



Mike And Key



An ARRL Special Services Club

Founded 1914

SARC Calendar

- September
- 9th General Meeting:
Sacramento Blood Bank,
1625 Stockton Blvd.
Sacramento at 7:00 PM.
Informal get-together at
6:30 PM.
 - 30th Executive Committee
Meeting: Sacramento Blood
Bank at 7:00 PM.
- October
- 14th General Meeting:
Sacramento Blood Bank,
1625 Stockton Blvd.
Sacramento at 7:00 PM.
Informal get-together at
6:30 PM.
 - 28th Executive Committee
Meeting: Sacramento Blood
Bank at 7:00 PM.
- November
- 11th General Meeting:
Sacramento Blood Bank,
1625 Stockton Blvd.
Sacramento at 7:00 PM.
Informal get-together at
6:30 PM.

25th Executive Committee
Meeting: Sacramento Blood
Bank at 7:00 PM.

SARC to Introduce Public to Amateur Radio

By Jim Rich, N6SZQ

A hobby that doesn't bring in new participants, and a club that doesn't recruit new members, won't last very long. Within the last year or so various members, such as Glenn Hartzell, Frank Zawalick and Tom Preston, have called on our club to put more effort into recruiting new members, especially young people. Every few years SARC puts on an "Introduction to Amateur Radio" meeting in the fall or spring, geared

to newly-licensed Amateurs and non-hams. It has been more than two years since we held such an event. At the last Board meeting it was decided to begin planning for such a meeting, tentatively scheduled to be held during our October meeting. So far our club Secretary, Jim Rich, and our PIO, Richard Yeager, have agreed to work with our President, Gary Bryant, to plan, publicize and organize the Introduction to Amateur Radio meeting. Cathy of the blood bank staff has promised to help, and we expect the League to loan us one or two fine videos. We also need several members to volunteer to give a short, non-technical presentation about an aspect of Amateur Radio that interests them. Other members could prepare displays. Perhaps Frank could bring one of his kits. Come to Wednesday's meeting with your ideas

It's always difficult to bring sad news, but you should know... There was a great loss today in the entertainment world. The man who

wrote the song "Hokey Pokey"
died. What was really horrible is
that they had trouble keeping the
body in the casket. They'd put his
left leg in and...well, you know the
rest.

Our People

1998 SARC OFFICERS

President

Gary Bryant, KB6KZZ
646-1171

Vice-President

Stan Harter, KH6GBX
SK

Secretary

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PIO

Richard Yeager, KG6GE

489-6334

Newsletter Editor

Tom Preston, KQ6EO
722-9358 mikekey@jps.net

PREZ SEZ

By Gary Bryant, KB6KZZ

Dear members:

It's September already, and the S.A.R.C. board members are looking ahead, making plans for a bigger and better year for the club. One of the things we just proposed, and passed was the rejuvenation of a 220 machine for the club, just as it had years ago. The majority of expense will be coming out of the club's account, and the machine will be unique in the sense of having two interchangeable boards, in case one has a problem we can keep the machine up by exchanging them. The machine will be open and the idea, I'm told, is that it can be used for routine traffic in the event that our other repeaters are tied up during an emergency. If everything goes as planned the machine should be up by the end of the year. I'm also being advised the club is getting a very good price for the 220 equipment.

If the 220 project comes off as good as planned, the board may even look into doing some funding on a 6 meter machine which is also a luxury the club had many years ago. So, as you will see, there are many things to look forward to in the club, as wish lists and goals are being met. Just look, it was only a month ago we were hoping Keith would hurry up and get back on his feet, and sure enough he was in attendance at the board meeting for August.

73 until next month.

KIT KORNER

By Frank Zawalick, WD6DCV

In the last few issues, I have discussed the more prominent suppliers of kits for the amateur radio community. In this issue I will introduce you to a relatively new kit provider specializing in low power (QRP) radios. It is also interesting to note that this provider had part of its origin in the Sacramento area.

Three enterprising young hams, Doug Hendricks, KI6DS, Jim Cates, WA6GER and Wayne Burdick, N6KR were the founding fathers of the NORCAL QRP Club. Their sole purpose was to establish an identity for the many amateurs interested in QRP, here in northern California.

