



MARCH/APRIL 1997

THE READOUT

The Stanislaus Amateur Radio News

21 YEARS OF SERVICE TO THE COMMUNITY

The Official Newsletter of the Stanislaus Amateur Radio Association

ARRL, NEWSLINE and ARRL PACIFIC DIVISION UPDATE, PLUS SPECIAL !!!

ARRL NEW TOLL FREE NUMBER

SB QST @ ARL \$ARLB011 ARLB011
FCC new toll-free number

ZCZC AG11 QST de W1AW ARRL
Bulletin 11 ARLB011 >From ARRL
Headquarters Newington CT February
21, 1997 To all radio amateurs

SB QST ARL ARLB011 ARLB011 FCC
new toll-free number

The FCC has designated a new, toll-free (WATS) number for Amateur Radio license inquiries--including inquiries about vanity and new call signs. The new number, 888-225-5322, will connect callers to the FCC National Call Center, handled by the FCC's Consumer Information Bureau.

Callers to the old consumer information number will get a message referring them to the new number. NNNN

WHICH CAME FIRST

by n6ugh

Which came first the ham or the antenna? What good is a ham without the antenna, and what good is a antenna without the ham. This is like the race car driver without the race car. One is no good without the other. With this line of thinking, why would a ham with forthought and planning move into an area that would not allow antennas. Why would a ham move into an area that even had antennas restrictions. IE: height, size, placement, etc. Would a wife that sews a lot move into a place that did not allow a sewing machine (yes I know this is not likely but follow me here). Then why do hams move into areas that

ARRL PACIFIC DIVISION UPDATE SPECIAL EDITION -

FEBRUARY 17, 1997 by Brad Wyatt,
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www.pdarrrl.org/](http://www.pdarrrl.org/)

Little LEO Threat to 2 meters, 220 MHz
and 70 cm.; Action Needed NOW:--

It is critically important that we all send e-mail to FCC again to support the ARRL/AMSAT position which opposes the Little LEO threat to 2 meters and 70 cm., and as of February 13, 1997, - 219-220 and 222-225 MHz as well!

At the February 13, 1997 meeting of FCC Informal Working Group (IWG) 2A that has been preparing draft proposals for the 1997 World Radiocommunication Conference (WRC-97), little LEO (low-Earth-orbit) proponents for the very first time proposed including 219-225 MHz in their list of desired allocations for their non-voice non-geostationary (NVNG) mobile-satellite service (MSS).

The little LEOs' strategy for WRC-97 is to propose broad allocations on the theory that most administrations would find reasons to oppose little LEO use of specific bands in the crowded spectrum below 1 GHz, but that a broad allocation would permit different implementations in different countries depending on local circumstances. Their document is identified as IWG-2A/86(Rev. 6).

ATTENTION

by n6kmr

Well how do we start, I have asked for several articles for the Newsletter this month. I have not received any from any one that's a registered voting member of our club. All articles in this issue are from past members or past members who have not rejoined.... Excluding the secretaries report... (thanks Barb they are pleasure to read and understand!) Why do I ask ? Why do I put this Newsletter out ? This is Your club and Your newsletter, Why do past members want to send in articles for publication? Those of you, who whom I have asked for a few simple articles about your uagenda and your results of the walks, floods, or committee that you are head of, or any other ham radio items of interest. That would be a great interest to club. And never sent them in or failed to notify me that your too darn busy to write them , just thanks. When you read other Newsletters out there in our local community, and there input of members to there newsletter, this leaves our club to shame!

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STANISLAUS AMATEUR RADIO ASSOCIATION January 21, 1997

The regular meeting of Stanislaus Amateur Radio Association was called to order at 7:32 P.M. by President Ed KF6FIR. Ed thanked his predecessors Jim N6UGH and Mike W7MH for jobs well done. Ed presented a T shirt to Mike as a parting gift. Mike said he can now say "been there done that" and thanked Ed for the T shirt. Introductions were performed and there were 21 people in attendance. Agenda-President Ed read the agenda for the meeting. Officers reports-Duane KF6BPA reported that the Ham classes that had to be postponed was being worked on and we already had some volunteers that would come in to teach. Barbara KE6SUM reported that we have some slots left to fill but a lot of the more experienced Hams are stepping forward to help. Treasurers report-Bob KC6TVE gave the report. Total year ending income \$3878.00, Expenses \$3169.00, check book balance \$3152.00. The Readout was \$222.00 over budget and maintenance was \$130.00 over budget because of PL equipment that had to be installed.

