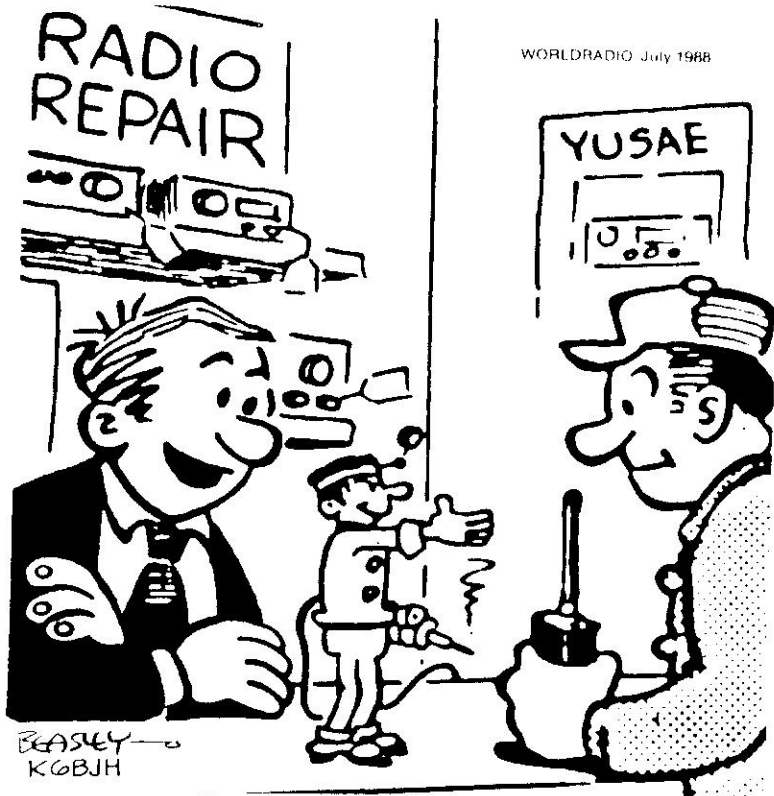


The READOUT

YEAR 11 NUMBER 7

JULY, 1988



THIS IS "MOOSE" McCUTCHEON --
HE'S THE ONLY GUY WE COULD
FIND WHO CAN WORK ON THE
LITTLE MICRO-HANDELS

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. Dso, 22 miles SW of Modesto at an elevation of 3,370 feet. Our 220 MHz repeater operates on 223.68 MHz (-) and is also located on Mt. Dso 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, WD6EJF-1, also located on Mt. Dso 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 QST renewals may be made through the club with a \$2.00 commission retained by SARA.

PRESIDENT

Bud Pelletier.....N6DCV.....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

July 19, 1988
Program

Open

Raffle: Win Money

730 pm

BUDGET COPY CENTER

1325 J STREET
MODESTO, CA 95354
TELEPHONE 529-5395

Page 2

DX NOTEBOOK

By Tom Farr, WJ60 & Denny Dugal, W66P

Hello again DX fans! Not much to report this month as the bands have been a whole lot less than favorable. Biggest news is the upcoming 4W operation by the Lynx DX group, the same fellows who very successfully activated SORASD for a brand new country. Look for them beginning about June 24 at the usual DX frequencies. Band conditions this last two weeks has been quite bad. However, for those so inclined, the 20 meter band has good openings into Europe daily beginning about 0600Z (11:00 PM local). Asia seems to come in quite well in the early am, about 1400Z (7:00 local). I have been working on a "marathon" contest for the NCDXC which entails working as many countries as possible between June 1 and August 30. So far this station has worked 139. So even when band conditions are not very good, there is DX to be found. Jim Smith will be hitting the DX trail again in July, activating T31 for about 2 weeks. Look for Jim in the usual places on SSB, CW and RTTY. Qsl via VK9NS. If you are looking for some good info on DX and you have packet capability, try pointing your beam at San

Jose and connect to W60AT on 146.580 simplex. This is the W60AT packet cluster repeater, and Rusty would be happy to have you aboard. You can display the latest DX reported on the bands, get WWV propagation reports, input DX you have heard, and a wealth of other functions. Ok, sport fans, that about wraps it up for DX this month. Be sure to look for the pileups around 14.195 and 14.025 as this is the usual place to find the rare ones. This months Qsl tip. The three envelope method! Sounds funny, but it works! If you do not know the Qsl route of a particular station, but you do know he/she is a resident of that country, and if the country is not too big try putting your card, together with whatever gratuity you use for return postage, in an envelope. Then seal the envelope, print the name and call of the station you wish the envelope to go to boldly on the outside, place this envelope inside another, and mail directly to the country's QSL bureau. It really does work. OK that does it. See you in the pileups!! 73, DE W66P, Denny, and WJ60. Tommy.

