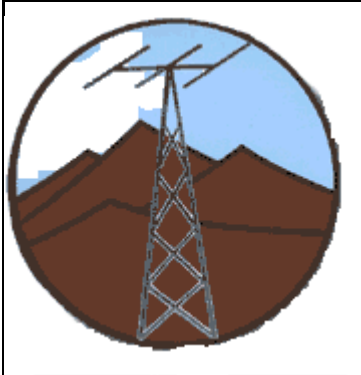


# 2009 SARC Membership Dues are Due!



## *THE AIRWAVES*

March 2009

**SIERRA AMATEUR RADIO CLUB**

An ARRL Special Service Club

**RACES ARES**

P O Box 1442

Ridgecrest

California

93556-1442

<b>BOARD</b>	President	Greg Roush	WA7IRW	446-4383
	First VP	John Andrus	KC6UWM	371-2190
<b>OF</b>	Second VP	Fred Moses	KG6STR	371-3582
	Secretary	Paula Herr	N6VGW	375-5324
<b>OFFICERS</b>	Treasurer	Ed Czajka	KI6PSP	384-4726

### SARC OWNED AND MAINTAINED REPEATERS

Randsburg	WA6YBN 145.34 MHz (-), PL 100.0 Hz, Wide Area, Emergency Power, linked to 147.00
Ridgecrest	WA6YBN 146.64 MHz (-), Translator, No Squelch Tail, Emergency Power
Ridgecrest	WA6YBN 147.00 MHz (+), PL 107.2 Hz, Autopatch, linked to 145.34
Ridgecrest	YBNBBS:WA6YBN, 145.050 MHz, Bulletin Board, 1200 Baud
Ridgecrest	#YBNSW:WA6YBN-4, 223.580 MHz, Node, 1200 Baud
Ridgecrest	#YBNSW:WA6YBN-4, 439.025 MHz, Node, 9600 Baud

### SARC Committees

**Technical Assistance:** Greg, WA7IRW 446-4383  
**Program:** Fred, KG6STR 371-3582  
**RF Interference:** Bill, WA6QYR 375-8566

**Public Relations:** John, KC6UWM 371-2190  
**Airwaves Editor:** Mike, WA6ARA 375-5324  
**Emergency and Public Service:** Mike, W6PM 793-0541

### THE AIRWAVES CALENDAR

<b>Every</b>	<b>ARRL Audio News</b> 1910 (7:10 p.m.) on 146.64 MHz
<b>Monday</b>	<b>IWV Emergency Net</b> <b>Visitors Welcomed!</b> 1930 hrs (7:30pm) WA6YBN Translator 146.64 MHz (-)
<b>Night</b>	<b>East Kern County Emergency Net</b> <b>Visitors Welcomed!</b> Rand repeater 145.340, pl 100 2000 hrs (8pm)
<b>11 Mar</b>	<b>SARC Board Meeting 7:00pm</b> Heritage Inn
<b>11 Mar</b>	<b>SARC General Meeting 7:30pm</b> Heritage Inn – Setting Up your first HF Station, Part 2

**14 Mar SARC Fox Hunt – 9:00am Heritage Inn parking lot**

**11 April 100 Mile Git-R-Done Horse Ride**

### AMATEUR RADIO LICENSE EXAMS Every Even Month, Second Saturday

**11 April Volunteer License Exam Session**  
 Location: Guns 4 Us, basement classroom  
 417 East Ridgecrest Blvd, Ridgecrest CA  
 No handicapped access Pre-reg by 8 April.  
 Limited to 8 applicants All must register at 9 AM  
 Contact Elvy Hopkins NØLV 760-384-3589  
 E-mail [lvrh7589@iwvisp.com](mailto:lvrh7589@iwvisp.com)

## 2009 SARC Dues are due!

Yes, it's that time of the year once again. Your 2009 SARC dues are due. If you were a member in 2008 and have not paid your 2009 dues, this will be your last newsletter. Now, you don't want this mighty fine newsletter to stop coming so pay up! Please use the application at the end of this newsletter and rejoin, better, bring it to the March meeting. Also, please consider using the email option for the newsletter. It saves time and money.

## From the President's Shack

Thanks to the hard work of a number of dedicated hams, the second Annual Technician Class license course is in session. We had about 10 folks sign up at the kick-off session. I wish all of our students the best of luck in earning their tickets. And thanks to Fred, Dennis, Mike and Paula, John and Lorilyn for working so hard over the last two months to organize and advertise the class.

