

The JUG

THINK A KILLI-QS

CLUB REPEATERS W6RGG/R
147.24,(+), 444.200 (107.2 PL)



NCCC Sets Prime Goals for '94-'95 Continued Winning

Our new Prexy was Ready. And when set in place, he said "Go." Putting first things first in this Contest Club, Bruce proposed four goals to keep us at the TOP: As discussed at the last meeting they are as follows:

1) Involve more people. Reach out to club members who don't live in the Santa Clara Valley. Involve others in Northern California that might be interested in contesting but have not yet been approached. More members means more Sweepstakes log submissions, and we'll need every one we can get to continue our "dynasty" in the face of increased competition. Toward this, we should have meetings in more places. We also might visit regional DX club meetings. AD6E suggested that we consider a "mail shot" to CQP participants who live in the NCCC area that are not now NCCC members to generate more club members. Al has a list of CQP log submitters for some years back.

2) Increase CQP participation. We need to get all 58 counties on the air, and we need to get the notice to QST on time.

3) Continue our SS "dynasty". Our goal should be 100 SERIOUS entries, meaning 100K points each. There was some discussion about the relative merits of competing in SS as opposed to CQ WW or the ARRL DX contests. Consensus was that SS was our best shot. N6TV suggested that members now entering in the low power category should try to enter QRO, to generate more club points.

4) Continue the WPX emphasis. W6QHS gave us the good news that CarlCook is once again going to Aruba.

By general consensus these objectives were welcomed and approved. Bring further suggestions to the follow-up discussions.

Dues Are Due

It's that time again! Check the mailing label on your JUG to see whether your membership is paid through 1995. If not, turn at once to page 9, do not pass go, do not collect \$200. Just immediately fill out the coupon, attach check, and mail as directed. Give us your E-mail address and it will be included in the roster to be printed in September. We may even be able to send you the JUG by E-Mail, by then!

June 25 Field Day

Next Meeting

Our annual Field Day Family Barby and Picnic on Saturday, June 25 at K6ZM's station in Walnut Creek, will also be the when and where of our June meeting.

Operating stations ready : 11 a.m.

Picnic -Barby: Noon to 4 p.m.

Price: \$5.00, kids half price

Meeting: 2 o'clock

WB6MZQ and WR6R are coordinating. Reservations helpful: WR6R on DXSPN, or WB6MZQ on telephone 510-254-3350. Lunch includes spicy and marinated chicken, Polish sausage, hot dogs, salads, desserts, sodas. AA6KX will donate the beer left over from the Visalia hospitality suite. Details and directions on page 2.

Upcoming Contests

All from QST unless otherwise noted

June

11-12	WW S. Am. CW.....	Jun. p. 118
	ANARTS WW RTTY.....	May p.136
18-19	All-Asian CW	May p.138
	SMIRK 50MHz.....	May p.138
25-26	Field Day.....	May p.127
	SP QRP.....	Jun. p.118

July

1	RAC Canada Day	Jun. p.118
2-3	YV Independence Ph.....	Jun. p.118
9-10	IARU HF World Champ.	Apr. p.122
	CQ WPX VHF	Jun. p.118
	ARCI Sprint.....	Jun. p.118
16-17	Columbia Independence	Jun. p.118
	AGCW-DL QRP	Jun. p.118
23-24	SEANET CW	Jun. p.118
	YV Independence CW	Jun. p.118
30-31	IOTA	Jun. p.118
	Russian World-Wide	(details later)
	CT QSO.....	Jun. p.118

Details and Directions to

Field Day Meeting June 25

Field Day Site is at
44 Toyon Terrace, Danville: (510) 834-9547.

This is the home of Peggy Fraizer who generously welcomes NCCCMembers to use the station and facilities of her late husband Phil Frazier, K6ZM.

Directions to get there:

Southbound on Highway 680: take the El Pintado exit, left under fwy, immediate right onto El Rio, the frontage road. Turn left on Toyon Terrace and follow parking instructions.

Northbound on Highway 680: take the El Cerro exit. Go right and make an immediate left on El Pintado. At first left, turn onto El Rio Road and turn right on Toyon Terrace and follow parking instructions.

Chef Al, WRGR, and Chief Organizer Steve, WB6MZQ, have planned great food and great operating. There will be four stations, 3 HF and one UHF/VHF, each with a computer using the K1EA contest program. A good chance to learn by doing. A good chance to show off excellent ham radio techniques in action to someone you know who is interested in getting started in amateur radio.