HAM BANDS WORTH \$300 BILLION IN COMMERCIAL MARKET

Tom Kneitel, K2AES, Editor of Popular Communications magazine, wrote in a recent article that the VHF/UHF Ham bands have a value on the commercial market of \$300 BILLION. Tom attributed the statement to a retired FCC official with whom he had a recent conversation. The figure was repeated later in the article so it was not a typo error. \$300 BILLION!!! Think about it!!! Now you know why there is, and will be, some BIG MONEY pushing on Congress and the FCC to get some of our spectrum. It becomes obvious as to why the Electronic Communications Privacy Act zipped through Congress without much debate. That's the law that prohibits listening in on cellular telephone calls in the 900 MHz band. It also becomes painfully obvious that we will have a continuing battle on our hands to retain our

frequency allocations not only in the USA, but, internationally as well. The Amateur community is seen as an annoying obstacle standing in the way of commercial interests in their continuing efforts to grab our frequencies. More than every before, we must stand and fight these efforts. If we don't, the money interests that want our frequencies could get them.

(Update) The decision on the FCC proposal to give 220-222 MHz to the commercial land mobile service has been pushed back a couple of months because of some personnel changes at the FCC. A decision should come this summer.

(Thanks The Uplink, Southern Sierra ARS and TRW Crosstalk newsletters)

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 .

On The Agenda.

The June 21st meeting of SARA was called to order at 7:35 pm by Bud, N6OCV. Introductions of members and visitors followed. The Secretary's report was read and approved after corrections were made. Treasurer's report was read and approved. Beginning balance was \$1,371.79. Two deposits were made and all bills have been paid. Ending balance is \$1,363.07. Under old business Field Day was discussed. Dave, KJ6DL, will be setting up. Another radio is needed and volunteers by Phil, WD0FFX. Everything is coming together well but bodies are needed to work on the air, if only for a few minutes. Dann, N6BGT, reported on the raffle. Donations are available. Dann will have the tickets printed and the drawing will be at the dinner-dance. FFX moved that the proceeds from the raffle be used for the club station and W66P, Denny, seconded. Passed unanimously. The Secretary will write a letter of introduction and explanation about the raffle and afterwards, letters of appreciation to donors. FFX reported on the Educational Committee and mentioned that

the VE team is a separate entity and is not a part of the Education Committee. Therefore they will answer for themselves for any funds collected. FFX said a new class for Novices only, will begin on June 28, 1988. VE test dates are set for August 26 and 27, 1988 at County Center #3. FFX also reported on the Educational account. In June of 87, it was decided that the Treasurer was the custodian of the account as per the by-laws. Everyone is now comfortable that the bylaws are being met with the way it is handled at this point. The account has four or five people who can sign, not just one. There is no need for an audit because there is no question about the integrity of anyone. Under new business, WJ60 donated an 18-AVT vertical antenna. It is to be sold and the proceeds to go to the club station. The stipulation was made that if the club station did not materialize, WJ60 would be reimbursed. OCV said he would be willing to the Foothill College Swap

(Continued on Page 12)

WA6APF, LARRY MERRITT, SILENT KEY MAY 27, 1988

It is with regret we record the death of longtime SARA member Lawrence (Larry) J. Merritt, 80, who passed away on May 27, 1988 after a brief illness. Larry was retired from the Lawrence Livermore Lab where he was a heating and ventilation foreman. Larry was a native of Emporia, Kansas and had lived in Modesto since 1974. In addition to his many years as a member of SARA, he was also a 20 year member of MARS. Funeral services were held on May 31 st. at Salas Brothers Funeral home with burial at Lakewood Memorial Park. He leaves his wife Gertrude, a son, one stepson, a brother and a sister, four grandchildren and one great-grandchild.

SARA SILENT KEYS

W6YIN.....	Charles Barnes.....	November	5,	1978	
NV6Z.....	Henry Deeter.....	July	7,	1979	
K6JFS.....	Charlie Mendoza.....	November	13,	1979	69
WB6VUS.....	Richard Jensen.....	January	21,	1981	
W6GCL.....	Will McAlpine.....	February		1982	73
KA6GVR.....	Norman Goodwin.....	October	2,	1982	61
W6FIQ.....	Bill Dalton.....	December	20,	1982	76
N6BGA.....	Quentin Goodrich.....	March	18,	1983	64
K6AYL.....	Leo Nepote.....	July	12,	1983	60
W6ERE.....	Cliff Price.....	October	2,	1983	69
W6QH.....	Tony White.....	November	28,	1983	78
KB6DVQ.....	Stephen Pereira.....	April	2,	1984	66
WB6TUV.....	Bill Ponkow.....	July	19,	1984	69
N6HFU.....	Edgar Martin.....	May	14,	1985	69
WB6LSC.....	Glen Andrews.....	May	29,	1985	43
N6DXB.....	Joe Parker, Sr.....	January	14,	1986	61
K6PDE.....	Chuck Strobel.....	May	29,	1986	65
K6KQE.....	Bob Le Clert.....	July	19,	1986	71
KB6UAW.....	Luverne Donker.....	August	29,	1987	67
WA6APF.....	Larry Merritt.....	May	27,	1988	80