Technicians report-Leroy NV6S was absent. Communications-none Presidents Report-Ed KF6FIR said he is working on matters coming up at future meetings. Ed KF6FIR introduced Ernie W5NH and asked if he would give us a synopsis on the events that transpired during the recent flood. Ernie thanked the SARA club members for all their hard work helping out at the disaster. Ernie gave a description of the events that happened at the OES headquarters at the time of the flood. Communication was vital and Ham Radio played a major role as the phone lines were tied up in the area. Equipment needs to help out in a disaster as Ernie explained are a radio, antenna, and lots of batteries, also a good book for idle time when things calm down. Old business-Club call sign. Mike W7MH reported that he needs Leroy's NV6S signature on the paper work to send it in and he will get that as soon as possible. Calendar of Events-Up coming events will possibly include field day, Tour de Cure, May 17, March of Dimes, April 26, Octoberfest, Canyon Classics, Wine and Cheese Festival, DX QSO party. Break at 7:55 P.M. for 15 minutes 8:10 PM

reconvened. Suggestions-The suggestion box was opened for suggestions from the members. Suggestions were made to have the dues be payable in the middle of the year instead of at the beginning of the year. A Special Events station was also suggested. John KE6VET suggested a Public Awareness Day for better public exposure of Ham radio. Earth Day at Graceada Park in Modesto was suggested as a possible day. Jim KE6HVB suggested a higher profile at field day. Ernie W5NH, suggested a show and tell type of workshop to show new or old equipment. Larry, WB6GJT, suggested that the upcoming agenda be put on the net and in the papers as to the upcoming workshops and events. It was also suggested that the club take a Saturday and visit other people's Ham Shacks to see the different set ups that people have. February workshop after the meeting will be on J poles and their construction, 2 meter, 440, and a tri-band. Ernie said he will bring a J pole to the meeting. March workshop will be a demonstration of packet radio and keyboard to keyboard conversations with hands on experience. Announcements-Mike W7MH, announced that Mike Segal KI6PR, has retired as Section Manager the new Section Manager is Don, AB6TA. We would like to welcome two new members to the club, Neil Obus, N6CWK of Ceres, and Ken Stillwell, KF6IDK, of Gustine. Motion was made by Jack, KE6SUO to adjourn seconded. Meeting adjourned at 8:48 PM. Respectfully Submitted by Barbara KE6SUM, Secretary

STANISLAUS AMATEUR RADIO ASSOCIATION February 18, 1997

The regular meeting of Stanislaus Amateur Radio Association was called to order at 7:40 P.M. by President Ed KF6FIR. Introductions were performed and there were 23 people in attendance. Officers reports-Duane KF6BPA reported that the Ham classes started last week and were going good. Secretary's report-Barbara KE6SUM reported that there were 23 people signed in for class and more came later to a standing room only crowd. We could use more help for some other chapters. Treasurers report-Bob KC6TVE was absent Barbara KE6SUM

date income \$861.50, Expenses \$46 9.53, check book balance \$3544.35. Technicians report-Leroy NV6S reported that the decoder for 6 meter and 220 will have a *5 option so people could access it without the PL tone in their radio's. He is looking for a 430 receiver and will hook that up when he gets it. The 6 meter Identifier died and will check on that when he goes up the hill. Leroy also reported that the Crop Walk will be on March 9, 1997 starting at 12:30 PM starting at the College Ave. Congregational Church it will take approximately 4 hours. He asked for help for a net control, and sag wagon. Jim KE6HVB Volunteered for net control and Charles KF6FOP volunteered for the sag wagon so both slots were filled. Presidents Report- Old business Ed KF6FIR reported that the new Call sign of W6ERE has been issued to the club. Leroy NV6S has not received it in the mail as of yet. Workshops coming up will be: March Packet Radio, April Shack safety. Anytime anyone would like to they could bring in any radio so people could look at it. Dave W6PS said he would contact Chuck KE6AGO about shack set up films that he had made. Future topics suggested could be Log books the advantages, and disadvantages, HF rig setups and the accessories for them. Break at 7:55 P.M. for 15 minutes 8:10 PM reconvened. Suggestions-The suggestion box was opened for suggestions from the members. Workshop-Antennas were the topic for the workshop, with demo's by Ernie W7NH, John KE6IVV, John KE6VET, Jack KE6SUO, and Ed KF6FIR. Different types of J poles were shown, the component parts, and the making of an emergency J pole. John KE6VET showed his portable mag base stand and explained how it was constructed and broken down to be totally portable and compact. Handouts were given with directions on how to build all the equipment that was shown at the meeting. Ed thanked everyone for their participation. We would like to welcome two new members to the club, Neil Obus, N6CWK of Ceres, and Ken Stillwell, KF6IDK, of Gustine. Motion was made by Leroy NV6S to adjourn seconded. Meeting adjourned at 8:43 PM. Respectfully Submitted by Barbara KE6SUM, Secretary

At the February 13 meeting, a coalition of spectrum interests including land mobile, amateur, broadcasting, and military representatives opposed the flexible allocation concept on three grounds: that the concept is simply an invention to avoid performing technical sharing studies that would demonstrate the infeasibility of sharing, that it is inconsistent with decades of ITU allocations practices, and that if adopted, the concept would be counter to U.S. interests. The coalition document is identified as IWG-2A/107.

The ARRL and AMSAT submitted a further statement of opposition, citing the absence of any technical studies that might support sharing with the amateur service or the amateur-satellite service and pointing out that the little LEOs have completely mischaracterized the nature of ITU Resolution 640 regarding the use of certain amateur bands in the event of natural disasters. The ARRL/AMSAT paper, revised to reflect opposition to the late proposal to include 219-225 MHz, is identified as IWG-2A/108(Rev. 1).

