

Sierra Foothills Amateur Radio Club

Newsletter

<http://www.sf-arc.org>

February 2003

P.O. Box 1005, Newcastle, CA 95658

At the Key of S.F.A.R.C.



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REPORTERS

Satellites: Greg, KO6TH
History: Gary, KQ6RT
Digital: Rob, WW6G

REPEATERS

145.430 (-0.6 MHz/PL 162.2)
440.575 (+5.0 MHz/PL 94.8)
223.860 (-1.6 MHz/PL 100.0)

CLUB NET

All welcome to check in
Thursdays, 7:30PM, K6ARR/R
145.430

CLUB MEETINGS

Second Friday of the month,
7:30PM at the Auburn
Library, 350 Nevada St,
Auburn

CLUB BREAKFAST

Last Sat of the month at
Susie's Café, Cirby at
Riverside, Roseville - 8:00 AM

NET CONTROL OPS

Dave Jenkins, WB6RBE
Gary Cunningham, KQ6RT
Joe Sylvia, KF6OQY
Casey McPartland, W7IB

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2003 Calendar of Events

(Operating Events in Italics)

- Feb 7-9 *CQ WW RTTY Contest*
Feb 14 *Regular Meeting*
Feb 22 *No Am. QSO Party (RTTY)*
Feb 22 *Club Breakfast*
Mar 1-2 *ARRL DX Contest (Phone)*
Mar 14 *Regular Meeting*
Mar 29 *Club Breakfast*

IN THIS ISSUE

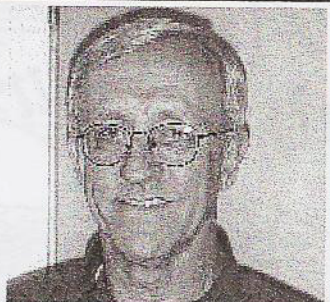
President's Report
Minutes of Jan Meeting
Amateur Satellite Report
"Digital Musings"
SV Section Report

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From the President's Shack

**Richard
WA6RWS**



Dear Fellow Hams,

I just received a telephone call from Roger, N7TK, before starting to write my monthly column for the newsletter. Roger is down in LA having more tests done at the UCLA Med Center. He will be there at least until February 7th. He is in my prayers and I hope in yours also.

I met Roger through the club some years ago and we have become very good friends. Roger has been very active in our club and is a past president of the club and has held most of the other positions as well.

When I start to feel sorry for myself, I give Roger a call. He is always up and gets me to feeling better. Roger is the kind of ham I strive to be. If you have a chance, drop him a card and keep him in your prayers.

If you have not dropped by the new club Web site, do so soon. Justin has done a terrific job of designing and maintaining the site. Thanks for all your hard work.

I hope to see all of you at the February 14th club meeting. Rob has lined up some real talented speakers this year so don't miss the next meeting.

73,
Richard, WA6RWS

Vice President

**Rob
WW6G**



January ended on a high note with the club breakfast on January 25th where we had twenty members attend. If that is not a record, well it was a fantastic turn out. We hope to see everyone next month. You can get the details at

February kicks off with a VE session on February 1st. Last year, the team was really busy giving lots of exams each month and 2003 promises to be even busier. The VE team is

always looking for interested amateurs to work as VEs. It is a lot of fun and we hope to see you there. As always, walk-ins are welcome and there is a talk-in on 145.430 [PL 162.2] courtesy of the K6ARR repeater.

On Friday, February 7th, the board of directors will meet at Roundtable Pizza in Loomis. The meetings start at 7:30 PM and all members are welcome to attend. With Joe having accepted the position of secretary, all positions are now filled and there will be lots of activity this year. Stay tuned.

Finally, but by no means least, we will hold our regular club meeting on Friday, February 14th at the Auburn Library, 350 Nevada Street, in Auburn. Our guest speaker will be Birton Gilbert, N6UG, the Assistant Emergency Coordinator for Placer County. He has been putting lots of effort into getting ARES running with a full head of steam in Placer County – coming off our weekly nets with a regular training segment and a face to face meeting. His topic will be Emcomm and ARES. It should be a very informative presentation and I certainly look forward to seeing everyone there.