Bring family and friends to this special picnic and Bar-B-Cue. Cost is \$5.00 for all you can eat and drink, and kids are half price.

Steve and Al would appreciate a call to say you're coming--they have to count the chicken, Polish sausage and hot dogs. Leave message for Al, WR6R on DXSPN. Call Steve, WB6MZQ at 510-254-3350. See ya there!

Overheard on the Air

A roving listener reports this insight he happened on once upon the airwaves. "I know why he likes computer logging so much,--his handwriting is atrocious!"

NORTHERN CALIFORNIA CONTEST CLUB

President: Bruce Sawyer AA6KX

Vice-President/Contest Chr: Bob Wolbert, N6IP

Sec/Treas: Dick Dievendoff, AA6MC

Directors: Al Maenchen, AD6E

Dave Leeson, W6QHS

Steve Thomas, N6ST

Bob Wilson, N6TV

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The JUG is the official journal of the NCCC, published monthly. Copies are mailed to members whose dues are up-to-date. Material submitted for publication must be received no later than the last Monday of the month.

News 'n Views

Bulletin Board

GARRY, NI6T reports: "While chugging along in the CW WPX, Dick, AA6MC, encountered two stations who informed him that they were not in the contest. One just went away, but the other, after an exchange of apologies, responded to Dick's 73 with "73 SK". Dick paused a moment and logged the station QSO #73."

ADVANCE NOTICE. The August meeting will be at W1FEA's spread in Auburn. Last year's get-together was a great success.

Larry Moore, KM6IU: Brad Rulien, WB6IRC: Jeffrey Pawlan, WA6KBL, and George Daughters, AB6YL, are the four new members welcomed at the May meeting.

JEFFREY PAWLAN, WA6KBL, one of our new members, indicated that he had access to high accuracy frequency measuring equipment (5 parts per million), and that he could be contacted after the WPX contest for those who want to calibrate their equipment accurately.

RUSTY, W6OAT, announced at the last meeting that plans were being made for another "World Radiosport Team Championship" in the Washington DC area to coincide with the 1995 IARU contest. PVRC is hosting the effort and will be looking for help from other US clubs. For example, our club through N6TV helped devise a scoring system for the last very successful WRTC. Rusty wanted a tentative OK for our club to get involved. There was general agreement that it was a good thing for us to do.

GOAL AUGMENTATION. It becomes increasingly important for the next few years to compensate for deteriorating propagation conditions. Goals mark the way. Re-doing equipment goes with achieving goals. With this issue the JUG starts a series about just that, getting your equipment in the best possible shape. Know-how from the Know-Hows.

DUES TIME! Check the mailing label on your copy of your JUG. If your membership is paid only through June 1994, it's time to send your 1994-1995 dues. Please use the form on page 9 of this month's JUG and include all information asked for so that we may keep our membership roster up-to-date.

We now know EVERYTHING WE WANTED TO KNOW about the last meeting and the board meeting, but were afraid we would have to ask several dozen people to find out! Heap o' Thanks to our new Sec.-Treas. AA6MC, for taking notes for us at both meetings and sending them to us for the Jug. He gets an A for paying attention and getting it all together.

READY 'N WAITIN! George, WB6DSV has thrown up the gauntlet, or probably for this purpose, the antenna, to challenge all remote control users to a shoot-out in SS. He says he don't scare easy, so be ready.

Wolbert's Words

Should've known I was in trouble when I suddenly began receiving packet messages addressed to the "NCCC BOD" mailing list. Then the call from N6TV. A few minutes later, I'd been railroaded again. No one (except me) complained at the May meeting, so it looks like I'll play VPCC again. But don't worry, I

promise to earn every penny of my salary!

Our new president, Bruce, AA6KX, has a tremendous year planned

for us. At the May meeting, Bruce eloquently agreed with W6ISQ's seditious editorial from the April **JUG** urging NCCC emphasis on Sweepstakes. A vote of the membership was taken, and unanimously passed. We're going for SS gavel #10!

I also have an agenda for your consideration. NCCC should:

1. Pick **AND WIN** our major operating event of the season (SS)
2. Run an excellent California QSO Party (CQP), with every California county active (thanks to N6TV for volunteering as county coordinator and AD6E for CQP publicity)
3. Pick and win a secondary/minor operating event (maybe WPX again?)
4. Win a CW Sprint Team competition
5. Increase participation from the north and eastern regions of our territory (SF Section is relatively rare in SS!)

