

The READOUT

YEAR 11 NUMBER 4

APRIL, 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. Dur 220 MHz repeater operates 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. 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. 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 QST renewals may be made through the club with a \$2.00 commission retained by SARA.

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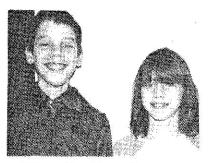
BETTER KNOWN HAMS AROUND THE WORLD

5YC
EA1JCJuan CarlosKing of Spain
H18MMJManny MotoEx baseball player
JY1King HusseinKing of Jordan
W2NSD Wayne Green Publisher of 73 Magazine
K2ORSJean ShepherdAuthor and humorist
WB4KCGRonnie MilsapCountry Music singer.
WA4CZDChet AtkinsFamous Nashville guitarist
K4LIBArthur GodfreyLate Radio-TV personality
W5LFLOwen GarriotNASA Astronaut
WA6BGARay NobleBig Band Leader
K6DUERoy NealRetired NBC Newsman
W6EZVCurtis LeMayRetired 4 star General
KA7EVDDonny OsmondSinger-Entertainer
WA610G Vernon Drr Former Sec. of Air Force
WA6PVAJoe RudiFormer baseball player
WB6RER Andy DevineLate actor
FO8GQ Marlon Brando Movie Star
W6UKAlvino RayBig Band Leader
K7UGABarry GoldwaterFormer U.S. Senator
WA7WYN Andy Griffith T. V. and Movie actor
YN1AS Anastasio Somoza Former dictator Nicaragua

The son of the late Shah of Iran was once EPIMP. The Callbook does not show that call issued at this time. However, the King of Jordan, JY1, King Hussein, apparently also holds an Iranian call, EPIJY.

FROM THE SARA ACHIEVES

5 YEARS AGO- Modesto CB'er John Colvey, "Bodyman", was fined \$750 by the FCC for illegal possession of a VFO rig (FT-101) which he was using to operate outside the authorized CB channels.



KB6NDV, Tom Duncan and sister Lenore.

MINIEDITOR'S NOTES

By Bob Pinheiro, WA6ZLO

Welcome new club member Dennis Jones, NUED. of Modesto. Dennis is an Extra works for the Law-Class and rence Livermore Lab. Dur membership has now grown to for the year and climb-The club's roster is printed twice each year, in April and in September. Please examine it and if you find any mistakes please let know either by phone or mail. You can leave a message on my answering machine (523-5880) at anytime. though we use computers to keep the club's data base. that won't help if you don't us know about changes. 1.e. calls, telephone numbers, addresses and class of license. +++ On March 7th. FCC fined W4UWH of St. Thomas. U.S. Virgin Islands, intentionally jamming Amateur station. The another fine was \$1,450. The jamming occurred on the 40 meter band when UWH retransmitted voice recordings of another Amateur station and jammed the fre-On a related matter, quency. offender perennial **K6DYD** (Extra) ⊂f Ocean Beach, CA. has pleaded guilty to intentionally namming the Diego FBI radio network last year. He was fined \$1.000 and placed on three years (FCC

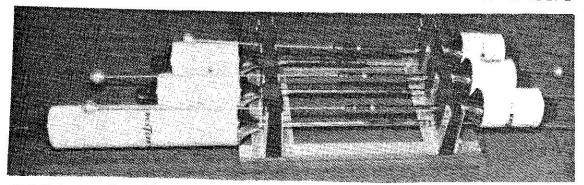
supervised) probation. DYD must perform five years of community service which he do by providing maintaining a repeater radio for the San YMCA. The sentence was very unusual in that it sets up the FCC as a probation officer in order to supervise community service requirements of the fine. +++ Got a nice note in the mail from Oakie K68JV, of Forest Grove, Or. Says he's petting along fine and he has finally pot his antennas Thanks for the cartoon Dakie, only wish I could use it. HI HI. +++ I'm still unable to print the February meeting minutes as they have not been received from the Secretary. (HINT) !!! +++ Next month, we will have a story on Earthquakes which I think you will find interesting. Also, a story and pictures from Gary, KJ6Q, of Vacaville, and his souped up 69 Datsun with a supercharged Chevy 350 V8 engine. We will also have a letter from John, WB6REM, on the day his phone service went out. Please remember we are always looking for stories for Just mail them The READOUT. to me at my home address.

