

SIERRA FOOTHILLS AMATEUR RADIO CLUB

NEWSLETTER

Volume 39, Number VII

July 1998

P.O. Box 1005, Newcastle, CA 95658
<http://www.members.aol.com/SFARC/SFARC.html>

At the Key



PRESIDENT

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916-624-0978

REPEATER INFORMATION

145.430 (-) PL 94.8
445.575 (+) PL 94.8
223.860 (-1.6MHZ)

CLUB NET

All Are Welcome To Check In
Thursdays 7:30 PM 2M
K6ARR & Club Repeater
145.430 (-600, PL 94.8)
10 Meter Net is Sundays- 7:30 PM
28.415 MHz

CLUB MEETINGS

Second Fri. of the month 7:30 PM
Auburn Library, 350 Nevada St.
Auburn, CA

CLUB BREAKFAST

Last Saturday of the month at
Susie's Country Cafe
Roseville, Hwy 80 & Riverside

BOARD OF DIRECTORS

KE6DJE	N7TK	W6LOE
Wayne Mikel	Roger Hedgpeth	Chuck Eder
916-645-0565	916-983-2912	916-966-2004
	rolito@jps.net	

2 m NET CONTROL

WB6RBE, Dave Jenkins

10m NET CONTROL

KC6LOE, Greg Huttula

2 m OPERATORS

WB6RBE	KQ6RT	KC6LIX	KC6LOE
Dave Jenkins	Gary Cunningham	Jan Huttula	Greg Huttula

SATELLITE REPORT

KO6TH, Greg Dolkas

NEWSLETTER EDITOR

KC6LOE, Greg Huttula
(916) 786-3530
SFARC@aol.com

The newsletter staff is seeking someone interested in reporting. The pay is not so hot but the benefits are incredible. Contact the Newsletter editor for

Club Meetings & Events

- #July 10 Club Meeting -Topic is "Emergency Communication" Presenter is AB6OP, Jim Lomax
July 25 Club Breakfast in Roseville at Susie's Cafe
Aug 14 Club Meeting - Topic TBA
Aug 29 Club Picnic, In Meadow Vista
Aug 29 Club Breakfast in Roseville at Susie's Cafe
Sept 11 Club Meeting - Topic TBA
Sept 27 Club Breakfast in Roseville at Susie's Cafe
Oct 9 Club Meeting - White Elephant
Oct 31 Club Breakfast in Roseville at Susie's Cafe

TBA - To Be Announced



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I would like to thank everyone who came to Nyack for Field Day this year, whether you came to operate or just to visit for a while you were greatly appreciated. We had four stations operating during Field Day with a total of twenty-five people either visiting or operating their rigs.

I would especially like to thank Grant Wells for graciously once again allowing us to use his property for our Field Day site, Mike Book of U.S. Rentals in Rocklin for the free use of the 15kw generator and Tri-Valley Vending for donating all

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the soft drinks. Everyone who came to Field Day had a great time. For some this was their first opportunity to work HF. For all of us there was the wonderful Spaghetti dinner on Saturday evening. Even the board meeting that was held round the campfire Saturday night was fun. Field Day at Nyack has come to be more than just an exercise or a contest. It is also a chance for our members and friends to get together for a weekend camping trip and to get to know one another better in the beautiful high Sierras.

I would also like to thank all the people, members and non-members alike who gave their time to help out with the Rocklin Jubilee. Public Service work such as this is an important part of our duty as a Special Service club and your participation was greatly appreciated.

73, Gary KQ6RT

New ?? on the Air Waves

From W5YI REPORT June 12, 1998

In the United States, Motorola business band radios are being sold to home improvement contractors by Home Depot. The fine print in the counter display does say a license is needed but no further information (or an application) for is provided. The salesperson had no idea how to go about licensing.