Also at the meeting, we heard two new tantalizing tidbits. AA6KX tells us Worldradio magazine wants to

sponsor a perpetual trophy for the All-Asian test. This trophy would go to either NCCC or (if the unthinkable occurs) to SCCC. And W6OAT — who had been tight-lipped for months — finally announced another WRTC contest is in the works, scheduled for July 1995 in the Washington DC area. Rusty says the W3/W4 boys may need some assistance from NCCC. Any interest in either or both of these possibilities?

Please send your WPX, and other,

Scores from WPX Ph					
	Qs	Pfx	Total		
N6RO	865	409	1,339,066	(40m)	
W6BSY	808	420	533,400	(15m)	
Special Scores					
W6BIP	407	303	166,347	(20m)	

scores to me! I'll accept them in whatever mode you find most convenient, and

I'll forward them to AD6E for 5 Meg Award credit.

US Mail: Bob Wolbert
 10028 Bon Vista Ct. SJ, CA 95127
 DXPSN: to N6IP
 Internet: n6ip@TheTech.com
 Telephone/FAX(408) 258-1015

Commitments

The following members were present, (Ed. note, with two notable exceptions) at the May meeting and promised the following scores:

AA6KX	.....	500Qs
N6TV	.....	300Qs
AE0M (@ KI6CG)	.....	1000Qs
N2ALE	.....	100Qs
K6BPB	.....	250Qs
NF6S	.....	1000Qs
WA6SDM	.....	100Qs
N6ST	.....	300Qs
KK6QM	.....	5Qs
W6QHS	.....	100Qs
AB6YL	.....	200Qs
W6OAT	.....	200Qs
WB6IRC	.....	200Qs
WN4KKN	.....	100Qs
N6IP		
(+ portion of AG6D M/S)	..	500Qs
AG6D	.....	2.5Meg
AA6MC	.....	1.8Meg
AE6Y	.....	300k
W6ISQ	.....	1Meg



Wolbert offspring, readying for SS?



Setting Goals

A few days ago I had a drop-in visit in my office from one of the more junior engineers at work and the ensuing conversation took a most unusual turn. It wasn't just a normal visit, for I was in the process of cleaning out the office I had occupied for the last five years and was preparing to strike out on my own. This fellow had taken the measure of my sagging jaw and thinning hair and mistakenly equated age and experience with wisdom. He had come to see if he couldn't get some last-minute benefit from that supposed wisdom. In halting English he fumbled around trying to find a way to express what was on his mind. Finally he blurted it out: "What is the secret of your success?"

This took me aback, but I could see the fellow was serious. So, figuring I had a certain image to uphold, I stifled the natural urge to give the flip retort that there are no secrets. After a few minutes silence to give the conversation some needed gravity, I began by explaining that the most consistently observable trait of the successful people I had known was their ability to concentrate on a problem and focus their energies on its solution.

We have all known talented people who never achieved much of note, but one is hard-pressed to find examples of people who just stumbled onto success without first having learned the discipline of achieving intense focus. And the technique of attaining and then maintaining that focus, I continued, was in setting goals. This doesn't mean simply fantasizing about some vague future attainment, but entails setting specific and measurable

objectives which are realizable and to which you are willing to commit yourself.

As I continued on with this theme, citing examples from history such as Thomas Edison and Winston Churchill for illustration, my mind wandered back to the NCCC meeting held in October of 1990 to get people ready to earn their "milliyun" in CQWW. N6RO was the speaker, and Ken kept hammering on exactly this same point of setting goals.

He had a lot of operating tips to offer, as did the other speakers that night, but the one that stuck with me more than any other was this simple technique: set yourself a goal and never lose sight of it as the contest wears on. I suspect this is one of the best "secrets" of success the top contesters have to offer us little guns.

Does anybody think that N6KT just *happened* to break 10,000 Q's or that when WN4KKN does manage to win CQWW it will be because of *luck*? My own goals are not so lofty as theirs, but they are real and tangible nevertheless. I'll state my goal up front: 1100 Q's for SS-CW and 1500 for SS-SSB, or we are going to die trying! What is your goal?

The same techniques apply to the Club, I believe. In order for our Club to be successful, we need to have organizational goals to which we can commit ourselves, both individually and collectively. We discussed this at length during the May meeting, and I think I hear widespread agreement on the goals we proposed. Let's review, so we can all be clear on what we want to do this year:

✓ Make NCCC truly a regional club (rather than a bay area club) by expanding our impact area throughout the club territory.

