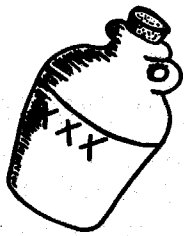


# The Contest JUG



Newsletter of the NORTHERN CALIFORNIA CONTEST CLUB  
3130 Raleigh Court  
Fremont, California 94536

No. 49  
June, 1976

Pres:W6PAA. VP/Contest Chmn:WB6DSV. Sec/Treas:WA6VEF. JUG 'ED:WAØENP/6.  
Directors:WB6LPK, WA6DQM, WB6CEP. Folder, Stapler, Mutilator:WB6DSV.

## QST Really Listened!

### PREVIEW OF COMING DISTRACTIONS

- June 19-20 All-Asian Contest (Phone)  
21 NCCC Club Meeting (at WAØENP)  
26-27 ARRL F.D. (W6PAA/6)
- July 4 Straight Key Night  
17-19 CW County Hunters Contest  
24-25 ARRL Bicentennial Celebration  
26 NCCC Club Meeting
- Aug 14-15 WAE Contest (CW)  
21-22 All-Asian Contest (CW)  
23 NCCC Club Meeting
- Nov 6-7 CW "SS"  
20-21 Phone "SS"

### MORE OF PAA's PRESIDENTIAL POOP...

Was great to see so much of the gang, especially the NEV, SV, and SJV troops at the K6SG picnic/PVRC KB party. I enjoyed all the activities despite some sore muscles from too much badminton, Frisbee, baseball, drinking and football (who was that huge guy on defense, anyway?? Must have been a professional to be that big.) NCCC will have two more gatherings of this nature before the Fall season begins - Pacific Division Convention in San Jose on Labor Day week-end and a picnic/CQP pep rally in late September.

At the June meeting an issue important to all contestors and club members will be discussed. That subject is the club structure required for ARRL club competition, with specific measures to prevent the entries of "paper clubs". Bob, WALKID, has drafted a letter in the club's name based upon club sentiment expressed at the May meeting and deliberations of the BOD. If it meets with your approval, copies will be sent to ARRL Headquarters, CAC and the Pacific Division  
( ( QSY TO PAGE 2 ) )

By now you have all read the SS article in May, QST. While the coverage was very low key, the resounding uproar from not only the NCCC but also from other contestors as well was definitely heard on the East Coast. Apparently the letters received at League Headquarters, the Fresno Contest Forum and later conversation with Dick Baldwin and thirty or forty contestors, and the general on-the-air comments made a solid impression on Connecticut.

The official reply from the League was written by Jim Cain and sent to Rusty Epps, whom he felt he knew best. This letter will be read in its entirety at the June 21st Meeting, but a summarization follows:

Mr. Cain desired to answer all of the letters, but Mr. Baldwin did not think well of the idea. (ed. note: Mr. Baldwin accepted full responsibility for the coverage in the late-evening conversation at Fresno.) Mr. Cain has been instructed to write a follow-up article on the November Sweepstakes describing the NCCC and the 1975 accomplishments to cover one-half a page in QST. He requests pictures of the NCCC, especially in the T-shirts and of Ellen White presenting the gavel. Mr. Cain also requests club history and if all this information is received by early July, the article will appear in the October issue of QST.

The above is surely greatly appreciated by the entire body of the NCCC. However, let us be sure that the ARRL understands that it was not only the NCCC who was slighted in the original article, but also many other operators and clubs. As was noted to Mr. Baldwin at Fresno and also said in several letters, the follow-up should include all the NEWS from SS and not just the NCCC. QST should certainly give credit where credit is due.

MORE POOP (( from page 1 ))

Director.