Breakfast: <http://www.sf-arc.org/html/modules.php?name=Calendar&op=modload&file=index&ty=pe=view&eid=34>

VE session: <http://www.sf-arc.org/html/modules.php?name=Calendar&op=modload&file=index&ty=pe=view&eid=19>

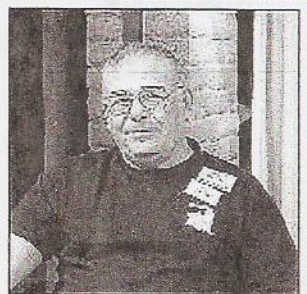
Directors Meeting: <http://www.sf-arc.org/html/modules.php?name=Calendar&op=modload&file=index&ty=pe=view&eid=28>

Regular Meeting: <http://www.sf-arc.org/html/modules.php?name=Calendar&op=modload&file=index&ty=pe=view&eid=20>

(Ed. Note: The links above will take you to the calendar pages on the Club's new web site)

Secretary's Report

**Joe
KF6OQY**



General Meeting January 10, 2003

President Richard, WA6RWS, opened the meeting at 1935 hours. Officers present: Vice President Rob, WW6G, Secretary Joe, KF6OQY, and Treasurer Mike, KG6EFK. Board members Debbie, KF6LXN, Bob, WA6ULL, and Casey, W7IB, were also in attendance. President Richard introduced the officers to the membership followed by

members and guests introducing themselves. Vice President Rob gave a brief preview of the scheduled speakers who will give presentations in the coming months. Casey, W7IB, read the minutes of the board meeting held on January 3. Rob, WW6G, made a motion to accept the minutes as read and Bob, WA6ULL, seconded and passed by the membership. President Richard brought up the possibility of having the club picnic in May rather than August so as to avoid the heat of mid summer. A possible site change to Pine Brook is also being considered. Vice President Rob gave a VE report and informed us that this information is also posted at the club web site. Greg, KO6TH, gave a satellite report and a great job as usual.

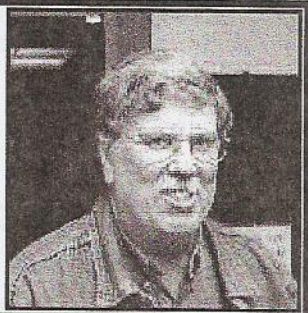
President Richard asked the membership how many would be interested in attending a tour of the K6ARR repeater site. A large show of hands indicated a lot of interest. Jim Carmen, K6ARR suggested that the tour would be best when school is out as the site is at the school facility. Rob, WW6G, did a presentation on RF compliance complete with charts and formulas. A CD was available to all to help in compliance procedures. The presentation was very informative with questions and comments from the membership. Great job Rob. Richard, WA6RWS, issued a certificate of appreciation to: Eldred KD6ZSL, Gary, KQ6RT, Debbie, KF6LXN, Bob, WA6ULL, Mike, KG6EFK, and Casey, W7IB, for their efforts of the past year. Thank you to the thirty four people in attendance for making this an enjoyable evening.

Respectfully submitted,

Joe Sylvia KF6OQY
Secretary

**20 & 40
Years Ago
In SFARC**

**Gary
KQ6RT**



Forty Years Ago at SFARC

Auburn Cal.
Feb. 13, 1963

No regular meeting was held, as there was not a quorum present. Last minute plans were discussed on our trip to KCRA on the 14th. Jack Crusinberry gave us some information on the Counties Communication Reserve. He also showed us how he had installed one of the FM transmitters on his car. The rest of the evening was devoted to a short ragchew.