75 -10 METERS SUPER MOBILE RESONATORS

By Chuck Loveland, NW68

Operating low bands from the mobile is a lot of fun. I use a Kenwood T5440-S with the antenna tuner and a set of super resonators. With the antenna tuner and the super resonators, I can QSY quickly to a frequency that is out of resonance and be tuned up in a jiffy. Because of the size of the resonators, I was forced to put them outside the cab of my truck which was OK because I wanted them as near the antenna as possible. I was looking for a way to keep them from rolling around in the bed of the pickup and possibly causing damage.

So, I started looking around for ideas. I had bought a set of fishing rod holders for my boat and while looking at them I felt they would do the job. I used 3 fishing pole holders and two 12 inch long adjustable metal shelf bracket holders



as mounts for the resonator. I used the shelving bracket holders because I had them handy. Any piece of flat metal will do. I fastened the fishing pole holders together using the holes already there. Then I put the 75,40 and 20 meter resonator in first, with the stingers all facing the same The I put the 15, 11 and 10 meter stingers on the otherside facing them toward the bottom resonators and on top of their stingers. This seems to be working very well. I also can carry them into the house whenever I want always find everything when needed. I use the bracket as a handle and it works very well. You could fasten them down in the trunk of a car or someplace in a R.V. if that's what your using. Looks to me like it would work laying down or up on it's side. (Continued on page 15)

On The Agenda.

The March 15, 1988 meeting of SARA Was called to order at 733 Om by President Bud. NEOCY. Introduction of members and visitors followed. The treasurers report was given by N6OCS. Startbalance, \$2306.83. Three ing deposits for \$262.00. Expenses: NV6S \$42.24 for repeater building. KI6YQ \$16.01 stationary, Budget Сору \$50.56 for the READOUT. Pacific Bell \$20.04 for the autopatch phone. Postmaster \$100 for READOUT postage for 4 months. WASZLO for miscellaneous supplies for the newsletter. Report approved read. LaVerne, KB6ECF suggested that a decision should be made ASAP as to whether or not the club was going to participate in Field Day or opt for another mini DXpedition. You can call her at 578-5554 Sunday and Monday and let her know you preference. Bud, N60CV, reported that he had talked to the Turlock ARC regarding the of their liability incost surance. It cost them about \$400 through the ARRL pro-Bud said he called the ARRL and they are poing to be sending him information on the subject. DCV announced that VP WASOHP has been

checking with the former engineer of the system on Mt. Oso that is interfering with our 2 meter repeater. The suggestion was made that it is time we take them up on their offer to share the expense of installing a cavity on their transmitter to furreduce ther their second harmonic. The pros and cons were again discussed concerning the fireworks stand as a money making pro-Ject this summer. Those that worked diligently on the project last year will be contacted again to see if anything has progressed as far as locating a site. Steve, N6EKV. reported that we need to renew our membership in NARCC (Northern Amateur Relay Council of California) the official frequen-Cy coordinator for this area of California. A check for \$20.00 was issued. EKV also reported that his wife Lori. N6JTD, would be willing to chair the next dinner-dance if requested. The offer was gratefully accepted and the date ٥f October 15. 1988 set. The site will be the Dasis Restaurant on McHenry Ave. membership for this year and suggested that the Secretary should send them a

nice reminder letter. W6REC from Lodi was present at the meeting and announced that he is collecting data on a future article he is writing. He asked everyone to take a Novice written test, after which he explained that his article will concern the fact that their are some ambiguous questions and some ridiculous questions presently contained in the Novice pool. Only two people who took the test passed the test which proved his point. Bill, WB6SHE, won the raffle and the meeting was adjourned at approximately 930 pm. Respectfully submitted for the Secretary by LaVerne, KB6ECF.

Although filed 6 months after the filing deadline, the FCC. as expected, accepted the comments filed by the United Parcel Service, UPS, requesting reallocations of the 220-222 MHz Amateur band to Land Mobile Service. The ARRL filed a motion against the acceptance to no avail. FCC in accepting the filing, said that the proposal provided new and relevant information and for that reason accepted it. The FCC accepted a request from the ARRL to accept reply comments to the UPS filing until March 31. It's expected that the FCC will make their final ruling on this issue before long and it's starting to look like we are going to lose the bottom 2 MHz of the band.

MAKE YOUR ARRL RENEWALS THROUGH SARA

Please remember, SARA is an affiliated club of the ARRL and you can renew your ARRL membership through SARA. We make a \$2.00 commission for each renewal and \$5.00 for any new members joining the ARRL via SARA. Send your check for the full membership amount made payable to SARA. We will deducted our commission and send the ARRL our check for the difference. Thank you!