Also of interest to radio amateurs will be the comments of the Department of Defense, identified as IWG-2A/101(Rev. 1), as they address sharing problems in the 430-450 MHz bands.

Here is what you should write to FCC now to support the ARRL/AMSAT position contained in (IWG-2A/108 Rev. 1):

Send a brief e-mail message to:

Address: wrc97@fcc.gov. Subject line: "Reference No. ISP-96-005 IWG-2A."

Message should, at least, say: "I support the ARRL/AMSAT opposition, as stated in IWG-2A/108(Rev. 1), to the NVNG MSS flexible allocation proposal".

Any additional arguments or evidence you may wish to provide would, of course, also be welcome.

Your comment will be included in the public record and will be helpful in driving home the point that there is broad-based opposition to poorly conceived sharing proposals.

NOTE: The proposals the ARRL/AMSAT opposes are NOT FCC

proposals, nor are they endorsed by any other branch of the government. They are industry proposals. The ARRL/AMSAT objective is to demonstrate there is broad citizen opposition to the industry proposals, so the government will not adopt them as U.S. proposals. So, please don't "flame" the FCC if you comment.

IMPORTANT: COMMENTS SHOULD REACH THE FCC NO LATER THAN MARCH 4, 1997.

FINAL NOTE: The complete text of these four documents can be found in the ARRL WWW site at <http://www.arrl.org/>. Locate the "Band Threat News" section, then find the Feb. 14, 1997, entry. At the bottom of this entry is a link to these documents.

For those of you who do not have access to the ARRL WWW site, I am obtaining ASCII versions of these documents and will be happy to send them to you via e-mail. I have IWG-2A/101(Rev. 1), 107, and 108(Rev. 1) in hand. Unfortunately, the document which started all this is the one from the Little LEO folks --- IWG-2A/86(Rev. 6). It is some 21 pages long, double spaced, and full of tables and footnotes - hence difficult to put into ASCII format. Thanks to Paul Burton, AA6Z, and Jim Maxwell, W6CF, Vice Director, for their efforts in making these documents available in ASCII format.

ARRL PACIFIC DIVISION UPDATE

MARCH, 1997 by Brad Wyatt, K6WR, Director, Pacific Division, ARRL 18400 Overlook Rd. #5, Los Gatos CA 95030-5850 (408) 395-2501 (Phone and FAX) Packet: K6WR@N0ARY.#NOCAL.CA Internet: K6WR@arrl.org WWW Pacific Division Home Page -- <http://www.pdarrrl.org/>

W6JZU Wins ARRL International Humanitarian Award:-

I had the pleasure of making the following motion at the January 1997 ARRL Board meeting, which read in part - the ARRL Board of Directors "...hereby confers upon Dr. Robert C. Smithwick, W6JZU, and Mr. Ken Kirk-Bayley, GJ0KKB, cofounders of MediShare International, the ARRL International Humanitarian Award for 1996..." The story of MediShare

told starting on page 41 in the February 1997 QST. Smitty is an Assistant Director and Past Vice Director of the Pacific Division. Congratulations, Smitty and Ken, for a fantastic effort!

Thanks to All for Great Work During the Floods!:-

To all in the Division who helped during the floods, thanks! There are many great stories. Please get these reports to your Section Managers and to ARRL HQ (Jennifer Gagne, N1TDY at n1tdy@arrl.org).

Avalanche of New Antenna Ordinances:-

There is a huge new wave of antenna ordinances being proposed by cities and counties. These ordinances are being driven by the spectrum purchases and by new and expanding Cellular and Personal Communications Services licenses. All of us need to be aware of this trend. When you first sense any of this action in your community, contact your Section Manager, the ARRL Regulatory Information Branch, and me immediately so that we can get help to you and the rest of the hams in your community. The key to a successful defense is to separate the commercial interests from Amateur Radio in the minds of the city officials. It's vitally important that your city or county officials understand Amateur Radio involvement with emergency communications - this story must be told repeatedly, especially before the antenna ordinance crisis develops! Just two examples of ARRL Volunteer Counsel (VC) action in this arena - Lee Dibble, KE6EAO, VC in Santa Rosa, has been waging a successful battle for the hams in Sonoma Co. and its cities. Phil Kane, K2ASP, Division VC Coordinator in Redwood City, has been engaged in Millbrae, Hayward, and other areas.

ARRL WRC-99 Committee Report Released; Proposes New Licensing Plan:-

The ARRL WRC-99 Committee Report has now been released. The full report is available on the ARRL Web site. A full discussion will appear in March QST at page 55. The report is based in part on an analysis of the recent ARRL survey, as reported on page 54 of February QST. One of the results that is receiving a great deal of attention is

ARRL

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that most amateurs want to retain some form of code requirement for access to the HF bands. From ballots received for the Pacific Division, it is clear that we are very consistent with the nationwide results. Thanks to all in the Division who completed and returned the QST questionnaires. Also appearing in the report is a proposal, still in the talking stages, for a new licensing structure for US hams. Remember, this is only a proposal. Please read this proposal and offer your comments to ARRL and to me.

