

## SPECIAL "PACIFICON '87" ISSUE

WE HAD BEAUTY



Susan Tracy, WA6OCV

WE HAD ARRL DIGNITARIES



Left to Right: Chris Imlay, N3AKD, counsel; J. "Knockenhauer, K6ITL asst. Division director; Rod Stafford, KB6ZV, Division director; 'Rus' Healey, NJ2L, asst. tech editor "QST"; Bill Stevens, W6ZM, ARRL VP; and Doc Gmelin, W6ZRJ, honorary ARRL vice-president

WE GAVE PRIZES



George Allan, WA6O, operations manager congratulates Landry G. Doster, K6MPD for taking home the TS-940S grand prize

WE HAD BRAWN



Division Director  
Rod Stafford, KB6ZV



# PACIFICON

## '87

## OUR VEEP SEZ



BOB RICHMOND, N6KLQ, AL HADAD, KB6LZZ  
AND OUR VEEP BANQUETING (L TO R)

This month's meeting will feature: Amateur Television and Slow Scan Television by Robert Mammarella, KB6FEC and friends.

I helped with ATV during the Moffett air show and was suitably impressed. Although my first inclination was to think that the use of ATV was just another "whiz-bang", "techy" thing for amateurs to toy with, my impressions changed quickly. ATV was very useful to show traffic conditions at several critical points. For instance, a lady collapsed and an ambulance had to get to her location. With ATV we were able to show officials the arrival of the ambulance, and show them the traffic conditions that the ambulance would face on departure from the scene.

Bob has a portable "creepie-peepie" system. The whole thing fits on a pack frame, and it works quite well. The program should be interesting.

On another note, please assist us in finding a new meeting place for next year. Those who work for large companies can certainly help by determining if the company will help us out by giving us the use of a room on a regular schedule.

73 de Allen, N6NOY

## EDITOR'S NOTES

No doubt by now you have surmised that this issue is concentrating on the convention. It will contain no financial results since convention books are not yet closed. However, many photos taken by Bob Keller, KB6OHO, club photographer will be featured. In addition copies of this SCCARA-GRAM will be sent to all division clubs, all convention exhibitors, and other interested parties.

\*\*\*\*\*

Dick Barrett, W6CFK recently went into O'Connor Hospital for an angiogram and wound up being taken right upstairs for two artery bypasses. Talked to Dick at home. He is recovering nicely. Says he is weak, but that is to be expected. I am sure that all of you join me in wishing Dick a speedy recovery.

\*\*\*\*\*

At his recent news conference, President Reagan remarked that certain recipients of government services would have to start paying for the service under the new budget plan. This leads me to speculate that there will soon be a fee imposed on amateur radio licenses. There has long been agitation for charging for such services that have been traditionally free, and I am sure that the consensus will ultimately agree that the time has come. It is now more important than ever to maintain membership in ARRL, and not support splinter groups who are determined to undermine ARRL. The league is the largest, and most experienced entity representing amateur radio, and, therefore, is the most logical choice to defend our interests. Secrecy is being maintained unusually well by the negotiating committee.

## ROBERT HALL ELECTRONICS

ELECTRONIC REPAIR SERVICES

MAIL  
P.O. Box 8363  
SAN FRANCISCO  
CA 94128

SHOP  
1666 MCKEE RD.  
SUITE 3  
SAN JOSE  
CA 95116  
(408) 729-8200

• HAM RADIO

10-5:30 MON-FRI., 10-5 SAT.  
K6DTX, 32 YEARS

DAVID SHAVER  
OWNER

## CAMPBELL ELECTRONICS SHAVER RADIO, INC.

SALES, SERVICE, INSTALLATION  
NEW, USED, CB, HAM RADIOS, CELLULAR PHONES

LOCATED IN THE CAMPBELL CENTER, 1/2 BLOCK S. OF CORNER OF HAMILTON AND WINCHESTER 1775A S. WINCHESTER BLVD. CAMPBELL, CA 95008 (408) 370-6665

## OUR PREZ SEZ



Duke Dodge, KB6DLG and our Prez hard at work guarding the convention exhibit area door.