Much of the June meeting will be devoted to the details of the Field Day operation. By then most of the antennas will be in place (provided someone showed up on the June 12, 13 and 20 work parties). A sign-up sheet for requested operating time/band/mode preference will have already been circulated at the work parties and a tentative operating schedule will be finalized. We'll have a "Procedures" hand-out describing the set-up, logging requirements, lists of what to bring to FD, etc. Last minute equipment needs will be made known. Those of you who cannot make this meeting should definitely check into the NCCC net on Tuesday, June 22 (that is at 7:30 pm, 3815 khz) for final details.

Oh, yes---I almost forgot to mention the most important aspect of FD - FOOD!! A grand pot-luck style dinner coordinated by NØEL and Joan will be served late Saturday afternoon. All operators should bring something for this. Make it either food or ca\$h. Plan on bringing your own goodies for Saturday and Sunday breakfast, lunch and snacks, soda or beer.

HEY, GANG....that July 1st deadline is coming up fast. To continue the JUG and other club activities, we need everyone's \$6.00 by that date. Why not bring a check to the June 21st meeting or send it to WA6VEF, Gary Caldwell, 26934 Halifax Place, Hayward, Ca. 94542 (he's the treas.). This action will preclude any lapse of your reception of the JUG as well as other harassment!

Do not forget the All-Asian phone contest on June 19-20 - good practice for running WB5's during FD!!

73 and see you on Field Day,

Ken, W6PAA

CONTEST CHAIRMAN'S CORNER

Let's do it one more time -- NCCC #1 in FD! It felt good and we did it, so it's time to do it again. Our FD plans have begun to jell and we will soon have a finely-tuned, well-oiled FD machine good for approximately 4,000 QSO's or 24 hours, which ever comes first. Remember that along with our KB effort in 5A, we must also defend our championship mobile aggregate score from last year, so pack the VHF and/or HF rig in the car and do your best to KB from the nearest hilltop.

(( QSY TO PAGE 3 ))

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MANY THANKS TO K6SG.....

Those of us who were there will certainly never forget it and those of us who were not there definitely cannot remember it. The party was one of the greatest times in NCCC history with everyone in attendance partaking of lots of good food, drink and unrivalled merriment. And, of course, the competition on the lawn.

It was fortunate the Navy didn't have their radar working on low-flying UFO's, for the five Frisbee's flying along with baseballs and footballs (all at the same time, of course after all, what would you expect from a group such as our's?) would have driven the operator into a frenzy. George's station did well, too in competing in the PVRC contest held the same week-end.

All in all, it was a super time and a hearty, "Thanks, George and Wife" for the hospitality.

(anybody for six Frisbee's??)

WHAT EVER HAPPENED TO THE NCJ?? READ ON.....

Being the former scores editor and manager of the mailing list for the NCJ, I was contacted almost simultaneously by WØIYP, the man behind the NCJ, and by W6RTT, the man trying to possibly be the new man behind the NCJ. Pete has taken upon himself the project of contacting all those on the current NCJ mailing roster to try and discover the attitude towards a contest-oriented publication, which was the goal of the NCJ.

Those of you who have not known of the where-abouts of the NCJ can rest assured that it was really never forgotten, but was asleep in Minnesota. Tod had become extremely busy in the well-known area of making a living and lost practically all of his free time that he normally devoted to the production of the NCJ. Actually, the absence of the NCJ may, after all, be a blessing, for now we do realize that there is a void in coverage of our common interest which is contesting.

The write-up is three pages followed by a questionnaire. Pete covers all the relevant areas, but the following will give you an

(( QSY TO PAGE 3 ))

CORNER (( from page 2 ))

Remember to not disappoint those JA's. Get on for the All-Asian. Will you be one of the NCCC-ers littering the bands trying out your Japanese phonetics?? If not, then join in the fun by exchanging signal reports plus age with the JA's.

(Not to mention some JUICY, slurp, deep Asian multipliers.) A good warm-up for Field Day. Speaking of FD, did you know that there is an award for JA's from the NCCC? Those Asian stations who can submit proof of contact with W6PAA during FD on three band-modes will be awarded an NCCC FD certificate. The JARL has also been advised that W6PAA will definitely send out copious amounts of QSL cards to all stations worked. Now, THAT is something, isn't it?!! Hope the conditions will permit us to work into that part of the globe.