This means being the local club with which contesters identify everywhere in Northern California. We will reach out to big guns and little guns alike and provide a forum for sharing experiences and teaching all of our

secrets of success.

✓ Put all 58 counties on the air for CQP and make CQP-94 the most widely attended state QSO party ever.

✓ Continue the NCCC dynasty in SS by getting a minimum of 100 serious entries. (Casual entries are welcome too!) A "serious entry" we define to be 100K points, and I think just about everybody in NCCC can do that if they give it a solid 24 hours on 100 (or more) watts.

✓ We WILL win WPX!

Why do we want to do this? Because we're GOOD, and we want the world to know it! It will take your help, and maybe some sacrifice, but I think the results will be worth it.

de AA6MC

Single op, Multi-transmitter

The WPX CW was my first contest with two rigs. The idea was that I'd CQ on one rig and S&P on the other. It requires funny switches, a way to assure that you only key one rig at a time, bandpass filters, and a real cable jungle. Having set this all up (with a LOT of ideas from W6QHS), I found it hard, but not impossible, to concentrate on both ears at once. The first day I only made a few QSOs on the second rig, but on the second day I was able to find someone on the right rig while CQing on the left rig, drop in my call on the right rig, call CQ on the left rig, copy and send the exchange on the right rig, and call CQ again on the left rig. If anyone comes back to the CQ you have a conflict. I chose to respond to the CQ figuring he's more likely to go away. I'll improve with time, but it's hard work. I expect it to help in the SS on the second day. Some guys that know what they're doing can do this in the Sprint, but that boggles my mind.

June 1994 to May 1995 Contest Calendar

<u>Month/Week</u>	<u>Event</u>	<u>Potential Conflict</u>	
June	4-5	ARRL VHF QSO	
	11-12	WW South American CW, ANARTS WW RTTY	
	18-19	All-Asian CW, SMIRK 50MHz	[Father's Day]
	25-26	Field Day, SP QRP	
July	2-3	RAC Canada Day(July 1), YV Independence Ph	
	9-10	IARU HF World Championship, CQ WPX VHF, ARCI Sprint	
	16-17	Columbia Independence, AGCW-DL QRP	
	23-24	SEANET CW, YV Independence CW	
	30-31	IOTA, Russian World-Wide Contest, CT QSO	
August	6-7	NAQP CW, 10-10 Ph, ARRL UHF, YO DX	
	13-14	Eu DX CW (WAE), Maryland/DC QSO, ARCI Ph	
	20-21	NJ QSO, ARRL 10GHz Cumulative, SEANET Ph	
	27-28	Empire State QSO	
September	3-4	All-Asian Ph, NA Sprint CW, LZ-DX	
	10-11	NA Sprint Ph, MT QSO, Eu DX Ph, ARRL VHF QSO	
	17-18	Scandinavian CW, ARRL 10GHz Cumulative	
	24-25	CQWW RTTY, Salmon Run, Classic Radio, Scandinavian Ph	
October	1-2	California QSO Party, VK/ZL Ph	
	8-9	VK/ZL CW, IL & PA QSO, RSGB 21/28 Ph	
	15-16	WA Germany, ARCI CW, RSGB 21MHz CW, Boy Scout JOTA	
	22-23	—	
	29-30	CQWW Ph, ARRL EME	
November	5-6	SS CW	
	12-13	JIDX Ph, Eu DX RTTY, OK-DX	
	19-20	SS Ph	
	26-27	CQWW CW, ARRL EME	
December	3-4	ARRL 160m	
	10-11	ARRL 10m	
	17-18	—	
	24-25	—	[Christmas Day]
	31-	Straight Key Night	[New Year's Eve]
1995			
January	7-8	ARRL RTTY Roundup, Hunting Lions CW	
	14-15	JIDX Low Band CW, NAQP CW, ARCI Sprint, Midwinter, Lions Ph	
	21-22	NAQP Ph, HA-DX	
	28-29	CQWW 160m CW, ARRL VHF SS, ARRL Novice Roundup, REF Ph	
February	4-5	NA Sprint CW, FOC Marathon, VT QSO, YL-ISSB	
	11-12	NA Sprint Ph, UT 160m, NH QSO, EA RTTY, PACC, YL-OM Ph.	
	18-19	ARRL DX CW	
	25-26	CQWW 160m Ph, RSGB 7MHz, REF Ph, UBA CW, YL-OM CW	
March	4-5	ARRL DX Ph	
	11-12	WI QSO, YL-ISSB	
	18-19	VA QSO, Bermuda QSO, BARTG RTTY	
	25-26	WPX Ph	
April	1-2	SP-DX, ARCI QRP CW	
	8-9	JIDX High Band CW, Holyland DX	
	15-16	SEANET CW MARAC County Ph, SARTG AMTOR,	[Easter Sunday]
	22-23	Helvetia, <i>International DX Convention, Visalia (sponsored by NCDXC)</i>	
	29-30	DX-NA YLRL SSB, Dayton Hamfest (?)	
May	6-7	OR, GA, & TX QSO, ARI-DX, 10-10 CW, MARAC CW	
	13-14	NV QSO, CQ-M, MA QSO, A Volta RTTY	[Mother's Day]
	20-21	MI QSO, Armed Forces Day, ARRL 50MHz Sprint, NW QRP Sprint	
	27-28	WPX CW	

