

MAY 2002

THE MONTHLY NEWSLETTER of the SANTA CRUZ COUNTY AMATEUR RADIO CLUB

SHORT SKIP



AUCTION RESULTS

The SCCARC meeting on Friday April 19 was well attended and lots of fun. The auction was beneficial to all involved. All the buyers got excellent deals (we hope)!

Dan AA6GD successfully auctioned 33 "treasures". Thanks Dan! These items brought a gross income of \$1042.50. Kathy Hart, daughter of Oliver Mills KN6N/SK, was paid \$822. Other gear contributors were paid a total of \$55. SCCARC netted \$165.50.

I hope we get some reports about how people are making use of the fine gear they picked up at the auction.

Thanks to everybody who was able to attend the meeting.

—73, Cap KE6AFE/treasurer



Auctioneer Dan AA6GD

N6IJ VISIT



Pat AA6EG Introduces N6IJ

On April 24th Pat AA6EG invited us to visit the N6IJ club station to assist with a show and tell for some high level military folk from the Defence Language Institute. It was gratifying to see half a dozen SCCARC members and a dozen military in attendance.

Pat provided an overview of the impressive community benefits and capabilities of

N6IJ. We were then able to demo software for radio control, logging and audio recording, DX using PSK31, establishing contact with England using DTMF via the WA6HHQ/R I-Link and software for propagation prediction and antenna modelling.

The military personnel naturally showed most interest in the foreign language recording capabilities available at N6IJ

We are confident that this visit will further greater understanding of the value of N6IJ to the community.

—73 Ron, W6W0



Dick W7QHE Working Greece on PSK31

GUEST SPEAKER

This up-and coming-meeting, Friday, May 17th, we will be privileged to have a very renowned speaker(KV6LEE) Bart Lee, attorney at law and amateur-radio-operator-ground zero 9-11. Tell all your ham-friends to attend.

You will find it very worthwhile.

— 73s (KF6YRD) your, VP/ james

Amateur Radio Poised to Gain Two New Bands!

(May 10, 2002) -- Chalk up three runners on base for Amateur Radio. The FCC has proposed going along with ARRL's request of last summer for a new domestic (US-only), secondary HF allocation at 5.25 to 5.4 MHz.

The FCC also is ready to adopt at least part of ARRL's longstanding request for a low-frequency amateur allocation by proposing to permit operation on a 136-kHz "sliver band." And, in response to a third ARRL request, the FCC has proposed elevating Amateur Radio to primary status at 2400 to 2402 MHz.

CLUB MEETING FRIDAY MAY 17, 7:30P.M.



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Prez Sez

Hello again all of my great radio friends. Another month is upon us and it's time to get together for another fun meeting. Last months meeting is going to be hard to top. The Dan and Dave show was a lot of laughs made the club some money and some radio amateurs very happy! Thanks a lot Dan and

Dave. BXD (SueAnn) will be brewin' up the usual great coffee. Chris (KG6DOZ) will be bringing the goodies.

Jim has another wonderful presentation lined up. And there are plenty of eyeball QSO's to make. I think the band is beginning to close. the last go around there was a little QSB. Maybe we should change modes?

...

WATSONVILLE FLY-IN

This is just a reminder that the Watsonville Fly-In and Air Show for 2002, is just around the corner on Friday, Saturday and Sunday, May 24-26, and we are still looking for radio operators to work all three days of the event.

We are looking for trained emergency communications operators (ARES, ACS, RACES, etc.) but, if you are new to Amateur Radio and are seriously interested in working something of this scope, we will train you in basic communications and operations safety. This is a very good "training" event - there has never been anyone come away from this event without learning something!

Our first of two on-field training events is this Saturday, 4/27/02, at 1300 hrs (1:00 pm) at the Watsonville Airport (WVI). We will use the K6RMW repeater at 147.000 (+) PL=94.8, for talk in if you need it. We will be meeting in front of the terminal building next to the ramp.