MEETING PLACE CHANGE-- In case you haven't heard, we have lost our happy home at the County Service Center at 1555 Berger Drive. Mounting costs have forced the installation of a card entry system for security instead of watchmen, saving the County some \$30,000 per year. After November 1st cost of the location will be \$25.00 per hour. Host Mickey Lutz, N6ODN has arranged our use of the old Board of Supervisors Chambers - now known as the Isaac Newton Room - for our November 9th meeting. The Isaac Newton Room is located at 70 W. Hedding St. in San Jose Civic Center. The actual location is just east of the Board room where we have had a meeting or two in the past. Access is through the main entrance on Hedding. Since another organization has use of this room until 1945, our meeting will start at 2000. Parking will be available on the street or at the west end of the building. We will not be permitted to have coffee in this room. [ED: as this goes to press I have learned that, through the efforts of Duke, KB6DLG, we have the Isaac Newton room available next year]

SUBJECTS FOR DISCUSSION-- Obviously one of our topics for discussion will have to be on whether to continue meeting at this location or look for another. We are exploring various alternatives. Most of the alternatives involve a substantial rental cost or a change of meeting night. V. P. Allen, N6NOQ has scheduled a talk on RTTY. See his column. Also it is election of officers night.

(CONTINUED RIGHT COLUMN)

SCCARA-GRAM PAGE 4

(CONTINUED FROM LEFT COLUMN)

SCCARA CODE CLASS-- Commencing on November 3rd JD's code class will meet at the new ARES COMMUNICATIONS ROOM at the Red Cross Building, 333 McKendrie St., San Jose. Space is limited, so call JD, K6YKG on 227-2033 to reserve your space.

NOVICE CLASS-- The Berger Drive changes forced postponement of the Novice Class for lack of a meeting place, but Shorty, AE6Z has arranged for quarters at Tandem Computers starting on 11/10 and ending on 11/21. More on this in Dan's column.

CHRISTMAS PARTY-- Through the good offices of Al Gaetano, W6VZT our Christmas Party will be held at the RINCONADA COUNTRY CLUB on December 14. Festivities will commence at 1830 with a no-host social mixer followed by dinner at 1930. Your \$20.00 per plate (tax and tip included) gets you your choice of strip steak with mushrooms or chicken kiev served with a tossed green salad, new potatoes, asparagus, broiled tomatoes, beverage, and chocolate cake. The dining room overlooks the valley. After dinner we will have installation of new officers, gift exchange, drawings for badges and hats, and a special drawing for a KENWOOD TH-31BT 220 MHz FM handi-talkie.

NOMINATION OF OFFICERS. The nominating committee composed of Bill Stevens, W6ZM, Chairman, Al Gordoy, K6LHQ and Joe Quirantes, WA6DXP has recommended the following candidates for 1988:

PRESIDENT:.....ALLEN LEVIN, N6NOY  
VICE PRESIDENT: ROBERT FORSTER, N6PCQ  
SECRETARY:.....NO VOLUNTEERS  
TREASURER:.....DAN DIETZ, WM6M  
BOARD:.....ARTHUR FURTADO, KG6PY  
(elect 2).....ED. RAWLINSON, WD6CHD

Further nominations can be made from the floor. Hopefully a Candidate for Secretary can be found. Elections to be held at the November meeting.

73 de ED, WD6 Chile Hot Dog.

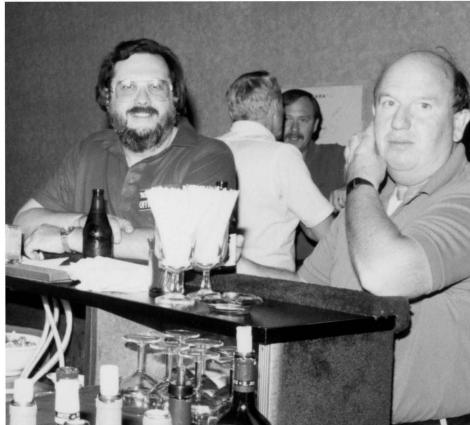
SILENT KEY

FRANCIS "CHICK" GREELEY, W6NW

MAY 10, 1987

ONCE WORKED AT QUEMENT ELECTRONICS

FROM YOUR TREASURER



WM6M AND KB6LCJ BELLIED UP

UPGRADES: Congratulations to: Bill Glover, N6QIN; Florenzio Canonizado, KB6MXF; and Frank McCormick, KA6HWC for upgrading to advanced. Nice going!