Note: Contest dates have been compiled from a number of sources, many of whom disagree. Watch the JUG for the latest, most accurate information. 73 de N6IP

Multi/Multi, On One Tower ?

de Dick Dievendorff, AA6MC

I enjoy multi-op contests. Dan (KD6WKK) and Al (AD6E) agreed to join me for the WPX SSB. We worked out the score opportunities and decided that one multi-single effort would generate more points for the club than we were likely to generate as single ops. Multis get 48 hours, and there are lots of multipliers.

Dan brought his Yaesu 890 and Al brought his TS-950 and FL-2100 amp. The 950 was great for 40 meter SSB because of the dual receivers. In the WPX running JAs on 40 is important.

I quickly figured out that Al's call was the one to use. It's shorter, better for WPX, and Al gets to answer the QSLs. We put a card with Al's call on it directly under the computer monitor in case we forgot our call. I even do this with my OWN call, something I can forget when tired enough. I've done several contests with other calls.

Our initial plan was to operate multi-single, but on our first band change we encountered a CT bug — CT assigned new serial numbers on each band. We already had two computers networked together and two stations set up. The interstation interference was low enough to be acceptable, so we decided to go for it. Multi-Multi! Hey, the big time!

ICE bandpass filters helped to reduce inter-station interference. I hadn't figured out a fancy switching arrangement, so we manually changed filters. It wasn't pretty, but we got used to it pretty quickly.

All antennas are on one tower. 10 and 15 share one boom, 20 and 40 share another. All have separate feed lines. Tom Schiller (Force 12) worked out an antenna system for all bands (including 12, 17, and 30) within the 30 square foot windload specification of the tower. 20 meters is 6 full-sized

elements on a 44 foot boom, and 40 meters is three linearly loaded elements using 30 feet of the same boom. I'm not yet ready on 160, but that didn't seem important for this contest.

I normally feed 80 with one coax, and a remote coax switch selects 40, 30, 20, 17/15 or 12/10 on a second feedline. For the contest I set up a second remote coax switch and put 40/15 on one switch and 80/20/10 on the other. That way we could be on any two adjacent bands. I shamelessly stole this idea from N6TV.

We were pleasantly surprised at the lack of interaction between stations, even using 20 and 40 concurrently, sharing the same boom. Some interaction between 10 and 15 but didn't need to spend much time on 10 meters.

K3ZO had told me that three operators were able to concurrently use his triband quad, so I guessed it might be possible with Force 12 antennas. The key factors are separate feedlines for each antenna, bandpass filters, and avoid harmonically related frequencies.

Our biggest contention problem was for the rotator control when one guy wanted to run JAs and the other wanted to work Europe. But here's where picking compatible guest ops makes a difference - we were able to quickly agree on what was best for the total score and we're all still friends.

I learned from this that antennas will support single-op multi-transmitter mode, so in the WPX CW I'll try to CQ on one band (rate slows down a bunch after first few hours), and S&P on another. W6QHS shared his design for a switch box for headphones, key, PTT and microphone. N6TR's LOG program and CT version 9 both support single-op multi-transmitter. Several single-multi articles are in the NCJ, and it has been discussed on Trey's Internet CQ-CONTEST forum.

An LTA Remote Band Controller is used to pick the antenna based on the ICOM's band change signal. I plan to add a pair of Dunestar bandpass filters

that can use the same signals. That reduces band changes to two switches, the rig and the amp.