) Again, speaking of FD, the site is really something. Just imagine for a moment of having 4 elements on 40, 20, 15, 10 (some of those stations have two beams) looking down a hundred-foot drop-off. On the low band you have slopers and vee-beams. All six towers are equipped with rotators and the command post linked with 450 mhz rigs will really be something to behold. The beams aren't little, either. All Drake and Collins rigs should be fun to KB and win our 5A category.

73 and Good Luck, OM,  
George, WB6DSV

NCJ (( from page 2 ))

idea of the scope of Pete's thinking:  
"Recently I have heard complaints regarding poor to non-existent reporting of newsworthy and important individual and group achievements in various contest write-ups. Why does this happen?...It seems to me that the primary objective of the final results write-up should be to report all of the  
(( SWISH YOUR VFO UP ))

factors which resulted in achieving or not achieving the major goals. The secondary objective should be to best report those exceptionally close individual goals that were either achieved or just missed. Finally, the least important is the editorializing concepts and general information.

Several publications now in circulation are cutting back on available space for reporting contest activities due to increasing costs. Unfortunately, it is the rookie contestor who is first slighted by listing only his call sign in the list of also-rans. I realize that it is more and more difficult to uncover interesting news - but one should ask, "Interesting to whom?". A delicate balance exists between a "big gun" and the little guy.

I believe that our focus should aim toward increasing activity."

The full text will be available at the June 21st meeting and hopefully you can get into the meat of this happening and get out of the contest even more enjoyment. There is also an on-the-air forum that started on June 2nd. Sked is as follows:

Wed (USA time)	Thurs (GMT)	FREQ
	0100 GMT.....	14.290
	0300 GMT.....	7.225
	0500 GMT.....	3.825

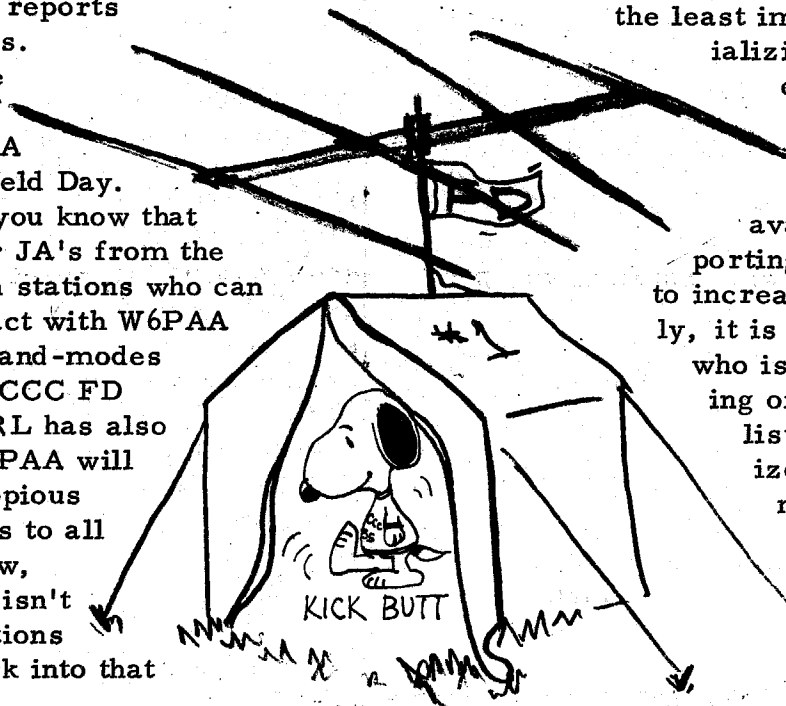
As long as interest is generated, the forum will be on at these times/freq's.

Any replies or comments can be given to Pete, W6RTT. He is very interested in pursuing this matter.