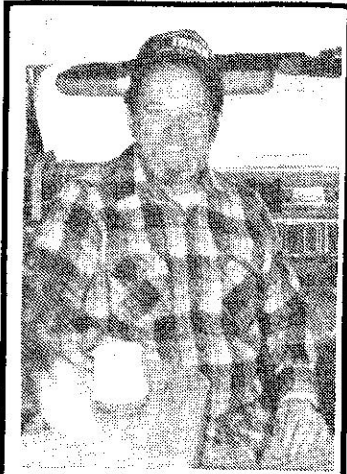
Thought:

If it's free, it's advice; if you pay for it, it's counseling.

SNOWFLAKES KEEP FALLING ON MY HEAD

Linda Franklin, N6REB

For Charlie Shaffer, KJ6GE, and his lovely wife Jo, N6SAH, opening weekend of trout season 1988 at Clark's Fork in the high Sierra will be quite memorable for a long time to come. Leaving a few days early to set up in a good camp site, they successfully checked in on two meters for the Thursday night net. They also talked to friends through repeaters in Modesto, Turlock and Sacramento. They even made a phone patch to relatives in Modesto to say they were fine, the weather there was great and come on up. Charlie anxiously awaited for Saturday and Jo just enjoyed the peaceful atmosphere of the high Sierra.



Charlies KJ6GE

At last, Saturday arrived, but where was the sun? Charlie rubbed his eyes, looked outside again, then realized those little white things floating down were snowflakes, not sunbeams. Jo just moaned, rolled over and covered her head as she remembered the winter snows when Charlie was stationed in Chicago. In spite of the weather, Charlie dressed himself warmly, put on his waders, gathered up his fishing gear and handy talkie and proceeded toward the stream to do some serious fishing with his brother Dan who had come up with his wife Linda.

Charlie's determination didn't go unrewarded as he soon caught his limit of trout amidst the gracefully falling snow. Later in the day, Jo and Charlie along with Dan and his wife, were joined by Chas Franklin, KJ6CH and his wife Linda, N6REB. A great time was had by all, laughing and talking while standing around the campfire in the falling

(Continued on Page 13)

EDITOR'S NOTES

By Bob Pinheiro, WA6ZLO

The SARA summer picnic is coming up on August 6th at the Tuolumne River Regional Park in Modesto. Make your plans now to attend. To reach the park, go East on Yosemite Blvd. (Hwy 132) to Kerr Ave (Burger King on the corner) and turn south on Kerr to Tioga. Left (East) on Tioga to the General Aviation side of the Modesto City County Airport. Continue on Tioga just past the airport and you will see the access road leading East off Tioga into the picnic area of the Park. (See map on page 10 & 11). As always, SARA members and friends are most welcome. The hours are 3 pm to dark. If you have any questions contact chairperson Bill, WA6DHP or co-chairperson (by marriage) Dottie, KI6YQ. +++ It's a potluck affair. Novices bring salads, Tech's and Generals bring main dishes and Advanced and Extras bring desserts. The club will supply sodas and briquettes. +++ The Reno Hamfest is coming up next month on August 20, 1988 in downtown Reno. +++ Shirley Armentrout, N6RTU, has a new Advanced call. She is now

KJ6IE. +++ Condolences to Max, KA6CUJ, of Murphys whose wife of 47 years, Mildred, passed away last month. +++ Welcome to the 154th member of SARA for 19-88. Bob Hoskins, N6RSS, of Turlock. Bob is an Electronics instructor and technician at Turlock High School. He was first licensed in 1964 as WB6DBW but let his license expire. Welcome aboard Bob! +++ Our main two meter repeater was taken off the air in early June when the FCC notified us that it had apparently developed a spurious signal that was interfering with some Air Force equipment at Mather AFB in Sacramento. The trouble was traced to bad components in the final. The standby repeater was pressed into operation while the main machine was repaired by WA6DHP and NV6S. As a reminder, and for those who may not know, the backup repeater has no autopatch or 220 linking equipment. You can tell when the backup is in service when you hear the CW id'er end up with just and "R" for repeater. 73.