James Carman
Auburn, Cal.
Feb. 14, 1963

Special meeting and tour of KCRA studios. A very fine dinner was had at Ken's Red Barn (Some of the group dined at the Chuck Wagon) An interesting tour of the studios of KCRA TV and radio was had. The possibility of a tour of the transmitting equipment and tower at Walnut Grove was talked over.

James Carman

Thirty Years Ago at SFARC

Feb. 6, 1973

K6CBP received \$50.00 from Explorer Post 29 BSA for purchase of an Emergency Trailer... Joe Merryman recommended the sale.

Twenty Years Ago at SFARC

Minutes of Feb. 10, 1983

Meeting called to order by K6HJA, Mary Ann, at 1930 hrs.

No treasures report because it is included in newsletter.

N6HJA, net controller, will call roll once on net, which will include each member's contribution at that time,

K6ARR attended a workshop on cable TV. Areas covered were, how a cable TV system works, cable TV leakage, and how cable TV is distributed.

N6HJA and W6YHI proposed programs on;

- H/P small computers
- Slow scan Amateur TV
- Antenna talk by Dixon telephone plant

The membership showed a majority interest in these programs.

W6YHI proposed a table at North Hills ARC radio club swap meet. Letter was sent to reserve same to Doug Long K6ZT, sect, NHARC.

N6HJA proposed a QSL card contest in August, motion carried by majority vote.

W6YHI proposed that members be dropped from club after 1st of April if dues are not paid by that time. W6YHI made the motion, W7EGR, Stan, seconded the motion, carried by majority vote.

Program of the evening was a very interesting talk by Jack W6YHI on "Two Meters, Past and Present."

Raffle winners were, 1st prize, KA6UUV, 2nd prize W6MYV, 3rd. prize, WB6OHV, 4th prize, W6LOE, 5th prize, KA6CWD.

Meeting adjourned at 21:07

73,
Gary, KQ6RT

Sac Valley Section

Jetti Hill
W6RFF
SM



SECTION NETS: Beginning on February 12, there will be a Section Net on VHF, 146.085 + MHz, PL 127.3 Hz, at 7 PM on the Yuba-Sutter ARC repeater. At 7:30 PM there will be a HF net on 3987 KHz. These nets will be held on the 2nd Wednesday of each month. There will be check-ins from appointees, members and visitors, latest information and questions. Comments, etc.

HAMFEST: The North Hills ARC will hold their hamfest this year on Sunday May 18 in Fair Oaks, at the [Bella Vista] High School on Madison Ave. More info later.

EMCOMM: This years EMMCOMM Special Convention will be held in Reno, NV, on May 31. It is sponsored by the Northern Nevada Amateur Radio Services and the NV Section. Information and registration can be found at www.cvrcc.net/emcommwest/. Pre-registration is \$10.

BRING A FRIEND: On April 15th North Hills ARC will hold a "Bring a Friend" meeting. There will be demonstration and talks on different phases of amateur radio as well as an ARRL table. This should be an interesting way to show what ham radio is and what it can do and inform the general public.

MEETINGS: I attended meetings at Yuba Sutter ARC and North Hills ARC. In Feb. I plan on visiting River City ARCS and the Old Timers/QWCA breakfast meeting. March will see me at Mother Lode DXCC and the Amador County RC annual dinner.

MISC. INFO: Mother Lode DXCC will see a slide presentation of Ken, K6TA and Kay, K6KO's operation in Aruba during December. They operated during the ARRL 160 and 10 meter contests.

Tahoe ARA web page now carries the SV Section report, thanks to Paul WA6EWV. TARA participated in the annual

California State Emergency Hospital Drill at Barton Memorial Hospital. They used FRS radios between the hospital and their comm. van and then 2 meters to Marshal Hospital in Placerville. Member NX6W moved to WA State.

Sierra Foothills ARC issues a CD with an accumulation of information from their club bulletins for 2000-2002, thanks to Editor Fred, K6DGW. For more info on SFARC see www.sf-arc.org, thanks to KG6NYD.