I wish to thank Bill WA6QYR for coordinating the ham support for the 20 Mule Team Endurance Ride on Feb. 28. And thanks to all those who volunteered their time Saturday to help at the various check points and vet/water stops. We need more folks to help out with net control op duties, coordinating events, or helping at events... consider it practice for an actual disaster.

I predicted that the solar cycle was starting its new cycle a year ago. Wrong again. I hate it when my wife is right. The new cycle still seems to be languishing with few new sunspots surfacing. However, now is the time to get that new HF antenna up before the spring winds and summer heat starts. I've actually taken my own advice for once. I was forced to when my old HF antenna broke. I've swapping out my very old multi-element inverted-V with a G5RV. I'm also looking over the backyard to see how to support an 80m Loop Skywire like Jerry KK6PA recently put up.

I would like to hear from everyone who uses the phone patch on the 147.000 MHz repeater. The cost of the phone line is a significant expense in the SARC budget. If few people are using it, we're going to terminate the patch capability.

73,  
Greg  
[WA7IRW@arrl.net](mailto:WA7IRW@arrl.net)

PS: Don't forget to bring in your new toys each meeting for a show-and-tell session.

## Meeting Minutes

Board Meeting: The meeting began at 7:15 and ended at 7:27. Those in attendance were the club's president, 1st & 2nd vice presidents, secretary, treasure, newsletter editor, and Bill Burns, WA6QYR, reporting on the repeaters and RFI. Information from each position was reported in preparation for the SARC General Meeting.

General Meeting: The meeting commenced at 7:30 with a welcome from our President, Greg Roush, WA7IRW. There were three visitors, Peter Eiserloh, Ed Hinkley, and Skip Reymann. During the show and tell portion of the meeting, Mike Herr, WA6ARA showed his new light weight, very flexible solar panel. Greg Roush, WA7IRW, shared a couple of soldering irons. The club received a donation from the Fire Mt. 50 horse ride that was held in Jan. Club members were reminded of the weekly nets Monday nights, and an 80 meter HF net on frequency 3804, at 8 p.m. Tues., Thurs. and most Sat. by the Lake Isabella club. The program was "Setting Up Your HF Station, Part 1, presented by Gene Brewer, KI6LO. Part 2 of the presentation will be the program for March. Milt Entres, AF6MY won the 50/50 drawing. The meeting was adjourned at 9:02 p.m. for goodies provided by John, KC6UWM, and Lorilyn, KG6LEW, Andrus.

## Treasures Report

Treasurer report as of 27 February 2009

Draft Account	\$42.79
Share Account	\$4,225.65
<b>Balance</b>	<b>\$4,268.4</b>

submitted by Ed, KI6PSP

## March Meeting Program

For the March Program Gene KI6LO will present "Setting Up Your First HF Station, Part 2" Basic components of an HF station. What to do, and what to avoid. Should be as good as the first part.

## Technician Class

The Sierra Amateur Radio Club Technician Class started on 26 February. We presently have 10 students. The class is conducted over a seven weeks period followed by the exam. Wish us luck!



## Badges

The secretary has badges for : Jeff KD5HML

## Transmitter Hunt!

The next transmitter hunt will occur on March 14. The start point is the parking lot of the Heritage Inn, same spot as the SARC meeting. Start time will be 0900, and will last about an hour. If you don't have any T-Hunt gear, come along anyway. We will hook you up with someone who does and join the fun.

## 20 Mule Team 100 Miler

The 2009 20 Mule team 100 mile horse ride happened on 28 February. Overall the ride came off without major problems or accidents. One issue was the ability to get out from Golar wash in the Garlock valley to the rest of the communicators on the ride. Bill WA6QYR was at the headquarters base camp in the Desert Empire Fair grounds from the start at 0600 on Saturday morning to the break down of Vet 3/5 at 2 am Sunday morning. Hal, KM6JM covered the Vet 1 slot near the gun ranges south of Inyokern for the 48 members of the 65 milers and 28 members of the 100 milers. Fred, KG6STR covered the Vet 2 spot in Golar wash and could hear the portable repeater on the hills behind the college but couldn't break it. He could work the Rand repeater but Bill; WA6QYR at the Fairgrounds couldn't break it. So Greg, WA7IRW at the Vet 3/5 place located at the junction of 395/brown road/china lake blvd had to relay to base camp. The 30 members of the 35 mile riders left base camp at 730 am and Dennis W6DWF took care of the vet stop at the old 395 and railroad crossing. Mark, N0BLM covered the water stop at the interception of loops one and 2 making sure the horses continued on the correct loop. Dave, KC6UUR relieved Greg at the Vet3/5 location and stayed until all the 100 milers had made it through that check point. Greg set up the portable repeater early on Saturday morning so we had coverage for the whole event. Thanks again to all who supported the ride.

