



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

April 2003

P.O. Box 1005, Newcastle, CA 95658

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



2003 Calendar of Events

(Operating Events in Italics)

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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

WEBMASTER

Justin Carpenter, KG6NYD
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NEWSLETTER EDITOR

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k6dgw@arrl.net

- | | |
|-----------|--|
| Apr 6 | MS Walk Support |
| Apr 11 | Regular Meeting |
| Apr 18-19 | <i>Doolittle Commemorative</i>
<i>USS Hornet ARC (see inside)</i> |
| Apr 26 | Club Breakfast |
| May 4 | Enduro Ride Support |
| May 4 | CLUB PICNIC |
| May 9 | Regular Meeting |

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"Elmer Me"

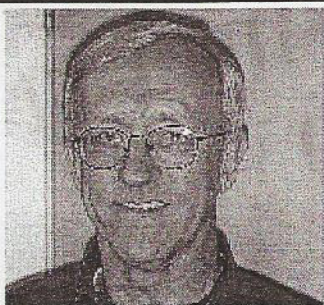
Slow Scan Television

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From the President's Shack

**Richard
WA6RWS**



Greeting Everyone,

The month of April starts activities of the club to pick up. We have the MS walk coming up on the 6th. As always, I made a Richard type commitment to the chairperson for the Auburn walk and then fretted for a month wondering if we would get enough volunteers to work it. The club has come through again and we will have enough to do the walk. Thanks to all those that volunteered to help with the walk. In May and June we have the Enduro motorcycle ride, the club picnic, the tour of the repeater site and of course field day. I will have a sign up sheet for field day T-shirts and pins for those who would like order through the club and save the shipping charges.

That's the fun stuff coming up. Now there is a sad note to let you all know of the passing of two club members who contributed significantly to the success of our club. Silent keys are Russ Ahlberg, KI6KJ, and Ken Weger, WA6EMU. Our thoughts and prayers go out to each family. Both Russ and Ken will be missed greatly by all.

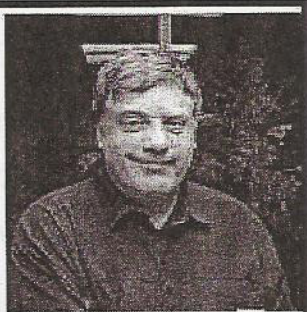
Come see us at the April board and general meeting.

73,

Richard, WA6RWS

Vice President

**Rob
WW6G**



As I get ready for the Club Breakfast this morning, it is hard to believe that another month has passed. My thanks to Al Tipsword, W6GER, for his fine presentation last month. This month, we have one of our own Casey McPartland, W7IB, who will be speaking on the FISTS CW Club. If you go to the web site, you can read more about the presentation. It should be great. In May we will have a presentation from Ventenna [www.ventenna.com] about their compact and stealth antennas.

The El Dorado County Amateur Radio Club has asked whether there are any activities which we might wish to do together. They have a monthly QRP contest and we might want to participate in that. The rules for this month's QRP contest are on our web site. They have also thought of doing some impromptu Field Day-like activities. I will keep you posted. In any event, I am not really sure and would welcome anyone's thoughts.

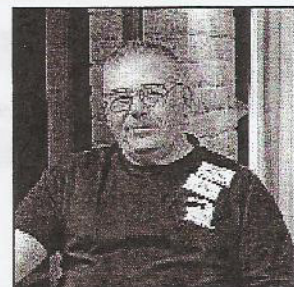
Do not forget the board meeting on April 4th. All club members are welcome.