Contained below is a description of the Northern California QRP-Club - What, who we are, written by Jim Cates, WA6GER. Welcome to NorCal, a group of some 2,000+ QRP enthusiasts. Started in Northern California (hence the name) in 1993, it now has spread worldwide, with members in all 50 states and some 75 countries. But, while this growth is remarkable, we are not in the numbers game; rather, our interest is to promote QRP fellowship, by means of our monthly meetings, our quarterly and our club projects. Taking these in that order let me preface the description of our meetings by addressing the organization of the club itself. First and foremost, there are no officers, directors, nor constitution. Neither are there any dues; it is only the quarterly for which there is a charge, \$15 a year USA & Canadian, and \$20, DX. Having no officers nor structure of any significance, every member is

equal to every other one. This means that, for example, if you want a QRP net, start one. No permission is needed. You want an official NorCal club badge? Have one made, whatever color or design you like. It is an official NorCal club badge. Contest? Great idea! Organize it any way you like, but make sure you get the details to the editor of the quarterly in sufficient time for him to publish them. We like this lack of structure and ensuing equality. It avoids the usual club problems of personalities, politics, and factions. Moreover, our egos do not even require that the club continue to exist. If it continues to serve a need via our meetings, quarterly, and projects, fine. If not, it will die, as well as it should.

As with any organization, however, there is a need for housekeeping. Doug Hendricks, KI6DS, is editor of the quarterly, and I am coordinator. Eric Swartz, WA6HHQ is technical editor, and Dave Meacham, W6EMD, is technical consultant. We meet the first Sunday of the month, at the California Burger, located in the shopping center at Santa Rita Road and I-580, Pleasant, Ca. The time is 10:30 AM, following the wind-down of the Livermore Ham Club swap, which is only two miles away. These meetings have no agenda, just come as you are, and bring whatever you think is of interest. Come early or late, stay until everyone is gone, whatever meets your time and interest. Members seem satisfied with this lack of agenda, but if we get tired of it, we will try something else, or chuck the whole thing. This is our meeting philosophy as well as format.

QRPP, the NorCal quarterly, is printed four times a year; Spring, Summer, Fall and Winter. It is 68 pages of 100% QRP; no paid ads and almost all of the articles are

original. The only reprinted ones, with permission of author and publication, are those of significant interest to all QRP'ers, knowing that everyone cannot take all magazines and club quarterlies. QRPP is bulk mailed in plastic bags and your issue may take as long as 60 days to reach you. Delivery time is strictly a postal matter, over which, obviously, NorCal has no control. Each issue is a mixture of articles, ranging from the technical to the humorous. Members are encouraged to submit copy; writing or drawing skills are not necessary; so do not let modesty in either area deter you, please. Individual copies of back issues are not available; the cost and time involved prohibit it. However, once a year NorCal prints the four issues, spiral bound in card stock covers. Check the NorCal Page for current availability and pricing.

NorCal has done many kits, two 40 meter cw rigs "The NorCal 40" and the 49'er, a multi band cw rig "The Sierra; a duo band SSB rig "The Cascade"; an antenna tuner "The St. Louis Tuner"; a 30 meter CW rig, "The 38 Special" and a very nice set of CW Paddles. A recent cw kit, "The NorCal 20" was produced in limited quantities, with half the kits donated to hams in under-developed countries and the remainder of kits going to NorCal members. These kits were completely sold out within 18 days.

It is not NorCal's intention to be in the kit business, or to compete with commercial interests. Rather, we prefer to do a short run for members and move on. This is why nominally; kits are limited to members. NorCal sponsors a QRP contest every April called "QRP To The Field" and building contest for both 4 days in May at Dayton and also Pacificon in October. NorCal encourages everyone to join and support our national QRP organization, American Radio Club

International (ARCI). For information, write Michael Bryce, WB8VGE, 2225 Mayflower NW, Massilon, Ohio, 44647. QRP activities at Dayton, in May of each year, are worth the time and trip. An all-day series of QRP symposiums, an evening hospitality room, both sponsored by ARCI. In October, NorCal sponsors a series

On the Air W6AK

146.91 – PL 100
442.80 + PL 100
224.1 - (coming soon)

Sacramento Valley Noon Net
Every day at Noon

On the Net

<http://home.sprynet.com/sprynet/w6ak>

Meetings

**General Meetings are the second
Wednesday of every month at the
Sacramento Blood Center, 1625
Stockton Blvd. Sacramento.
7:00 PM**

Please Join Us

of QRP forums at Pacificon, Concord; Ca. Information is published in QRPP.