Jerry Boyd, KW7J (ex-K6BZ and former SM) spoke to the ARC of Anderson on DX and contesting. Jerry has been very active in DX and contests as well as being an expert in Emergency communications. I am scheduled to speak to the ARCA in May. ARCA held a T-Hunt with N6RZR leading the pack. John, WA6OZZ was their Ham of the Month.

Your SM spoke to the Yuba Sutter RC on ideas to increase club membership and meeting attendance. They are making plans to provide communications for the annual "Bike Around the Buttes", which will be held in April. Their ARES group met to prepare for a simulated emergency test. Members are converting their equipment to use Anderson Power Pole connector so that equipment will be interchangeable. The group also published the "Yuba Sutter Amateur Radio Emergency Services Operational Manual" – 19 pages of information! YSARC member Ron, K6KJ, has offered to teach an Extra upgrade class.

MLDXCC Nugget has a profile of member Jim, WX6V. Jim is an avid tester. Member Rick, W6SR lost an antenna rotor during heavy winds, but ran into problems in replacing it with a larger rotator. New MLDXCC member is George, WL7NN.

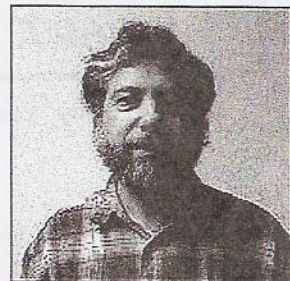
Interesting article in the NHRC's "On Frequency" about a Historical Electronic Museum, near Baltimore, MD, by Carl WF6J.

73,

Jettie, W6RFF

Amateur Satellites

Greg
KO6TH



Oscar 27 Gets a New Program "Oops"

That's what the AO-27 satellite's controllers must have been thinking recently when they discovered what had happened to their satellite. Actually, it's probably the *second* thing they thought of; the first thing being somewhere between

mild anxiety and sheer panic. Their beloved satellite had been acting strange, and then had gone silent.

Amsat-Oscar 27 is a small Amateur Radio payload that is bolted to an orbiting weather satellite. The satellite was launched in September of 1993, and has served as a "bent pipe" FM repeater in space. It has a sensitive 2 meter receiver at 145.850, and small (about 0.8 watts) 70cm transmitter on 436.796 which relays everything it hears. The command & control portion of the satellite consists of a small processor, telemetry, and the usual sensors around the craft to pick up and relay anything that might be important for the ground crew.

The satellite was placed into what is known as a "Sun Synchronous" orbit. This is a special type of orbit which puts a satellite's passes over the Earth at about the same time each day. No matter where you are on the Earth, there will be a set of North-to-South passes around mid-day, every day. It's a great sort of orbit for weather and other Earth observation tasks, because the lighting is very consistent. The other, South-to-North passes, happen at night. The whole dance is repeated for each orbit: North-to-South pass over the sunny side, loop around the South Pole to the night side, then up over the North Pole, back into the sunshine. Think of yourself standing on the Sun, looking at the orbit edge-on. There is just enough precession in the orbit to match the Earth's movement around the Sun, so that the orbit is always aligned on a Sun-Earth line - it's "Sun Synchronous".

The satellite's designers took this orbit into consideration as they built their bird. They would make use of the regular progression of night to day to night in their programming of the power regulation system, in what they called TEPR - Timed Eclipse Power Regulation. There's not enough battery capacity to run the transmitter all the time, so they decided on the following sequence: After the satellite enters sunlight, wait a few minutes for the batteries to charge, then turn on the transponder. Let the transponder run for a few more minutes (long enough to pass over most of the Northern Hemisphere) before turning it off to let the batteries recharge. Then it's into night time on the back side. The cycle repeats again when daylight returns on the next pass.