73,

Rob, WW6G

Secretary's Report

**Joe
KF6OQY**



General Meeting March 14, 2003

President Richard, WA6RWS, opened the meeting at 1934 hours. Officers present: Vice President Rob, WW6G, Secretary Joe, KF6OQY. Board members Bob, WA6ULL, Casey, W7IB, and Debbie, KF6LXN, were also present. Secretary Joe, KF6OQY, read the minutes of the March 7 board meeting. Motion to accept the minutes as read was made by Rob, WW6G, and seconded by Bob, WA6ULL. Motion carried. Rob did a VE report and reminded everyone that the results are posted at the club web site. Birton, N6UG, and Casey, W7IB, next gave a detailed report on ARES. Also announced was that a hospital drill will occur on April 4. It was not known at this time if other hospitals other than Sutter would participate. Casey, W7IB, reported that the ARRL ARES net of March 12 on VHF 146.085 and HF frequency 3987 were well attended. Jettie, W6RFF, served as net control. Greg, KO6TH, gave us a satellite report followed by Fred, K6DGW, who reminded the membership to send lots of articles for the newsletter and that members who wish to advertise in the newsletter can do so free of charge.

Old Business

George, KG6LSB, has arranged for the club to have use of a generator for field day. Captain Lewis of the 319th Signal Battalion, US Army Reserve, and his people will set up and maintain the generator. Richard, WA6RWS, will order field day "T" shirts or pins for those who would like to buy them.

The repeater tour will be on Saturday June 7 at 11 am. A gathering meeting to be determined at a later date. Greg

KO6TH has agreed to help set up a 2 meter station for the school students who wish to contact the ISS. Information on this project can be accessed through the club web site.

New Business

George, KG6LSB, reported that another building on Maidu also owned by the Auburn Recreation Department is available and will accommodate the club White Elephant sale and Christmas Dinner. The building also has ample parking. The cost will be a one time deposit of \$175.00 and \$102.00 per five hour event. A motion to accept the recommendation to obtain this building for the club events and to authorize President Richard, WA6RWS, to issue the necessary checks for rental and deposit was made by Rob, WW6G, and seconded by Birton, N6UG. Motion carried by the membership. Thank you George for your efforts.

The MS Walk will be on April 6. A sign up sheet was available at the meeting. Operators are still needed for this event and sign in can be done on our weekly net or by contacting any club officer. More details to follow. Birton, N6UG, reports that the Enduro Riders Association motorcycle race will be held on May 4 at 8 am and set up will be at 7 am. Operators are also needed for this event. The Western States Endurance Run will be on June 28 and 29 and they also need operators for this event.

Len, WB6HGS, informed the membership that David Peden, KA6KUT, is ill and for those who wish to send a card may find his address on QRZ.

A presentation of the CVS-12 USS Hornet was the main event of the evening. A slide show of the history from the first USS Hornet to the present day vessel were shown. This program was presented by Al Tipsword, W6GER, and Tom Hale, KB6SSN. Tom is the founder of the USS Hornet ARC which was formed in 2002. The club is looking for members and support. The USS Hornet club net meets each Wednesday @ 21:30 hours Pacific time on 3.857 MHz LSB. They also encourage visitors to check in to the net. Their e-mail address is: hornetinfo@halemail.com. Thank you Al and Tom for a real great and interesting evening. Thank you also to the 37 people who braved the weather to attend this meeting.

Respectfully submitted,

Joe Sylvia KF6OQY
Secretary

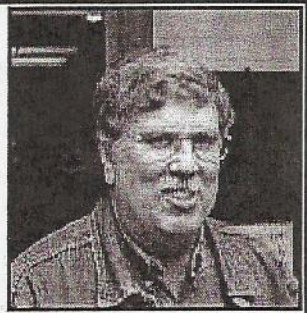
Swap Meets

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

20 & 40
Years Ago
In SFARC

Gary
KQ6RT



Forty Years Ago

The meeting was called to order by pres. Frank Carman at 8:15 pm. An interesting film on Weather from the PG&E provided by Bob Richier was shown. Minutes of last 3 meetings were read and approved. Frank made a report on the code classes. They started out with 9 but dropped off to about 3. Frank and Jim Carman have held classes most of the time so far. Sage Otow and Dick Lund will conduct class on Apr. 16. Walt Dowdy and Bob Richier on Apr. 23. A motion was passed to give Jim Carman another \$5.00 for prizes for next meeting. Field Day was brought up, it was suggested those interested make up a list of needs and bring to next meeting. Jim Carman said he could provide a 2 meter station. A fair booth was brought up. This was tabled until after field day. A family party was also discussed for some future date. Prizes were given away. Coffee and donuts were enjoyed during and after the meeting. The meeting was adjourned at 9:50 to a brief rag chew.