Pause in Issuance of Vanity Calls:-

Gate 2 for Extra Class licensees opened on Sept. 23, 1996, as has been reported previously. Gate 2 opened with a roar, with approximately 4,500 calls issued on Nov. 5, 1996, and many more in the days following. Then, on Dec. 19, 1996, FCC called a halt to the program, as they began to work off a large backlog of "problem" applications. There is no word as to when the program will resume. ARRL has established a one-stop vanity call sign page at <http://www.arrl.org/fcc/vanity.html>.

Five (5) VHF, UHF and Microwave Bands Now Under Active Challenge:-

2m/70cm Band Threats --

The Little LEO folks have changed their strategy at 2 meters. They no longer appear to be studying the entire band from 144 to 148 MHz, but rather are now focusing on 146 to 148 MHz. This is because 144 to 146 MHz is an exclusive amateur allocation worldwide, while 146 to 148 MHz is not. Meetings are held on a regular basis by the U.S. State Department, the FCC, and other governmental agencies, discussing the Little LEO proposals as well as a host of other matters. The purpose of the meetings is to establish formal U.S. policy on matters of this sort. The ARRL participates in these meetings, representing the interests of the amateur radio community. It now seems possible that the U.S. delegation position for WRC-97 may NOT include support for Little LEO access to these bands, but the threat could come from somewhere else.

editorial on p. 9, Feb. QST; ARRL Letter, Vol. 16, No. 6, Feb. 7, 1997. The Federal Emergency Management Agency (FEMA) has issued a statement supporting the hams' continued use of the 2 meter and 70 cm. bands. However, another challenger has appeared: NASA/JPL and other space agencies are looking at the 70 cm. band for a satellite-carried synthetic aperture radar system (see page 72 of January QST).

So WHAT do we do now?

1. Monitor the progress of this unfolding drama!

For the latest news on this volatile issue, read QST, Pacific Division Update in hard copy. Read ARRL Letter, Pacific Division Update on e-mail; visit Pacific Division WWW site. Visit the ARRL home page at <http://www.arrl.org/> and select "Band Threat News."

2. Join ARRL!

The ARRL is the only effective national organization fighting for YOUR 2 meter and 70 cm. operating privileges. It is easy to join and help us win this battle to preserve our privileges.

3. Contribute to the Fund for the Defense of Amateur Radio Frequencies! (See page 76 of October QST for all the details.)

Unfortunately, the future of these threats is uncertain. We won't be able to breathe easily about WRC-97 issues until the final gavel comes down on Nov. 21, 1997.

1296 MHz Band Threat --

Nothing new to report since the February 1997 Pacific Division Update.

2300-2310 MHz Band Threat --

The ARRL petition to keep our secondary status at 2305-2310 MHz and asking for primary at 2300-2305 MHz is still awaiting action by FCC. There seems to be a real chance that this just might work. See Jan. QST, p. 16; Feb. QST, p. 16 and the ARRL WWW site.

5800 MHz Band Threat -- New Sharing Services in 100 MHz of Band --

The new sharing service described in the Pacific Division Update for February 1997 has not changed, so it appears this

called a U-NII device (Unlicensed NII) will stand. This additional sharing service comes as a result of NPRM ET Docket 96-102, based on petitions from Apple Computer and WINForum. The petitions asked for access to the 5725-5875 MHz band for the NII/SUPERNET proposal for free spectrum. They proposed to use the spectrum for very high data rate LANs and other services for schools, libraries, and hospitals. ARRL and many other commenters opposed this NPRM. There may yet be petitions for reconsideration filed.

Pacific Division WWW Site has been Revitalized:-

Through the efforts of webmaster Randy Foutch, KE6HCI, the Pacific Division Web Page has been revitalized. See - <http://www.pdarrrl.org/>.

Awards and Scholarships:-

There are many awards and scholarships covering a wide range of situations available to licensed Amateurs. For example, the ARRL awards include the International Humanitarian; the Herb S. Brier Instructor of the Year; Professional Educator of the Year; Professional Instructor of the Year; Excellence in Recruiting; Phil McGan Memorial Silver Antenna; Hiram Percy Maxim Memorial; Field Organization Volunteer of the Year. Contact the Field Services Dept. at ARRL HQ for details. The Foundation for Amateur Radio, Inc. plans to administer sixty college scholarships for the academic year 1997-98 to assist licensed Radio Amateurs. Additional information and an application form may be requested by letter or QSL card, postmarked prior to April 30, 1997 from: FAR Scholarships, 6903 Rhode Island Avenue, College Park, MD 20740. The Dayton Amateur Radio Association is now accepting applications for its 1997 college scholarships. Amateur Radio licensees graduating high school in 1997 are eligible for \$2000 scholarships. Interested students should send a self-addressed, stamped envelope for an application to DARA Scholarships, 45 Cinnamon Court, Springboro, Ohio 45066.