73

Bill WA6QYR

The next communications event is the Get'r Done 100 mile horses ride on 10 and 11 April from Inyokern north to about Little Lake. Communicators will be needed to help keep the horses and riders from becoming too lost on the trek.

## Silent Key

### W6QFD

6/22/1935 to 2/13/2009

A good friend and mentor, Charles Pierce (W6QFD) passed away Friday evening at 8:00 pm. Charles was a Electronics Engineer, working at and retiring from NWC in the eighties. He was a founding member of the San Bernardino Microwave Society, ARRL, and a long time SARC member.

Charles has not been well for some time, but has been monitoring our local repeaters and has been active on the IRLP repeater nets. He passed away at his home, and was surrounded by friends and family. He will greatly be missed.

73

Ralph Frasier

## PACIFICON NEWS

Pacificon 2009 to be hosted by EMCOMMWEST, May 1, 2, and 3, at the Circus Circus Hotel, Reno, NV. On February 15, I learned that the Mt. Diablo Amateur Radio Club had decided not to sponsor the Pacificon Convention this year. They have done an outstanding job of running Pacificon every year since 1992, and this decision was made by their Pacificon Committee, based on the current economic downturn, and unsuccessful negotiations with the host hotel.

Realizing the difficulty of finding a replacement for the Mount Diablo Amateur Radio Club, that with an experienced committee spends nearly a year planning this successful event, I decided to contact EMMMCOMWEST, the second largest Amateur Radio Convention in the Pacific Division. They very kindly accepted, knowing the marriage of the two events would require an expansion of program matter, and the addition of Friday presentations. I am truly grateful to the entire EMCOMMWEST team for their decision. The Mt. Diablo Amateur Radio Club has been very supportive of this effort, and is making all of their speaker, vendor, and organizational information available to the EMCOMMWEST team. The keynote speaker will be Steve Ewald, WV1X, Field Organization Supervisor from ARRL HQ; and the banquet speaker will be Riley Hollingsworth, K4ZDH, who was in charge of Amateur Radio rules enforcement at the FCC when he retired. I hope many of you will be able to attend this year's Pacificon. More information is available at <pacificon.org>.

See you at EMCOMMWEST/Pacificon!

Thanks and 73,

Bob Vallio, W6RGG  
Director, Pacific Division

## Ask Elmer!

**Ask Elmer!** is a chance for anyone, both new and old hams, to ask a question and get, hopefully, accurate and useful information. This can be a basic question of operating or a detailed one on a new mode. Send the editor your questions and I will distribute them to a group of local hams who will come up with the answer. If they don't know, I'll go out and find the answer to the amateur community outside of the IWV.

**The Question...** How can APRS on HF operate on 10.151, when the end of the band is 10.150? I also notice references in the Internet of frequencies on HF, as "Center", what does that mean?

### The Answer...

On 30 meters, the APRS convention is to use lower sideband. We use the LSB convention in specifying the frequency to be compatible with other packet channels on the band. The actual mark frequency should be 10.1494 MHz and is inside the band edge by 600 Hz. The space frequency should be 10.1492 MHz, for a 200 Hz frequency shift. The suppressed carrier and unwanted sideband energy must be down by 40 dB to meet the FCC requirements for band edge operation.

The actual dial frequency of the radio depends on the tones that your TNC uses. Different TNCs use different tone frequencies: 1600/1800 Hz, 2130/2330, 1100/1300, 2100/2300, etc. Therefore, you the operator must know the tone frequencies and set the radio dial frequency to correspond such that the tones transmit on the correct radio frequencies.

The traditional ham convention is to specify the actual frequencies of the two RF signals. The commercial / military / regulatory convention is to specify the single frequency midway between the two tones, along with the shift. In this format, the 30M APRS channel would be quoted as: "10.149.300 with +/- 100 Hz shift" or "200 Hz shift centered on 10.149.300". Center frequency is specified on the 60M frequencies with an occupied bandwidth of 2.8 KHz since those were military frequencies.