Guests present: John Davis, WA6OJQ, Bob Coiling, WN6AEU, and Bill Dowdy son of W6PMF.

James M. Carman

Twenty Years Ago at SFARC

April Minutes

Mary Ann, N6HJA, opened the meeting at 7:30. Tim Hastrup, WA6PZW, gave a very good presentation about Hewlett Packard computers and their use on the amateur bands.

Treasurer's Report

Raffle Lund	219.55
Club	722.97
Repeater	92.78

John, KA6LNC, reported on a meeting held at Mountain View. That group of concerned hams opposed a no code license. They felt the manufactures were behind no code so as to sell more gear

Jim, K6ARR, attended the NARCC meeting to assure we keep our freq. pair clear. He also paid dues.

The Christmas party will be at the old firehouse in old Auburn Sat. Dec 17th.

A club table will be reserved for SFARC, at the Sacto Valley Ham Swap May 1st. 9-3. Club table 97.

Meeting night has been changed to the second Friday of each month by majority vote. The net remains on every Thurs.

Ken, WA6EMU made a motion to bypass reading of the minutes. Motion seconded by K6PHE. Motion passed by majority vote. Raffle prizes won by Torn, KA6CVW, Gordon, W6MYV, John, KA6LNC, Dick, WA6HYO, and Russ

Meeting closed at 9:20.

73,
Gary, KQ6RT

*Amateur
Satellites*

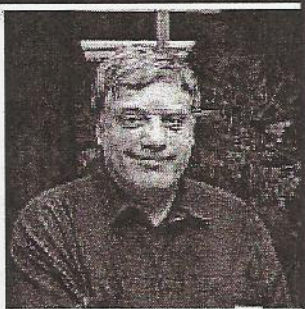
**Greg
KO6TH**



(Rumor has it that Greg has been heard calling "CQ Pioneer" in an attempt to set a true DX record. No word on success or failure yet, but we hope he'll return to Low Earth Orbit next month. Ed.)

*Digital
Musings*

**Rob
WW6G**



The solar flux numbers have been going lower with a low this month of about 90. This means that we have been "skip challenged" this month. Fortunately, the solar flux number

rose towards the end of the month with a 147 today [March 29th]. So for now things look a little better.

The low numbers need not proclaim the end of DX. This month I worked Madiera Island [off Gibraltar], the Canaries and, of course, Japan. In an interesting experiment, I succeeded in working Antarctica on QRP and won the prize in the El Dorado County Amateur Radio Club QRP contest for the longest QRP contact. So I guess this all stands for the proposition that even when propagation is relatively poor, opportunities always exist. Interestingly, ALL of the really long contacts were PSK31 which, I guess, confirms in experience Claude Shannon's results.

I find that 10 meters [28.120 for PSK] is sometimes open. When it is, you can usually work Japan there. 10 meters [28.120 PSK] is where I found Antarctica – EM1U. He has been there for the last week or so. When 10 is not open, drop down to 15 [21.070] and you will usually find some traffic there. Usually the same cast of characters. 20 meters usually has traffic during the day, but less so at night. Start at 14.070 for PSK, but tune up through 14.085 or so to find MFSK, RTTY, some Pactor, etc. Finally, at night, 7.070 begins to get active.