Coming Events:-

- Livermore Swap Meet - 1st Sunday of each month at Las Positas College

These amateur radio operators are using the 220 MHz band during a severe weather outbreak in Alabama. The hams are members of a Skywarn net, relaying spotter reports to the National Weather Service from areas nearly a hundred miles apart. The 220 band here is being used to link distant areas together, so that emergency weather information can be relayed quickly. But hams say they may lose this capability if commercial users are allowed to move in on their frequencies. That prospect worries National Weather Service meteorologist Brian Peters, WD4EPR, who works closely with spotter groups:

"I know in Alabama, and in a lot of other states the amateurs are making tremendous public service contributions to the safety of people as severe storm spotters. And without some of those amateur bands, the entire spotter program could come to a screeching halt." Peters

Ron Arant, N4PHP, owns a 220 repeater used during emergencies.

"We have taken reports of tornadoes on the ground over the 220 band. Without that repeater that report would not have gotten to the weather service in realtime. It just wouldn't have happened." Arant

James Spann, WO4W, is Chief Meteorologist at ABC 33/40 television. He calls the idea of for-profit businesses using amateur frequencies absolute insanity:

"If our 220 MHz band is taken away completely, it has been chopped down over the years, right now that band serves as a crucial band for emergency service work in many parts of the country. Many areas using that for Skywarn, some areas use that for digital links, some areas use that for remote base and linking. If we lose 220, that is going to have a huge impact on emergency services and public service work in amateur radio." Spann

The Weather Service's Brian Peters sez hams don't have many frequencies available for use as it is. The Weather Service's mission is to save lives by providing early warning of dangerous weather. If the 220, 2 meter or 440 MHz bands are given to commercial users, Peters sez it won't just be hams who are the losers. but the public.

One comment in particular during David's report points up the difficulty likely to be posed if hams had to share their frequencies with commercial businesses like the little LEOs.

Many amateur radio repeaters use programmable remote base systems to provide emergency communications. While the repeaters operate on single, fixed frequencies, the transmitters on the remote systems can be set to operate on various frequencies that way, repeater users can link up to different areas during emergencies.

Amateurs in the Alabama Skywarn effort tell us this is one more reason why they consider commercial services like the LEOs moving into amateur bands as a lousy idea.

(Via Newsline)

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FRENCH CW

Last week we reported that France has terminated the use of the Morse code for its maritime operations and will no longer even monitor for distress messages in cw. This also raises the question of what position France will take when the subject of continued ham radio Morse proficiency when it comes up at the 1999 World Radiocommunications Conference.

An answer may be found in the February 1st W5YI Report newsletter. It quotes highlights of an ARRL July 1996 Board Meeting report that says the League has the option of seeking the support of the U.S. government and other International Amateur Radio Union members to try and avoid having the matter brought up for discussion in 1999.

But the same report says that the national ham radio societies of Canada, the United Kingdom, Germany and Japan have already indicated that they are not intending to take such a position. This, because they believe the telecommunications administrations in their nations are no longer interested in continuing to support mandatory CW testing as a treaty requirement.

Now consider that France has traditionally held very close ties to Canada and the two tend to be politically

guess on our part, the deletion of mandatory Morse testing could conceivably be another.

(Via W5YI Report, Newsline)

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HAMS ASSIST AT PERU MUDSLIDE

Some late breaking news. Word that ham radio is reported to be providing communications in the wake of a mudslide has buried dozens of homes in the isolated Andean region of Peru. As we go to air, at least 14 people are dead and another 185 are reported missing.

According to news reports, the river of mud hit two towns in the Tamburco district, 300 miles southeast of the capital on Tuesday, February 18th. Reports relayed by radio amateurs say that fourteen of the dead were found in the town of Ccocha.

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FCC RESUMES VANITY PROCESSING

Vanity call sign processing under Gate 2 of the FCC program is back in operation. The FCC's Gettysburg, Pennsylvania, facility has now processed vanity applications received from December 1st, 1996, through February 5th, of this year. In all, slightly over 2400 applications were processed. Unfortunately, only half of the applicants managed to successfully snag one of their call sign choices.

The FCC says that it issued 1344 vanity calls from this batch. Another 1000 applications ended up in the dreaded work in process stack for special handling.

Vanity call sign applications continue to arrive at the FCC. Gate 1 opened last May, Gate 1A opened in July and Gate 2 opened in September. There is still no word on when the FCC plans to open Gate 3.

