to tour the transmitting facilities of the Voice of America at Delano, you better contact WA6ZLD at once to get your name on the list. After March 18th, we will offer the remaining seats to anyone who wants to go. We must get our money into the bus company by no later than March 25th, so, if your name is on the list, make sure you send your check into ZLO immediately. Make your checks payable to SARA. Price is \$12.50 each. Remember, we plan to stop for lunch after the tour. You have your choice of bringing a sack lunch or eating at a restaurant. The We schedule remains intact. will leave from the parking behind our meeting lot place, Stanislaus County Administration Bld. at 12 & H streets at 730 am sharp. You may park in the lot, no meter enforcement on weekends.

# STATION LOG

The February 18, 1986 meeting of SARA was called to order at 735 pm by President Gene, N6JRC. 37 members and guests present. Minutes of January meeting read and approved. Treasurers report by treasurer Lynn, given KB6DXX. Bank balance on 1-24-86, \$2,034.55. Expenses past thirty days \$284.71. Income \$381.95. Net gain for the month of \$97.24 . Deposits \$170.00. Checks on hand for deposit \$190.00. Cash on hand as of 2-18-86. \$1,919.84. Refund due from Spectrum \$21.95. Net worth \$2,131.79 as of 2-18-86. Under old business, a thank you note was read from Mrs. Joe Parker on behalf of her late husband Joe, N6DXB. N6JRC mentioned the posmentioned the possibility of thank you gifts out going officers. for Minimal discussion, nothing decided.

Tom, WJ60, reported on the Thursday night SARA CW net going well with 16 members plus two vistors checking in on 2-13. WA6ZLO reported that only 10 seats remain on the field trip to VOA in Delano. ZLO also announced another field trip is being planned to the transmitting facilities of the Sacramento ARRL affiliated club

television stations at Walnut Grove this spring. Date to be announced when firmed up. N6JRC announced that Mike, W6VY, had offered to install and maintain a packet radio digipeater for the club in the 220 mHz vault on Mt. Osc. Cost would be around \$240. After considerable discussion. WJ60 moved and KB6JQE seconded that the club accept the offer and purchase the necessary equipment. Approved! Bruce, KB6DYA, brought up the idea of installing a courtesy beep on the repeater to enhance breakers chances of getting in. Died for lack of a motion! Local EC Allen, WA60YF, reported on emergency plans and area flooding due to the heavy N6JRC mentioned it rains. was time to start planning for our dinner-dance and asked for someone to organize the event. ZLO declined to head the event this year. Break at 830 pm for refreshaments. Raffle won by Secretary Lynn. Meeting adjourned at 915 pm. Program for the evening was presented by Jasper Hamilton, WD6-DZN, on the Memorial Hospital Medi-Flight helicopter. Respectfully submitted by LaVern, KB6ECF, SARA Sec.

## Your Invitation

complimentary Several issues of READOUT were mailed this month. If you are not a member of SARA and received a copy of READOUT, we hope you enjoy it and will accept this ivitation to join SARA. You will enjoy meeting new friends and the many activities of the club each year. Your membership brings with it the club's monthly newsletter, READOUT and use of the autopatch facilites.

Please use the handy membership application below to apply for membership. If you would like more information on SARA please write to the Club at post office box 4601 Modesto, CA. 95352.

Join In: DUES Pay

January \$15.0	00
February \$13.	75
March \$12.	50
April \$11.	25
May \$10.	
June \$ 8.	75
July \$ 7.	50
August \$ 6.2	
September \$ 5.0	00
October \$ 3.1	75
November \$ 2.!	50
December \$ 1.3	

Membership

MEMBERSHIP	P APPLICATION	Date
Address		MEMBER OF ARRL?
City-	diz	Home Phone
Bus. Address		Bus. Phone
Occupation		Date of Birth
Class of License	Year First Licensed	
FOR OFFICIAL USE ONLY:	Membership year (19 )	Entered Roster ( )
Treasurer ( )	Welcome/Autopatch letter sent: ( )	Entered Mail List ( , )