So, this is where the "oops" comes in. The satellite has been in orbit for nearly ten years now, and during that time the orbit has drifted very slowly out of its original plane with the Sun. It no longer orbits directly in front of, and therefore directly behind, the Earth as seen by the Sun. Earlier this month, the orbit had moved *just enough* to leave the satellite bathed in sunshine for the entire orbit. For the first time in its life, the satellite never went into eclipse. Never went into darkness. Never got to the point in its programming where the next step of the timer sequence would start. The little on-board processor was waiting for a darkness that would never come. So, it never turned on the transmitter. Silence. Panic. Oops.

Well, the panic was assuredly short-lived, for the controllers quickly figured out what was going on. With the constant sunlight, the spacecraft's batteries are actually in very good shape, and as of this writing, the command team is working on a new power regulation program for the satellite. In the mean time, they will be manually commanding the transponder to turn on periodically, mostly on weekends. So, if you miss hearing AO-27 on one of its usual mid-day passes, don't worry. It's quite healthy, if not a little confused. A regular schedule should return soon; for the latest, web to <http://www.ao27.org> on the Internet.

73,

Greg KO6TH

Swap Meets

Foothill Flea Market - 2nd Saturday of each month from March through October at Foothill College, Los Altos.

Livermore Swap Meet - 1st Sunday of each month at Las Positas College in Livermore, 7:00 AM to noon, all year. Talk in 147.045 from the west, 145.35 from the east. Contact Cliff Chiba, KF6EII, larkswap@usa.com

*Digital
Musings*

*Rob
WW6G*



Digital Musings

Solar activity has been decreasing from a solar flux reading of approximately 230 in July of 2002 to current readings of approximately 130. Things will continue to be challenging, but there still are openings.

This month I would like to bring up two issues. First, I would like to close with George Rothbart, KF6VSG, regarding the PSK31 meter. You may recall that this device was presented at Pacificon 2002 and solves a tricky issue with PSK31 - adjusting transmitter drive to achieve maximum power with minimum intermodulation distortion. It does this by sampling your transmitter's output and then adjusting your computer's sound output level. George had indicated that he needs about 10 more interested parties to put together a kit. The kit would cost about \$ 30. I would like to sign up interested members at the next meeting.

Second, a number of members have been discussing how technicians with only FM could begin to do CW. This would provide good training, prepare for the CW exam, give practice which can be helpful in emergency situations and have a lot of fun. The idea would be to build a simple audio

oscillator, keyed by a standard key or a key and keyer, and run it into the microphone audio input. This would allow members with only a 2 meter FM rig to do CW – albeit it in a slightly different way. The proposal would be to do a CW net each week on 2 meters through the K6ARR repeater, perhaps after our regular net, where all the members could participate. If you are interested, please speak to me, Rob-WW6G, Casey-W7IB, or Bob-WA6ULL at our club meeting. It should be a lot of fun!

(CW ... the original digital mode!)

73,

Rob, WW6G

Wanted and For Sale

LOOKING FOR OLD SCANNER:

Check your shack & garage. I am looking for a Radio Shack PRO-14 Crystal controlled 10 channel scanner. If you have one, will pay reasonable price for it. Please call Matt Diridoni, KC6RUO 916-625-5417 or 916-316-5774.

FOR SALE

FT-50R with all the goodies and Universal Charger. \$150 for all (will discuss price)

Ed, WB6EDD
530.889.1563
wb6edd@aol.com

VE Report

The VE team did not hold a session in January because the Folsom Lake College Center was closed on the first Saturday, but on February 1st, the team held its first session of 2003. You can get all the details at: <http://www.sf-arc.org/html/modules.php?name=Calendar&op=modload&file=index&type=view&id=19>

This year the VE team has a number of plans to expand its services to aspiring hams. First, we are pleased to announce that Casey McPartland, W7IB, has agreed to moderate the *Elmer's Forum* which is an area of the web site devoted to helping new hams. Passing the exam is not enough, we want to move ahead with them to get them on the air. The *Elmer's Forum* is open to all members and I would hope that you would drop by from time to time and answer any questions out there. The *Elmer's Forum* is available at: <http://www.sf-arc.org/html/modules.php?op=modload&name=Forums&file=viewforum&forum=4> or you can get there from **Forums** on the **Modules** menu.