In a previous contest in the UK a sleepy operator swapped the wrong coax and applied the output of his linear to the input of my rig with predictable results. To avoid a repeat of that disaster, I'm looking for a switching arrangement that doesn't fry a rig if a relay fails to pick up. Station separation would also be compromised by a naive amp switching arrangement. I think the right answer is two amps, but that'll have to wait. I can work a lot of stations and fewer neighbors with 100 watts.....

This was the first SSB contest I'd entered from my QTH, and I had a few RFI complaints. Fortunately I had someone to operate the station while I was Meeting The Neighbors. I had ferrite toroids and a few telephone filters on hand, so most situations were fixed within minutes of the complaint. My neighbors remain friendly. A quick response is the best way to avoid burning crosses on the front lawn.

How'd we do? 2064 Qs for 2.78 million points. We had one op on all the time, and two ops most of the time. All of us got some sleep. We felt great until we heard of WN4KKN's 6 meg achievement in 36 hours as a single op. But, GLAD Trey did so well, his score is NCCC score. We NEED those points to continue to KB in the WPX.

A supportive XYL let me warp the family budget for another rig (thanks, honey!). A second amplifier remains a Future Objective. Thanks also to Tom (N6BT) for his superb antennas and last-minute repair of a balun I stupidly broke while changing feedlines, to Dave (W6QHS) for patiently sharing his designs and experience and answering an endless stream of questions, to Bob (N6TV) for years of gentle guidance, and to Al (AD6E) and Dan (KD6WKK) for a truly enjoyable contest experience. We might even do this again!

ANTENNA WORK

To Assure Yourself a KILL-Qs

de W6ISQ

"If it ain't broke, don't fix it" is herein superseded by, to wit, "if it ain't broke—yet, you still have time to fix it!" So it's time to start planning, upgrading, and testing equipment to prepare for CQP, SS and DX Contests.

Let's start this month with antennas, because they may take the longest and are most easily worked on in the day-time. We would all like a powerful new beam or three and indeed some will get them. But most of us will stick with the old ones. So let's think about checking up on old beams and wires to be sure they are doing what they should be doing. We've asked a few well-informed members and friends how they would recommend the eager contesters check out his/her antenna system preparatory to the fall contests. Here's the response.

Rich Lawton, N6GG: If you live in a lightning area, take the precaution to bury your coax and power lines if there is a lengthy run from the tower to the shack. If your tower is struck, there is a better chance that lightning charge will disperse its voltage on the underground run.

Bob Wolbert, N6IP: Check the attenuation of coaxial cable; ensure that the feedline to your antenna is delivering the power to it as RF, not to the sky as heat. Disconnect the coax at the antenna and measure forward and reflected power from the shack at 29.699 MHz. Ideally coax will show equal readings. For best accuracy, take a forward power measurement and then reverse the meter. This eliminates errors from SWR nulling inaccuracies.

Line loss is one half of the power drop. $P_{loss} = (P_{fwd} - P_{ref})/2$. If this loss is much more than a decibel or so (at 29MHz per 100 foot length) then you might consider replacing the run.

Bob Fabry, N6EK: Visually inspect pulleys and cables on crank-up towers. If pulleys are aluminum, watch for wear on the sides which might cause the cables to pull off. Consider changing pulleys and re-stringing tower if there's doubt.

Lew McCoy, W1ICP: Check fittings and hardware which may suffer from wind damage especially in salt water areas. Check feed line losses: hook a dummy load in place of the antenna. Then put a power meter at the transmitter and set it to, say, 100 watts on the meter. Then hook the meter between the end of the antenna and the dummy load. Read the power. If there is more than the expected, calculated loss, check coax fittings for corrosion, hardware for breakage or loose connections. Replace coax if necessary. If wire feed line is used be sure all wires are soldered, not twisted.

Dick Dievendorf, AA6MC: I'm planning to run a SWR curve on all my antennas to compare with their curve I have written in my station notebook. I plan before the fall season to measure the coax loss with a dummy load and a Bird wattmeter at the 50 watt level. I can figure out what the loss is supposed to be; I'll measure what it really is. In time to replace coax if that's needed. Coax doesn't last forever.

Al Maenchen, AD6E: For CQP and SS it's imperative to get something working well on 40 meters. A modestly high yagi is great if you can do that, but most of us can't do that. Even a two element "shorty forty" on a 40 foot TV mast can work well. Another good performer is a pair of verticals phased aimed east. That's not so hard to install as one might think. In fact, you can do that even in a fairly small back yard. The tough part is laying down lots of radials (emphasis on LOTS, not long). What with solar flux at its lowest point in years, 40 should be the primary band.