Thank you for your interest in NorCal, an independent and unaffiliated club, one which marches to a different drummer. A great group of QRP enthusiasts; to me the cream of the crop, not easily frustrated, nor frantic to be at the top of the pile. Rather, mellow and laid back, a super group of helpful friendly hams, and perhaps also, the last of the home brewers?

72,

Jim Cates, WA6GER, NorCal
Coordinator
3241 Eastwood Road
Sacramento, Ca 95821, USA

Telephone: (916) 487-3580

Note: I am and have been a NorCal member since 1993.

I encourage all readers with an interest in QRP to consider the NorCal QRP Club. There is a niche in this organization for everyone. WWW: <http://www.fix.net/~jparker/norcal.html>

Personality Profile

By Tom HughesWA6ZYK

Ed Braaten, K6EKB

Ed was born in Coffeerville, Kansas but, being the son of a member of the Air Force, his childhood was spent in many places including Florida, Mississippi, Arizona and Nebraska. He graduated from High School in Peoria, Az. Following this, he worked at a Radio Shack store while attending college. While working there he experienced his first contact with Ham radio when one of his regular customers would show him his Amateur gear. He took some radio classes at that time but did not follow thru to the point of getting his license.

1981 was an important year in Ed's life as that was the year he got married and entered the Navy. There he was sent to Monterey to study the Russian language at the Defense Language Institute. That was followed by an assignment in

Texas for further training. The next spot was Rota, Spain where he remained for four and one-half years which completed his enlistment and he received his Discharge there.

While in Europe he decided to do a little job hunting and was successful in finding a job with Intel in Munich, Germany doing customer training. He remained there for six and one-half years during which time their three children were born. In 1993, Intel transferred Ed to their operation here at Folsom where he manages a group in Information Technology. Some of this groups projects have been E-mail, Intranet Web and Lotus Notes. This all sounds terribly impressive to someone as computer illiterate as I am!

A Ham friend of Ed's, knowing of his Navy experience, urged him to get his license and he decided that this was the time. He began attending classes being held by the River City club and completed them in November of 1997. At about this time he was scheduled to make a trip to China for Intel and, having passed the test, he hoped to get his Technician license before he left. The nite before he left it finally did come thru and he made his first QSO, with KK6KF, on an HT on his way to the airport. He took the radio with him although he couldn't use it there. I was surprised when he told me that he had no problems with Airport Security and the HT. He continued to work on his code skills and, in December, passed the test for

Technician Plus. He was originally given the call KF6OQI but, while he was in Hong Kong, the FCC "Gate" opened which allowed Technicians to upgrade to a Vanity call. He filed his application from Hong Kong via the Internet within minutes following the opening and was successful in getting his present call K6EKB, his initials. In April of this year he passed the tests and received his General Class license.

Ed participates in NCNV, SVN on VHF and the Golden Bear Net on HF and is a member of the FISTS Club. The FISTS Club is an international group dedicated to the promotion of CW operation. Ed is working on his 100 Contacts Certificate. He also participates in the California Department of Forestry VIP program.

Ed's wife Dolores (Lola) also has her no-code Technician license KF6QHT. Their children are Christine 10Yrs. old, Ben 8Yrs. and Naomi 5Yrs. Their newest addition is expected momentarily and will be named Tobias. Those of you who participated in Field Day will remember Ben as the young man who took the sudden trip out of the tree. I'm happy to report that he has now fully recovered from that experience and in the early stages of learning the code.

In addition to his Ham radio activities, Ed is interested in Genealogy and has done considerable research on his family.