(Via FCC, ARRL)

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FCC SAYS ALL CELLULAR MODS ARE ILLEGAL

The FCC has declared that any modifications made to any receiver that permits it to receive the cellular telephone band is illegal. In a public

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from page 4

in Livermore, CA, 7:00 AM to noon, all year. Talk in 147.045 from west, 145.35 from the east. Contact Noel Anklam, KC6QZK, (510) 447-3857 eves. - The Kings ARC Hams and Hackers Swap Meet will be held starting at 9:00 AM at the Hanford Fraternal Hall in Hanford on Saturday, March 15. Contact Rick, WB6VFZ at (209) 945-2266 or 583-9377. Talk in 145.11, 147.33, 224.44, 441.900. - Foothill Flea Market - 2nd Saturday of each month from March to September at Foothill College, Los Altos CA. - The 1997 International DX Convention will be held at the Holiday Inn, Centre Plaza, 233 Ventura St., Fresno CA 93271, (209) 268-1000, April 4 - 6, 1997. Contact Gordon Gorton, W6NW, P. O. Box 60307, Sunnyvale CA 94088-0307 or gordon@sypal.org for details. Pre-reg. prior to Mar. 3 is \$60 including Saturday evening banquet; after Mar. 3 - \$65. - The Valley of the Moon Amateur Radio Club, WB6DWY, is holding its annual ARRL Hamfest Saturday, April 26, 1997, from 8:00 AM to 3:00 PM at the Sonoma Development Center, 15000 Arnold Dr., Glen Ellen, CA. Talk-in will be on 145.35, PL 88.5. For more information call Darrel,

which came first?

from page 1

don't allow antennas just because the wife wants to move. If a ham is retiring then why would this ham move into an area that would not allow antennas. At a point in life when a ham will be using his ham equipment the most, why would this same ham move into an area that would prohibit such use? O well, I guess this is just one of lifes many unanswered questions. N6UGH JIM PATTERSON, CA ...

This space was left for Your President to respond and to place an article in but at this time I never seen it, nor heard that he was sending it... so tell him he forgot ... HA HA HA .. the editor is crazy

Also asked w5nh Ernie to send and article to, for an update on the flood and such, But as you see he forgot. hi hi hi..

HAM RADIO vs INTERNET

Is the Internet killing ham radio? In the last readout N6KMR stated that there are more hams on the Internet than on packet or radio. Is this the future for ham radio? I guess the Internet is quicker than ham radio. Real time chats can take place anytime to anywhere. But, is this the same as ham radio. Can someone looking at the computer screen really tell anything about the person on the other end? When talking to a ham halfway around the world on HF a lot can be envisioned about that person. When listening to that persons actual speech tells a lot about that person. There are many hams around the world that I can tell who they are just by hearing their voice. The same can be said about CW. Once you hear the "fist" of another ham it is just like hearing that hams voice. Listening directly to the person on the other end really puts you in touch with that person. You can hear emotional and mode changes that the keyboard just can't pick up. So in the spirit of ham radio, lets keep it alive. Send your e-mail to Uncle Henry on the Internet, but, dust off that HF rig and get out there and talk (SSB or CW) to someone. N6UGH _ _ _

5 attention

Not only by articles but by merely by attendance of the meetings. I have not heard how good the new club classes are going, nor have I heard how many are there in this class. I can send all of you clips from other news gathering sources. Is this what you want? Your the first one to complain but to do something is another story! So members if you recognize one whom would of put an article in this newsletter tell them that you missed it. Maybe I should place eight pages of nothing but place art and bold print out to you all and make the club pay for, maybe this would get your attention. Also I also have a busy schedule too as I'm self employed and don't punch no time clock !.... PS if you don't want a newsletter let me know I'll kill the thing and stand back and watch this ham radio do nothing but complain from the easy chair club go down the drain!!!! Get Off Your Butt....

Respectively your editor....Jim Hertel , n6kmr.

To those who have contributed to this newsletter and such **THANK YOU**...ever so much!!!!Jim/ n6kmr

SARA Membership Application

Call : _____ Date: _____

Name: _____

Address: _____

City & State: _____

Zip Code: _____ ARRL Member?: (yes) (no)

Home Phone: _____ Alt Phone: _____

Occupation: _____

Date Of Birth: _____ Clas Of Lic: _____

Year First Licensed: _____

Dues: Renewal \$23.00 per year. Out of area more than 150 miles from Modesto is \$11.00. New first time applicants dues are pro-rated from the month you join the club. Use \$1.91 times the number of months remaining in the year. I.E- You join in July = $6 \times \$1.91 = 11.46$

SARA, repeaters are, on MT.OSO... 2mtr > 145.390 pl 136.5, 220band > 224.14 pl 136.5, 440 band > 440.225 pl 136.5, 6mtr. > 52.800 , packet> SARA> 144.91 and 145.65 TCP/IP&ax25 radio mailbox & Internet e-mail... Internet address > Sam@modesto.n6kmr.com Web page > [HTTP://WWW.ishwanet.com/~n6kmr](http://WWW.ishwanet.com/~n6kmr)

NEWSLINE # 1019 2/27/97

The following is a QST

The Little LEO satellite industry expands its war against ham radio. It wants our VHF and UHF bands for corporate profit. Learn how we can fight back on Newsline report number 1019 coming your way right now!

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LITTLE LEOS DECLARE WAR

The same industry that has already targeted two meters and 450 MHz for sharing now wants even more ham radio spectrum. The Little LEO satellite industry says that it wants access to 219 to 225 MHz in addition to the two other bands. The satellite people see billions in corporate profits that they can start using all the amateur frequencies from 144 to 450 MHz.