DX NOTEBOOK |||||||

By Tom Farr, WJ60 & Denny Dugal, WG6P

is happening! Welcome to the second column and I hope this finds everyone ready for the spring DX season with no amplifier or kinks in Please note WG6P's the coax. net has been changed to Wednesday nights at 2000. Looks very favorable that the (Baker/Howell Island) Dxpedition will occur. Also, that KH5, (Kingman Reef) will be activated for a period in welcome news to the April is community and the west coast in particular, as conditions will favor us snagging this exotic one. A61AB was manned by Jacques Calvo, (Jacky) F2CW/7J1ADX, CW for a period at the of March. I sure hope you got this one. The station's regular operator active with his Austrian QSL manager many mornings from 15007 on at 14.240. Also active these days is T5GG with weak to poor signal most days. Try 14.226 or 14.183 around 2000Z. Good luck, this a tough one! Also, Amir, 4X6TT, continues his island hopping adventure through all of Oceania, giving us all a at some good DX easchance ily workable from the west He handles pileups coast. a broad split. well, working Aruba. (P4) has been active

on many bands and remember a new country it counts as now. To be pranted credit however. once ARRL submittals. accepting will have to send along a PJ (Netherlands Antilles) along with the Aruba card to get the credit. Spring conditions will see 20 meters open into the mid evening and later with the JA/ Pa-VK/ZL activity cific and increasing. Good openings on that band continue after sunrise to Europe and increasing long path openings occurring will be your beams to the west and 14007 on. 10 southwest from and 15 meters will continue to show signs of life for DXing with European, then then South America Orient. openings from 1700z on through the day. The openof course are ings on 10 spot tier than 15, but they can be dynamite for the for the guys who scan that band and catch them. With the advent of ten meter phone privileges, more ears ar e on that band and surpaths are prisingly good being reported. For those who are beginning in the DX world, nets are not a bad way to get a start. Though distasteful to some. they

enable the guy with a mode- As a reminder, to head with the big guns. Try 14. - 313, 14.236, 14.183, course that your license allows operation on these QRGS. Don't forget the International DX Convention in Visalia at the end of April. It's a blast! Good DXing to all and please send me any DX items you would like to see covered in this column. Thx and 73 DE Tom, WJ60 and Denny, WG6P.

CANADA TO OK NO-CODE LICENSE

The Canadian Department of Communications (DOC) has officially announced that it is committed to an entry level license. Amateur no-code Canada's two Amateur radio organizations, CARF and the CRRL had submitted a joint position paper to the supporting an entry level ham ticket with a Morse code requirement during mid-1986. The action is deemed very significant to the USA since the two nations often act in concert. If implemented, look for the change in mid-1989.

Amateurs rate station to work some traveling to VE land (Canada) rare stuff without going head are reminded that the U.S. automatic reciprocity nas All that is with Canada. and 14.160, making sure of necessary for operation north of the border will be your original license. US amateurs visiting Canada must use the VE 1 through 8 identifier, such as NU@X/VE2. when visiting Quebec. If you are planning a trip to a foreign country other than Canada, and are interested in the possibility of operating there. you can obtain information sheets. Which in most cases contain application forms. from the Regulatory Information Branch ARRL HQ. Most countries require a minimum of 4-6 week lead time for processing of reciprocal permit requests, so consider this when making the request. Be sure to include a SASE with one unit of First Class postage for every three countries on which you desire reciprocal licensing information.

....de ARRL Newsletter

THOMAS ALVA EDISON AS A TELEGRAPHER

Thomas Alva Edison, the prolific inventor, as everybody knows, was a Morse teleprapher in his early years. But even then he displayed real imagination and inventive-On one slow railroad wayside telegraph office job he was required to send an identification signal to the dispatcher every hour. So that he could devote his attention to more interesting things, Edison devised a clock mechanism which would transmit the signal automatically. It worked perfectly! But the dispatcher claims he found Edison asleep on an inspection tour and fired him. On another occasion, a flooding river separated a town in which Edison worked. It washed out the railroad bridge and all communications. Edison climbed into the cab of a stalled locomotive and using the steam whistle began signalling in Morse code, calling a telegraph operator in across the river who caught on quickly and commandeered a locomotive for his response. Two-way emergency communications were established perhaps for the first time using Morse code via steam whistles.