This month's best contest for digital people is the 2003 Spring Wakeup -- TARA Rumble. It will be held on April 19th 0:00→24:00 UTC. You can get all the details at <http://www.n2ty.org/>. It is a major psk event. While you are at it, why not check out the 070 Club at http://www.podxs.com/html/070_club.html

Well, 73 and hope to print you real soon.

Rob, WW6G

VE Report

On March 1st the VE team held a session with good results. We administered 8 exam elements with 3 new technician class operators and 3 new general class operators. We had 2 unsuccessful technician exams.

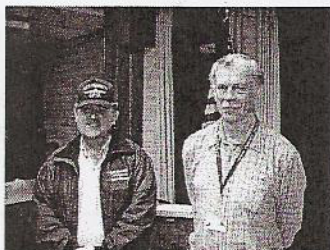
The next VE session will be held on April 5, 2003 at Folsom Lake College Center starting at 8:00 AM and running until about 10:30AM. All amateurs and non-amateurs wishing to take an examination element are welcome and walk-ins are welcome. Additionally, any amateur who would like to participate with the VE team is invited to come down and see if this is something he or she might want to become involved in.

You can read more about the VE team at <http://www.sf-arc.org/html/modules.php?name=Content&pa=showpage&pid=4>.

(Those who receive the SFARC News as a PDF file via e-mail can simply click on the URL's in each issue. Readers of paper copies can just go to the club's home page (www.sf-arc.org) and mouse around to the right page to save typing in all the characters above. Ed.)

USS Hornet ARC Presentation

As mentioned by our officers, the members and guests at the March meeting were treated to a great presentation by Al Tipsword, W6GER, and LtCmdr Tom Hale, KB6SSN. Al



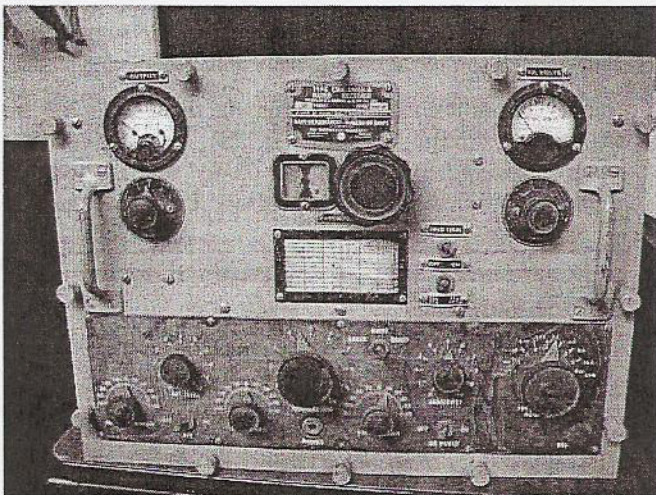
accented his presentation of the history of the USS Hornet with a slide presentation and a video featuring a WW-II film.

The USS Hornet traces its name back to a sailing ship launched in 1775, and the current US Navy ship

(CVS-12) is the eighth in the name's legacy. In April 1942, the first aircraft carrier to carry the name (CV-8) took LtCol Jimmy Doolittle and 16 B-25 Army Air Corps bombers to the far east where they launched the now famous raid on Tokyo. Six months later, CV-8 was fatally damaged in the Battle of Santa Cruz and was later sunk by US Forces to prevent it from falling into enemy hands.

The next USS Hornet served throughout the Cold War and deployed to Southeast Asia three times during the Vietnam War. In 1969, the Hornet made history with the recovery of the Apollo 11 and 12 spaceships from the Pacific.

The USS Hornet was decommissioned on June 26, 1970, and through the work of a number of people, was prevented from being sold for scrap. It is now docked at Alameda NAS here in California as a museum. Lt. Cmdr. Hale formed the USS Hornet ARC in 2002 to help preserve the radio history of the ship. The Club holds the call NB6GC (the Hornet's call was NBGC), and is working to preserve and restore the radio spaces and equipment aboard the ship.