General Meeting

June 12, 1998

The meeting was called to order by President Gary Cunningham, KQ6RT at 1940hrs. Officers present were Vice President Bill Parrish, KM6KV, Treasurer Dave Hund, N6SHD. Filling in for Secretary Richard Kuepper, WA6RWS was Evan Phillips, WB6EXQ. Gary announced two Hamswaps, one in Calaveras County near Angels Camp on July 18th and the other in Reno on August 1st. Because the City of Auburn does not allow fundraisers in the Rose Room the Club is in need of a room for this year's White Elephant Sale. If you have a suggestion or recommendation please let one of the Club officers know. Gary said the Firehouse may be available, but parking could be a problem. As a result of the new area codes and the requirement of dialing a 1 there were changes made in the autopatch codes, the new codes are now available (talk to the Treasurer to get the new codes.) Roger Hedgepeth, N7TK took signups for this year's Field Day event. Greg Huttula, KC6LOE said if you are interested in being an Officer of SFARC next year please contact Bob Metke, W6SUP the Chairperson of this years election committee or Ralph McCune, AC6SG. The guest speaker for the July meeting will be Jim Lomax, AB6OP. The topic Jim will be speaking on is emergency communications. The Club is on the move and still growing there were three new members in May. Bob Metke, W6SUP gave the VE report. He said the test for the General Class license has more questions so be prepared. He announced the Rabbit Hunt would be July 25th. Jerry Metke, K6GKR gave the sunshine report. Martha Vance, KA6WUW will be having an operation. Greg Dolkas, KO6TH gave the satellite report. Have Hund, N6SHD gave the treasurer's report. Present balance is \$1,101.11. Roger Hedgepeth, N7TK and Bob Boeckman,

Continued on Page 3



Honest Dear! I didn't buy another Rubber Duck antenna.

General Meeting *Continued from Page 2*

WA6ULL gave a presentation about emergency preparedness and Field Day. Roger said long wire antennas are great to use for Field Day or emergency operations because they can be set up quickly. Roger encouraged everyone to bring guests to Field Day. Bob and Roger showed two videos on emergency preparedness. Two hundred dollars was voted on and approved to be the Field Day budget. Any remaining amount is to be placed in the general fund. The meeting adjourned at 2113hrs. Respectfully submitted by Evan Phillips, WB6EXQ

A special thanks to all VE team members for promoting amateur radio through giving their time and talents to the VE program.



June 1998 the VE Team gave 4 tests with 4 people tested.

Test Schedule - 7:00 p.m. Wednesdays

June	10, 24
July	8, 29
Aug	5, 26

Pre-Registration is Required Fee is \$6.35

Special test needs are accommodated, e.g. in-home testing, support assistance for specific types of disabilities.

For upgrades, or questions, contact;

W6SUP Bob Metke, (916) 783-7610.

Bob holds an Extra Class amateur radio license

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FREE**

**HAM RADIO CLASSES****FOR NO-CODE TECHNICIAN LICENSE**

The instructor is Lewis Tuttle, K6UD. Lewis holds an Extra Class amateur radio license.

Class Schedules are:

SUMMER

TIME: 9:00 to 11:00 PM THURSDAYS

PLACE: Roseville Library
255 Taylor, Roseville, CA

DAYS: July 10, 17, 24, 31
Aug 7

You need to provide your own book.

For more information contact;

Lewis Tuttle, K6UD at (916) 771-2336.

**June Community****Service Activities**

"WOW," what a month. With two big Club events in June many SFARC members found themselves active either at the Rocklin Jubilee or Field Day.



SATELLITE REPORT

By KO6TH, Greg Dolkas

If you look at a list of satellites of interest to Hams, you will find the list to be quite lengthy. In fact, there are some 39 of them, and most of them I haven't been talking much about. These are digital satellites, as in you don't talk to or listen to them on

where satellite power is at a premium, uses "PSK" modulation, which is where the special modem comes into play. The newer, more powerful digital satellites mostly use 9600 BAUD in there up and down links. For most (all?) of these the earth-type TNC and modems are used. The higher speed makes it reasonable to include more data-intensive equipment on board, such as the digital camera that is to be carried on the to-be-launched TMSAT-1 satellite.