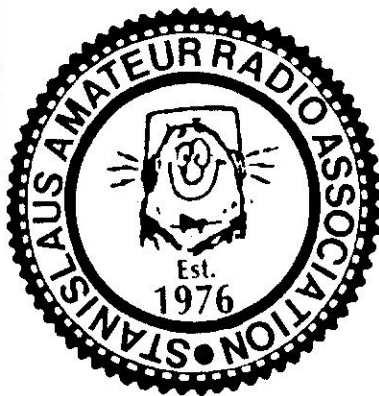
OSCAR 13 ORBITING SATELLITE IN ORBIT

AMSAT's Phase 3C satellite was launched to orbit Wednesday, June 15, together with two other communications satellites. The launch was letter perfect and all three payload satellites were precisely deposited in their proper orbits. Each will now maneuver on its own to its final orbit. The launch-aboard an Ariane-4 was the first flight for the new European entry into the heavy-weight launcher business. Lofting into an azure sky over the Equatorial Atlantic at 7:19 am EDT, the trajectory was perfect throughout. Phase 3C became AMSAT OSCAR 13 upon ejection from its carrying structure at 12:39:04 UTC. Then, an hour and a half later, at 14:03:38 UTC, AMSAT OSCAR 13 sprang to life with the activation of its 2 meter General Beacon on 145.812 MHz. AO-13 was alive and well. AO-13's telemetry is sent in three forms. The primary mode is digital data sent in a 400 baud, BPSK (Bi-Phase Shift Keyed) stream. This requires a special demodulator. (Such a demodulator is described in "Ham Radio" magazine for April,

1985.) On the hour and half hour, as a concession to tradition, 10 wpm CW reports are made. Then, at 15 and 45 minutes past each hour, RTTY messages using Baudot code at 50 baud, about 60 wpm, are sent. The BPSK message contains the full telemetry suite and narrative messages as well. The birthday greeting in message QTC 001 was sent in five languages. During the first week of its life, AO-13 under went several attitude changes and was spun up to about 45 rpm. These maneuvers prepared it for kick motor firing about a week later. The on-board rocket boosted the 140 kg satellite from its original orbit into a more stable usable one in a series motor firings which will be spread out over the first month. AO-13 carries 4 transponders ranging in frequency from 145 to 2400 MHz. Two of the transponders are broadband, linear repeaters; one is suitable for FM only; one is a type of Digipeater optimized for AO-13 use.

(Continued on Page 12)

ANOTHER CONSERVATION TIP: Save water, put a BRICK in your waterbed.

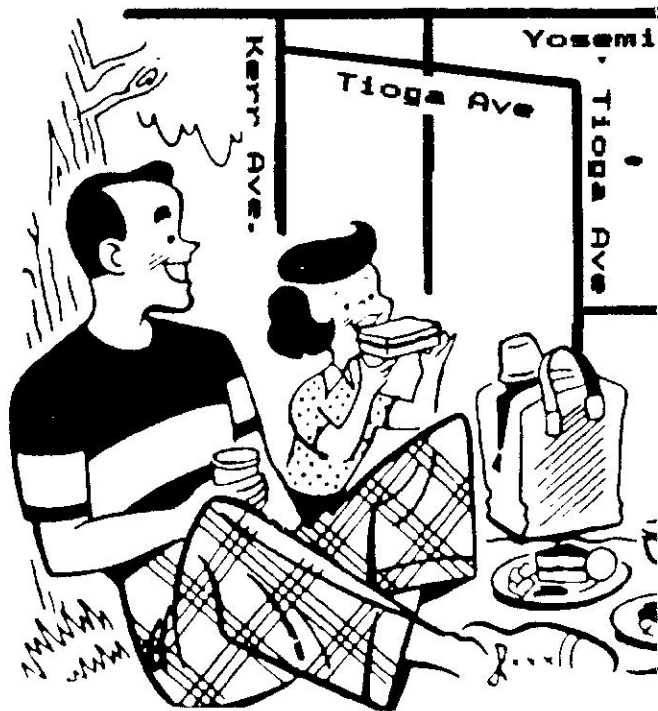


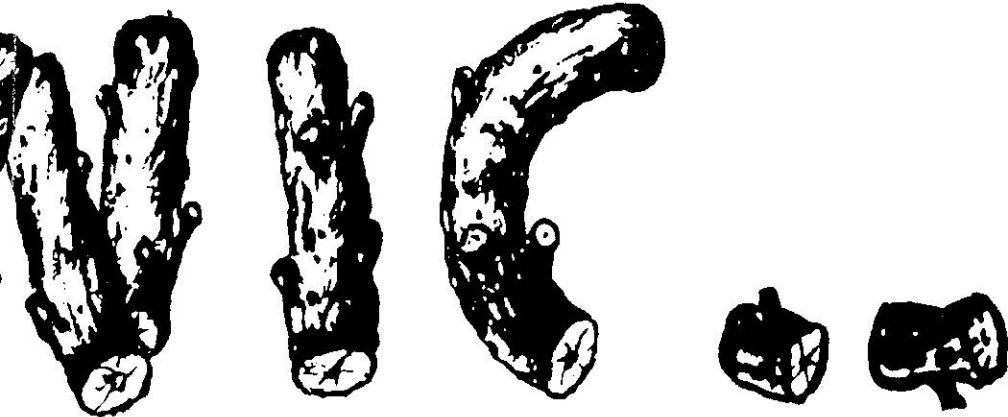
AUG. 6TH 1988

TUOLUMNE RIVER

Soft Drinks
&
Briquettes
provided by
the club!

