



**Publication of the
Northern California
Contest Club**

**April
2003**
Issue 371



NCCC Net
Thursday 9PM
3830+/-



Reminder – April Meeting

April 14, Monday – “What is VOACAP Trying to Tell Me”
by Dean Straw, N6BV, and Annual Officer Elections.
Pizza and Soda available at a cost of \$6. RSVP to K6RB
(k6rb@arrl.net) by Friday, April 11.
6:00 pm – Schmooze; 6:30 pm – Dinner; 7:00 pm – Meeting

Location: TIBCO Software, 3301 Hillview Avenue,
Palo Alto, CA, 94304 (650-846-1000)

NCCC Officers

President: Dave Curtis, N6NZ n6nz@arrl.net
VP/CC: Bill Haddon, N6ZFO n6zfo@arrl.net
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Dave’s Waves

The Year in Review

This will be my last column as NCCC President. Looking back, I think we had a great year of contesting. Once again, we showed the world how to run a great QSO party – the CQP received over 20 percent more logs year-over-year. As I write this, only the CW results for SS are out, but the club standings show us about where we would expect – we usually gain on the competition after the phone scores are rolled in.

We took advantage of what may have been the last gasp of the solar peak to make a big effort in the ARRL 10 meter contest. Unfortunately, Mother Nature chose that weekend to give us a whacking. Did that stop us? No, not at all. The reflector soapbox was filled with stories showing the KB spirit that continually makes this club a winning organization. Generators came out and operators jury-rigged as necessary to keep their signal on the air. I’m truly proud to be a member of such a can-do organization.

Bill built a great team of lieutenants to organize highly successful NAQP and NA Sprint entries. I want to thank the volunteers that stepped up to help with the organization of these contests. Your efforts are what made these contests successful. Bill has more to say about his team in his column this month, so I won’t steal his thunder here. I also want to mention WPX 2002. This contest spans officer elections, so the team that organizes the effort is no longer in office when the results come out. I want to mention that under VP/CC Andy Faber, AE6Y, the NCCC set a new world record club score of 253,543,497. Way to KB!

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New member recruitment is another area where the club has done well. We've added many members this year, and they have been active in several club contests. The NCCC can be proud of being a friendly, welcoming, organization. I personally think that one of the club's greatest assets is the experienced Big Gun contesters that are always available to help newcomers (and the rest of us, too) with friendly advice to help us improve our contesting skills.

Thanks to the Volunteers

Much of the work of running the NCCC comes from volunteers. I want to mention their contributions here and say a big "Thank You" for the continuing effort.

Al AD6E is the lead organizer of CQP. Others who assist are Andy AE6Y with printing awards, Bob N6TV by organizing county coverage, and Marc W6ZZZ and Dean N6DE on CQP publicity. And, of course, there are Al's hard working log-checking assistants (K6III, W6OAT, KF6RIP, N6ZFO, N6DE, K6EP), enjoying their bottles of CQP wine.

Great, heaping, piles of QSL's for club station K6ZM are handled by the pound by QSL manager George, K6GT. Ed W0YK maintains the club web sites and also the e-mail reflector. N5KO provides infrastructure for the BOD e-mail reflector. This year we have a new awards manager, Kent K6ENT, who materialized all that hardwood and other items for the March awards banquet. Kent's wife, Diana, is also our new JUG editor. I also want to thank Mary, NA6E for the fine JUG's that she put out under her watch.

WPX and Next Meeting

As soon I send this column off, I'll be getting my station warmed up for WPX phone. Last night on the NCCC net, there was a lot of excitement about the upcoming contest, and a few chuckles as we all stumbled over the special calls we were trying out. I guess by the end of 48 hours, we will be able to say our calls without stumbling.

The next meeting will be at the TIBCO facility in Palo Alto, with thanks to our host Rick Tavan, N6XI. Dean Straw, N6BV will answer the

question "What is VOACAP Trying to Tell Me?" Should be a good one, as Dean is always informative and entertaining. Also, don't forget that this is the annual "throw the rascals out" meeting... er... I mean election of new officers. The slate is nearly complete, and I'm happy about the leadership we will have next year. I'm hoping to post the slate to the reflector a few days before the meeting, so watch your e-mail.