Bruce Sawyer, AA6KX: When I first put up my (baby) tri-bander 5

years ago, I made a SWR plot for each band. The readings I get today are a little higher than then. So, I plan on replacing the coax. Also, W6QHS has given me some great ideas about a temporary wire beam for 40 I can put up for SS.

Dick Baldwin, W1RU: Make sure all connections to cables, wires, elements are tight. Check that rotator direction is correct. Check coax to be sure it is good.

Steve Thomas, N6ST: While weather is nice, visually inspect all antennas and feedlines. Look for bent elements, missing pieces, abused coax, etc. Check the aim of the rotor. Does the antenna actually point where the indicator points? Run SWR plots on all antennas and store with station records. Regularly re-run the SWR plots and compare with the original.

Bob Wilson, N6TV: Best thing to do is to make sure your antenna is at the right height for working the states. Turns out, most of your QSOs will be coming in at an elevation angle of 10 degrees plus or minus 5 degrees. On 20 meters, over flat ground, your antenna needs to be 73 feet above ground. If you have a 5 degree downslope to the east your antenna needs to be only 45 feet tall to get the same effect. If you have a 5 degree upslope, it needs to be at 135 feet or higher to get the main lobe down to 10 degrees. Point your beam at azimuth 70 degrees for optimum coverage, midway between VE4 and KP4.

Dave Leeson, W6QHS: For CQP/SS best antennas are low horizontal even for 40 and 80. Check feedlines with power meter at antenna, consider 1/2 inch heliax for high bands. Inspect rotators and coax, check SWR of antennas, don't put off fixing anything abnormal. Put up low temporary antenna for careful signal comparison. Leave them up for CQP/SS. Try a wire 2 element 40 or 80. Consider small receiving tri-bander at 10-15 feet.

Re-Cap of the Doin's Last Meeting

President Steve Thomas opened the meeting and welcomed everyone. He acknowledged that the elections were unavoidably a month late because the April meeting was cancelled in deference to the Visalia convention.

Biggest news was the official confirmation of our winning both Sweepstakes and the CQ WPX. Way to go! AA6KX, N6TV, NV6O, W1FEA, W6BSY and W6OAT each made "clean sweeps" for both the CW and phone legs. W6QHS pointed out that his station also made two sweeps.

New member applications were received from WB6IRC (Brad), WA6KBL (Jeffrey), AB6YL (George), and KM6IU (Larry). All were voted in unanimously.

TV Bob presented the Nominating Committee's candidate list for 1994-1995. Unanimously elected were:

Bruce Sawyer (AA6KX) President
Bob Wolbert (N6IP) VP/Cont/Chr
Dick Dievendorff (AA6MC)

Secretary/Treasurer

Steve Thomas (N6ST) Past Pres
Al Maenchen (AD6E) Director
Bob Wilson (N6TV) Director
Dave Leeson (W6QHS) Director

Gavel fresh in hand, newly elected president, AA6KX, read a few quotes about NCCC:

From May QST, "The Affiliated Club Competition might as well be called the California Club Competition! The Northern California Contest Club repeated as champion of the Unlimited Club category. With 80 entries totaling more than 7 million points, the NCCC appears to be beginning another SS dynasty. The second-place Yankee Clipper Contest Club was close with 70 entries, but came up short with a little more than 5 million points."

May CQ, "The Northern California Contest Club repeated as World Club

WPX champion with a near record 94M points. Will 1994 be the year they break 100M?"

Bruce explained that the Southern California Contest Club scored a much higher average score per contestant, but as they submitted only 49 logs they were in a different category. SCCC has challenged us to compete with them on an average-score basis. W6QHS pointed out that the choice isn't up to the challenger.

It was suggested that the SCCC, with its larger population base, should find a few more entrants and compete with us in the Unlimited Club category

Excerpts from the Frankfort RC newsletter gave us warning that FRC is going to seriously focus on beating us next year. Bruce urged that we, the NCCC, need to set goals and decide where we want to compete. (Ed. note: see front page feature)

John Attaway, K4IIF was reported to be sponsoring a trophy for the club winner of the All Asia contest. Competed for by NCCC and SCCC?

Meeting closed with hearty round of applause for N6ST.

(From AA6MC notes)

Board Meeting

The Board of Directors met on Saturday, June 4, at AA6KX's house. All Board members were present. The agenda and action were as follows:

- Prepared budget proposal for the upcoming club meeting.
- Proposed to offer the JUG for sale to non-members for \$18 per year.
- Discussed the CQP and the associated award structure.