Tech/Gen's
bring
Main Dishes





3 PM - DARK

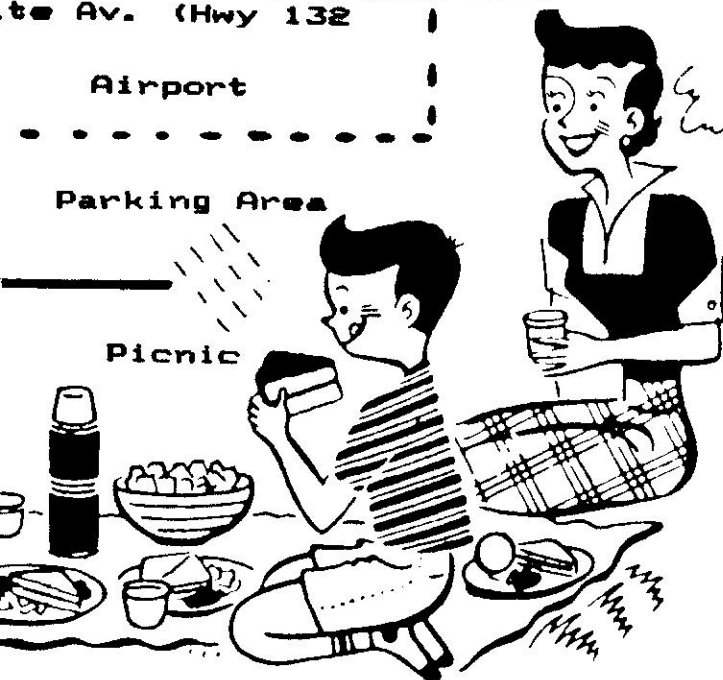
EVER PARK MODESTO

te Av. (Hwy 132)

Airport

Parking Area

Picnic



Advan/Extras

bring

Desserts

Novices

bring

Salads

Details of these transponders can be found in several current descriptive articles in the Amateur Radio print media. Among these are articles in the (June 88) QST and May "73" magazines. AO-13 will be available for general use in about a month to six weeks. An operating schedule will be announced soon. AO-13 was visible in the U.S. for a few days after the launch during the late afternoon and early evening and persisted for several hours. Watch for ALINS Bulletins which include tracking data for various regions. The beacon frequencies are: Mode B: GB: 145.812 MHz EB: 145.985 MHz. Mode L: GB: 435.651 MHz EB: 435.677 MHz For more information on getting started in satellites and on AMSAT membership, call AMSAT at 301-589-6062 or write: AMSAT P.O. Box 27, Washington, DC 20044.

-AMSAT News via Packet

AMATEUR CALL SIGNS

As of June 1, 1988 the following call signs were issued by the FCC in the sixth call district. EXTRA- AA6IV. ADVAN.-KJ6HW. GEN/TECH-N6SIL. NDV-KB6YSO.

meet to sell any items that may be donate toward the club station fund. W66P reported on the VE team. He said the VE team is a separate entity from the club and therefore not responsible to the club. The Educational committee requests the services of the VE team for the testing and the VE team receives all the money. In the past, the VE team has been donating all funds received to the Educational Fund. But, now they have decided to give the funds to the club station fund until further notice. He said the VE team borrowed \$100 from the Educational Fund to set up under the W5YI VEC program and that money has been paid back. Break at 835 pm. Following the break, Dottie, KI6YQ reported on the Incident Command classes. Russ, N6JTA, said that we could take the classes twice a week for two weeks, or, once a week for four weeks. Most preferred twice a week for two weeks. There are about 12 people interested at this time. These classes will begin on the 15th. Listen for details on the net.

(Continued on Page 15)

CHECK THAT POSTAGE!