The photo above is a CMX-46156 WW-II vintage receiver used aboard the Hornet and many other navy ships, and which Al brought (at no small effort – it weighs over 40 lbs!) to the meeting. The club operates a net on Wednesdays at 2130 Pacific on 3.857, and all amateurs are welcome to check in.

Many thanks to Al and Tom for a great presentation.

NB6GC On The Air

The USS Hornet ARC invites all amateurs to contact NB6GC in commemoration of the Doolittle raid on Tokyo. The radio spaces will be in full operation from 0900 on April 18 to 1700 on April 19 (Pacific time). SSB frequencies will be 3.857, 7.260, 14.320, 21.320, and 28.320 MHz. CW will be on 3.530, 7.030, 14.030, 21.030, and 28.030. RTTY frequencies will be announced. NB6GC will also be active through IRLP node #5110.

They ask for an SASE for a commemorative QSL, and are also offering a "Complete QSL Package" which includes a shoulder patch, a certificate, a CD-ROM with over 200 photos of the ship, and the QSL card. They are asking for a donation of \$7.50 for the package with the proceeds benefiting the radio restoration efforts.

Additional information: hornetinfo@halemail.com

Elmer Me, Elmer Me

Casey McPartland, W7IB

Lately, and since 9/11, I've noticed that there are ever-growing numbers of new hams being made. Some of these "newbies" are quickly active, but many are not. It seems to me that the ones that are being brought in through the ranks of clubs, or public service/safety organizations probably have their clubs or organizations to fall back on, but many do not. Various things including school, magazine articles, or just good old-fashioned curiosity attract them. Another thing that I've noticed, because I check such things, is that the dropout rate (those that don't renew their licenses) is equal to or may be greater than the entry rate! That's the number that tells me that we have a problem.

I have recently spoken to a number of new hams through out the Sacramento area and have found that many of them grow frustrated that they can't get information, or help. "How do I ...?" or "Where can I ...?" are common questions that I hear. These poor folks don't have the basic grounding to ask "the right question(s)" to get help or the flow of information going. We have such great resources available to us today via the Internet, but some people don't have the basic knowledge to get on "Google" or some other search engine and put in "ham radio" – they only need someone to give them direction.

This is where we, the Elmers, come in. "Me?", you might ask, "I don't know enough to become an Elmer. Why I'm just short of a 'newbie' myself!" Being an Elmer in today's amateur radio doesn't take much more than just offering some information and a friendly helping hand. You never know, you might wind up with a friend!

The folks that I've been running into need advice on how to program the "danged ht", or where to find wire, or where to get information on EMCOMM, etc., etc., etc. Nothing too technical, huh? If I don't know, I get their contact info and find the resource for them; I don't think that it makes me any

less an Elmer. By the way, the SFARC website is a good place to send folks who have questions and for us to go to get questions answered (check out the various forums at www.sf-arc.org).

We will have a better hobby with more excited, stronger operators if we just take the time in the very early newbie phase. We have examples, right in our own club, of individuals that came looking for information, or exposure, or fellowship, or just plain help, and turned out to be some of the best and most exuberant op's...these are great examples of what a little Elmering can provide, and of what the hobby is all about. Call it nurturing, being helpful, or just plain being friendly, whatever it is, we *are* Elmers when the new op can say, "...and the folks at the club really helped me get a foothold in the hobby!"

There are other ways to retain the operators that are getting licensed in record numbers, but sometimes "old school" is best, and regardless of technological advances Elmers and Elmering have made, and will continue to make our hobby strong. So when the words "Elmer me" present themselves, spoken or unspoken, take a "leap" and help make the greatest hobby in the world a little bit stronger!

Sacramento Valley Section Nets

The Sacramento Valley Section Nets are held on the 2nd Wednesday of each month at 1900 on 146.085 [+600/127.3] (Yuba Sutter ARC repeater), and at 1930 on 3.987 MHz. NCS is usually Jettie, W6RFF, our Section Manager.