**Frequency accuracy and stability is especially important on HF, so the mark and space tones must**

**be within 10-20 Hz of the mark and space frequencies.**

## Ham Quick Tip

Got a quick tip to make ham radio more enjoyable, cheaper or just be cooler, send it in and share it!

From Dennis, W6DWF...

When wiring your vehicle or shack for 12 volts, one useful approach has been to use Rig-Runners from West Mountain Radio. Nice equipment, but a bit pricey. A simple - and cheap - alternative might be ATC-type fuse blocks with protective covers. These are available from

<http://tinyurl.com/cv4afq>

for under \$10.00. I'm about to try one for a vehicle installation. Here's what the 6-position block looks like.



## FOR SALE

For Sale: Alinco DR-235T 222 MHz mobile transceiver (never used mobile) and Cushcraft ARX220B Ringo Ranger II antenna (5.5 dBd gain). \$175 for both.  
Hal/KM6JM 371-3208

**Check out the SARC Web Page**  
[www.qsl.net/wa6ybn/](http://www.qsl.net/wa6ybn/)

**MEMBERSHIP APPLICATION**  
**SIERRA AMATEUR RADIO CLUB of the HIGH MOJAVE**

Please fill out this form. It is used to make the club roster and newsletter mailing list. This form must accompany all membership and badge payments. All renewals are due 31 March. Please mail this application and your payment to SARC, POB 1442, Ridgecrest, CA 93556-1442 or give them to the Secretary at a meeting.

**Membership – Please circle one**

Individual via Mail - \$20.00	Individual via Email - \$17.00
Family via Mail - \$30.00	Family via Email - \$27.00
Full time student via Mail - \$10.00	Full time student via Email - \$8.50
Active Duty Military via Mail - \$10.00	Active Duty Military via Email - \$8.50

**Individual or First Family Member**

Date \_\_\_\_\_

Name: Last \_\_\_\_\_ First \_\_\_\_\_ Call Sign \_\_\_\_\_

Novice \_\_\_ Tech \_\_\_ Gen \_\_\_ Adv \_\_\_ Ex \_\_\_ ARRL Member : Yes \_\_\_ No \_\_\_

E-Mail Address \_\_\_\_\_ (Note: Email address is not shared, for newsletter only)

Mailing address: \_\_\_\_\_ City \_\_\_\_\_

State \_\_\_\_\_ Zip \_\_\_\_\_

Phone: \_\_\_\_\_

**Second Family Member** (For more family members please duplicate)

Name: Last \_\_\_\_\_ First \_\_\_\_\_ Call Sign \_\_\_\_\_

Novice \_\_\_ Tech \_\_\_ Gen \_\_\_ Adv \_\_\_ Ex \_\_\_ ARRL Member : Yes \_\_\_ No \_\_\_

**DO NOT DETACH**

**BADGE ORDER**

**DO NOT DETACH**

The club badge shows your Amateur Call, your Name and Sierra Amateur Radio Club. It will identify you at club meetings and public service events. To order a badge, provide the information below and, include \$11.00, for *each* badge in Membership Application total above or with this form and mail to SARC, POB 1442, Ridgecrest, CA 93556-1442 or give it to the Treasurer at a meeting.

Name to put on my badge is \_\_\_\_\_ (What you like to be called)

Amateur call for my badge is \_\_\_\_\_

# **THE AIRWAVES NEWSLETTER**

## **March 2009**

---

### **RACES, ARES and INDIAN WELLS VALLEY EMERGENCY NET MEMBERS**

In case of impending or current emergency, monitor the SARC translator on 146.64/04 MHz or the backup simplex frequency of 146.52 MHz. W6PM, Mike or AI6A, John, the local RACES ECs, will coordinate mobilization. An Emergency Net Control Station will direct radio communications. Check in. State your capabilities. Be prepared to go outside the IWV for at least three days. An E-Pac should contain: your RACES card, radios and accessories, batteries, charger, paper, pen, clipboard, flashlight with spare batteries, timepiece, headgear, sunglasses, spare glasses, your medications, your medical history, first aid kit, severe weather clothing, non-perishable food, 3 gal. water, sleeping bag.

---

**SIERRA AMATEUR RADIO CLUB  
POST OFFICE BOX 1442  
RIDGECREST, CA 93556-1442**