If you're not careful, your QSL cards and letters destined for Canada may not make it if you don't have sufficient postage. Here are the rates:

TO CANADA

Letters.....30 cents
Postcards (QSL's)....21 cents

TO MEXICO

Letters.....25 cents
Postcards (QSL's)....15 cents

U. S. POSTAGE

Letters.....25 cents
Postcards (QSL's)....15 cents

STOLEN TALKIES

Sometime between noon and 7 pm on June 12, 1988, two walkie-talkie's were stolen from Jack, WA600X, Modesto. Jack believes the radios were taken from his unlocked vehicle while being operated by another member of the family. Stolen was a Kenwood TR-2400 two meter talkie and an ICOM IC3AT 220 MHz talkie. The serial numbers are 1080291 and 15902780 respectively. Both units have been reported to the Modesto Police Department. If you have any information at all please call Jack Smith, WA600X, at 529-0895.

*2000 FINES BY FCC

The FCC has fined eight stores in the Puget Sound, Washington area \$2,000 each for selling illegal radio transmitting devices. Seven of the outlets were fined for selling external CB linear amplifiers, the eighth store was fined for selling a non-FCC approved transceiver capable of operating in, above and below the CB band.

SNOWFLAKES (From Page 7)

snow. After a fine meal followed by more laughing and talking, Chas and Linda said farewell and goodnight and were glad they had made the trip. Everyone agreed that the enjoyable company of good friends made it all worthwhile.



HOW TO GIVE VE TESTS FOR NOVICE & TECHNICIANS

What with all the changes in the Amateur testing procedures, many people are confused as to what they can, or cannot, do in regards to administering Amateur tests.

NOVICE TESTING: To administer a Novice test now requires two examiners holding a General or higher class of license. The test consists of two parts. The first part is the written test which consists of 30 multiple choice questions selected from the pool of 302 questions released by the FCC. The questions cover nine different topics including FCC regulations, operating procedures, elementary electronic theory and equipment generally used by beginning Amateurs. The test (element 2) may be given orally if necessary. The examiners cannot be related to the applicant and may not change any of the questions. The examiners select the 30 questions from the pool. The pool can be obtained from the ARRL and WSYI VEC's, to name but a few. The applicant must get 22 of the 30 questions correct. The code portion of the Novice test is Element 1(A) and requires the applicant to copy Morse code

at a speed of 5 wpm. A word is defined as 5 characters long. The applicant can either copy 5 words per minute correct or 25 characters correct in a row anywhere in the 5 minute test. Or, the applicant can answer 7 out of 10 questions regarding the text of the code transmitted. The questions may vary from fill-ins to true or false, multiple choice or essay. The code may be sent by handkey or by cassette tape. It is not required that the applicant be given a code sending test, although this is optional with the examiners. It is not required that the applicant pass a sending test. The test results are submitted by the VE's directly to the FCC for the issuance of the license.

TECHNICIAN CLASS: To upgrade to a Technician, the applicant must only pass one additional 25 question written test. Passing is 19 out of 25. The pool of questions consists of 288 questions from which the examiners select the 25 questions. It requires three Advanced or Extra class volunteer examiners to administer the

EXAM REQUIREMENTS (Cont)

test and they must be accredited by a VEC (Volunteer Exam Coordinator) such as the ARRL or W5YI. The VEC will supply the tests and code tapes to the examiners, although as of 1987 examiners, they are allowed to design their own tests, if they follow the proper test construction procedures. Your test results are certified by the VE's directly to the VEC who checks them over before passing them on to the FCC for the issuance of the license. The current charge for taking a VEC administered test is \$4.55. The General, Advanced and Extra require 3 Extra Class VE who are accredited by a VEC who obtain their written tests and code tapes from their VEC.



AGENDA (From Page 12)

Bill, WA6OHP, reported on the SARA Picnic to be held on August 6th at the Tuolumne River Regional Park in Modesto starting at 3 pm. It will be potluck with Novices to bring a salad, Tech's and Generals bring main dishes and the Advanced and Extras should bring desserts. The club will supply sodas and briquettes. OHP also reported that will have been asked to provide communications for a bike-a-thon but the date is not know yet. OHP also suggested that Colusa County might be a good site for a future DXpedition. KA6WBY reported that his son Randy, KA6WWT, could get the club a tour of an F-15 fighter plane at Castle AFB. We would need a head count of those interested. We will be asking on the net. N6OCV says he has several programs coming up in the near future. Meeting adjourned at 920 pm. Respectfully submitted by Dottie, KI6YQ.

GOT SOMETHING for the newsletter? Send it to the editor, Bob Pinheiro, WA6ZLO, at 1221 Mist Flower Ct. Modesto, CA. 95355. Packet? C/O W6FGC-2 at Twain Harte, CA.

THE BEST AND WORST PLACES FOR MOBILE ANTENNAS

VHF mobile operation through repeaters is among the most popular and frequent of Amateur Radio operations. Because of variations in terrain, extent of foliage on trees and the generally low power of most mobile rigs, the placement of your mobile antenna on your car/truck needs to be planned with care for maximum efficiency. Poor performance may only be the result of poor location on the vehicle. To start with the best place for your antenna would be in the permanently mounted at dead center of the vehicle's roof. We will use this spot as our reference point and call it 0.0db. All other locations are worse by the following amounts.