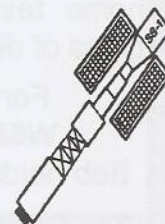


Operating a digital satellite really requires the use of computer control of the radios, for the same reason that computer control makes phone and CW contacts easier. It's our favorite science phenomenon, the Doppler Shift. While we humans can grab the knob and tune an SSB signal in fairly easily to make a QSO possible, we are very bad at trying to do the same thing for a digital signal. Since modems are by nature very frequency and bandwidth dependent, being right on frequency is very important. For this, one of the pieces of

equipment in the shack (modem, TNC, or computer) must send a signal to the radio to track the downlink signal. To make things as hard as possible (remember our Field Day objective?) most digital satellites have their downlink on 70cm or



higher, where the Doppler shift is the worst. The general trend in digital satellites is the same as for earth-bound communications - the move to higher data rates and the use of higher frequency bands to accommodate their higher bandwidth signals. 9600 BAUD is common today, and future satellites are being planned with 38,400 and higher link rates. 70cm is fine for 9600 BAUD, but look for the faster stuff to be on 2.4, 5, and even 10 GHz. The good news, they say, is that at least the antennas get smaller, the higher you go.



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Sacramento, CA 95818

phone or CW. They require a computer and various TNC's and modems to make sense out of the squeaks and squawks filtering down from the sky. I have spoken before of the Mir space station, which has a 1200-BAUD packet BBS on board, compatible with the equipment we use down here on the ground. The other 1200-BAUD satellites employ a different modem technology, which is better suited for the low power requirements of the earlier digital satellites. The uplink is the normal FM AFSK stuff, just like on Mir. The downlink,

Wanted:

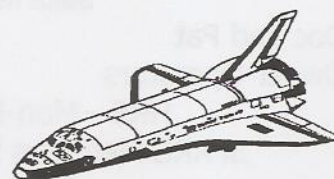
Junk radio parts, throw away radio's. Bits and pieces. Anything from the tube era. Also any electronic or radio books or magazines.



W6JDT, Bill Aston
(916) 652-9038

Enjoy,

Greg KO6TH



Field Day '98

SFARC Field Day '98 was big a success. The SFARC Members, family, guests, and visitors who came to Sierra Foothills Field Day enjoyed good food, campfire talks and the great outdoors. Thank You for making Field Day '98 a big success

Rodger Hedgpeth	N7TK
Bob Boeckman	WA6ULL
Linda Boeckman	
Dave Peden	KA6KUT
Wayne Mikel	KE6DJE
Melissa Mikel	
Daniel Mikel	Soon to be Ham
Gary Cunningham	KQ6RT
Debbie Cunningham	KF6LXN
Michele Cunningham	
Danny Cunningham	
Steve Faulkner	KF6OCE
Tyge Richardson	KD6MLH
Richard Kuepper	WA6RWS
Bill Aston	W6JDT
Bill Parrish	KM6KV
Shannon Parrish	KD6CMX
Hillary Parrish	KF6NTY
Cindy Parrish	
Tim Woodburn	KF6BVU
Bob Vaughan	KF6RCC
Jeanne Vaughan	
Andrew Vaughan	KF6RFV
Walter Vaughan	
Jettie Hill	W6RFF
Jim Lomax	AB6OP
Evan Phillips	WB6EXQ
Don Bickor	KI6HW

Thank you Debbie Cunningham, KF6LXN for the great-Food and espically for Cooking.