It's been a fun year. I want to thank the officer team, Rick N6XI as past president who always had good advice when I got stuck, Bill N6ZFO who worked his tail off organizing contests, Rob K6RB who kept us all financially honest, and our directors Ken K6TA, Mike WA6O, and John W6LD. And thanks to all the members for your support throughout the year.

73, Dave N6NZ

WPX Phone Strategies By Richard Smith, N6KT

Operating From California

You have 36 hours to make the maximum QSO points and multipliers. There are 3 major ham populations to consider:

- JA** Primarily for QSO points, also some multipliers
- EU** For both QSO points and multipliers
- USA** Primarily for multipliers, secondarily for QSO points

From the above, you can realize that you should run EU any time you can. You get maximum addition to your score with the combination of highest QSO points and likelihood of new multipliers.

Hour By Hour From California

I suggest concentrating on running DX stations and let the USA stations call you during the DX runs to build up your USA multiplier total. Only concentrate on running USA stations when it's not possible to run DX stations and you have operating time to use up. If you have multiple antennas, try pointing one at the USA when running JA or EU.

Hour	Primary/ Secondary	Primary/Secondary
00	10/15	JA/USA
01	10/15	JA/USA
02	10/15	JA/USA
03	10/15/20	JA/USA/(EU if 20)
04	15/20	JA/USA/(EU if 20)
05	15/20	JA/USA/(EU if 20)
06	20	EU/USA
07	20	EU/USA
08	40	JA/USA (Probably short run)
09	40	JA/USA (Probably short run)
10	40	JA /USA (Probably short run)
11	OFF	OFF
12	OFF	OFF
13	OFF	OFF
14	40	JA
15	10/15	EU/USA
16	10/15	EU/USA
17	10/15	EU/USA
18	10/15	EU/USA
19	10/15	EU/USA
20	OFF	OFF
21	10/15	JA/USA
22	10/15	JA/USA
23	10/15	JA/USA

These hourly suggestions are the same for both days. Since multipliers are counted only once regardless of band, there is no need to catch different openings on the two days.

It's okay to use up more operating time early in the contest as long as the rate is good. There may be poor propagation later in the contest and the JA runs on Sunday afternoon are often much slower.

The decision to change bands occurs when your rate gets below about half your maximum rate. If your max rate to JA is 150 per hour, you'd want to change bands when your rate gets below 60 to 75 per hour.

Stay on 10 meters when it's open and the rate is good. 15 meter propagation is more of a sure thing, so be on 10 when it's good.

There is a one-hour minimum off-time rule. But there is no minimum on-time requirement. Therefore, you can try calling CQ for a few minutes and then get off quickly if the rate is poor. This might apply to 40 meters at night or the high bands early in the morning.

You will see that 20 hours operating time is shown. However, the 40 meter JA runs will likely be fairly short runs with 1 hour off times between the short runs. If you don't have much of a 40-meter antenna, then you might sleep more during the 0800 to 1300 period and operate more during the daytime. If the night time runs are good the first night, you might run 19 or 20 hours the first day and 16 or 17 hours the second day.

Modify these suggestions for:

- 1) If things are going well, stay on the particular band or stay on the air longer than you originally planned. If things are going poorly on all bands that should be open, take some off time. Propagation might improve later.
- 2) If you have a particularly strong signal on one or more bands, spend more time there.



Ken Keeler N6RO, Dave Curtis N6NZ, and Matt Thomas WX5S enjoying the March Awards Banquet.

Operating from the Caribbean or South America

You have 36 hours to make the maximum QSO points and multipliers. There are 3 major ham populations to consider:

- EU** For both QSO points and multipliers
- USA** For both QSO points and multipliers
- JA** Work enough QSO's to get the multipliers (about 100 mults)

Hour By Hour From Caribbean / S. America

Hour	Primary/ Secondary	Primary/Secondary
00	10/15	USA/JA
01	10/15	USA/JA
02	10/15(20)	USA/JA/(EU if 20)
03	10/15(20)	USA/JA/(EU if 20)
04	10/15(20)	USA/JA/(EU if 20)
05	10/15(20)	USA/JA/(EU if 20)
06	40/80/20	EU/USA
07	40/20	EU/USA
08	40/80	USA/JA
09	OFF	OFF
10	OFF	OFF
11	OFF	OFF
12	OFF	OFF
13	OFF	OFF
14	10/15	JA
15	10/15	EU/USA
16	10/15	EU/USA
17	10/15	EU/USA
18	10/15	EU/USA
19	10/15	EU/USA
20	10/15	USA
21	10/15	USA/JA
22	10/15	USA/JA
23	10/15	USA/JA

Concentrate on running EU and USA stations, and then run JA stations if you have operating time to use. The JA's will come in during your afternoon USA runs on the high bands. These hourly suggestions are the same for both days. Since multipliers are counted only once regardless of band, there is no need to catch different openings on the two days.