MAGNETIC MOUNTS

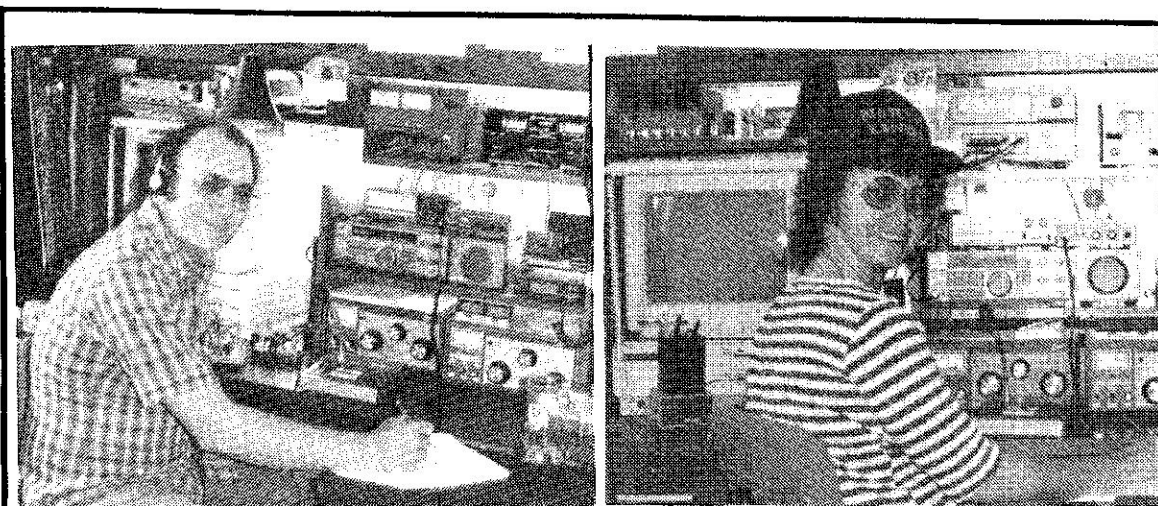
Center of Roof.....-0.2 db
Trunk.....-2.8 db
Hood corner.....-2.4 db
Trunk corner -3.3 db

PERMANENT MOUNTS

Trunk mount.....-2.1 db
Center roof.. (Best)...0.0 db

As you can see, the best is the permanently center mounted antenna and the worst is the magnetic truck corner mount with a loss of -3.3 db which is a reduction of more than half of your ERP (Effective Radiated Power).

-Albany ARA Averill Park, NY
-Worldradio
-Mike & Key ARC, Sacramento



Chas Franklin, KJ6CH & wife Linda Franklin, N6REB

THE AMERICAN RADIO RELAY LEAGUE, INC.

SECTION MANAGER

SAN JOAQUIN VALLEY
Charles P. McConnell W6DPD

The AMSAT Phase 3C satellite was successfully launched at 1119 UTC on June 15, 1988. The launch was flawless. Telemetry is sent to Earth in 3 forms. The primary mode is Digital Data sent in a 400 baud biphase shift keyed stream which requires a special demodulator. On the hour and the half-hour, 10 wpm CW reports are sent. At 15 and 45 minutes after the hour, BAUDOT messages using 50 baud, about 60 wpm, are sent. General beacon frequencies are 145.812 MHz for Mode E and 435.651 MHz for Mode L. Engineering beacon frequencies are 145.985 MHz for Mode E and 435.667 MHz for Mode L. You can listen on these frequencies for the telemetry information.

The satellite is now being prepared for kick motor firing. The kick motors will place the satellite in the desired and planned orbit which is 1500 km by 36,000 km inclined at 57 degrees.

The transponders will be available for general use in about 4 to 6 weeks from June 16, if all goes well. Listen to the WIAW Bulletins and monitor the AMSAT Net frequencies for more information on the Phase 3C satellite.

Documentation for the recent ABU AIL DXpedition, A15AA, AB, and AC, has been received at the DXCC desk. DXCC credit for this operation will be given on QSL cards received at ARRL after May 1, 1988. Documentation for the TY0LC operation has also been received at the DXCC desk. Credit for this operation will be given when confirmations are received at ARRL HQ.

The ARRL is watching closely bills in the House and Senate deemed the Volunteer Protection Act of 1988. These proposed laws would, if passed and signed into law, encourage the States to enact laws reducing the possibility of volunteers being sued for activities undertaken in good faith. This type of law would protect the large number of volunteers in the field. *THE ARRL LETTER* V7 N11.