CHRISTMAS PARTY: It's not too early to think about making your reservations for the SCCARA Christmas Dinner. Please send your check for \$20.00 per dinner to: SCCARA Christmas Dinner, 6220 Hopi Circle, San Jose, CA 95123. This event is always something special. Please plan on attending. [ED: see president's column for more details].

FACILITIES: Although Mickey, N6ODN put up a valiant fight, we are unable to have free use of the county service center. [ED: see president's column] By my calculations using their charge of \$25.00 per hour, our meetings, JD's code classes, and the novice classes would cost the club in excess of \$5,000.00. We can't possibly expend such funds, as they exceed our income. Let's consider ourselves very lucky to have had such a nice facility for our uses at no cost to the club.

NOVICE CLASS: The next novice class has been rescheduled. Jim, WE6V and I decided that we probably shouldn't start what we weren't certain that we could finish (See FACILITIES). Thanks to Shorty, AE6Z we will now meet at Tandem Computers in Cupertino. Class Schedule is:

Tuesday - Nov. 10 - 1900 - 2200  
Saturday - Nov. 14 - 0800 - 1500  
Tuesday - Nov. 17 - 1900 - 2200  
Saturday - Nov. 21 - 0800 - 1400

(CONTINUED RIGHT COLUMN)

SCCARA-GRAM PAGE 5

(CONTINUED FROM RIGHT COLUMN)

As before, the text is the new "ARRL TUNE IN THE WORLD;" A study guide will be provided at the first session; Students will be expected to spend at least one hour daily for homework; novice exams will be held near noon on the last Saturday; those wishing to upgrade on the spot will be able to take advantage of an on-site ARRL exam session immediately after attaining their novice license. Jim and I hope that any former students without novice licenses will try again along with the newcomers. We invite any interested SCCARA members to the sessions. We feel that chats between club members and students outside of classtime are very beneficial. Let's have another successful class!

CONVENTION: I really enjoyed the convention. We had a fine turnout ... greater than expected. I heard only favorable comments. My best remembrances are of the sweet, red-headed YL who charmed all of us into signing her "eyeball QSO sheet;" the Wouff Hong ceremony with some newly added players doing their parts rather well; the willingness of all volunteers to immediately go to work when needed, and good old JD winning a hand-held.

73 de Dan WM6M



DOC, W6ZRJ AWARDING RUNNER-UP EYEBALL QSO PRIZE TO KB6RHL (RED HEADED LADY). HOW DID FCC COMPUTER KNOW ABOUT THAT NICE RED HAIR?

\*\*\*\*\*



MEMO TO: W600Y: It is unpatriotic to eat squab cordon bleu instead of roast turkey for your Thanksgiving Day feast.

NOVEMBER 1987 ISSUE



MONTHLY DIRECTOR'S REPORT  
de Rod Stafford, KB6ZV  
Director, Pacific Division

For those interested in antenna/ordinance cases, there is some good news. A Federal District Court Judge back east has used the 1985 FCC Order called PRB-1 to invalidate a local antenna ordinance that was overly restrictive. On September 25, 1987, the following bulletin was sent by WIAW.

"A Federal judge has relied on PRB-1 to void a local height limitation as applied to an Amateur Radio antenna. Andrew B. Bodony, K2LE, had brought suit in U.S. District Court for the Eastern District of New York to overturn denial by the Village of Sands Point of his application for a building permit for an 86-foot tower, retractable to 23 feet in height. In granting partial summary judgment in Bodony's favor, District Judge Jacob Mishler found PRB-1 to be a proper exercise of FCC authority and found that the Village was precluded from applying its 25 foot height limitation on accessory buildings to Bodony's proposed antenna. This court test of PRB-1 represents the first time a local zoning ordinance as applied to an Amateur Radio antenna has been declared invalid on the basis of PRB-1, and further strengthens the position of radio amateurs fighting unreasonable local ordinances."