The Section ARES net meets on the 1st, 3rd, and 4th Wednesday of each month at 1930 on 3.987 MHz. Dave, K6SOJ, is the Section Emergency Manager, and he and others will be NCS.

North Hills RC Annual Swap Meet

The NHRC will hold its annual Ham Swap on May 18, 2003 at Bella Vista High School, from 0600 to noon. Seller spaces are \$10 (2 car stalls), and there is free parking for buyers. Raffle tickets are \$1.00 each with an abundance of prizes with drawings hourly. They will have 5 Grand Prizes this year: IC-2720H, MFJ-4245MV, BC80XLT scanner, M-24M-2 70cm magmount antenna, and a pair of Motorola FRS radios.

Bella Vista HS is located on Madison Ave., between Fair Oaks Blvd and Kenneth Ave. Contact Kim Scheidel, KE6RKX, at 916.991.9496 or scheidel@inreach.com or visit the NHRC web site at www.k6is.org.

Club Picnic Scheduled

Bob, WA6ULL, reports that the annual Club Picnic has been scheduled for May 4, and will be held in the common park area at the Pinebrook Village Mobile Home Park at 9700 Folsom-Auburn Road in Folsom. Plans are to eat promptly

at 12 noon, so Bob advises not arriving "fashionably late" if you are hungry. Contact Bob at 916.987.9910 for additional information.

SFARC Web Site URL

Rob, WW6G, would like to remind everyone that the SFARC Web Site URL is www.sf-arc.org ... the "-" is critical. If you enter the URL without the hyphen, you'll find yourself browsing the San Francisco Amateur Radio Club web pages.

Ham News of the Nation

(Courtesy of the ARRL Letter and Bulletins)

Vanity Call Fee Increase Proposed

The FCC proposed March 26 increasing the regulatory fee to apply for, renew or reinstate an Amateur Radio vanity call sign from \$14.50 to \$16.30 this fall. The Commission included the new fee in a Notice of Proposed Rulemaking (NPRM) "Assessment and Collection of Regulatory Fees for Fiscal Year 2003" (MD 03-83), released today.

The closing date for comments on the new fee schedule is April 25. Reply comments are due by May 5.

"We estimate that 9800 applicants will apply for vanity call signs in FY2003," the FCC said in its NPRM. That's up by 800 from FY2002. It expects to collect revenues of nearly \$160,000, an increase of almost \$30,000 from FY2002.

The FCC NPRM also seeks comments on its efforts to review, streamline and modernize its fee assessment and collection processes and procedures. "We welcome comments on a broad range of options in this regard," the FCC said. Areas of particular interest include suggestions for improvement in the agency's electronic payment system.

Interested parties may comment via the FCC's Electronic Comment Filing System (ECFS) on the web at, www.fcc.gov/cgb/ecfs. Enter "MD 03-83" in the "Proceeding" field. Electronic comments by e-mail also are welcome.



4755 Pacific St., Rocklin, CA 95677-2407

Manager: Randy Erwin

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<ur29@unitedrentals.com>

**MAJOR SPONSOR OF
THE SFARC FIELD DAY!**

Slow-Scan Television

Over the last few months, we've been covering (and in some cases having meeting presentations) on various amateur radio modes. Rob, WW6G, has covered several of the currently popular digital modes, all of which add to the enjoyment of the hobby. This month, we'll delve into Slow-Scan Television (SSTV) a bit.

First off, this is not an April Fool article ... you really can transmit pictures on HF in a 3 KHz bandwidth. It all began in the late '50s when Don, W9NTP, began experimenting. Moving pictures contain a lot of information, and transmitting them via radio requires a very significant bandwidth. The standard analog broadcast TV channel is 6 MHz wide, and transmits each "frame" as 525 horizontal lines, sending 30 frames per second to avoid flicker. Video is transmitted using AM with most of the lower sideband suppressed. The audio is transmitted on a separate carrier at the top of the channel using FM.