The Sacramento Amateur Radio Club *Founded 1914*. An ARRL Special Service Club. **1998 SARC Officers:** President—Gary Bryant, KB6KZZ, 646-1171; Vice President—Stan Harter; Secretary—Jim Rich, N6SZQ, 361-3542; Treasurer—Steve Cates, KC6TEV, 391-7341; **Directors:** Les Ballinger, WA6EQQ, 393-4775; Herb Bennett, KA6VHF, 451-6864; Ed Braaten, K6EKB, 939-1432; Glen Hartzell, W6WBO, 555-5555; Tom Preston, KQ6EO, 722-9358; Jim White, WS6K, 456-9206. **W6AK Trustee—**Keith Crandall, K6QIF, 452-5056; Mike and Key Editor—Tom Preston, KQ6EO, 722-9358. **Club Dues—**\$16 per year, from January to December (new memberships will be prorated). **The SARC Newsletter, Mile and Key,** is published monthly by and for the membership of the Sacramento Amateur Radio Club. Permission is granted to other amateur radio organizations to reproduce in whole or in part for internal non-profit use, provided credit is given to the SARC Newsletter and to the authors of the reproduced materials. **Articles—**Manuscripts and letters are welcome. Items may be sent to Tom Preston, email at mikekey@jps.net, or snail-mail at *Editor, Mile and Key*, 8425 Arcaro Ct. Citrus Heights, Ca. 95610. **Advertising—**commercial non-personal advertising, business cards through full page, is available. Contact the editor above for information. Classified advertising is free to members of SARC. Submit ads monthly to the Editor at the above addresses.

Note: The new addition to Ed's Family arrived on Thursday, September 3, 1998. Congratulations to Ed and Lola from all of us at the Sacramento Amateur Radio Club.

SARC Repeater Update

By Tom Preston, KQ6EO

Sacramento Amateur Radio Club will be reactivating the 1 and 1/4 meter repeater by the end of the year. The board allocated what will hopefully be enough funds to complete the project at the August 26th board meeting. The repeater will be on 224.100 with a minus offset. The PL will be determined later.

Also in the works is a 6-meter repeater. A site has not been finalized but as I understand it, we already have most of the equipment so installation could be early next year.

September General Meeting Room

For the general meeting of Wednesday evening, September 9, we will again be in the Sierra - Tahoe Room of the Alhambra Annex. This is the building at the corner of Stockton and Alhambra. Do not confuse this with the meeting room in the main building called the Sierra - Tahoe Room. If you have any problems finding us just give a call on the repeater as we will be monitoring. See you there at 7:00 PM.

Meeting Minutes

August General Meeting Minutes
by Tom Preston KQ6EO

The August 12th meeting was called to order at 19:15. Our speaker was Wally Jukes of the Aerojet Fire Department. His topic was "Terrorism". He discussed the different types of terrorism. The numbers and types of terrorist groups that are monitored by the authorities in the US. He also gave a breakdown of the different types of targets here in our country. Next he discussed how our area was related to terrorist acts either as a target or as a base of operations for a terrorist. Wally touched on the part radio can play in terrorist acts, such as communications, radio control of devices, and others. It was stressed that we should stay aware of the possible uses of Ham radio in terrorism and be on the lookout for anything suspicious. He concluded with a demonstration of how a simple timed fuse could be constructed with commonly available materials. It was a very informative discussion about a subject we don't usually connect with our hobby.

August Board Meeting Minutes
By Jim Rich N6SZQ

The SARC Board met Wednesday evening, August 26, at Keith's house. The Directors and Officers approved the payment of \$155 for equipment to set up a 220 MHz repeater and backup repeater. They also authorized spending an additional \$45 for this purpose, if necessary. The repeater system would be used to benefit Club members and the general public. The Board members also discussed the SARC Web site, our relationship with the blood bank, and a planned "Introduction to Amateur Radio" meeting in October.

September Speaker

The September General Meeting speaker will be Ed Farmer on antenna's. He is one of the authors of the 'Near Vertical Incidence Skywave Communications' book that Dave Walker recommended during his NVIS talk a couple of months ago. We will also have a short presentation on Pacificon 98 from a member of the Mt. Diablo Amateur Radio Club.

October's General Meeting will be a "Welcome to Amateur Radio" theme so be thinking of what you can demonstrate and who you can bring to introduce to our hobby.

BUY, SELL, or TRADE

Estate Sale

ELENCO Signal Generator SG-9000 100Khz-150Mhz

Oscilloscope (Unknown Manufacturer) Wideband 12 Mhz

EICO TV Sweep Generator

EICO VTVM

LAFAYETTE Telsat-23 23 Channel CB

SBE Model 33 Mobile HF SSB XCVR (2 available) 80-10 Meters (Pre-WARC))

HEATHKIT HW-22 Mobile SSB XCVR

Home Brew HF RF Amplifier (Output Unknown)

All items are offered as "Best Reasonable Offer". Contact: Frank Zawalick / WD6DCV / 682-1589