Tom, WAØENP

ERECTOR SET UPDATE, or  
GET IT UP AGAIN.....

Erector Set activity continues at an exponentially increasing rate as Field Day approaches. Equipment is now massing at the FD site for our all-out effort. Band Captains should be thinking now about the  
(( QSY TO PAGE 4 ))



UP AGAIN (( from page 3 ))

details such as antenna tuners, other antennas, coax and other odds and ends like coax fittings, etc.

May and June activities so far have been: Rich, WB6ION, is now engaged in subterranean activity as he prepares a cavern for his new tower base.

Pat, WA7NIN, was seen mobile 6 during Memorial Day weekend here in the valley. Dual erections should be taking place in the near future, if not even now. Call if you really need help getting it up, Pat.

A 15 mtr beam was pruned from the W6PAA aerial tree during Memorial Day. W6OWQ now has a rotating antenna array.

K6EBB is alive and well in the Santa Cruz mountains.

Up and Coming:

June 19-20 Beam tuning, coax runs, etc

June 26-27 Field Day Masterpiece

Speak UP if you need a HAND,  
Bruce, WB6LPK  
(no, if YOU need a hand)

LICENSE PLATE NO PROBLEM NOW.....

The Assembly Bill to cost the radio amateur the same dollars as the regular ego-type plates has been changed. The part pertaining to the amateurs has been removed from the bill. Our thanks certainly go to the people involved and if you know who they are, will you kindly let the JUG 'ED know so credit can be given the proper persons.

SOME MORE ADDRESS CHANGES

Ron DaBry, WA6DGX  
657 Escula #14  
Mtn. View, Ca 94040 964-4874

Russ Spalding, WA6AVS  
654 Ventura Ave.  
San Mateo, Ca 94403 fone??

K6EBB  
6977 Empire Grade (thats some hill)  
Santa Cruz, Ca 423-7388

WA6TLV (summer address)  
19324 Palomar Place  
Tarzana, Ca 91356 213-344-0903  
(( SWISH AGAIN))

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Bob Hill, W1ARR/6  
8 Wilmot St.  
San Francisco, Ca 94115 346-4140  
AND-----WOULD BELIEVE THIS-----  
BOB HILL'S BUSINESS ADDRESS IS.....

The Asia Foundation  
550 Kearny St.  
San Francisco, Ca 94108 982-4640  
CONGRATS, BOB ON GETTING THE  
LONG-OVER-DUE JOB!!!!!!

WB6CEP is moving in June (away from Berk, too)

WA6NLQ is graduating from UC and is starting up in Palo Alto (also away fm Berk)

WA6TLV concluded Froshperson year and moved from Berk, too (see other col.)

WA3MQJ moved to  
3035 Totterdell St.  
Oakland, Ca 94611 (also was in Berk)

WB6IPC is getting married (another one from Berkeley)

WHAT IS IT ABOUT BERKELEY???????

Tom, WA0ENP/6  
1873 Granger Ave.  
Los Altos, Ca 94022 415-964-5554

JUNE 21 MEETING LOCATION

To be held at the above address of Tom, WA0ENP( /6 ) - if you are coming from the North or East Bay via 237, stay on 237 all the way until you reach the Foothill Expressway. During this time, 237 will change into Grant Rd. when it crosses El Camino (big intersection). At 237 (Grant) and Foothill, continue across the expressway and take the first turn, which is Granger. This is only about a hundred feet past the expressway. You can only turn right. 1873 is on the right about five houses down. If you are coming from anyplace else, get on the Foothill Expressway and turn West at Grant-St. Joseph. This intersection is about a mile north of the junction of Foothill Expressway and 280.  
NOTE-----the meeting starts at 8:00pm, not the usual 7:30.

(( QSY TO PAGE 5 ))

Next BOD mtg July 1 at W1ARR/6, SF

## MEETING ( from page 4 )

Lots of important material to be covered at this meeting, so bring your thinking cap and let's get down to business.