Rocklin Jubilee '98

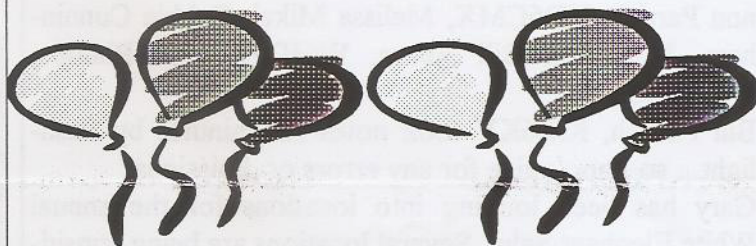
LOOK FOR WHAT AND
WHO PARTICIPATED
& HOW THE JUBILEE
WENT IN
THE AUGUST NEWSLETTER

Happy Birthday



To:

DEBBIE CUNNINGHAM	KF6LXN	JULY
GAIL EDER	KA6ZUV	JULY
WHITEY HUNTINGTON	N6RYO	JULY
RICHARD KUEPPER	WA6RWS	JULY
LEN TAYLOR	WB6HGS	JULY
STEVEN FAULKNER	KF6OCE	JULY
DOC METKE	K6HLO	JULY



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SFARC's June Breakfast

Because there were three Club events June 27th, the Club Breakfast was canceled. The next breakfast is July 25th.

The food is always good at Susie's. Come on and join us at Susie's Restaurant. The next Club Breakfast is on Saturday, July 25th. It is recommended you arrive around 7:30 a.m.. Susie's is located off of Cirby in Roseville. Look forward to seeing you there.

BOARD MEETING

June 27, 1998

Due to Field Day setup activities, it was impossible to hold the regularly scheduled Board meeting on Friday 26 June, so a short Board meeting was called to order in Nyack at SFARC's Field-Day site Saturday June 27. The purpose of the meeting was to transact the few items that were of immediate and upcoming concern.

The meeting was held around a campfire on a warm clear evening with the sounds of radios chattering in the background and children running around playing. The meeting was called to order by Gary Cunningham, KQ6RT at 21:26 (local). Board members and officers present were, Gary Cunningham, KQ6RT - President, Bill Parrish, KM5KV - Vice President, Roger Hedgpeth, N7TK - Board Member and Wayne Mikel, KE6DJE - Board Member.

Visitors present were, Hillary Parrish, KF6NTY, Shannon Parrish, KD6CMX, Melissa Mikel, Debbie Cunningham, KF6LXN, Bill Aston, W6JDT, Evan Phillips, WB6EXQ.

Bill Parrish, KM6KV took notes for minutes by flash-light... so I apologize for any errors or omissions.

Gary has been looking into locations for the annual White Elephant Sale. Several locations are being considered. We cannot use the Rose Room for this activity any longer, since the city has changed the regulations about the use of the room for fundraising. (The club uses the White Elephant Sale to raise funds for the annual Christmas Dinner). He will continue looking, but right now it looks like the Firehouse on Sacramento street is the most likely location.

Bill reported on upcoming programs. In July Jim Lomax, AB6OP will present to the Club on the local emergency organization. August will be a program on the ARRL, the presenter will be Brad Wyatt and/or Jetty Hill, W6RFF. Brad would like to come, but his schedule for the month is not yet finalized. Roger Hedgepeth, N7TK wanted to make a special commendation to Debbie Cunningham for her outstanding organization and work on Field Day. A hearty round of applause followed. The meeting was adjourned at 21:45 (local).

Respectfully submitted by



Bill Parrish, KM6KV

Please Welcome

SFARC's *New Member(s) and Recent Renewal(s)

*Lewis Vaughan	KF6KCC
*Katie Vaughan	KF6RCD
*Andrew Vaughan	KF6RFV
*John A. Koons	KF6OCG



Thanks to all who have renewed their membership with SFARC, our membership is still growing. Renewal applications are coming in everyday. There are hams that were members from years ago who are rejoining the Club, and new licensed hams are joining each month.

For Sale



Don't miss out on this one a Tri-Bander Beam. This is a great antenna. Original owner was Woody, W6ANX. Woody was one of SFARC's founding amateur radio operators. 5/98

Contact Jim Carmen at 530-885-9335



Are you looking for a 90 Foot tower?