SINCE 1914 - OF, BY AND FOR THE RADIO AMATEUR

VIGILANTES IN BAY AREA

A group calling itself "D.A.R.E." (for Demand Amateur Rules Enforcement) have organized for the purpose of improving Amateur Radio conditions in the San Francisco Bay Area. They cited the use of abusive and obscene language, malicious interference and failure to identify as the most flagrant violations. A campaign will be mounted to notify the FCC in San Francisco with copies to the Livermore FCC monitoring station and the FCC in Washington. The group list an address as 1442a Walnut St. in Berkeley.

-WSYI Report

HARDHAT MOBILE

Want to improve your walkie-talkie performance? Try a Hardhat mounted antenna. The antenna consists of a quarter-wave vertical radiating element fastened to the apex of a metal hardhat. It appears to be ideal for the ambulatory mode of operation. Although we don't have actual gain measurements, the reports have been quite superior to that of the orthodox rubber duckie. The added gain is attributed to fact that the combination of positive and negative parabolic surfaces of the metal hardhat gives an especially effective fillip to the departing radio waves.

MEET MY SISTER-IN-LAW

My sister-in-law is a slight of tongue artist. The slightest happening starts her tongue wagging. Anything you tell her goes in one ear and over the back fence. She is known as "dame gossip" without the "e". There are four quick ways to spread news. Telephone, telegraph, television and tell my sister-in-law...she never repeats gossip. She starts it!! She has a way of saying nothing that leaves nothing unsaid. If one half of the world doesn't know how the other half lives, it isn't her fault. My sister-in-law can sling dirt faster than four grave-diggers. She can also pickup more dirt than a vacuum cleaner. Keeping a secret from her is like trying to sneak daybreak past a rooster. She is a fair to meddling lady. And how! -Kern Central Valley ARC Bakersfield.

Letters

June 1, 1988

Hello Bob and all:

Here are a few lines from "Shaky Town". Enjoyed your excellent SARA article regarding earthquakes. Thank you for reminding people that no matter where they are in California, they can run, but, they can't hide! Here are a few survivors tales I would like to share with you. Keep a pair of slippers near your bed. Broken glass will be your first problem, and think about children's instinct to run to parents in fear in a tremor.

I think it is a statewide policy to move all emergency vehicles out of doors. The next shake might make the doors inoperative. In the '71 Sylmar event, the Olive View Hospital collapsed on the ambulances below. Consider your options and think about moving your vehicles to a safe spot. Designate an out of the area relative as an "Information Officer." During the Whittier event recently, it was easier for us to dial out than for concerned relatives to dial in. After a quake, call the designate relative and leave the information. Relatives can then get immediate access without busy signals without adding to the emergency phone burden. In California, working mothers and fathers can be 30 or more miles from their children. Fathers are in flight or on the road. Give the kids the designated relative's phone number and everyone can connect.

Also a few words about the media. Since sensationalism and other less than professional attitudes are now the norm and not the exception, we must make our older or out of state friends and relatives aware that the news they are getting may not accurately reflect the true situation. My co-workers are from all over the U.S. and Canada. Their relatives elsewhere were terrified by a news tease like "The big one!" or, "A big one hits L.A., more news in 10 minutes or film at 11. The print media wasn't much better! 73's from your Southern California correspondent.

s/s Jack Hamilton, WD6FVQ
Glendale, CA.

VE Test
Sponsored by



County Center 3

August 25, 1988
(Night Session)

630 pm - 20 wpm
700 pm - 13 wpm
730 pm - 5 wpm
800 pm - Written
Tests.

August 27, 1988
(Saturday)

900 am - 20 wpm
930 am - 13 wpm
10 am - 5 wpm
1030 am - Written
Tests.

Modesto

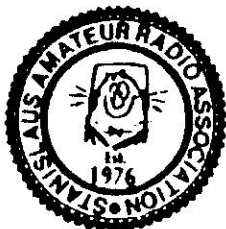
Contact Person

KI6YQ
537-2785
Walkin's OK

CALENDAR

July	19,	1988.....	SARA Monthly meeting.....	730 pm
Aug.	16,	1988.....	SARA Monthly meeting.....	730 pm
Aug.	20,	1988.....	Sierra Hamfest in Reno.....	All Day
Sept. 9-11,		1988.....	ARRL National Convention Portland, Oregon.....	3 days
Sept.	20,	1988.....	SARA Monthly meeting.....	730 pm
			Program: Railroading with Jim Johnson.	
Oct.	15,	1988.....	11th Annual SARA Dinner-Dance Oasis Restaurant, Modesto...	630 pm
Oct.	18,	1988.....	SARA Monthly meeting.....	730 pm
Nov.	15,	1988.....	SARA Monthly meeting.....	730 pm
Dec.	20,	1988.....	SARA Monthly meeting.....	730 pm

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.



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