Edison eventually graduated into operating in a large telegraph office. He was a notably slow hand sender, but a real top notch receiver. On his first day at the office the Chief Operator wanted to see how good Edison was and at the same time probably provide some laughs for the old-timers in the office. He assigned Edison to the "hottest" wire in the office, manned by a high-speed artist at the other end of the circuit. He started sending to Edison at a moderate rate of speed, then kept increasing it until the wire almost smoked. A crowd gathered around Edison to watch the perfor-Finally, exasperated because Edison had not once "broken" him to ask for a repeat, he said, "Hey, are you really copying all of this?" Edison, with a telegraphic yawn replied, "oh yes. Why don't you try sending with the other foot for awhile!" The crowd cheered and clapped in recognition of Edison's skill.

(Thanks QCWA News and WAISPM)

HEAVENLY

CONTRIBUTIONS TO THE READOUT

An elderly golfer went to a Contributions to The READOUT psychic to ask if there were can be made through my Packet any good good courses in hea- Mailbox on the W6FGC-2 BBS at ven. After peering into her **Twain** H**arte**. turned to the old duffer and I download all contributions said: I news and some bad news." The get them ready for the newsgolfer said, "give me the letter. Frequency is 145.07. good news first!" "The good All contributions are welcome news is that there are plenty and carefully considered. of championship golf courses in heaven. The bad news is that you are scheduled to tee off at 7 am in the morning."

Column width ball, the psychic and length are not critical. have some good into the word processor andde WA6ZLO.

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Contact Person KI6YQ 537-2785

Walkin's OK

County Center 3

>>>>> MAY 5, 1988 ((((((Thursday Night)

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

>>>>> MAY 7, 1988 ((((((Saturday)

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

Modesto

THE AMERICAN RADIO RELAY LEAGUE, INC.

SECTION MANAGER

SAN JOAQUIN VALLEY
Charles P. McConnell W6DPD

The FCC has decided to accept comments filed by United Parcel Service in Docket 87-14, the proposal to reallocate 220-222 mHz to the Land Mobile Service. The UPS proposal is for a nationwide private land mobile system in the 220-222 mHz band. Even though the comments were 6 months late, the FCC accepted them because they provide new and relevant information, and the input will be used to develop as complete a record as possible. The ARRL requested and the FCC granted a motion to allow reply comments until March 31. One of the arguments used by the ARRL in opposition to the acceptance of the UPS comments was that since all deadlines had passed, no interested party could file comments in reply to the UPS comments.

The ARRL DX Advisory Committee (DXAC) has decided that the addition of Western Sahara, SØ, will not be a brand new country, but a reactivation of Rio de Oro (Spanish Sahara). Thus Rio de Oro will be removed from the deleted country list and returned to the active list. Amateurs who had credit Rio de Oro will have credit for Western Sahara. The mechanism for getting this credit will be announced at some future date. QSL cards for SØRASD may be submitted for DXCC credit after June 1, 1988. See the April 1988 @ST for the recent changes that have been made in the DXCC program.

Amateurs planning to travel to Canada are reminded that there is automatic reciprocity with Canada. You need to take your original license with you. If you are planning a trip to a foreign country other than Canada, and are interested in operating there, you can get information sheets from the Regulatory Information Branch at ARRL HQ. Most countries require a minimum of four to six weeks for processing reciprocal operating permit requests. If you write to ARRL for information, please include a SASE with 1 unit of First Class postage for every three countries on which you request reciprocal operation information.

Have you ever yearned for another copy of those nice looking California license plates with your call sign on them? Well, if you are willing to shell out an additional one time charge of \$35, you can get a third plate. A new California state law enables owners of personalized plates (Amateur or environmental) to purchase a third plate to display or keep as a souvenir. Urilawful use of plate is a misdemeanor. so be careful how you display it. Another new law is designed to prevent grid-lock (traffic jams at intersections). It prohibits a motorist from entering an intermarked crosswalk section or unless there is sufficient space on the otherside for his/her vehicle to clear the intersection without obstructing cross traffic. A violation of this section can carry a fine of \$50 to \$100 the first second or offense and from \$250 to \$500 on the third or subsequent offenses. Animals can no longer be transported in an open truck bed or other area intended for cargo unless the is caced or crossarimal tethered and the space is

enclosed or has side tail racks at least 46 inches from the floor. The exempts livestock law aric working dogs used in ranching or farming. changes have been enacted into law as a result of the epidemic of freeway violence that erupted last summer. As of September, 1987, a vehicle used in a highway assault can be forfeited and sold. The penalty for a person convicted of discharpino a firearm at occupied motor vehicle which results in injury or death has been increased an additional 5 years. It is now a misdemeanor just to brandish firearm at an occupied vehicle, even is the firearm is a toy gun, if it causes the occupants fear or apprehension. The law also prohibits the granting of probation to a person convicted of causing injury or death by discharging a firearm from or at an occupied motor vehicle. In addition to these new laws, the Legislature has authorized the CHP to hire another 150 officers and 30 additional personnel to be assigned to the state problem areas.