Who Was That Masked Ham?

Sharp eyed SFARC News readers will have noted by now that our beloved Casey, formerly known as K6WJM (his initials), has obtained a new call sign. It is W7IB which is quite cool on CW, and fortunately, it does not mean he's

moved to Seven-land. In fact, he hasn't moved at all, except on the Internet ... his new email is w7ib@arrl.net.

Ham News of the World

(Courtesy of the ARRL Letter and Bulletins)

ARRL Continuing Education Courses

ARRL Communications course, Level 1, will be open for registration on Monday, February 3, at 12:01 AM Eastern Time. That will be 9:01 Pacific Time on Sunday night. If you have had trouble registering in a class, this will give you a chance to get in early by registering on Sunday night. There will be approximately 200 openings.

The cost is \$45 registration fee, which will be returned upon successful completion of the course. Registration is done on line and is first-come, first-served.

To learn more, visit the ARRL Certification and Continuing Education Web page at www.arrl.org/cce and the C-CE links found there.

For more information contact Dan Miller, K3UFG, at dmiller@arrl.org, or 860.594.0340.

All SEC, DEC, EC, and STM should take at least the first course.

The World is Really Very Small

The tragedy of the Shuttle Columbia touched a great number of people. We note here that three of the Columbia's crew were amateurs: Kalpana Chawla, KD5ESI; David Brown, KC5ZTC; and Laurel Clark, KC5ZSU.

5MHz Experiments Conclude

With its experimental license having demonstrated the desirability and feasibility of a domestic 5 mhz amateur allocation, the ARRL has allowed WA2XSY to expire on January 1, 2003 rather than request renewal. Last May, the FCC proposed going along with the ARRL's 2001 request for a new domestic secondary HF allocation at 5.25 to 5.4 MHz.

15 Amateur Radio clubs and individual amateurs took part in the 5-MHz experimental operation that began in January 1999 and largely concluded in 2002. ARRL chose not to request another renewal of the WA2XSY license because it already had obtained sufficient information to justify its petition for the band.

In a letter filed with the FCC last August after the comment deadline had passed, the National Telecommunications and Information Administration recommended that the Commission not go forward with the 5-MHz proposal. The NTIA said several government agencies with allocations in the proposed spectrum had expressed reservations about allowing amateurs to use the band.

The ARRL has been working with the government to resolve the impasse. The ARRL has called the 5 MHz allocation an urgent priority of the Amateur Service and said that a new

band at 5 MHz would aid emergency communication activities by filling a propagation gap between 80 and 40 meters. In the meantime, experimental operations on 5 MHz continue on a very limited basis in the United Kingdom and in Canada.

Reporter Needed (urgently!)

The next regular meeting of the SFARC is on February 14, a very special day, and your editor will be on vacation in San Diego attending the 2-day Cactus Intertie annual meeting. While "vacation" is basically oxymoronic for a retired person, we're turning it into a 10-day trip which we've chosen to call a vacation ... so there.

I really need a reporter for that meeting who can provide a story about the ARES presentation scheduled by Birton, N6UG. A photo or two would be great but not essential. Emergency and safety communications continue as one of our hobby's most important public services. If you can help out, please contact me at k6dgw@arrl.net and I'll fill you in on the requirements (best language is English but we might manage Latin, Spanish, or Russian, and any format will work fine!)

73,

Fred, K6DGW

Band Plans

What's a "Band Plan?" Let's start at the Law, and then move up. The basic law governing amateur radio licensees is that, unlike a commercial licensees, no individual amateur is granted exclusive or priority use of any frequency. Instead, we have communal privileges within a number of frequency ranges. The FCC has established (and modified on a regular basis!) specific privileges for the various license classes. These are law, and it's best for one's "radio health" to heed them. Thus, if you do not hold a General class license, you best not transmit CW on 14.010 MHz, a part of the 20M band reserved for Extra class licensees, and no amateur may transmit phone signals there.