We agreed to send a certificate to each entrant making 100 or more QSOs, and to make available a special CQP T-shirt for entrants making 100 or more QSOs who send \$8 to help with costs.

We also added a trophy for the top mobile (multi-county) single op and multi-op effort. These awards are in addition to the traditional NCCC

Reserve Wine Award.

- We asked K6PU to again score the contest; Ken graciously agreed.

- Sent CQP announcement to QST Contest Corral via internet.

- Discussed awards for SS participation. There will be award plaques for KB-1000 and KB-2000, certificates for KB-500. Club goal is 100 entries of 100K points each. (A member can submit one entry for SSB and one for CW). A personalized NCCC hat with callsign will be awarded to each member who submits a log for NCCC for both modes and makes 100K on at least one mode. The hat will be "endorsed" for members who make 100K on both modes. An NCCC log submission is required for BOTH MODES to get a hat at all. Station hosts with guest ops will also receive a hat if the operator qualifies for one.

- Agreed to send certificates to 1993 NCCC Sweepstakes participants indicating that they are part of the "NCCC SS Championship Team". W6QHS offered to fund the postage required for these awards.

- Agreed to respond to the SCCC challenge for California SS champions but based on "total score" rather than their proposed "average score per entry". They have the population base to support an unlimited entry.

- Agreed to respond positively to K4IIF's proposal for an All Asia trophy that K4IIF offered to fund. We thought it better that a club officer send in an aggregate claim rather than having all members of both clubs send summary sheets to K4IIF.

- Discussed meeting plans and JUG emphasis articles through October. We're planning to move the meetings around over the next few months.

Details announced as places are found.

- Discussed ways of recruiting and providing training for club members.

- Start Christmas Banquet site search with the Pleasanton Hotel. AA6MC will contact this week for a date

- Next BOD meeting just before general meeting at K6ZM's Field Day.



Togetherness is NCCC Field Day Last Year
 Above: Ken, AB6EQ and Gilly, KN6DOS
 Below: Howard, WZ6Z, and Marsha, KD6AKQ



de AA6MC

Treasury Notes, June 1994

Here are our '93 budget and actual activity through May, '94:

	Budget	Actual
Membership Dues	\$3768.00	\$3822.00
Contributions to General Fund	-	\$ 340.00
JUG & Roster Advertisements	\$ 310.00	\$ 270.00
JUG Publishing	(\$2340.00)	(\$2149.01)
CQP	(\$ 500.00)	(\$ 881.50)
Membership Awards	(\$ 600.00)	(\$ 794.55)
Visalia Hospitality	(\$ 200.00)	(\$ 215.04)
Christmas Banquet	-	(\$ 219.10)
Awards Banquet	-	(\$ 20.20)
Other Self-Funding Events	-	\$ 45.99
Contingency Fund	<u>(\$ 200.00)</u>	<u>(\$ 94.82)</u>
TOTAL	\$ 238.00	\$ 103.77

We anticipate the following items through the end of the fiscal year:

June JUG:	(\$ 190.00)
Additional CQP Expenses:	(\$ 205.85)
Pledged CQP contribution:	<u>\$ 300.00</u>
NET FOR FY 1993 - 1994	\$ 8.08

Our current account balance is as follows:

Funds remaining from Fiscal 1994 operations:	\$ 103.77
Balance at Start of Fiscal Year 94	\$2480.89
Activity Credited to Fiscal Year 95:	<u>\$ 349.00</u>
GENERAL FUND TOTAL:	\$2933.66

(This excludes the repeater fund.)

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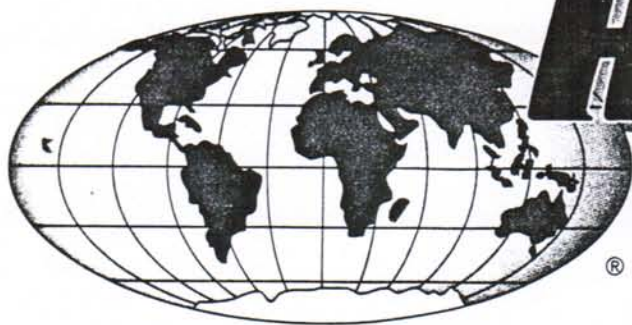
Do you know someone who might be interested in NCCC membership? Call: _____

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