This case could be very useful in overturning restrictive ordinances of local governments. There are currently several cases in the Pacific Division, most in the S.F. Bay Area, in various stages of litigation dealing with ordinances that most often restrict the height of an amateur antenna to 25 feet. I will try to keep Division members informed of the outcome of these very important cases. The Thernes case in Kentucky was given a lot of publicity as being the first blow struck by ham operators to obtain fair treatment by

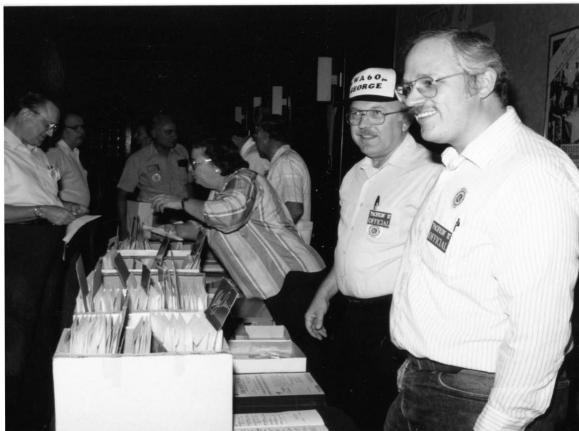
local zoning officials and city councils. However, the Thernes case final judgment was based upon what is called a consent decree or a stipulated judgment. That is, both of the parties in a lawsuit agree that a judgment should be entered based upon their agreement. Many of the city attorneys who are advising the city councils are stressing that since it was a consent decree, it shouldn't be given much weight. I think when we start getting a few decisions like the New York case, the local officials will see the light.

- - -  
At its July meeting, the ARRL Board of Directors decided to study whether amateur radio ought to have a Political Action Committee (PAC). A number of other national interest groups have PACs and the question was posed, "Shouldn't amateur radio have a PAC to promote its point of view on capitol hill?" A recent study was done on PACs and the results were kind of interesting. Apparently, you can buy access through a PAC. It will get your foot in the door. However, in controversial matters, the data only shows that PACs give money to officials because those officials agree with the PAC's point of view, i.e. the official would probably have voted that way anyway. End result, can't really tell whether the PACs are effective anyway. A few feelers were put out in Washington, D.C. about how hams would be perceived if they had a PAC. The response was that amateur radio has always enjoyed a lot of integrity on capitol hill and a PAC would probably undermine that view. So, at the present time, ARPAC doesn't seem to be in the cards.

- - -  
The new ARRL video "The New World of Amateur Radio" is now available to clubs to show at meetings or to show to non-ham groups. Contact Vice-Director Jim Knochenhauer, K6ITL, to request the video. Please try to get your request in at least 3 weeks before you want to the video so that there is time to mail it to you.

10-1-87

## "PACIFICON" CHAIRMAN NOTES



REGISTRATION DESK SCENE

Micky Lutz, N6ODN (left)  
George Allan, WA6O (ctr)  
Stan Getsla, WA6VJY (rt.)

"PACIFICON '87" was a success, of that I have no doubt. Our attendance was approximately nine hundred paid registrations. We had about thirty-five under 18 junior attendees. We had an indeterminate number of free-loaders sneak into the exhibit area by the back door until we got the hole plugged. We had one very elderly gentleman brazenly open a safety door and walk in. The door guards had refused him admission over his protests of how unfair charging for admittance to the exhibit area was. To avoid a scene, he was not ejected. If I ever chair another convention, I shall insist upon door safety alarms on unused doors that must be kept unlocked to satisfy safety rules. An indeterminate number went into the exhibit area after we took the guards away at ten o'clock on Sunday. I estimate that the vendors had around eleven hundred separate individuals pass their booths. I shall discuss this further later on in my notes.

First the convention would not have been a success without all the members who came forward and did the tasks necessary to make the show operate. This year, we did something different. I put a ticket with the call or name of every convention worker in a drum and pulled one. The ticket bore the call of Jim Daddysman, K6YKG. JD was given his choice of one of three HT's, and he chose one made by DELCOM. I have been told by many that, outside of their winning, JD was the most deserving. Congratulations JD,

(CONTINUED RIGHT COLUMN)

SCCARA-GRAM PAGE 7

(CONTINUED FROM LEFT COLUMN)

and you have a great voice on phone.

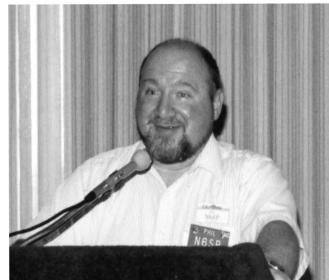
I must especially thank George Allan, WA6O. His contribution prior to October 2 should not be apparent to any of you. It was a private session of conferences between the two of us. They were of immeasurable help to me. I would state my problems to George, and would get very sage advice in return. Of course, most of the time he confirmed my decision, but on numerous occasions he pointed out flaws in my judgement; Between us we arrived at a more viable solution. I felt like I was back in industry referring my problems upstairs for joint resolution. When the convention commenced George took over as manager. It was our agreement that that would occur. I would handle the planning up to the start and George would carry on through the convention. Another part of our agreement was for George to assume chairmanship in case I became unable to proceed. Many of you know that, due to health problems, I limped into the convention on the proverbial one leg. George was lucky; I made it.