If this will interest some of you, we are scheduled to have the Air National Guard C130 rescue aircraft, along with their HH60 rescue helo. at Watsonville this year. Wouldn't you like to be on the ramp and learn how to communicate with one of these birds passing next to you? It

K6SAS, SK

As announced at last night's club meeting, George K6SAS has become a Silent-Key. George had been a member in good standing of SCCARC since 1981. He will be missed.

73, Cap KE6AFE

From the Santa Cruz Sentinel newspaper issue of April 18:

George Kane O,Hara

Services will be April 26 for George Kane O,Hara, who died Sunday in Santa Cruz of Alzheimer,s disease. He was 83. Mr. O,Hara was born in California and raised in Vallejo. He lived in Santa Cruz since 1981.

Mr. O,Hara served in the Army, in France, during World War II as a captain.

He earned a teaching credential at UC Berkeley. Mr. O,Hara taught high school social studies for more than 30 years in Sutter, Marysville and Pittsburg.

He was also an amateur radio operator, using the call letters K6SAS, and enjoyed music and singing in church and community choruses, including as a soloist. Mr. O,Hara was a member of Fred Waring,s Pacific Coast Glee Club at the 1939 Exposition on Treasure Island.

is a very interesting experience. The web page, for sign-up and the latest information, can be found at:

<http://www.airshow.homestead.com>

Hope you can help out.

—73, Bob Wisner, K6RMW

Safety Communications Coordinator

Strawberry Fields Bike Ride

Greetings! The annual Strawberry Fields bike event will be held Sunday, May 19th. I need between 8 & 10 operators (the more operators, the shorter the shifts!). This is always a fun event, as those who have worked in the past will attest. Anyone interested can contact me via email or call me at home: 423-8756. This event is just a week before the Watsonville Airshow, and an excellent opportunity to exercise your equipment & make sure all is working properly. I have not received a lot of details from the organizers yet, but if memory serves, the event starts at 7 a.m. and the last shift ends around 3 p.m.--as soon as I have more info I will post it here. Looking forward to hearing from folks interested.

—73. Phil KE6UW, Santa Cruz ARES EC

HAM PLATES

Have you ever thought about getting your Ham call letters for your license plate? It's easy, and the state of California does this for FREE (as opposed to the \$35/year they charge for "personalized" or "vanity" license plates). There's a one-time fee to have the plates made.

>FYI, it took me quite a while and some effort searching on the DMV

website about a month ago, but I finally found the elusive CA DMV REG 17A form needed to apply for Amateur Radio plates.

Continued page 5



By Art Lee WF6P

CHATTER

I received this in my email from Wayne Thalls, KB6KN, so thought I would pass it on: "The sentence "The quick brown fox jumps over the lazy dog." uses every letter in the alphabet. This was developed by Western Union to test telex/twx communications.> Actually the sentence is The quick brown fox jumped over the lazy black dog." It was used for testing teletypewriter machines. I used to be able to type that sentence at about 100 words per minute. Problem was the machines wouldn't go that fast and they would choke up. For that matter most typewriters didn't perform that well either. When I was with RCA, I once had lunch with the inventor of the teletypewriter, Edwin Kleinschmidt. He sold his rights to the machine to the Bell system. Bell called their machine Teletype and established a manufacturing operation under that name within Western Electric. Kleinschmidt fought a long string of mostly lost legal battles with AT&T over the years regarding his rights and of royalties due."

Our April club meeting was fun. Each of us, during introductions, had the opportunity of identifying the radio they liked best over the years. I came up with my good old Hallicrafters S-20 R, from my high school days in the late 1800s. When my XYL Donna, AB6XJ, and I were first married, that was the only radio we had for several years. Somehow, I got rid of it, much to my regret. When I appealed to Dan Anderson, AA6GD, to "keep his eyes open for ne," he did just that. Within a week he found one for me in mint condition. Thanks again, Dan. At the meeting, Dan did his usual fine job as auctioneer finding good homes for some nice looking gear.

It was announced at the meeting that George O'Hara, K6SAS, is a Silent Key. uring WWII, George was an Army Cap-

tain and landed in Normandy 3 days after the invasion on June 6th, 1944. He had a terrible job, that of graves registration officer. His unit identified both US and German casualties. In our club, George worked for years with Rich Hanset, KI6EH, and the ARES group. George had one of the best "pick-up-and-go" emergency communications bags in the organization.