#### (RFI continued from P-7)

as to the deficient design of today's consumer electronic appliances. They pointed out that additional filtering could probably eliminate the problem. While Ravenscroft agreed to carry out further RF testing, the Houghtby's rejected any further RF suppression work on their appliances as an invasion of privacy. They also said that there would be no guarantee that any additional equipment purchased would not experience the same problem. The DOC said that they had inspected Jack's ham station and it met all required technical standards. The DOC witness said the he thought the goal of the proceeding was to get Ravencroft off the air permantly. The plaintiffs had even written the Prime Minister asking that Jack's license be revoked. DOC engineers testified that even their own hand-helds created problems with the plaintiff's equipment. CRRL (Canadian Radio Relay League) Director Ray Perrin, VE3FN, testified that Jack could not be held responsible for the interference. He compared the problem to rain entering a hole in the roof. There will always be rain. You have to fix the rain. You have to fix the roof. It was a good analogy! Due to the technical nature of RF interference, the judge has asked for written briefs from each side which were submitted. A decision is expected soon. (W5YI Report)

#### (SARA Digipeater from front page)

of the Westnet digipeater network traffic through this part of the state. The digipeater carries SARA's club station call, WD6EJF with the number "1" appended to signify the digipeater.

PROGRAM THIS MONTH-
Tour of the Sainte
Company television
transmitter manu-
facturing plant on
Carpenter Road in
Modesto. Tour starts
after the meeting.
SARA MEETING
ARRL affiliated club

### Two Meter Band Plan

144.00 - 144.05 ..... EME (cw) 144.05 - 144.06.... Progation becons 144.06 - 144.10..... General cw and weak signals 144.10 - 144.20..... EME and weak signal ssb 144.20..... National calling frequency 144.20 - 144.30..... General ssb operation 144.30 - 144.50..... OSCAR sub-band 144.50 - 144.60..... Linear transistor inputs 144.60 - 144.90..... FM repeater inputs 144.90 - 145.10..... Weak signal, Packet, FM simplex 145.10 - 145.20..... Linear transistor inputs 145.20 - 145.50..... F.M. repeater outputs 145.50 - 145.80 ..... Misc & experimental modes 145.80 - 146.00..... DSCAR sub-band 146.01 - 146.37..... Repeater inputs 146.40 - 146.58..... Simplex 146.61 - 146.97..... Repeater outputs 147.00 - 147.39..... Repeater outputs 147.42 - 147.57..... Simplex 147.60 - 147.99..... Repeater inputs

SARA ROSTER MISTAKES ?

The SARA club roster is published twice a year in March and September. If you find any errors, please notify the editor so they maybe corrected. KSCH, NEW SACRAMENTO TV KSCH, Channel 58 is due on the air in April. The station's transmitter will be located in Channel 10's building at Walnut Grove. Their antenna will be at 1,250 on the original candelabra tower.

## I CALENDAD III

March 18, 1986 SARA Monthly meeting 730 p.m.
Programs Tour of the television
transmitter building facilities of
Sainte Broadcasting Co. Modesto
April 18-20, 1986DX Convention Holiday Inn
in Visalia.
April 22, 1986 SARA Monthly meeting
Program: Slide/sound program on
raising pheasants. Presented by
Delta College.
May 20, 1986 SARA Monthly meeting730 p.m.
Program: Rancho Seco Nuclear
Power plant, Sacramento
June 17, 1986 SARA Monthly meeting738 p.m.
Program: Bud , KB6JHU, on Laser
Photography.
July 15, 1986 SARA Monthly meeting 738 p.m.
Multi-Projector Slide/Sound on
Alaska with Mrs. Bunnie Rader
(Rescheduled from January)
August 19, 1986 SARA Monthly meeting
Sept. 16, 1986 SARA Monthly meeting 730 p.m.
October 21, 1986 SARA Monthly meeting730 p.m.
Nov. 18, 1986 SARA Monthly meeting 730 p.m.
Dec. 15, 1986 SARA Monthly meeting 730 p.m.

## Address Correction Requested



BULK MAIL U.S. POSTAGE IPFAID PERMIT NO. 5 MODESTO, CA.

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