I must also thank Rod Stafford, KB6ZV for handling the forums and talks. He somehow managed to intimidate, persuade, threaten, or whatever some very capable speakers into showing what they could do. Rod is ARRL Pacific Division Director, and his photo is on page one.

PAGE 8



### SOME OF THE SPEAKERS



Phil Cain, N6SP  
FCC FORUM



Frank Glass, K6RQ  
ANGLE OF RADIATION



Dave Schultheis, WB6KHP  
REPEATER OPERATIONS  
FOR BEGINNERS



Dick Letrich WB6WKM  
HF OPERATION  
FOR BEGINNERS

NOVEMBER 1987 ISSUE



(CONTINUED FROM PAGE 7)

Two programs gaining much praise were ARES I and ARES II moderated by Susan Tracy, WA6OCV. Sharon Moerner, N6MWD conducted an informative session on the finder program as part of the sessions. The convention committee awarded a special prize, a Honda motor-generator again this year. We do this as part of the ARES programs in the hopes that the generator will become available to the emergency services. The prize was won by Rick Dressler, KB6MXI, and it will become part of the emergency needs of Walnut Creek.



Sharon Moerner, N6MWD making an award to Bob Jenkins, K6DHO for his organizing the emergency station at SJ Red Cross

All the sessions seemed to enjoy very favorable comments. The session by Van Brollini, NS6N on RF propagation drew an unusually high request for copies of his notes. Some are still available for the asking from me, but no free mailing.



Susan Ludeman, KA6SOC awarding the BAYLARC YL of the year award to Esther Given, W6BDE (left)

(CONTINUED RIGHT COLUMN)  
SCCARA-GRAM PAGE 8

(CONTINUED FROM LEFT COLUMN)

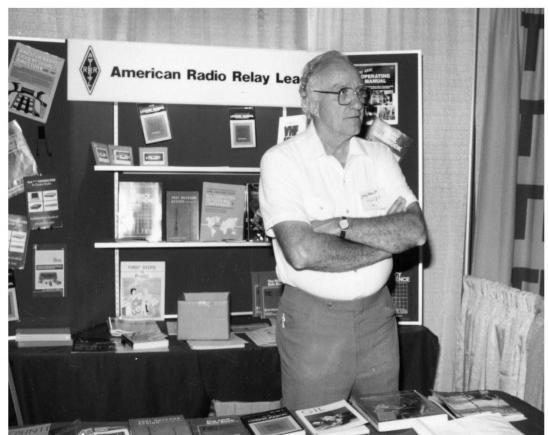
Many thanks are owed to Ed Rawlinson, WD6CHD for his handling of the vendor exhibit area and some of the setups during the convention. Ed set up for thirty exhibit booths again, and, thanks to his efforts all were sold.



Ken Holladay, K6HCP of rfconcepts



Is Craig Smith, N6ITW really looking at ham gear, or is he ogling that cutie out of the corner of his eye?



Al Gaetano, W6VZT in the ARRL Booth

(CONTINUED ON PAGE 9)  
NOVEMBER 1987 ISSUE

(CONTINUED FROM PAGE 8)

ICOM, KENWOOD, YAESU, AND TEN-TEC had booths this year, plus TEKTRONIX, rfconcepts, Precision Standard Time, and many others. The ICOM booth was run by a stranger to us. The most often heard remark about the ICOM booth was: they can send her any time. Our photographer failed to get a good photo of the ICOM booth. I am ashamed of him.



George Allan, WA6O (left), Rod Stafford, KB6ZV, and Shorty Freitas, AE6Z (right) selecting the club prize winner.

A new prize offered this year was the club prize. This was the subject of some correspondence before the convention, and seemed to attain one of its goals: to aid our advertising efforts. The first ticket drawn was blank. The second ticket drawn, despite all our statements to the club, listed SCCARA. The third ticket drawn became the winner. It was the Society of Amateur Radio Operators. All our rules were met, so the ICOM 1.2 GHz repeater was awarded to

(CONTINUED RIGHT COLUMN)



Merrill Card, KB6TO (left), Shorty Freitas, AE6Z, and George Allan, WA6O (right) at the grand prizes drawing session.