Additionally, the FCC has designated certain sub-bands, primarily in the VHF and UHF regions as restricted to earth-satellite communications, repeater inputs and/or outputs, auxiliary links, etc. These too are cast in the regulations and are not subject to interpretation.

One of these, the repeater allocations, probably warrants a bit of explanation. With the growth of repeaters on VHF and UHF, the FCC recognized that regional interference could be a serious problem. While no amateur has claim to a specific frequency, it was recognized that a repeater on a frequency was privately owned, and it's owners had the right to restrict usage of their equipment. Further, once installed on a frequency pair, and with an established user-base, other repeaters that might appear on the pair would constitute the potential for unwarranted interference.

So, much as it did with the volunteer licensing program, the FCC delegated the "coordination" responsibility to a small number of regional volunteer organizations. In Northern California, that would be NARCC. It's a form of self-regulation, and the government requires that these organizations have published coordination procedures, a process for dispute resolution, and a mechanism for publishing their coordination actions. In return, the FCC will presume that an uncoordinated repeater that interferes with a coordinated station falls under the "Intentional Interference" provisions of the rules.

There are several repeaters with outputs on 145.530, for example, some of which are fairly strong in the Foothills. Not all are coordinated through NARCC.

Beyond the legally prescribed sub-band divisions, a number of commonly accepted conventions have been developed. For example, DX-hunters often congregate in the lower 15-20 KHz of each HF CW band. We find PSK31 at "XX.070," RTTY just below that, and MFSK and other digital modes just above it. 14.230 is fairly universally recognized as the slow-scan TV frequency on 20 meters, and most CW QRP stations will congregate around XX.040 MHz on 40, 20, and 15.

The ARRL organizes some band plans, although by no means all of them. Some are dictated by the radio regulations of various nations. On 160 meters, for example, the Japanese stations have only two small sub-segments of the US band (1.800 – 2.000 MHz). Consequently, there is a generally recognized "JA Window" from 1.825 to 1.835 MHz for JA stations to transmit. Likewise, 40 meters is a somewhat schizophrenic band when viewed internationally. The US allocation is 7.000 – 7.300, with phone permitted in the upper 150 KHz. Amateurs in many parts of the world have only the lower 100 KHz to use. Broadcasting occupies much of our phone band in other parts of the world.

Observing the unofficial band plans is part of good operating practice. They are the mechanisms by which we cooperate in the usage of our lawfully allocated frequencies. And, observance of them helps enhance the operating experience for all of us, no matter what our radio interests may be.



4755 Pacific St., Rocklin, CA 95677-2407

Manager: Randy Erwin

TEL: 916.624.0641 / FAX: 916.624.5249

<ur29@unitedrentals.com>

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**SIERRA FOOTHILLS AMATEUR RADIO CLUB
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Address: _____ City: _____ State: _____ Zip: _____

Associate Name: _____ Call: _____ Class: _____

Phone Number: _____ Application: (Circle One) New Renewal

Member Dues: Circle Amounts That Apply. Applications received in the middle of the year will be pro rated. Contact the President or Treasurer for exact rate.

Membership:	\$22.00	Name Badge:	\$6.50
Associate:	\$ 7.00	Repeater Donation:	\$ _____
Auto Patch Donation:	\$ _____	Newsletter Booster:	\$ _____
Miscellaneous Donation:	\$ _____	Christmas Donation:	\$ _____
Worldradio Renewal:	\$ _____	TOTAL:	\$ _____

OFFICE USE ONLY:

DO NOT WRITE BELOW THIS LINE

Date: _____ Treasurer: _____ Secretary: _____ Roster: _____

Payment: _____ Check Number: _____ Cash: _____

SIERRA FOOTHILLS AMATEUR RADIO CLUB

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Newcastle, CA 95658