The decision to change bands occurs when your rate gets below about half your maximum rate. If your max rate is 250 per hour, you'd want to change bands when your rate gets below about 125 per hour. Your low-band rate can be significantly lower due to the double points per QSO.

It's okay to use up more operating time early in the contest as long as the rate is good. There may be poor propagation later in the contest and the runs on Sunday afternoon are often slower. Stay on 10 meters when it's open and the rate is good. 15-meter propagation is more of a sure thing, so be on 10 when it's good.

There is a one-hour minimum off-time rule. But there is no minimum on-time requirement. Therefore, you can try calling CQ for a few minutes and then get off quickly if the rate is poor. This might apply to 40 meters at night or the high bands early in the morning.

There can be good activity on the low bands. 40 can be very good and 80 can be good for a while if you have a good signal. Stay off 160 – you don't need the multipliers again on 160 like in other contests. From a Caribbean or South America location, you should plan to run the full 36 hours of operating time.

You can see that there are 19 hours of operating time shown. If the bands are good, you would probably operate 19 hours or so the first day and 17 hours on the second day. I would get off the low bands earlier the second night and to take an hour off during the last 6 hours of the contest when things get a little slow.

Modify these strategies for:

- 1) If things are going well, stay on the particular band or stay on the air longer than you originally planned. If things are going poorly on all bands that should be open, take some off time. Propagation might improve later.
- 2) If you have a particularly strong signal on one or more bands, spend more time there.

Contest Musings - Final Edition

By Bill Haddon, N6ZFO

Where did that contest year go?

Most of you think of the Vp/Cc as the guy who's always chatting, or chattering as the case may be, on the reflector, warning you of some upcoming contest that you had better not be forgetting, and then making you feel guilty when you did forget. And that's probably not an inappropriate memory --It's the Cc part of the Vp/Cc job. For the moment, let's focus on the Vp part, and what's been accomplished there.

First, a word of thanks to a cooperative, if sometimes a little too silent BOD for helping push through new concepts in organizational details, and items that have been helpful to this Cc in running activities over the past year.

Provisional Membership Concept

It's frustrating to have a potential new member lined up several days before an important contest, only to realize that there was no way to get the member on board quickly. Well, with much help from the BOD and an excellent idea hatched at a recent BOD meeting, we now have a smooth and efficient system in place.

The new membership induction system evolved in several stages. It started, I think, with N6ZFO's not-so brilliant idea to consider the 3830 net as a club meeting in which members could be inducted on the Thursday before a contest. Well, we did this once, maybe before the 2nd SS weekend, and there was a legitimate squawk that this concept was in violation of the 'private' consideration that must be given to new member applications, i.e. when we kick the new member out of the room for discussion and a vote. The 3830 net is often rather quiet, but definitely not private and asking a proposed new member to leave the frequency really isn't the same as asking him or her to leave the room! Well, three new members were inducted in this fashion, but obviously the practice was a little too creative. At the next BOD meeting, a clever suggestion was made, probably by Rick N6XI, that we consider a new member's application to

immediately qualify him/her for what's now called "provisional" NCCC membership. The provisional membership allows the new member to enter contests for the club immediately, but doesn't circumvent the formal process of induction at the club's next regular meeting. So the ARRL or other contest club rules are satisfied, the Vp/Cc is happy, and we still get the chance at the club's next regular meeting to take the customary vote.