Bruce, WA6TGM is selling his. He has the tower on the ground and ready to go to your home. 6/98

Call Bruce at 916-726-7586.



Top of the line Kenwood Station.

TS-940/AT 200 w PEP all band transceiver with antenna tuner. TL-922a 2KW PEP linear amp. SM-220 station monitor with BAS-8 adapter, SM-80 station mike and 7 inch speakers. All in excellent condition. Comes complete with manuals and cables. 6/98

Do you have something for sale? Contact the newsletter editor to advertise your item.

If your item has sold please contact the newsletter staff. Adds will be run four months.



SFARC NEWSLETTER BOOSTER Club '98

Jerri Metke	K6GKR	1-98
Bob Metke	W6SUP	1-98
Bev McCune	AC6SF	1-98
Ralph McCune	AC6SG	1-98
Richard Kuepper	WA6RWS	1-98
Jan Huttula	KC6LIX	1-98
Greg Huttula	KC6LOE	1-98
Mardis Gleason	KG6LA	1-98
TJ Hossli		1-98
Greg Dolkas	KO6TH	1-98
Holly Dolkas	KE6ETT	1-98
Fred Campbell	KE6MJC	1-98
Carl Crump	WA6VLS	7-97
John "ED" Ahlstrom	KQ6CK	7-97
Ken Weger	WA6EMU	8-97
Dave Pellonini	AC6RD	3/98
Martha Vance	KA6WUW	3/98
Ken Cooley	KA6WUX	3/98
Gary Cunningham	KQ6RT	3/98
Debby Cunningham	KF6LXN	3/98
Wayne Mikel	KE6DJE	4/98
Milessa Mikel		4/98
John Ahlstrom	KD6CK	4/98

✱ Where are You

Thank You, for Supporting SFARC

If you would like to join the SFARC Newsletter Boosters Club, Contact the Club Treasurer.

✱ = New Booster



Sunshine Report

W6SUP, Bob Metke is in the hospital. He has had brain surgery. He will be moved from the hospital soon and we're hoping he will be home very soon.

KA6LNC, John Tiernan we're still looking for.

W6ISX, Frank Hogan We have not heard from you. We pray all is well and hope to see you soon.

KA6WUW, Martha Vance Has just had surgery to remove cancer. We have heard she is home and recuperating.



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Gary Cunningham, KQ6RT

Assistant Manager

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From W5YI Newsletter June 15, 1998

A bill giving state and local governments the power to enforce federal regulations covering illegal CB transmitters has passed the U.S. Senate. Senate Bill 608, introduced by Wisconsin Senator Russell Feingold, was incorporated as an amendment into S.1618, the Consumer Anti-Slamming Act, approved May 12 on a 99-to-1 vote. The measure, as redrafted from the original bill with assistance from the ARRL, totally exempts Amateur Radio from its provisions. The amendment clarifies that the possession of an FCC license to operate an amateur station is complete protection against any local law enforcement action authorized by this amendment.