The May issue of Monitoring Times Magazine carries my article. "Ham Radio, Not Just a Hobby." In it I describe a few of the fun things, and some serious communications that take place over the air. Leon Fletcher, AA6ZG, continues to improve after his surgery. He's not jogging around the track yet, however. If you wish to give him a "get well" email, his address is: leonflet@aol.com.

Small world department: Donna, AB6XJ, and I were having breakfast at Mollie's Café in Scotts Valley this morning. Our very fine waitress, Michelle, chanced to remark that she was in the Culinary Program at Cabrillo College. I asked who her instructor was and she said Kathy Nevin. Kathy is a long time instructor at Cabrillo and friend of Miggles Wallace, N6FAC. Years ago, when Miggles and Ron, KD6BD, were enroute to the South Pacific in their Tartan 37 sloop, Rouser, I ran a contact between Kathy and Miggles. I am overjoyed to announce that I had a tremendous response to last month's highly popular Tech Tips. Herb Lundin, WA6LOB, e-mailed me, thanking e for help with his Hupmobile auto radio. Actually, he said that he sold that car some decades earlier, but it would have helped him make the necessary repairs to his radio. But, on an upbeat note, here is what I romised last month: To increase volume and improve tone on the Stewart-Warner Model R-102A auto receiver, disconnect the B plus (yellow and red lead) from the side of the output transformer from the screen grid terminal of the output tube and connect it to the high-voltage side of the combination relay and filter choke. The most convenient point to connect to is the cathode terminal of the rectifier tube. This raises the plate potential about 40 volts. Note: if this doesn't do the trick, let me know and I will contact Norm Peterson, N6DAC, for additional help. Next month: eliminating vibrator hash from the model R-112.

New and Improved Field Day

Far and away the best opportunity to showcase Amateur Radio to local officials and the general public is Field Day. Every fourth weekend in June, tens of thousands of amateurs representing thousands of clubs and non-club groups set up portable stations in temporary locations. Eschewing commercial power sources, they demonstrate a great truth that today is more important than ever: No matter what, there will be hams and they will be able to communicate with one another. No matter what. We don't need infrastructure. All we need is the equipment we use every day, an independent power source, and what's between our ears.

Field Day has a great tradition dating back to 1933, but the reason it remains a vital activity today is that over the decades it has evolved just as has Amateur Radio itself. This is particularly true of the bonus point system, which is tailored on an ongoing basis to encourage and reward the use of innovative power sources, effective public relations, message handling, and special demonstrations. A major change was made in 1998 to give separate credit for CW and digital (non-CW) contacts on each band, in recognition of the growing popularity and importance of the HF digital modes. If you and your FD group are not yet taking advantage of this opportunity, make this the year you do!

New for 2002 are two other significant enhancements. The old "Novice" station that the larger portable groups could set up and operate without slowing down the hotshots at the main operating positions has been replaced by a new GET ON THE AIR (GOTA) station. The idea behind this new station is to give generally inactive amateurs, in addition to Novices, Technicians, and unlicensed people under the supervision of a control operator, an opportunity to experience Field Day fun without the pressure of sitting in the chair at one of the main positions. A GOTA station can add significantly to your score. More important, it will broaden

Field Day Continued

the base of on-the-air participation and offer just the kind of training that FD is intended to provide. You probably have friends with General, Advanced, and Extra Class licenses who haven't been on the air in a while and are reluctant to jump into the Field Day fray. Invite them to take advantage of this special provision to help ease their re-entry. Review the rules in last month's QST (page 108) or on the Web to see how you can include GOTA in your plans for Field Day 2002.

The second innovation this year is that the ARRL Board has invited our sister IARU societies throughout Region 2 (North and South America, including the Caribbean) to participate with us. We hope many of their members will do so; after all, they are our frequent partners in emergency and disaster communications operations. Listen to the south, but don't forget our neighbors to the north! Our Canadian colleagues have always been an integral part of Field Day and will continue to include their Radio Amateurs of Canada Section in their exchange. Stations outside the US and Canada will send "DX" in lieu of section. Contacts with any licensed amateur station anywhere in the world count for credit, but at least for now formal participation is limited to stations in Region 2 and in the ARRL Pacific Section, which includes some parts of Region 3. (Amateurs in Region 1 have their own Field Days.)