How well does this all work? Consider this notable example from the week prior to WPX SSB: In an e-mail message to the club reflector, N6ZFO suggested that some members might want to scrutinize the ARRL CW results for potential new members. This request brought an almost immediate response on March 22nd from Marc, W6ZZZ with three potential inductees, actually from a recent RTTY contest. At this point, N6ZFO sprang into action with e-mails describing the club and referring the folks to the NCCC Web site. Two days later, our Secy/Treasurer, Rob, K6RB had two applications in hand, following a little e-mail give and take with Jeff, WK6I and Chuck, AK6DV.

Interestingly, Jeff, WK6I, who just happened to be a first rate CQP and WPX contester was actually on travel, and accessed his e-mail remotely, and concocted an application in his e-mail to Rob. Now the important part here is Rob's immediate and efficient response: Chuck, AK6DV and Jeff, WK6I were officially welcomed into the club as provisional members on March 27 and March 25 respectively, five and three days after initial contact. Earlier in the year, Rob, Dave (N6NZ) and Ed (W0YK) had worked out a system for streamlining the welcoming process itself, including a new welcome letter and immediate hook-up to the club reflector.

Free Membership Offer

This was another pre-SS ruse to entice more membership recruiting. Did it work? Well, who knows, but it was a good opening line as we approached prospective new members for example at other radio club meetings that we attended. From my own efforts, three members

from REDXA signed up under this process. The proof will lie in the retention of these new members. The hope is that these folks realize what a great group they've stumbled into, and elect to renew membership for a second year. Some statistics will be available later.

Awards Changes

Under Kent's K6ENT capable leadership, we experimented with a new incentive awards concept that were in response to some member's comments that they didn't see the need for separate plaques each year for repeated achievements at the same performance level. I guess our members are achieving so well that they are faced with wall-space problems. So we proposed the concept of endorsements at a given KB Level. Advance to a new KB level, get a big new plaque. Stay at the same level, get an endorsement. There may be a little fine tuning needed, but one of the promising aspects of this new system is reduced cost in year two of this new awards system. Incidentally, Kent beautifully solved the 10M awards problem with the NCCC polo shirts in a way that avoided what we thought might be a propagation disaster. Well, the disaster occurred all right, but not propagation. The awards appropriately honored those who successfully executed during this difficult weekend.

The Year in Contesting

Andy, AE6Y, and before him, Ken N6RO were hard acts to follow. So it was with trepidation that I undertook the Vp/Cc job this year. Immediately, it became clear that some re-focusing was needed following a loss and then a crushing loss to SMC in the ARRL Sweepstakes. So we diversified this year, and tried to build up the base. The focus on recruiting was part of that effort. But another part was to change our contest emphasis. Importantly, following a suggestion by Kenny, K2KW and others, it seemed like a good idea to take an official club shot at the 10M contest, an event where NCCC had no recent organized experience. With good help from Dave, KA6BIM and many others, we put together an impressive effort for this December ARRL 10 m contest, only to have Mother Nature, and PG&E conspire against us in one of the worst contest weekend storms in many years. Still, the

event was great fun, and it inspired great innovation from a number of members in their efforts to keep on the air during a very challenging weather situation. Because this contest combines both DX and stateside contesting, it should be an appropriate one for NCCC to do well. With incomplete data, we'll try to do some forecasting to see if there are victory possibilities in future years of high sunspots.

Sweepstakes, Where Do We Go from Here?

To NCCC and the other big clubs, SMC's now two and probably three-year string of victories stings our considerable pride. But we'll find a way to beat these guys again. As a club, we really need to give this serious thought. Please get your best ideas together and help the new board in its efforts to recapture the SS gavel for NCCC. What I would say is that imitation may be the most sincere form of flattery, but it probably isn't the way to beat SMC. Something creative is needed here. Membership increases will be important, but it's not the whole story. We need to assess our strengths, develop them and explore new concepts at the same time.

The NCJ Sprints

These are really my favorite radio contesting events. The response from the club was outstanding. Interestingly, our NCCC teams made impressive scores, particularly in the SSB sprints, surprising to me for a predominately CW club. These contests are really the ultimate in contest training and preparation. It was especially gratifying to have many new members participate for the first time. In fact, 34 different members entered the Feb 2003 sprints, and 33 members took part in the Sept 2002 contests. Those participation levels compare with 16 participants in each of the 2001/2002 events, and 17 and 20 in the previous year. In fact, these may be new NCCC records. Notably, these great efforts wouldn't have been nearly as successful without the leadership of the four team captains: Mark, KI7WX and Jim, W6EU for September, and Bob, W6RGG and Matt, WX5S who ably led the February Sprints. Many thanks to all of you. But the biggest thanks really go to the many members who jumped in and ran these contests and the others that we emphasized as a club.