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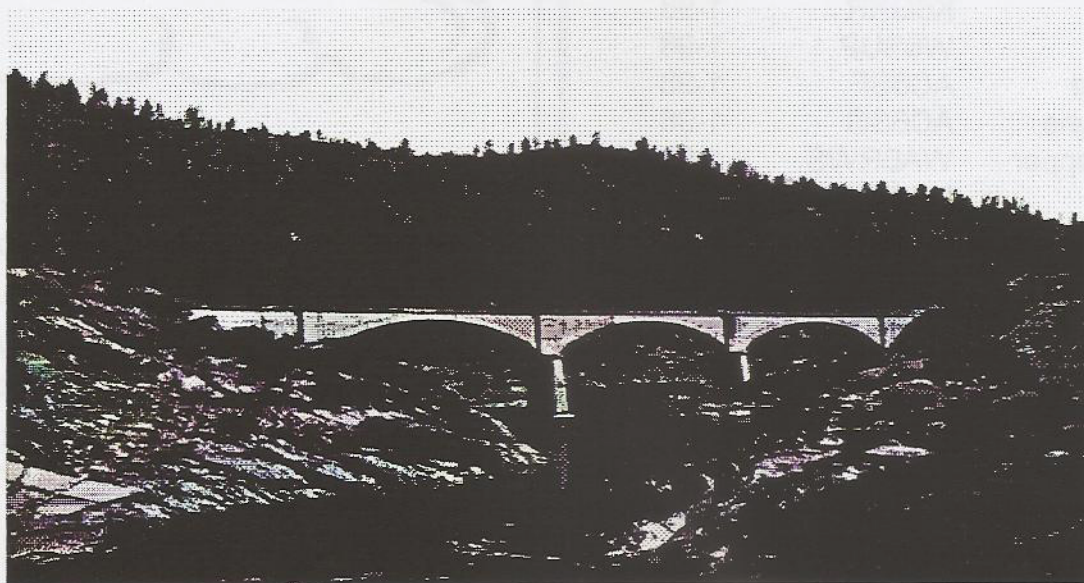
Batteries for Ham Radio, Cam Corders, Computers, Cell Phones, as well as Golf Carts.

8025 Greenback Lane Citrus Heights, CA

History of No Hands Bridge

by Hal Hall

adapted from an article published in *The Tevis Forum*



In the early 1900s the Pacific Portland Cement Company built a special railroad line that connected their limestone quarry operation with the westbound Southern Pacific main line in Auburn, California. "Mountain Quarry," as it was called, is located in El Dorado County four miles east of Auburn, along the Middle and North Forks of the American River, near Junction Bar, in Placer County. The high grade limestone was transported by rail for use in the manufacturing of cement and the refining of sugar.

The Mountain Quarry Cement Bridge, later known as "No Hands Bridge," was completed on March 23, 1912, by 600 men working on the Placer County side and 200 more on the El Dorado side to the tune of \$300,000. At the time of its construction the bridge was the longest concrete arch bridge in the world. The building of this structure proved that concrete was practical for building long bridges. Although it was plagued by various problems during construction, the span was considered a great piece of railroad bridge engineering.

The old cement bridge stands today as a proud monument to early-day engineering and the men who built it. The bridge has withstood the tugging of the American River currents for over 80 years and stayed on its footings when the Hell Hole Dam broke in December 1964 and took out two modern bridges upstream. It also withstood the so-called "Valentines Day Flood" of 1986, which submerged the bridge before destroying a 250-foot earth-filled coffer dam two miles down river.

The cement bridge has served as a landmark since the railroad went out of service in the 1940s. It did, however, serve a purpose shortly after the Hell Hole dam flood. The dam, located some 40 miles upstream, brought millions of tons of thundering water down the Middle Fork. The force of the water tore out the newer concrete-and-steel highway bridge nearby that linked Auburn with Cool and Georgetown. But the cement railroad bridge survived and was quickly pressed into temporary service to restore vehicle traffic between the two counties.

The rail route's 15 trestles and lines of tracks were removed in the 1940s: the metal and other materials were used in the war effort.

Today, a portion of the old rail route is designated as the Western States Pioneer Express Recreation Trail, in accordance with the National Trails System Act. It is primarily used by horsemen, runners and hikers. The name "no hands" came from veteran rider, Ina Robinson, who would drop her reins to ride across the then guardrail-less bridge. The bridge now stands as the "gateway to Auburn" and the final American River crossing of the Western States 100 Mile Endurance Ride and Run.

The U.S. Bureau of Reclamation and the California State Parks Department administer the Auburn State Recreation Area, which includes No Hands Bridge.

The guest speaker Friday July 10th is Jim Lomax, AB6OP The topic is -

Emergency

Communication

From The ARRL Operating Manual, Fourth Edition

People in desperate need of help can depend on Amateur Radio to serve them. Since 1913, ham communicators have been dedicated volunteers for the public interest, convenience and necessity by handling free and reliable communications for people in disaster-stricken areas until normal communications are restored.