Butternut HF6V Vertical Antenna
10, 15, 20, 30, 40, 80 Meters
26 Ft High \$150 OBRO

Cushcraft APR-18
8 Band HF Radial Kit
10, 12, 15, 17, 20, 30, 40 and 80
Meters
New/Unused
\$35 OBRO

HyGain TH6DXX Tri-Band
6 element 20-15-10 Meter Yagi
\$200 OBRO

Santec 144up 2 Meter Handheld
with speaker mic / manual
\$100 OBRO

For more information call
Frank Zawalick, WD6DCV
916-682-1589

Advertising of Ham related items
are free to club members. So if you
have anything to sell or trade or
you are looking for something, get
the information to Tom Preston,
KQ6EO and I will post it here.

area, which typically does not have
the appearance of a well-defined
watercourse as described above.
Sometimes a defined channel fails
to form due to geologic or
topographic constraints. Other
time's water flows over the banks
of a channel with insufficient flood
carrying capacity, and the land
areas nearby become inundated.
Sheet flooding is especially
dangerous because it is usually
difficult to tell when an area is
subject to this type of flooding.

Readers wanting more information
on this subject can visit these fine
Web sites:

http://www.huracan.net/info/nws_flood/ and
<http://www.co.yavapai.az.us/floodtyp.htm>

Ham Swaps

PACIFICON 98
Concord Airport Sheraton Hotel
October 16 – 18

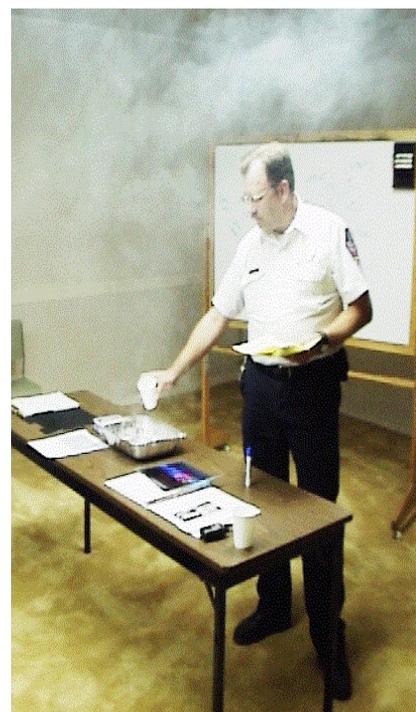
Sonoma County Radio Amateurs
Hamfest—September 19 at
Sabastopol Holy Ghost Hall. One
half mile north of Sabastopol on
Hwy 116, corner of Millstation
Road. Info. 707-578-4098

Placerville – 3970B Missouri Flat
Rd. #3 Placerville. Every third
Sunday, 7:00 AM to 11:00 AM.
Talkin 146.865 – PL 142.2 or
440.700 + PL 88.5

Livermore Swap Meet – Las
Positas College in Livermore. First
Sunday of each month, 7:00 AM –
12:00 noon. Talkin 147.04 (from
west) or 145.35 (from east).

Foothill Flea Market – Foothill
College in Los Altos Hills. Second
Saturday of March through
October.

Wally Jukes Presentation on
Terrorism



All Pictures by Gary Bryant
KB6Kzz





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Sacramento Amateur Radio Club

P. O. Box 161903, Sacramento, Ca. 95816-1903

MEMBERSHIP APPLICATION and RENEWAL FORM

Date _____

New Renewal Change of Address

MEMBERSHIP CLASS

General, \$16.00 Associate, \$16.00 Family, \$21.00 Student, \$8.00

Please fill in and circle anything you do not wish to have printed in the SARC Roster.
 Family memberships must reside in the same household.

NAME _____ CALL _____

LICENSE CLASS: N T T+ G A E ARRL Member: Yes No

Family member: NAME _____ CALL _____

LICENSE CLASS: N T T+ G A E ARRL Member: Yes No

Family member: NAME _____ CALL _____

LICENSE CLASS: N T T+ G A E ARRL Member: Yes No

ADDRESS _____

CITY _____ ZIP _____

TELEPHONE (____) _____

E-MAIL ADDRESS _____

Areas of interest, bands and modes used:

Emergency communications capabilities: ACS/RACES or ARES

New memberships in mid-year will be pro-rated.

This form must accompany your check made payable to SARC. Send to SARC at address above.