And, we had our first glimmers of RTTY sprinting this year, thanks in part to the efforts of Doug, N6TQS, who put together a small team in the September sprint. There's potential here, and I hope we'll see more of you in this event next year.

The State QSO Parties

This year, NCCC participated more fully in the various State QSO parties, reminding these folks that they owe us a return favor for CQP. The test case was the New England QSO party, in which we made a major effort in May of next year. In a future article, I'll take a look at how effectively the NCCC participation in NEQP increased their participation in CQP this year. New Englanders had become scarce in recent years, so this was an effort to revive their CQP participation level. Mark, W6ZZZ, was especially helpful in this activity, and his sponsorship of the first club plaque for CQP was an additional creative move to encourage CQP participation.

The Roving Reporter

The most fun activities this year were running the 3830 net with Ken, and writing the NCCC RR columns. This club is the best source of humorous material that a writer could ask for; at least it keeps Jack and I going. From this column, I learned that someone actually does read the JUG. The title NCCC Roving Reporter of course differs from the JUG roving reporter. However the name Roving Reporter actually came from a short neighborhood newspaper that I wrote in about 1950-1952 in Denver, so I wanted to revive that name. I wonder if the RR will re-emerge. By the way, if there's a cartoonist out there, I'd love to hear from you.

More Thanks

It's been a great year, thanks in large part to all of you who helped in many ways. As noted, the BOD, and especially our President N6NZ gave me pretty free rein, something that's much appreciated, but is also a responsibility. I particularly appreciate the many levels of support in the club, N6RO and W0YK being especially notable examples in the communications area - Ed for the web page and reflector, and Ken for the 3830 net. My right hand assistant this year was Jerry, K6III, who participated above and definitely beyond the call of duty in the important

task of verifying log submissions. Finally, I'm particularly grateful for advice from Rick, N6XI and Andy, AE6Y, who graciously helped bail me out of various difficulties over the year. Finally, it's the Vp/Cc's responsibility to run at least one of the meetings this year, prior to big contests. With two emphasis contests this year, both SS and ARRL 10M fell into that category. Special thanks are due to Ken, N6RO, Dan, K6IF, Dean N6BV and Jim N9JIM for their efforts, and of course Dave, KA6BIM, for his 10m inspirations.

Now it's back to contesting again, finally. 73, Bill N6ZFO, soon to be ex-VP/CC.

The NCCC Roving Reporter... It's back (*again*), this time containing the important middle section

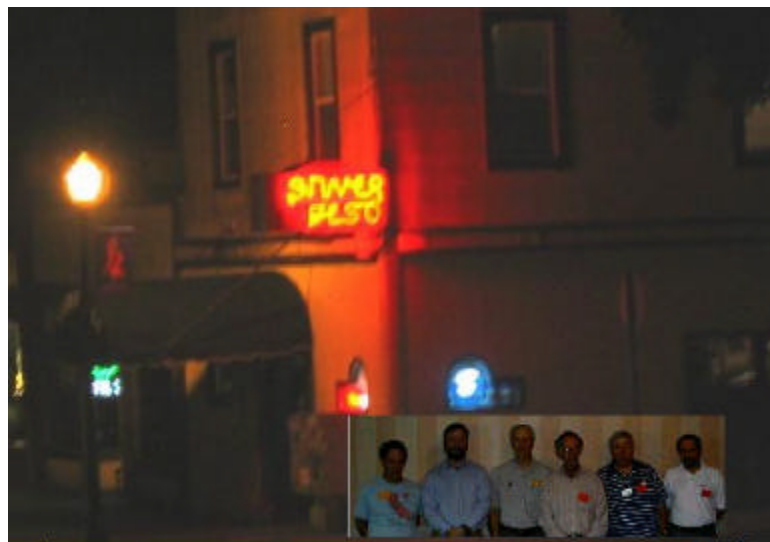
Cynics will no doubt accuse the RR of leaving out the middle of last month's NCCC RR article in a not-too-subtle effort to increase the reader's suspense. Be that as it may, read on for additional exciting details of last month's RR offering.