(CONTINUED FROM LEFT COLUMN)

them. In analyzing the tickets deposited after the convention the following was found. The winning club had four tickets in the barrel. West Valley had the most, about forty-eight. Loma Pioneer was close to them in number. The DX club was next, and far behind was a lot of clubs about equal in numbers. There were numerous ineligible clubs listed on tickets; numerous blank tickets; a disappointing number listed SCCARA (you don't listen at club meetings nor read the newsletter); two listed a non-existent, but frequently mentioned by one individual, club in Sunnyvale; and four listed a club that has been banned from advertising in "QST." We get the feeling that the last two categories were just out to make trouble, if they heard that we had rejected their ticket. If we ever give such a prize again, we will probably follow the same rules. We will though use a different color for the ticket, and we will have more copies of the director's list of clubs available. He only showed up with one copy, and we had no easy way to duplicate it.

We gave lots of prizes. With the large attendance that we had, we increased our prizes far beyond what we had planned. The convention chairman became one of the best customers of the retail vendors in the exhibit room. The market value of all prizes exceeded ten thousand dollars. We did not get much discount on these items. Only the grand and pre-reg prizes gave us much of a discount. Some ARRL books, some subscriptions to "World Radio", and ten 5/8 wave antennas from Smiley were just about all the donated prizes. The old days of donated prizes are gone. We gave fifteen grand prizes. Grand prizes are prizes with a market value of over \$200.00. We gave about seventy attendance prizes. Some attendance prizes were valued over \$100.00, but a lot of them were in the five to ten dollar range. The grand grand-prize winner is shown on page one. The Pre-reg prize was won by Robert McClard, WA60WH of Yuba City. He is the father of KB6RHL (see page 5). We had one winner among the no-shows. We always put their tickets in the bin for the grand drawing and the banquet tickets for the banquet drawing likewise. We had grand prizes won by Redding, Ridgecrest, Moro Bay, and, former SCCARA member, Lou James took two grand prizes back to Reno with him. I wonder what his XYL traded her prize for.

(CONTINUED ON PAGE 10)

NOVEMBER 1987 ISSUE

(CONTINUED FROM PAGE 9)

We had a convention station operating. It was located in back of the hotel in a van donated for use by Joan and Mike Hasting, KB6LFZ and KB6LCJ. I must thank them and I must especially thank Jim Daddysman, K6YKG for his efforts in organizing the station. There were numerous contributors to the overall effort too numerous to mention, and not known to me. The tower used is the crankup tower donated to the club by Frank Quement, W6NX.



W6UW at the convention



Don Village, K6PBQ (left) and Larry Cummings, KB6HRN in the station.

(CONTINUED FROM LEFT COLUMN)



Doc Gmelin, W6ZRJ, Toastmaster

Doc Gmelin, W6ZRJ presided over the banquet. The program was enjoyed, and, as usual, the food was good and service was good. Attendance again was disappointing. We must make some attempt to find ways to increase banquet attendance at our next convention. The banquet is an old tradition, and we feel that it is an important part of the convention.



(CONTINUED RIGHT COLUMN)

(CONTINUED ON PAGE 11)

(CONTINUED FROM PAGE 10)



Dr. Richard F. Freitas, K6GWQ (left)  
Emmett F. Freitas, AE6Z (center)  
Armond Noble, N6WR, World Radio.

My special thanks to Jim Daddysman, K6YKG, for many tasks; Virginia Metzger, K6IIU, guardian of our money; Roy Metzger, K6VIP for many tasks, Alan Levin for finding the people; Carla Watson, W06X; Stan Getsla, WA6VJY; The Wouff Hong people; Doc Gmelin, W6ZRJ, Al Gaetano, W6VZT; and a host of others for your contributions to making this convention a success. I know that I have missed some, and some I know nothing of. Special thanks to the Hastings for the eyeball QSO contest. My special thanks and a hug to Kathy Getsla, KB6ICQ for

A special thanks to all the speakers. Yours was really a labor of love of the hobby.