Incidentally, there is a 105 foot tower at Tom's place, but its all unbolted and laying along side the house! Guess there is a vertical or something to home in on.

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SUMMER CONDITIONS ARE PREVAILING AND THAT MEANS TO GET ON THE NCCC NET EVERY TUESDAY EVENING AT 7:30pm ON 3.815 MHz. NET CONTROL IS USUALLY W6MSF, WB6JGS, WA6DQM OR WHOMEVER HAS A COMMANDING SIG THAT NIGHT. GREAT TIME TO CHECK OUT NEW ANTENNAS AND EQUIPMENT.

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### PACIFIC DIVISION CONVENTION

Plans are now in the works to put a station on the air at the Pac. Div. Convention. Call sign will be, of course, N6CCC Those interested in operating and/or getting up please contact George, WB6DSV.

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CONGRATS TO JOAN WHO IS NOW A MEMBER OF THE HAM FRATERNITY (SORORITY?)  
WN6MZP

(See you at FD, Joan, and get that code speed up)

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### KNOW HOW TO CUT A COAX PHASE LINE?

Many a would-be vertical phased array has gone down the big green honker tube because of a problem known as "You got the wrong phase, Jeeves."

It is the rare case when a person can grab a handy dandy calculator, run through a few equations, latch onto a length of coax and hack it off at the right spot. Coax is not usually that friendly.

Most phased arrays utilizing coax lines are set up so that the phase changes required are in multiples of quarter and half wavelengths, corresponding to 90 and 180 degrees, respectively. The following discussion will describe a method to accurately cut such lines with confidence.

First, use the equation of  $984/\text{freq}$  in MHz to get the length of one wavelength. Now, multiply this by the velocity factor of the line you are going to use. Now, just to be sure you are not too short, add a bit just to be certain we aren't going to create

(( ONWARD TO COL II))

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## PHASE CONT'D

a problem before we get off the ground. When you are positive and have double-checked the arithmetic and your own measurements on the coax, then go ahead and cut the line. Next, put on the connector you are going to use, or just prepare the end for connection by stripping.

Get a grid dip meter. Even the old Heathkit one works OK for this purpose. Set the range for the frequency you want the line. That is, if you are cutting a 90 degree line for 7.010 MHz, then have the GDO to cover 7 MHz. If you are cutting a 180 degree line for 7.010 MHz, then also have the GDO cover 7 MHz. The difference lies in how the line is terminated.

Make a one-turn loop of small diameter wire and connect it to one end of the line. In the above GDO set, if you are working with a 90 degree line, leave the far end of the line open and if you are working with a 180 degree line, then short out the far end of the line. Turn on your receiver and locate the GDO signal at the desired frequency first without coupling to the loop. This will ensure that your GDO is operating. Now, lightly-lightly couple the GDO to the loop and find the dip in the GDO. If you had to tune the GDO down in frequency (and you should have since the line was cut long), then prune the line a bit at a time until you can listen to the GDO signal in your receiver and have it dipped at the resonant frequency of the coax line.

This method can be used to provide a very high degree of accuracy to the coax lines in a phased array. As a point of reference, using a four element in-line vertical array and cutting the lines very carefully via the formulas, the F/B was a disappointing 20db. After using this method, with no other changes, the F/B increased to 60db on low angle signals.

Of course, a 180 degree line for 7.010 is a quarter wave line for 3.505. It is sometimes easier to prune without having to short out the far end. Also, a 90 degree line on 3.505 is a 45 degree line on 7.010.

Good luck and put out the radials!

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Congrats to the following new members who were voted in at the May meeting:

Bob Huffman, WA1KID, who really needs no introduction, but whose address/zip was incorrect last time, so-  
1524 Hawser Lane

Half Moon Bay, Ca 94019 415-726-4677

Thanks for the antenna talks, Bob, at the May meet  
WA6ITV, Ronald Roberts

box 317, Star Rt.2

La Honda, Ca 94020 851-0144 -or-  
IMSSS, Ventura Hall

Stanford, Ca 94305 497-3352/497-3137

Ron is 29 years old and has an advanced class, which he must upgrade. Runs Drake equipment and has participated in FD and SS - KB, Ron.