ARRL Field Day generates more visibility for Amateur Radio than any other regularly scheduled activity. Local television news crews love to cover an event that has both visual and aural appeal. Every year we receive literally hundreds of clippings from newspapers throughout North America, often with great pictures illustrating that Amateur Radio's attraction bridges generations. While some clubs and groups understandably prefer remote locations where manmade noise is left behind and the only antenna restriction is our ingenuity, others are happy to collect the bonus points for setting up in a public place and operating a Public Information Table.

Whether you approach Field Day as a competition, an emergency preparedness exercise, a public display, or a social event -- or, ideally, a combination of all four --



Crumbs from the past meetings...

April 23...Spring is here so our most recent CAKE meeting was held outside on the Surf City Coffee shop patio. Those contributing to the many QSOs were KG6J0Q, KG6KGP, AA6EG, WA6HHQ, KF6N, AC6DN, KG6ECE, KG6FNK, W7QHE, K6BDK and our resident Whale Watcher Jason.

There were illuminating and heated discussions on QRP rigs, solid-state amplifiers, PSK31 and of course antennas. A lively debate ensued over the value of SWR measurements.

These unstructured and irregular meetings are fun. Come sage and neophyte, all are welcome, stay tuned for the date of the next event.

Technology is great, it brings joy and meaning to the lives of technologists everywhere !!! --

—73, Ron W6WO

May 7...For those who from misfortune were unable to attend our recent CAKE meeting, here are a few notes from the proceedings. It was very well attended by a dozen or so regulars and we were pleased to welcome Myron K6RRU who joined in for the first time. Pat AA6EG has been of great help to Jason in getting his VHF TX working and the whales are sure to benefit. Thanks Pat.

The topics I picked out of the pile-up included. Best color for heat sinks, multiple magmounts, the best form for an ATU, RF sniffers, totally portable PSK,

be sure to remember to have fun! Strengthened friendships and pleasant memories from past Field Days linger long after the scores have been forgotten.

Field Day 2002 is June 22-23. What better way could there be to celebrate the solstice?

—From ARRL Web Site

a kit built control interface to an AH4 tuner, J-Pole UHF antennas, the value of a ground plane on a camper roof and the economies of manufacturing overseas. In addition Fred KF6N solved his amplifier problem.

Our next session has not yet been scheduled but I hope that we can meet once more before I depart on an extended vacation in June. So keep your ears open and remember anyone can have the facts about technology but it's judgement based on facts that really counts.

Hi Jason,

I used "J-pole" as a search term in Google, and found a lot of listings...If you use Google, Images you will get a lot of photos and drawings with dimensions of Jpoles done by the web posters.... I can bring a Jpole made from twinlead to CAKES. they should only take a few minutes to build. Just tell me the frequency you need, and if multiple frequencies that are more than about 2 mhz apart, then both/all frequencies. If you take dimensions of a 2meter (146Mhz) jpole which has the short stick at about 19.5 inches and the long pole at about 58 inches, and simply divide proportionally the frequency you want to build to, the dimensions will also divide proportionally. The tap point up from the bottom of the J may have to be experimented with, though. The balun is shown in one of the website pictures, it is a Piece of coax 1/2 wavelength long...well I get into that at CAKES. In coax, when you cut a piece of coax to a specific fractional wavelength, you apply a correction factor because of the reduced velocity of RF waves through the coax. With coax that is solid polyetheylene dielectric, the RF travels about .66 as fast at C speed of light in a vacuum. So a 'wavelength' in coax is longer than a wavelength in air....divide air wavelength by .66 to get coax wavelength. If the coax has a foamed dielectric, the velocity factor is .80 roughly, rather than .66...