The Low Earth Orbiting satellite industry that is seeking access to amateur allocations at 146 and 430 MHz has now added 220 MHz to its wish list. The move announced in what the satellite industry calls its flexible allocation proposal. That proposal was delivered at the February 13th meeting of FCC Informal Working Group 2A. In it, the Little LEO industry specifically targets the ham bands from 146 to 148, 219 to 225 and 430 to 450 MHz for shared use.

The ARRL and AMSAT were among those objecting to the idea. A joint statement says that the latest proposal affecting amateur allocations in the 219 to 225 MHz segment came at the last possible moment and without any technical support whatsoever.

The League and AMSAT point out that the little LEO supporters have had more than a year to complete a technical study of the possibilities of sharing with the amateur service in the 144 to 148 MHz and 420 to 450 MHz bands. Both organizations conclude that the Little LEO people have not demonstrated compatibility for sharing these amateur bands.

Now to speak editorially. The ARRL is urging those who agree with its position, that's you and me, to comment to the FCC by March 4th. This is because FCC Informal Working Group 2A has been

Radiocommunication Conference which will be reviewed at a March 5 meeting of the FCC's WRC-97 Industry Advisory Committee. That committee is the one preparing draft proposals for consideration by the United States as it gets ready for the 1997 conference.

Anyone wishing to register support for the joint ARRL and AMSAT submission and to file in opposition to the Little LEO position should send a brief e-mail message to:

wrc97@fcc.gov

The Subject line should say

Reference No. ISP-96-005 IWG-2A

All that's needed is a simple statement such as "I support the ARRL and AMSAT opposition to the flexible allocation proposal." The ARRL says that these will be included in the public record and will help to drive home the point that there is broad-based opposition to poorly conceived sharing proposals.

And with time running out, here's another way we have thought up to fight back. Its one you won't hear suggested by the ARRL, but it can work well if you know exactly what to say.

Why not enlist the direct of the American public? The quick and inexpensive way is by phoning into the thousands of radio talk shows around the nation and telling our side of the story.

Going on the talk show circuit should only be attempted if you are a truly articulate speaker and well versed in what the Little LEO industry is trying to do. Target talk programs at night that have high ratings and shows that often discuss technology issues. Have a brief plain English statement ready to read that explains why our needs must be protected. Avoid using ham radio jargon in it like QSO or QTH that the host and public won't understand.

Most talk shows have at least one day of open lines where the general public can voice its opinions and gripes. Its' the perfect opportunity for radio amateurs to call in and warn the general public about the Little LEO plot to grab frequencies that are now used by hams to help save lives. It's also where hams can urge the general public to write to the FCC

with the satellite community. And don't forget to give them the:

wrc97@fcc.gov

e-mail address.

Also please note that what we all oppose are not proposals from the FCC. Nor are they ideas that are endorsed by any other branch of the government. Rather, these are Little LEO satellite industry proposals. The League's objective is to demonstrate to the government there is broad citizen opposition to the Little LEO industry proposals, in the hope that the government will not adopt them as a United States position. So, please be supportive of the FCC in any comments that you file or anything you say on the talk radio air.

Spread the word as quickly as you can.

The complete text of the ARRL and AMSAT opposition statement and other comments is posted on ARRL Web page at:

<http://www.arrl.org>

under "Band Threat News." Read it if you plan to file extensive comments or to take the issue to the public via the talk show circuit.

(Via ARRL, AMSAT-NA, Spectrum, Airwaves, ANW, Newsline)

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WHAT SHARING WILL MEAN

If hams do wind up having to share the 2 meter, 220 and 440 MHz bands with little LEO satellites, there's a good chance that amateur radio operations on those bands as we know them today will become a thing of the past. That's because hams will probably become secondary users on those frequencies. And that means even inadvertent interference from amateur transmitters won't be tolerated.

So, what could all this mean in terms of FM, repeaters and public service on those bands? In some cases, life saving communications services many hams provide will likely have to stop.

"The storm is located at the Smiley and Wells?" "I said Smiley and Boot Hill areas." "We'll pass it, KE4MEA Montgomery"