Chip Margelli, K7VPF, who appears to be a bit transient, stopping off at  
35 Belcher St.

San Francisco, Ca 94114 415-431-2962 for frequent visits/stays in the area.

Welcome to all you fellas and keep the rate up!

QNI for May 11 - June 8 TKS DQM, JGS for NC:  
(5)--WB6JGS, WA6JVD, WA6GSN/M6, WA0ENP/6, K6HIH, W6PXG

(4)--W6PAA, WA6VEF, WB6OLD/6

(3)--WA6DQM, WA6KAC, K6YNB, W6MSF

(2)--K6SDR, W6OWQ, W6KQG, W6OKK, WA7NIN, W6RTT

(1)--W6RGG/M6, W6BIP, K6ILM, W6CTH, K6EBB, AD6QPH, WA6UZA, WB6AIN/6, K6KOY, AA6BMV, AB6PCO/6, AA6MQS, K7BCX

Check-ins numbered 79...comon in, good buddy

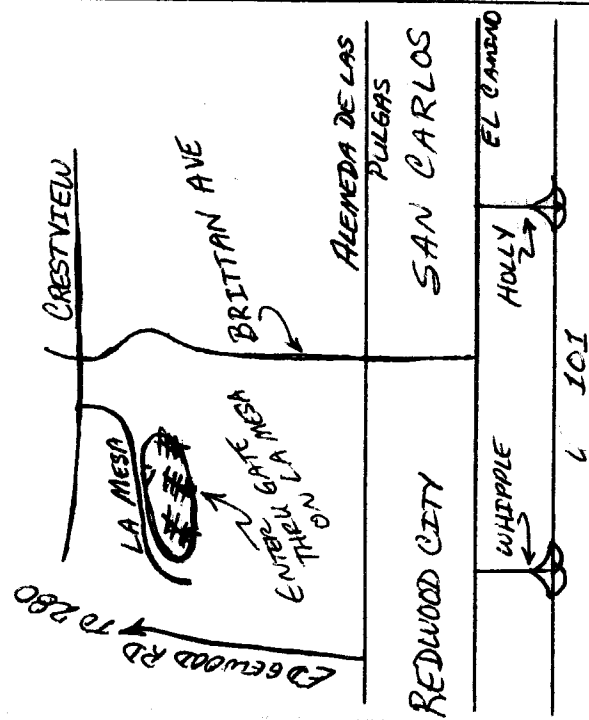
THE 160 mtr CHAMPS-----

Kudos to K6HIH, W6KQG, W6ZGM for winning their respective sections. Other NCCC'ers on:WA6UZA, W6ZT, K6TG, W6NKR. ----NOTE THAT----  
.....K6HIH won the PAC division!!!!

THE 10 mtr CHAMPS-----

Kudos also to W6BH for winning EBAY, W6KQG for taking SF. Other NCCC-ers who got high - W6MUR, K6ZX, WA6UZA, W6BIP, W6ZT, W6KHI, K6TG  
---NOTE THAT---W6KQG took the PAC Division single op and WA6UZA multi  
WAY TO KB, YOU GUYS!!!!!!!!!!!!!!!!!!!!

THIS WAY TO FIELD DAY W6PAA/6



The Contest JUG -- Monthly Newsletter of the  
NORTHERN CALIFORNIA CONTEST CLUB  
3130 Raleigh Court  
Fremont, Ca 94536

Application to mail at  
2nd Class Postage Rates  
Pending at Fremont, CA

Annual Subscription: \$3

RETURN POSTAGE GUARANTEED

Charles K. Epps, W6OAT  
35 Belcher Street  
San Francisco, CA 94114