To send pictures on HF, we have to reduce the information rate drastically, hence the term "slow scan." Don did this by reducing the number of lines per frame to 128 or so, and scanning each frame in 8 seconds instead of 1/30th of a second. The modulation was also changed to AFM (audio FM), where white was sent at an audio frequency of 2300 Hz, black at 1500 Hz and shades of gray in between. A short pulse at 1200 Hz at the beginning of each line provided the synchronization.

Vidicons were the cameras of the day, and required the usual amateur "modifications" to make them work at the slow scan rates (the charge for each pixel in the image tended to leak off before the electron beam got to it). Receiving was a problem as well ... it took 8 seconds for the picture to "paint" onto the screen, so all you saw on a normal CRT was a horizontal line moving downward.

Fortunately, military and FAA radar used CRT's with a unique phosphor called "P7." It glowed bright yellow when struck by the electron beam, and then slowly faded over 10 seconds or so to orange and finally black. Within those 10 seconds, the radar sweep would have come back around and refreshed the image, so radar targets would be continuously visible. Hams adapted these tubes for SSTV, and the image would paint downward on the screen, slowly fading from the top down. SSTV consisted mainly of a more or less static image such as a photo sent every 8 seconds. Moving images looked like a CalTrans highway camera on the morning traffic update on TV.

Things are vastly different today (aren't they always?). Computer software and a sound card can generate, receive, and display SSTV. The standards have evolved also, into a number of different modes, and to color images.

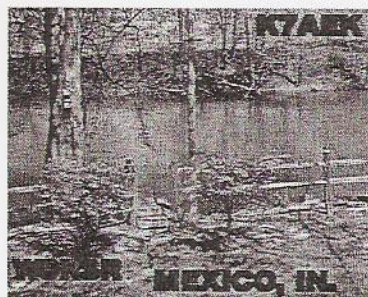
To transmit color, you send each line three times, each containing only the red, green, or blue components. The display on the computer adds these three lines together to form a full color picture. The price is that it takes at least three times as long to send the picture.



The above picture was received in color in Auburn on 3/27/03 at about 1430 PST on 20 meters. This image was transmitted in "Scottie 1" mode, and took a minute and 50 seconds to send because Scottie 1 is a high resolution mode.

Want to try it? Your PSK31 software may have an SSTV mode ... MixW, which Rob demonstrated at the meeting, does. You can also download MMSSTV, a Windows program for free. It provides a number of features including the ability to catalog a stock of pictures, call them up with a mouse click, add text and templates, and the like, and it supports all of the commonly used modes. Just connect your receiver audio output to the line input on your computer, fire up the software, and you're watching HF television.

You'll find a lot of SSTV activity on 14.230 MHz most any time of the day when the band is open. 21.340 MHz is another common frequency, and 7.175 MHz is used a lot at night. Don't worry about what mode is being sent ... the



software will detect that and set itself up appropriately.

The "595" is a signal report where the five and nine mean the usual readability and strength, and the last digit denotes the quality of the received image from

1 (barely perceptible) to 5 (essentially as good as the original, or "closed-circuit" as SSTV'ers say).

Transmitting requires that you have some sort of interface that will switch your microphone input to the sound card output, and then back to the mic so you can chat with the other station. The RigBlaster is a commonly used commercial interface, but you can also just use a switch.

There's DX on SSTV as well ... it's a very popular mode in Europe, South America, and the Pacific. CO7GG is a regular on 14.230 MHz. You may already have the equipment and software so give it a try.

**SIERRA FOOTHILLS AMATEUR RADIO CLUB
2003 MEMBERSHIP APPLICATION**

Name: _____ Call: _____ Class: _____ e-mail: _____

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
P.O. Box 1005
Newcastle, CA 95658