A 1/4 wavelength for 146 mHz as a reference, you can take to be 19.5 inches, in free space. All others are proportionally longer or shorter depending on frequency. More stuff.... hi

Pat

Board Minutes

MINUTES of the BOARD from the SANTA CRUZ COUNTY AMATEUR RADIO CLUB

A regular meeting of the board was called to order at 1840 hours on Friday, April 19, 2002 at Dominican Hospital in Santa Cruz. The president, Richard KG6AXD, was in the chair. Also present were the vice president, James KF6YRD; the treasurer, Cap KE6AFE; the secretary, Elaine KE6FRA; the members of the board Bruce AC6DN, Allen WB6RWU, Ron W6WO, Mike KF6UXB and two guests, Sue Ann KG6BXD and Claudia Fugelseth.

The minutes from the previous meeting were approved unanimously upon motion by Allen.

The treasurer's report was a financial statement that showed financial activity for the period from March 15 to April 19, 2002. The report, showing a balance on hand as of April 19 of \$4785.35, was accepted unanimously upon motion by Allen. During committee reports, the refreshments committee was discussed. Sue Ann reported that the refreshments "kitty" is working well and donations to the kitty actually covered the cost of refreshments last month. Bruce gave a report for the repeater committee about the temporary repairs that have been made to the K6BJ 2 meter repeater antenna and the recently completed battery maintenance at the K6BJ site. Cap mentioned that Tom KQ6DV reports for the club station committee that the Icom IC-701 HF radio and power supply donated to the club station by Mary Duffield WA6KFA is now in service and available for use, complete with operating manual. Anyone interested in operating the club station should begin by contacting Tom KQ6DV or Richard KG6AXD.

During unfinished business, Sue Ann reported that she had completed the audit of the club's 2001 financial records. Sue Ann stated that the records appeared to be in good shape, accurate and well organized. The board unanimously approved a 2002 Field Day organizing committee membership consisting of Tom KG6AO, Cap KE6AFE, Tom KQ6DV, and Eric K6EP. Contact any of them to help out with Field Day this year. During new business, Cap mentioned that Dave W6TUW reported that long-time club member George O'Hara K6SAS had become a Silent Key. Richard said he would announce that fact to the club members at

Member Profile W6TUW

This month our member profile is of Dave Harbaugh (W6TUW). Dave hardly needs an introduction but he is one of the unsung heroes of our club. For some ten years he has represented SCCARC on California Emergency Services nets. One such net is held each Wednesday on 7230 MHz LSB at 1000 hours which provided the opportunity to not only meet Dave but to hear the net in action.

Dave participates from the ARES/RACES radio room at the Santa Cruz Emergency Operations Center.



Dave at the EOC Ham Radio Console (Don't you wish your shack looked like that !)

The net is run by designated licensed amateurs and was well managed by a net control station at the Patton State Hospital in San Bernadino. To begin, stations on a list of sites in California are invited to report communications quality. The list is varied and includes other EOCs, Sheriffs, Caltrans, Military, Electric and Telephone Utilities, National Weather Service among many others. Next, stations in neighboring

the club meeting. Richard happily reported that club member Dave Rank KO6RS is feeling better and on the mend. Ron mentioned that Pat AA6EG is looking for volunteers to help in demonstrating amateur radio for military personnel during their visit to station N6IJ in late April. James told us about the donation of gear from Kathy Hart, daughter of Oliver Mills KN6N/SK, for our auction at the club meeting.

The meeting was adjourned at 1910 hours.

States of Nevada, Idaho, Arizona and Washington are checked-in. Certain operators including Dave, operate as relays to cover propagation blank spots. It was an impressive display of dedicated volunteerism.

Dave began his Ham career in 1951 on the East Coast with a call of W3SNO. He joined our club in 1961 and held many positions over the years, it was only recently that he passed on the work of the SHORT SKIP mail-out. Not what you would call a trophy hunter Dave modestly revealed that he had WAS from his home on 6 meters with only

10 Watts. His professional career was in radio and TV broadcasting and his well-modulated voice makes it clear why he spent 26 years with KSCO as their morning announcer.