BOB SIMPLETON'S GUIDE TO QUARTER WAVE ANTENNAS

brought to you by
**Amateur
Radio
Trader**

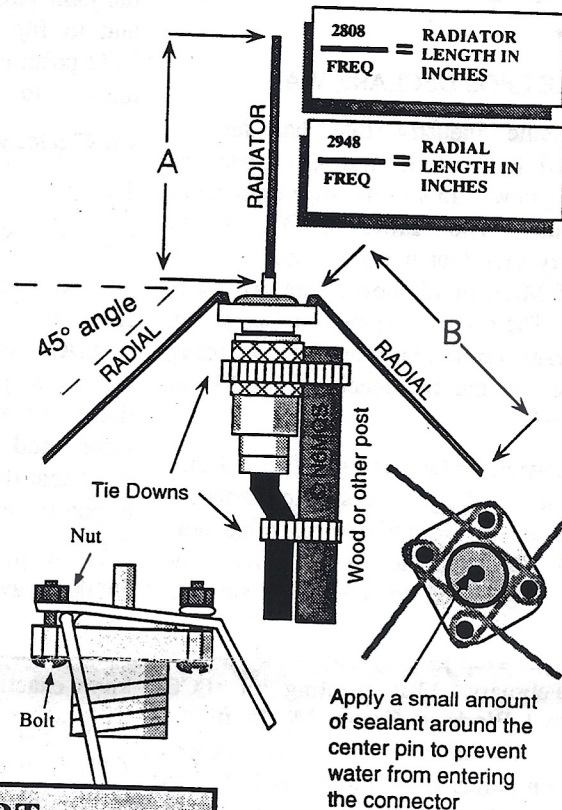
One of the simplest antennas you can build is a quarterwave ground plane antenna. It is small in size and is inexpensive.

The only part you will need to buy is a SO-239 panel mount connector. You can use an old wire hanger for the radiator and radials.

You will need to use your soldering iron or gun to attach the radiator to the center post of the SO-239. File any paint or coating from the radiator wire before soldering. Cut the radiator to the proper length before soldering it. If you can find a short copper tube to help secure the radiator to the SO-239, your antenna will stand up to high winds.

The radials may be soldered or attached with screws. Screws are the easier method if you take the time to overlap them as shown in the diagram. Cutting the radials may be done after the construction is complete.

The radials should be bent to an angle of 45 degrees for 52 ohm base impedance. If the radials are perpendicular to the radiator, the base impedance is approx. 36 ohms. Radials parallel to the radiator have an impedance of approx 75 ohms.



FREQUENCY CUTTING CHART

RADIATOR FREQ	RADIALS	
28.1	99.93	104.93
28.2	99.57	104.55
28.3	99.22	104.18
28.4	98.87	103.82
28.5	98.53	103.45
28.6	98.18	103.09
28.7	97.84	102.73
28.8	97.50	102.38
28.9	97.16	102.02
29.0	96.83	101.67
29.1	96.49	101.32
29.2	96.16	100.97
29.3	95.84	100.63
29.4	95.51	100.29
29.5	95.19	99.95
29.6	94.86	99.61
29.7	94.55	99.27
29.8	94.23	98.94
29.9	93.91	98.61
50.0	56.16	58.97
50.5	55.60	58.38
51.0	55.06	57.81
51.5	54.52	57.25
52.0	54.00	56.70
52.5	53.49	56.16
53.0	52.98	55.63
53.5	52.49	55.11
54.0	52.00	54.60

RADIATOR FREQ	RADIALS	
144.0	19.50	20.48
144.5	19.43	20.40
145.0	19.37	20.33
145.5	19.30	20.26
146.0	19.23	20.19
146.5	19.17	20.13
147.0	19.10	20.06
147.5	19.04	19.99
148.0	18.97	19.92
220.0	12.76	13.40
220.5	12.73	13.37
221.0	12.71	13.34
221.5	12.68	13.31
222.0	12.65	13.28
222.5	12.62	13.25
223.0	12.59	13.22
223.5	12.56	13.19
224.0	12.54	13.16

RADIATOR FREQ	RADIALS	
423.0	6.64	6.97
424.0	6.62	6.95
425.0	6.61	6.94
426.0	6.59	6.92
427.0	6.58	6.90
428.0	6.56	6.89
429.0	6.55	6.87
430.0	6.53	6.86
431.0	6.52	6.84
432.0	6.50	6.83
433.0	6.48	6.81
434.0	6.47	6.79
435.0	6.46	6.78
436.0	6.44	6.76
437.0	6.43	6.75
438.0	6.41	6.73
439.0	6.40	6.72
440.0	6.38	6.70
441.0	6.37	6.69
442.0	6.35	6.67
443.0	6.34	6.66
444.0	6.32	6.64
445.0	6.31	6.63
446.0	6.30	6.61
447.0	6.28	6.60
448.0	6.27	6.58
449.0	6.25	6.57
450.0	6.24	6.55

About Rubber Ducks

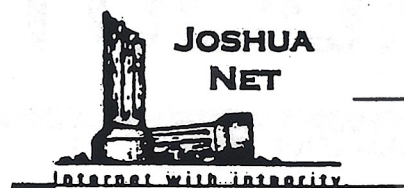
The rubber duck antenna on your handheld is not a very efficient antenna. The typical 2 meter rubber duck has a 5 db loss. If you have a 3 watt radio, your rubber duck will only radiate less than 1 watt!! A quarterwave antenna has 0 db loss and will allow all 3 watts to be radiated!!

Did you know...

Why we use 52 ohm coax ?

During world war II it was discovered that the minimum amount of material was needed to make a 52 ohm cable. It conserved critical war materials and increased profits for the manufacturers!

Thanks to W3JIW for the info!



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THE READOUT

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Next Meeting Is MARCH 18, and also APRIL 22, 1997 At 7:30 pm & You're Invited to come to the Stanislaus County Ad. Biulding downstairs in the conference room....