CONFESSION OF A TEE-TOOTLER

From time to time we like to dip into the archives and pull out a few articles from the past. These are stories which have appeared in previous issues of The READOUT which we feel have that extra something that warrants repeating. Hope you enjoy this one that appeared in June 1983 issue. Cliff. WEERE, became a Silent Key in 1985.)

In the mail this month is a letter from our Technical Direc-W6ERE, Cliff writes that he had eighteen bottor, Cliff, tles of moonshine in the cellar and was told by the "War Department" (his wife Claire) to empty the contents or each and every bottle down the sink...or else!! would" and proceeded with the unpleasant task. "I withdrew the cork from the first bottle and poured the contents down with the exception of one plass which I drank. extracted the cork from the second bottle and did likewise exception of one glass, which I drank. withdrew the cork from the third bottle and poured the whisker down the sink which I drank. I pulled the cork from the fourth bottle down the sink and poured the bottle down the glass, which I drank. I pulled the bottle from the next cork and drank one sink out of it and threw the rest down the I pulled the sing out of the next glass and poured the cork down the bottle, then I corked the sink with the plass, bottled the drink and drank the pour. When I had everything emptied. I steadied the house with one hand. glassware, corks, bottles and sinks with the counted the other hand which were 29 and as the house came by, I counted Finally. I had all the houses in one bottle, them again. which I drank. I'm not under the alkfluence of inkahol, as some tinkle peep I am. I'm not half as thunk as you dright I fool no feelish and I don't know who is me and the drunker I stank here, the longer I get. ... Oh Me!". beautiful downtown Snow Shoe Springs...Cliff, W6ERE.

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 and interested parties are welcome.

75 -10 METERS SUPER MOBILE RESONATORS (Cont. from Page 5)

By the way, the antenna is 54 inches long and is mounted rear bumper of my pickup with a ball mount. The resonators are mounted on a 54" foldover mast which comes in handy whenever entering the garage or low clearance areas. I also used a short length of fishing line (40 pound test) to help keep the mast vertical whenever using the larger resonators.

Here are the SWR and bandwidth figures on my installation.

3.755 MHz-	3.780 MHz	Under	2-1	Bandwidth 25	KHz
7.170	7.245	Under	2-1	75	KHz
14.150	14.350	Under	2-1	200	KHz
21.100	21.450	Under	1.5-1	450	KHz
28.000	28.800	Under	2-1	800	KHz

Just a little hint for tuning the resonators. To lower your operating frequency, you lengthen the stinger. Lower=Lengthen! That's an easy way to remember. Also, you might use a thin point laundry market to set different operating frequencies. I've operated on all but 20 meters with great results. I don't operate on 20, but I guess it would work well there too. Good Luck!

VE EXAMS IN NORTHERN CALIFORNIA

Apr	9	Los Altos Hillswo-408-255-9000
		Pleasant Hillwo-408-255-9000
		Chicopp-916-342-1180
		Cupertinowo-408-243-8349
		Montereywo-408-624-2564
		Sunnyvalewo-408-255-9000
		Eureka
May	5	Modestoe 209-537-2785
May	7	Modestoe-209-537-2785
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		rred. WD=Walk-ins only. E= Walk-
in	5 O	r preregistered. Fee= \$4.55.

CALENDAD III

Apr . 19, May 5,	1988SARA Monthly Meeting730 pm 1988Thursday Night VE Test in
May 6-7-8,	Modesto at County Ctr.#3630 pm 1988Fresno Hamfest Airport Holiday
May 7,	Inn
May 17,	Modesto at County Ctr #3900 am 1988SARA Monthly Meeting730 pm
June 21,	1988SARA Monthly Meeting730 pm
Jun 25-26,	1988
July 19,	1988SARA Monthly meeting730 pm
Aug. 16,	1988SARA Monthly meeting730 pm
Aug. 20,	1988Sierra Hamfest in RenoAll Day
Sept. 9-11,	1988ARRL National Convention
Sept. 17,	Portland, Oregon3 Days 1988Sonoma County HamfestAll Day
Sept. 20,	Sebastopol, CA.
	1988SARA Monthly meeting730 pm
Oct. 15,	1988

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