73 de Shorty, AE6Z

\*\*\*\*\*

WANTED  
FOR COMMODORE 64/128  
EPYX "FAST LOAD" Cassette  
KANTRONIX 'HAMTEXT" Cassette  
COMMODORE "HIGGY TERM" disk  
for modem 300 (copy OK)  
WD6CHD (408) 264 2988

\*\*\*\*\*

The man was awakened by a suspicious noise in the middle of the night. "Don't move or I'll shoot" came a voice out of the darkness, "I'm looking for money."

"Let me get up and turn on the light," begged the man, "and I'll look too"

copied from CHARRO

UTC OR GMT?  
by WE4Q

The time zones which we use, such as EST, MST are all related to Coordinated Universal Time (UTC). For the purpose of radio communications, Greenwich Mean Time (GMT) is out.

GMT was based on solar time, i.e., the earth's orbit around the sun. It was, if you wish, astronomical time. Because the orbit of the earth around the sun is not circular, corrections had to be made, thus creating "mean solar time." The system served us well for many years until something better came along in the form of atomic oscillators.

Atomic oscillators are extremely accurate, and give the benefit of a very uniform time scale. On the other hand navigators require a clock tied to exact position of the earth and are, therefore less impressed with the uniformity of time. In fact, precise navigation requires conversion back from UTC. So, you see, you cannot please all at the same time.

In fact, the new UTC system, which was adopted in 1971 and became effective in 1972, is a compromise between the scientist's desire for a uniform time scale and the navigators' need for solar time, which was referred to as UTI. UTC is maintained by atomic clocks at a uniform scale up to an error of 9/10 of a second compared to the navigator's time. At that point a "leap second" is introduced as correction. If you listen carefully to WWV, you may hear the double ticks or pulses after the start of each minute. This gives you the UTC-UTI correction, in units of 0.1 second. The location within the minute gives the sign (plus or minus) of the correction.



Frank Glass, K6RQ

Know of a better way to fill some extra space than Frank's photo?

President.....Ed. Rawlinson, WD6CHD (408) 264-2988  
Vice President.....Allen Levin, N6NDY (408) 255 6852  
Secretary.....Teryl Pratt, N6NRQ (408) 281 3099  
Treasurer.....Dan Dietz, WM6M (408) 224-9023  
Parliamentarian.....Clarence Dodge, KB6DLG (408) 296-1188

Directros:

George Allan, WA6O	Bob Richmond, N6KLQ	:ARRL VEC HOTLINE:
Herb Himmelfarb, KB6ABG	Lou Steirer, WA6QYS	: (408) 984-8353 :
Harry Wijtman, AE6M	Clarence Dodge, KB6DLG	:.....

SCCARA-GRAM Staff: Shorty Freitas, AE6Z Editor (408) 243-8349  
Joe Quirantes, WA6DXP. Data Base Mgr. (408) 371-0959  
Ed Rawlinson, WD6CHD. Mailman (408) 264-2988

Club Repeater: 146.985 in/146.385 out--447.425 in/442.425 out - a  
simultaneously keyed open repeater. Net meets Monday night at 1930 PT  
except on regular meeting nights. STATION TRUSTEE: DOC GMELIN, W6ZRJ.

November meeting at Isaac Newton Hall, Civic Cewnter, First and Hedding  
Meeting time 2000, November 9, 1987  
Visitors are welcome to attend.

Permission to reprint articles is hereby granted provided source is  
credited.

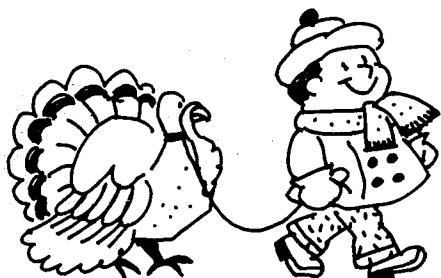
SCCARA-GRAM is published monthly by the Santa Clara County Amateur Radio  
Association.

SCCARA-GRAM PAGE 12 NOVEMBER 1987 ISSUE

.....COVER.doc..

SANTA CLARA COUNTY  
AMTEUR RADIO ASSOCIATION  
affiliate of  
American Radio Relay League  
P.O. Box 6, San Jose, CA 95103

:Non-profit Org.:  
: US Postage :  
: PAID :  
:Permit No. 3318:  
: San Jose, CA :  
:.....



WD6CHD  
Rawlinson, Ed  
2619 Aragon Way  
San Jose, CA, 95125

TIME DATED BULLETIN