Dave is a mine of information about the early days of SCCARC, and emergency communications in real situations, he gives credit to the many Hams who served the community of Santa Cruz over the years. One can not spend more than a few minutes with Dave before under-

standing at least some of his likes and dislikes. He likes end fed wire antennas, L network tuners, roller inductors, QCWA, music especially flute, sax and jazz, political debates, history books and stories about UFOs. He is equally outspoken about his dislikes but I have run out of space here HI HI.

Thanks Dave for your steady support for our club and emergency preparedness in particular.

Ham Plates continued

<http://www.dmv.ca.gov/forms/reg/reg17a.htm>

Please note that for a ham radio plate there is a place on the form to fill in your callsign and that you will need a copy of your ham license when you apply...also...be sure to read the info on the *back* of Form 17A!

—Peter, AB6WM

SCCARC Officers - 2002

President	Richard Trebbien	KG6AXD	426-0169
Vice President	Jim Welty	KF6YRD	685-9225
Secretary	Elaine Pennell	KE6FRA	429-1290
Treasurer	Cap Pennell	KE6AFE	429-1290
Board	Bruce Hawkins	AC6DN	
	Tom Johnson	KQ6DV	464-3120
	Allen Fugelseth	WB6RWU	475-8846
	Mike Doern	KF6UXB	477-1161
	Ron Skelton	W6WO	477-1021
K6BJ Trustee	Royce Krilanovich	AC6Z	475-4798

MONTEREY BAY ACTIVITY

SCCARC Repeaters: K6BJ 146.790- PL 94.8 Santa Cruz (linked w/Watsonville full time)
KI6EH 147.945- PL 94.8 Watsonville (linked w/Santa Cruz full time)
K6BJ 440.925+ PL 123.0 Santa Cruz
• SCCARC Net Monday 7:30 PM 146.79- /147.945- /440.925+ linked
• SCCARC 10 Meter Net 28.308 MHz USB Monday 7:00 PM
• SCARES Net Monday 8:30 PM 146.835-(PL 94.8)
• Watsonville ARES Net Thursday 8:30 PM 147.945-
SLVARC Repeater WR6AOK 147.120+ PL 94.8 Ben Lomond
• SLVARC Net Thursday 7:30 PM
SLV ARES N6IYA 146.745- PL 94.8 Felton
• SLVRC Net Thursday 7:30 PM
• ARES Net Monday 7:30 PM
NPSARC K6LY 146.97- PL 94.8 / 444.700+ PL 123 (linked) Monterey
• Monterey ARES Net Wednesday 7:30 PM
• NPSARC Net Wednesday 8:00 PM
• Monterey Bay Traffic Net Nightly 9:00 PM
• Newsline (Ham News) Broadcast Wednesday 8:30 PM
6 Meter Local Net 52.8 MHz (PL-114.8) Sunday 8:00 PM
Mont. Bay Chapter 191 QCWA :Tuesday, 7:30PM, AA6T repeater, 146.700- PL 151.4
FOR MORE INFO SEE: <http://www.k6bj.org/freq.html>

SCCARC Calendar of Events

SCARES	Tuesday	May 14
SCCARC Board Meeting 6:30	Friday	May 17
SCCARC Meeting	Friday	May 17
Short Skip Deadline	Monday	June 10
SCCARC Meeting	Friday	June 21
FIELD DAY	Sat-Sun	Jun 22,23

MONTHLY MEETINGS.

The SCCARC Meets at 7:30 PM, on the THIRD FRIDAY of the each month (except December). Meeting are at Dominican Hospital, 1515 Soquel Drive, Santa Cruz.

Visit the SCCARC Website at - www.k6bj.org

CLUB E-MAIL: yourcall@k6bj.org

ET CONTROL SCHEDULE (Subject to Change)

5/13	Dave W6TUW
5/20	Tom K6TG
5/27	Jeff KF6BKG
6/3	Allen WB6RWU
6/10	Phil KE6UWH
6/17	Dave W6TUW



SANTA CRUZ COUNTY AMATEUR RADIO CLUB
P.O. BOX 238
SANTA CRUZ, CA 95061-0238

Meeting: May 17, 7:30PM

Remember FIELD DAY June 22-23

First Class