Emergency communications is an Amateur Radio communication directly relating to the immediate safety of human life or the immediate protection of property, and usually concerns disasters, severe weather or accidents. The ability of amateurs to respond effectively to these situations with emergency communications depends on planning and training of operators.

A primary responsibility of the Amateur Radio Service, as established by Part 97 of the FCC regulations is to render public-service communications to the general public, particularly in times of emergency when normal communications are not available.



The Rest of the Story

If you have questions or would like to hear more about Emergency Communication join us at the next SFARC General meeting Friday June 10th, at 7:30 p.m. in the Auburn Library located at 350 Nevada Street in Auburn. The program is on Emergency Radio Communication and the presenter is Jim Lomax, AB6OP.

See you there

SFARC NEWSLETTER

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Articles and opinions expressed in this newsletter do not necessarily reflect the individual opinions of members or Board members. Articles that members seek to have published in the next edition of the newsletter must be submitted no later than the 20th of the month. Submit Articles, letters, and personal classified radio gear advertisements to: Editor - SFARC Newsletter P.O. Box 1005, Newcastle, CA 95658. Call KC6LOE, Greg Huttula (916) 786-3530.

For Business, Non-Personal Advertisements contact SFARC's Treasurer N6SHD, Dave Hund. Full page ads to three line ads are available. Reasonable rates are offered on advertisements and on graphic designs for ads.

Sierra Foothills Amateur Radio Club (SFARC) is committed to promoting radio knowledge, encouraging fraternalism, enhancing operating efficiency, and advancing the general interest of Amateur Radio. SFARC is a Special Service Club and is associated with the American Radio Relay League (ARRL), the premiere Amateur Radio advocacy organization.

Advertising Opportunities Available

Many opportunities for advertising are available exclusively to members of SFARC...are you aware of them?

- ♦ No cost to Members of SFARC to advertise in the Newsletter.
- ♦ Monthly fliers* can be inserted to advertise your item (s) or your business.
- ♦ Reach businesses and over 100 members by advertising on an annual basis, in the SFARC Newsletter.

* Contact Dave Hund N6SHD at (916) 624-0978 for flier cost.

Sierra Foothills Amateur Radio Club

Membership Application



				Please Circle Amounts that Apply	
Name _____		Call Sign _____	License Class _____	Member Dues:	\$17.00
Address _____		Birth Date _____	Years as Ham _____	Associate Dues:	\$ 7.00
City _____	State _____	Zip _____		ARRL Renewal	\$34.00
Associate Name _____		Call Sign _____	License Class _____	ARRL (Spouse)	\$ 5.00
()				ARRL (Special)*	\$28.00
Telephone _____	E-Mail Address _____	Birth Date _____	Years as Ham _____	Club Patch	\$ 2.00
Application: (Circle One) New Member Renewal ARRL MEMBER? Y N				Emergency Placard	\$ 3.50
Bands Used: 160 80 40 20 15 10 6 2 220 440 Other: _____				Badge	\$ 5.50
☐ I would like a Calendar of Events				Repeater Donation	\$ _____
☐ Check me in on the Thursday 2 Meter Net.				Auto Patch Donation	\$ _____
Renewing your ARRL membership through the Club earns the Club money with no additional cost to you. To renew your ARRL membership through SFARC make check payable to SFARC and mail to SFARC P.O. Box 1005, Newcastle, CA 95658.				Newsletter	\$ _____
				World Radio Renewal	\$ _____
				Other	\$ _____
				Total	\$ _____

*Special is under age of 17 or over 65

Date: _____ Treasurer: _____ Secretary: _____ Entered to Roster _____

Payment: _____ Check Number: _____ Cash _____ Other _____

Sierra Foothills Amateur Radio Club

P.O. Box 1005

Newcastle, California 95658



TO:

