

Sierra Foothills Amateur Radio Club

Newsletter

users.newworld.net/wingman/sfar
August 2002
P.O. Box 1005, Newcastle, CA 95658



PRESIDENT

Richard Kuepper, WA6RWS
530.878.6220
rkuepper@juno.com

VICE PRESIDENT

Eldred Wilkerson, KD6ZSL
530.878.6223
kd6zsl@yahoo.com

SECRETARY

Steve Faulkner, KF6OCE
916.725.3255
SEFaulkner048@aol.com

TREASURER

Mike Hudson, KG6EFK
916.624.4714
mihudson@firstam.com

DIRECTORS

Debbie Cunningham, KF6LXN
916.663.4143
dmc@midtown.net
Bob Boeckman, WA6ULL
916.987.9910
wa6ull@aol.com

Roger Hedgpeth, N7TK

916.983.2912
rolifo@aol.com

REPORTERS

Satellite Report

Greg Dolkas, KO6TH
30 Years Ago at the SFARC
Gary Cunningham, KQ6RT

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, K6WJM

WEBMASTER

Chris Wright, KF6OGD
wingman@newworld.net

NEWSLETTER EDITOR

Fred Jensen, K6DGW
VOX: 530.885.8251
FAX: 530.745.9622
k6dgw@arri.net

2002 Calendar of Events

(Operating Events in Italics)

- | | |
|-----------|-----------------------------|
| Aug 9 | Regular Meeting |
| Aug 17 | CLUB PICNIC! |
| Aug 17-18 | ARRL 10 GHz and Up Test |
| Aug 31 | Club Breakfast |
| Sep 13 | Regular Meeting |
| Sep 14-16 | ARRL Sep VHF QSO Party |
| Sep 21-22 | ARRL 10 GHz and up Contest |
| Sep 28 | Club Breakfast |
| Oct 5-6 | California QSO Party |
| Oct 11 | WHITE ELEPHANT SALE |
| Oct 26 | Club Breakfast |
| Nov 2-4 | ARRL Sweepstakes (CW) |
| Nov 8 | Regular Meeting (elections) |

IN THIS ISSUE

Officers' Reports

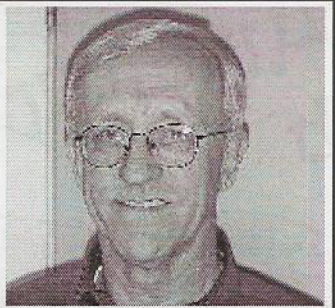
W6SUP SK

"Elmer's Glue-All"

Most Valuable Operator Award

From the President's Shack

**Richard
WA6RWS**



The Tevis Cup was held recently and our very own Fred Jensen, K6DGW had his picture in the Auburn Journal. He sure is a handsome guy!!

Everyone is welcome to the board meeting which will be held on August 2nd at the Round Table Pizza Place in Loomis next to Raley's.

The general meeting will be August 9th at the Auburn Library. Bring your family and friends for a good time.

August is the month of our picnic and it will be held again in Rec Park off of Racetrack in South Auburn on August 17th starting around 11am. The club will provide the hamburgers and hot dogs and drinks. Please bring side dish and or dessert.

The summer has sure gone by very fast. It won't be long and we will be electing new officers and board members for the coming year. If you are interested, please contact me or any of the officers or board members.

See you all in August at the meetings.

73,

Richard, WA6RWS

Vice President's Corner

**Eldred
KD6ZSL**



August 9 Program Will Feature "BloodSource"

At the August meeting, Leslie Botos of BloodSource (formerly the Sacramento Medical Foundation Blood Center) will discuss the challenges of managing the nation's blood supply in times of disaster, and how amateurs can help them in meeting that challenge.

Leslie will illustrate her presentation with history from September 11, and will discuss the roles that amateurs either already do or could perform to assist.

73,

Eldred, KD6ZSL

Secretary

**Steve
KF6OCE**



Board Meeting – June 7, 2002

Present at meeting:

Bob Boeckman, WA6ULL	Board Member
Linda Boeckman,	General Member
Debbie Cunningham, KF6LXN	Board Member
Steven Faulkner, KF6OCE	Secretary
Roger Hedgpeth, N7TK	Board Member
Richard Kuepper, WA6RWS	President
Casey McPartland, K6WJM	General Member
Eldred Wilkerson, KD6ZSL	Vice-President

19:26 SFARC 2002 Club President Richard, WA6RWS, called the June SFARC board meeting to order. He announced that the speaker for the June General meeting would be Jim Maxwell, WW6F. Richard then passed around a list of new hams that was sent to him from the ARRL. He then opened the topic for the night, "Field Day".

Arrival time to the Nyack Field Day site should be anytime after Friday Afternoon. Food for lunch and dinner (with potluck side dishes) will be provided but bring your own extra snacks and breakfast.

The area to be used is now fenced and entry should be only thru the gate and on established road surfaces. Avoid taking the short cut across the green area; it has sprinkler heads that can be damaged.

Insurance will be needed and a copy will be provided to Grant Wells, the owner of the Nyack site.

Richard, WA6RWS, will procure the buns, salad dressing, lettuce, sodas, (diet and non diet) potato chips, condiments and bottled water. Debbie, KF6LXN, will procure the London broil and chicken. Everything else will be potluck.

MARS: Bob, WA6ULL, discussed the possibility of moving the MARS site from Mt. Diablo to Auburn. He is trying to get Jim, K6ARR, and Bob Griffin together to discuss the feasibility.

Speaker Program: Jun/Jerry Boyd and/or Jim Maxwell; Jul/Rob Carpenter on PSK31; Aug/Leslie Botos of BloodSource; Sep/open; Nov/Open; Oct/White Elephant Sale; Dec/Christmas dinner.

20:16 Meeting Adjourned.**Regular Meeting – June 14, 2002**

19:30 President Richard, WA6RWS, called the June general meeting to order. He opened the meeting with a call for the Pledge of Allegiance to the flag. He then made officer introductions, followed by member and guest introductions.

Vice-president Eldred, KD6ZSL, gave a summary of the upcoming speaker schedules. **Jul/Rob** Carpenter, WW6G, on PSK; **Aug/Blood** Center; **Sep/Greg**, KO6TH, on satellites; **Oct/White Elephant** Sale, **Nov/TBA**

Roger, N7TK, suggested that we generate a letter of appreciation to Grant Wells for his continued support of SFARC. Grant Wells has allowed the SFARC to use his property at NYACK year after year for our Field Day site.

A VE committee report was given. On the last session, 17 elements were taken, 3 failed, 3 passed to extra, 2 passed to general and 8 passed the technician elements. The next VE session will be on July 6th.

Greg, KO6TH, gave a brief satellite report.

Sunshine Report: Bob, WA6SUP, is not doing well.

Gary, KQ6RT, displayed the raffle items for the evening.

Jim, K6ARR, gave a short repeater report.

Richard, WA6RWS, made a final call for any old business. There was none, and he called for new business.

Field Day. Richard, WA6RWS, reminded everyone to bring a side dish for potluck to supplement the lunch and dinner. The club will provide hamburgers and hot dogs for lunch on Saturday.

Notices: Rocklin parade on the 29th of June. Show up at the Rocklin PD at 08:15.

Club breakfast: Last Saturday of month except this one. Our nets were announced for 19:30 each Thursday and the board meetings will be 19:30 on the first Friday of each month as usual at the Round Table Pizza located on Horseshoe Bar Road. All are invited to attend.

20:05 Richard, WA6RWS, called for a break

20:25 Jim Maxwell, WW6F, began his presentation.

20:57 Presentation ended and raffle began.

21:02 Richard, WA6RWS, closed the meeting.

Board Meeting – July 5, 2002

Present at meeting:

Bob Boeckman, WA6ULL	Board Member
Linda Boeckman,	General Member
Debbie Cunningham, KF6LXN	Board Member
Steven Faulkner, KF6OCE	Secretary

Roger Hedgpeth, N7TK	Board Member
Mike Hudson, KG6EFK	Treasurer
Richard Kuepper, WA6RWS	President
Eldred Wilkerson, KD6ZSL	Vice-President

19:40 2002 President Richard, WA6RWS, called the July board meeting to order.

Bob, WA6ULL, made a motion to reimburse Gary, KQ6RT, the total of \$91.59 for rental fees incurred in the rental of the Generator from United Rentals for Field Day. Roger, N7TK, seconded the motion. Motion carried unanimously.

Richard then went around the room asking for any new business.

Treasurer Mike, KG6EFK, gave a short report on the state of the club treasury. As of this date we have \$1818.00. A year ago on this date we had \$701.00. We also had four new members this month from last month.

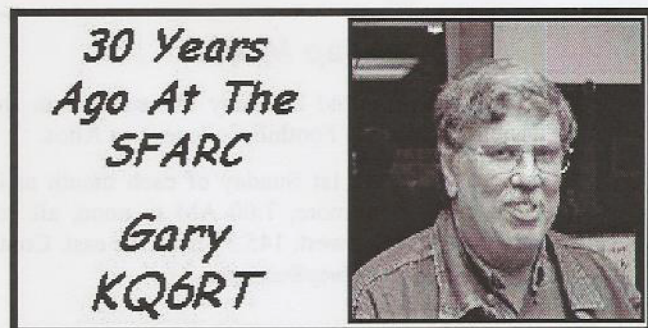
Eldred, KD6ZSL, announced the next general club meeting speaker would be Rob Carpenter. His topic will be PSK31.

Debbie, KF6LXN, reported that the Gold Country Fair would be charging \$150.00 per booth. It did not appear as if they would waive the fee for the club. All present agreed that we would not be putting a booth up at this event.

20:25 Richard, WA6RWS, closed the meeting

Respectfully submitted

Steven Faulkner, KF6OCE
Secretary



This month we are going to take a look at what happened thirty years ago, because August 2002 marks the thirtieth anniversary of the reformation of SFARC into the club as we know it today.

The last meeting of the original club was held in June of 1967. It is unclear what happened, and there are no clues revealed in the minutes of the meetings. Perhaps there was just a lack of interest? Maybe there are some of the original members out there who still remember. For whatever reason the club remained dormant, until two members stepped forward and took the initiative to put things back together.

The following is taken from the SFARC minutes:

(Last official meeting of club-June 1967)

August 1, 1972

. Five years later Ken Weger took what was left of club and reorganized K6CBP into a two meter repeater station with Jim Carman as president and Ken Weger as secretary / treasurer. Weger has sent out a questionnaire to former members for above approval. Most agreed and it was so acclaimed, SFARC now active again!

In order to chronicle the evolution of the club as we all know it, beginning next month, this column will also feature "What Happened Thirty Years ago", in addition to the regular "What Happened Forty Years ago",

73,
Gary, KQ6RT

*Amateur
Satellites*

**Greg
KO6TH**



(Greg's column did not make it in by this month's deadline. Greg will return to orbit next month, hopefully)

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

VE Test Report

(A formal report was not submitted by the VE Team this month, however Casey, K6WJM, told your editor that, three people either obtained or upgraded their licenses at the July session)

For Sale

1. Yaesu FT-411 2 Meter hand held. Needs new battery
 2. Azden PCS-4000 2 Meter mobile.
 3. Icom IC-V68 2 Meter Hand held w/standup charger.
- Take all for \$200.00 or make offer.

Matt, KC6RUO mdiridoni@rsvl.net

Yaesu FT10R with 2 battery packs and an alkaline battery pack. Hard carry-case, and drop-in charger, adapter for external antenna, as well as the ADMS-1B programming software. Best offer taken

Contact Wayne, KE6DJE
916-645-0565
watcher111@sbcglobal.net

W6SUP - SK

It is with many regrets that we report the passing of Bob Metke, W6SUP. Bob died July 7, 2002 from complications of years of diabetes. He was born in Oakland, CA on December 29, 1917, the son of Charles and Joyce "Rose" Metke.

Bob served in WW2 in the US Army Air Corps as a radio technician, and graduated from Western Central Trade School, majoring in electronics. Prior to becoming a police officer, he worked as an electrical technician at McClellan Field. Thereafter, he began a 27-year career with the Roseville Police Department, retiring in the grade of Sergeant in 1973.

We, of course, remember Bob as W6SUP, along with his surviving wife of sixty years, Geri, K6GKR. Long a fixture on 20 meters AM and then SSB (their small lot in downtown Roseville resembles a Voice of America station's antenna farm), Bob and Geri were well known on 2m, and occasionally hosted hams from other countries.

In the last decade or so, Bob was the organizer of communications for the annual Roseville Christmas Parade, and he and Geri began VE testing under the W5YI VEC shortly after the volunteer program was instituted by the FCC. A great many hams in this area passed their exams at 511 Oak St.

At Bob's request, no services were held. An informal reception and gathering was held at their home on Sunday, July 28 to celebrate Bob's life. As usual, a large group of hams did what hams have always done ... gathered in Geri's kitchen and remembered stories of Bob.

Sac Valley Section Net

(ARRL Section Bulletin)

There will be a Sacramento Valley Section net on 3987 KHz each Wednesday at 1930 local. Net control will rotate. K6SOJ, Section EC, will be the Net Manager.

Jerry Boyd, K6BZ
Sacramento Valley Section Manager



There are some changes happening with the ARES team, and I wanted to let you know myself what they are so you aren't hearing rumors and coming to the wrong conclusions.

I am resigning as the EC for the team effective Tuesday June 25, 2002. I have talked to DEC Gary Willett, KB7QWC, and have given him my reasons for this. Please be assured that it is not because of anything any of the team members has done, but for personal reasons.

Gary is going to be taking the reins as the TEMPORARY/ACTING EC. I have made several recommendations as to which of you would be good choices to replace me -- please consider the position if you are contacted by Gary or Dave Thorne, K6SOJ, SEC Sacramento Valley Section.

I will be remaining with the ARES team as an active member and will assist the incoming EC in anyway I can.

If you have any questions about my decision I'll be happy to tell you in person or on the phone, but please not on the air.

73,

Wayne Mikel, KE6DJE

SFARC Trivia

Last month's question was, "What does 'CW' really stand for and how did it come to mean communicating with a keyer?"

"CW" originally stood for "Continuous Waves." The first radio transmitters (before invention of the vacuum tube) consisted of a high voltage source, a capacitor, a spark gap, and an antenna array. The capacitor would charge until the spark gap broke down and discharged it very quickly. This caused alternating currents to flow in the antenna which then radiated, much like striking a bell causes it to ring and radiate sound waves. The capacitor then recharged, and the whole process started over, happening many times a second.

The frequency of the radiation was determined by the resonant frequency of the antenna, and, just like a bell, losses and the radiated energy caused the alternating currents to die out, normally after a few cycles. These were termed "damped waves," in that each discharge of the capacitor produced a train of electromagnetic waves which decreased in amplitude (i.e. "damped" out), to be followed by yet another train. These signals were broad and sounded like a raspy buzz when the key was down. Some experimentation was done to see if they could be modulated with voice, but their inherent raucous sound yielded little success.

With the invention of the vacuum tube which could be configured to oscillate and generate high frequency alternating currents, the situation changed dramatically. The resonant circuit(s) that determined the frequency could now be moved from the antenna to the transmitter in the form of capacitors and inductors, and much more control exercised

over the frequency. This also increased the stability of the signals dramatically. Most importantly, however, was the fact that when the key is down, the transmitter produces power (and radiated signals) at a steady amplitude. These were termed "continuous waves," a name that made sense during the transition from spark to vacuum tube transmitters.

Having a steady source of RF also made it possible to modulate the amplitude with voice and music, and thus AM was born. Once spark transmitters and damped waves faded from the scene, however, the term "continuous waves" lost its meaning since all waves were continuous. Slowly over time, and for no apparent or obvious reason, "CW" began to mean radio communications using Morse Code, as opposed to "Phone," which universally meant amplitude modulation.

It would be a number of years before Edwin Armstrong tried modulating the frequency of the signal rather than it's amplitude, and FM came about. Later developments with silicon, microprocessors, and computer programs led to the hand held on your belt ... which, in a technical sense and like every other transmitter we use today, is a "CW" transmitter since it radiates continuous waves.

National Ham News

"Section News"/Line Scores leave QST

(From ARLB046)

Starting next January, "Section News" and contest line score results will appear on the ARRL Web site rather than in QST. Meeting July 19-20 in Windsor, Connecticut, the ARRL Board of Directors voted 9-6 to approve a resolution formally relocating "Section News" to the ARRL Web site. "Section News" has appeared in the League's official journal at least since 1919. The "Section News" Web sites—already in place--will provide the officials of each ARRL section "the capability of an up-to-date information resource that can be tailored to the needs of their section," the resolution said.

The space freed up by relocating "Section News" will allow more in-depth coverage of general news, public service activities and "how-to" articles aimed at involving more amateurs in emergency preparedness. Members unable to use the Web can request their section's reports in hard-copy format.

The Board resolution noted that the past six months had given members the opportunity to understand the reasons for relocating "Section News," to discuss alternatives and to better understand and see the advantages of the expanded content available on the Web site.

Voting for the change were Directors Dick Isely, W9GIG (Central); Jay Bellows, K0QB (Dakota); Frank Fallon, N2FF (Hudson); Wade Walstrom, W0EJ (Midwest); Tom Frenaye, K1KI (New England); Dennis Bodson, W4PWF (Roanoke); Walt Stinson, W0CP (Rocky Mountain); Art Goddard, W6XD (Southwestern); and Coy Day, N5OK (West Gulf).

Directors Bernie Fuller, N3EFN (Atlantic); Rick Roderick, K5UR (Delta); George Race, WB8BGY (Great Lakes); Greg

Milnes, W7OZ (Northwestern); Jim Maxwell, W6CF (Pacific); and Frank Butler, W4RH (Southeastern), voted against the change.

In a separate resolution approved by voice vote, the Board agreed that the ARRL Web site now provides a better medium to report the results of ARRL-sponsored contests, and line scores no longer will appear in QST. The change does not affect ARRL Field Day results, which will continue to be published in the magazine. (*Ed. Note: Technically, the ARRL does not consider FD a contest*) A Web site established earlier this year now includes, among other features, a searchable database of contest line scores for members and the ability to easily analyze individual and club scores. There's also an on-line Soapbox to post comments and photos immediately after a contest, as well as an expanded narrative for each event. The ARRL also now offers members the free Contest Rate Sheet newsletter, which focuses specifically on contesting.

UK to Authorize 5 MHz Experimental Operation

(ARRL Letter 21-29)

Amateur Radio experimental operation on 5 MHz in the United Kingdom could begin as soon as early August. The Radio Society of Great Britain has announced that the Radiocommunications Agency (RA) and the UK's Ministry of Defence have granted permission to allocate five frequencies in the range 5250 KHz to 5450 KHz. The announcement opens up the possibility of the first Amateur Radio transatlantic contacts on 60 meters.

Earlier this year, the FCC, responding to an ARRL petition, proposed allocating 5250 to 5400 KHz to US amateurs on a secondary basis. ARRL-sponsored experimental operation under the call sign WA2XSY continues.

The RSGB said the purpose of what it's calling "The Fivemegs Experiment" is to carry out propagation and antenna investigations aimed at improving the understanding of near zenithal radiation or near-vertical incidence skywave (NVIS) propagation. Frequencies to become available are 5260, 5280, 5290, 5400 and 5405 KHz. "These will be made available in the form of 3-kHz bandwidth channels by way of a Notice of Variation (NoV) to individual Amateur Radio licence holders," the RSGB announcement said. Applications will be accepted starting July 29.

According to the RSGB, NoVs will only be issued to Full Class-A license holders. As a "controlled experiment," UK amateurs authorized to operate on 5 MHz will be required to report their findings and results to the RSGB.

The Radiocommunications Agency is expected to issue the first NoVs on or around August 1, with experimental operation getting under way a day or two later. The RSGB anticipates that the experiment will run for up to four years, terminating around August 2006.

An application form for UK amateurs and further details are available via the RSGB Web site <<http://www.rsgb.org>> or via e-mail ar.dept@rsgb.org.uk.

An amateur allocation in the vicinity of 5 MHz has long been an objective of the International Amateur Radio Union. The IARU's Administrative Council has approved a long-term goal of "a narrow allocation, even on a shared basis in the vicinity of 5 MHz."

Vanity Call Sign Fee to Increase Sep 9

The FCC has officially set \$14.50 as the cost to apply for, renew or reinstate an Amateur Radio vanity call sign. According to a Report and Order adopted July 3, the new fee will become effective for applications received on or after September 9. The current vanity fee is \$12 for the 10-year license term. The FCC had proposed the new, higher fee in a Notice of Proposed Rulemaking (MD Docket No. 02-64) released March 27 to set Fiscal Year 2002 fees.

In its R&O, the FCC took the opportunity to justify its charging the vanity fee for vanity renewals as well as for initial applications. In comments filed in the proceeding, the FCC said, Steven Karty, N5SK, and William J. Hanrahan, W1WH, supported the payment of a regulatory fee to cover the initial administrative cost but questioned having to pay the fee upon renewal.

Hanrahan suggested that the FCC should be able to reasonably adjust the fee it charges initial vanity call sign applicants based upon actual administrative costs and that renewals should not incur any additional overhead. "Further, subsequent to the initial license term, no distinction should be made between vanity calls and systemically assigned calls," Hanrahan commented. The FCC now distinguishes between vanity and sequential call signs in its database as "HV" and "HA" respectively.

The FCC said that because it continues to incur costs related to vanity call signs even after their issuance or renewal, it believes the regulatory fee at renewal is appropriate. "Section 9 of the Communications Act, as amended, provides for the recovery of the Commission's costs associated with its enforcement, policy and rulemaking, user information, and international activities," the FCC said in its Report and Order. "Every day, Commission staff are engaged in activities involving amateur vanity call signs, such as protecting the assignment of vanity call signs, investigating complaints on the improper or illegal usage of call signs, requests for call signs that are already assigned to someone else, and all related research that is necessary to insure the proper assignment of call signs."

The FCC said it must collect nearly \$218.8 million through regulatory fees to recover its costs for FY2002. That's \$18.6 million--or approximately 9.3 percent--more than the amount designated for recovery through regulatory fees in FY2001. Of the total, the FCC estimated vanity fee revenue for FY2002 at \$130,500. The FCC has estimated that 9000 applicants would apply for vanity call signs in FY2002.

A copy of the FCC Report and Order is available at: http://hraunfoss.fcc.gov/edocs_public/attachmatch/FCC-02-205A1.doc.

Elmers Glue All

(by Casey McPartland, K6WJM)

Lately I've been struck by something that most of us who've been around the hobby for more than 20 years never gave much thought to, and that is that newly licensed hams today have a unique problem - many of them don't have an Elmer.

The changes in testing, the cutbacks on code requirements, and the elimination of the Novice Class has certainly made entry to the hobby easier, and has yielded huge growth in the number of licensees, but has it really been fair to the new hams, and the hobby overall? I have actually met Extra Class hams who've never been on the air. After all, all you have to do is learn the code and get a hold of some good practice tapes, or a receiver, or some good software, or, maybe all of those, and some books and study guides. Then you have to study really hard and take all of the practice exams you can, until you get good solid scores on them. Then go to the VE's and answer a total of 120 questions and copy 5 wpm code and/or answer the appropriate number of questions correctly, and bingo(!) you have an Extra Class ticket.

It's got to be uncomfortable to be faced with the formidable task of working that first QSO without a "net". In fact, it has got to be down right scary! We all hear new op's almost every day that are sorely lacking operating skills or knowledge. They often seem apologetic, and it's not their fault!

Let's take a visit to the past... You probably had to know a ham or two to even be interested. Then you needed to ask somebody where you could get some classes in order to learn enough to get a Novice License, which you couldn't get without first passing a 5 word-a-minute code test. Usually, during the course of the class you were exposed to a number of QSO's with your "Elmer". Once you got your license, you probably had your first QSO (on CW) with your Elmer, and then a few more arranged by your Elmer. So, by the time you got a station of your own with a microphone, you'd likely been on the air for 3 to 12 months as a Novice and had upgraded to Tech or General.

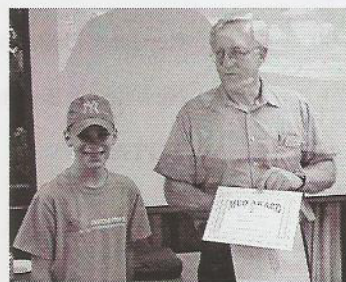
Our hobby has indeed benefited with growth from changes in licensing through sheer strength of numbers. However, the learning of operating skills has suffered in many cases, and the really active hams don't equal the count of licenses. Those counts will probably never be equal, it's just human nature, but a lot of new hams are likely to be dazed and confused, and consequently discouraged - and this is *not* good for the hobby!

What can we do? I say we can make a big effort to reach out to new hams and make them not only welcome, but get them on the air, with some help and guidance. If each of us sees our selves as Elmer, the *glue* that has always held the hobby together, and offers a phone number, a friendly voice, and a helping hand, I believe that we will build a stronger, more cohesive hobby. There'll always be those who are critical, crotchety, and disagreeable, but each of us can help to keep them in the minority by making the effort, as Elmer.

Author's Note: I was fortunate to have 2 Elmers when my interest in the hobby was rekindled in 1977. They were Chet Gorski, W1PE (now SK), and Pete Carbone, K1PTI. While I haven't spoken to Pete in many years, I still keep track of where he is, and his phone number, just in case I need some help and encouragement one day.

President Presents MVO Award

At the regular meeting on July 12, 2002, the SFARC President, Richard, WA6RWS presented Ben Kraw, son of



Kevin Kraw, AD6XB, with the first ever "Most Valuable Operator" award given by the SFARC. Ben distinguished himself during this year's Field Day by operating the GOTA ("Get On The Air") station using W6RFF, and with Jettie

as the control operator. Ben amassed more FD QSO's than any other SFARC FD operator. It looks like the odds are high that we'll soon be hearing Ben on the air with his own call!

The July meeting was also the scene for a great program by Rob Carpenter, WW6G, on the digital mode PSK31. In addition to an informative presentation on what the mode is and how it works, Rob included a real-time, on-the-air demonstration of one of the free software packages available to turn your home computer/sound card into a PSK31 rig.



4755 Pacific St., Rocklin, CA 95677-2407

Manager: Randy Erwin

TEL: 916.624.0641 / FAX: 916.624.5249

<ur29@unitedrentals.com>

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

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2002 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:	\$ _____
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