Greetings. After an absence of what may seem to some like many years -- one of the NCCC Roving Reporter's so-called permanent retirements -- compelling events, too amazing to disregard, have once again revived the so-called talents of this erstwhile NCCC author. However before proceeding with this month's startling revelation, this Roving Reporter wishes to clarify, for the benefit of future JUG historians, what many of you may have figured out already, namely that the NCCC Roving Reporter and the JUG Roving Reporter of previous issues should not be confused in any way, these two entities being totally separate and unrelated, but both features of this famous and enduring rag. Now for the shocking news, herein to be dutifully reported . . .

NCCC Thursday Night 3830 Net Changes Venue --Reason is to Practice New Phone Contesting Technique.

After many years of meeting on Thursday nightly at the famed (or defamed) 3830

frequency, the BOD has just announced that the Thursday 3830 Contest Net is relocating to a new, off-the-air location, depicted in the dim and barely discernable photograph below, secretly obtained by an NCCC member. Is it remotely possible that this new 3830 Net location is, in reality, an actual BAR? Nothing could be closer to the truth: Look carefully at this dimly lit image. You may see the NCCC bod members emerging from this here-to-for secret ~~drinking~~ contesting location. Now, you ask, why would the NCCC gang decide to hold contest discussions and practice events in a bar? Indeed, this does seem like a pretty good idea, but the truth is more amazing than this Roving Reporter would ever have believed and he encourages you, the loyal members, apparently with much time on your hands to waste, to read on.



Need for 3830 Change Explained in E-Mail to NCCC Reflector

Although the Roving Reporter, usually hard up for news, he is often astounded at what simply falls out of the sky. The following e-mail at the from a well-know NCCC member appeared on the reflector shortly before the not too recent ARRL Sweepstakes:

Author of E-Mail Has "Interesting" Call Suffix -- Suggesting Preferred Contest Drink May Be *Beer*, not Water.

Careful readers of the above e-mail will have noticed that the call letters of its author suggest a certain beverage, depicted in the Figure below. This surely cannot be a coincidence -- in fact the RR does not even believe in the concept of coincidence, as it could ruin his columns. This situation may actually explain the choice of the new 3830 venue depicted above, and the enthusiasm for



attendance by bod members, who we could never accuse of over -attendance at the old 3830 location. However, please note another important feature of this K6XX email: Although the message claims you will avoid Sunday *laryngitis*, there is no actual mention made of the more likely result, a Sunday morning *hangover*, an entirely different issue, but apparently a distinct possibility if this new technique is taken seriously.

Does New Contesting Method Actually Work? Poll of NCCC Contesters Recommended

With SS Phone now in the distant past, the club should now attempt to answer the question: How many NCCC members have adopted this

"Subject: [NCCC] Handbook Addendum for SS Phone
From: "Bob Wolbert K6XX" <k6xx@arrl.net>
Date: Tue, 12 Nov 2002 10:51:44 -0800
To: 'NCCC Reflector' nccc@contesting.com

Here's an item that should be in the SS Handbook. It was suggested by Dean, N6BV, and proved an excellent idea in last year's test.

In phone contests, especially SS Phone, where the exchange is long and CQs endless, keep your throat moist by always having a **drink** (*emphasis by RR*) at hand. This is important even when using a voice keyer, since many CQs--and nearly all exchanges--are voiced live during low rate portions of the contest to sound more "personal" and attractive to the casual participant. Use a **drinking straw** in the glass/cup/**can** so you needn't move the mike boom every time you sip.

The **straw** is the **key**: (*no, no -- I don't think he author of this strange e-mail means that you are to send cw with the straw--remember, we're talking phone SS here ☺ RR*) with it, taking small sips is easier and less intrusive on contest rhythm (since no mike repositioning is necessary), so you will keep your throat moist and prevent Sunday morning laryngitis.

C U in SS . . .
 73 de Bob K6XX"

important new radio contesting technique? The Roving Reporter respectfully suggests that what is needed here is, you guessed it, a **straw poll** of the membership. With that, the RR had better sign off permanently, before he is ejected from the pages of this fine journal forever. But, before leaving, he could not disappoint the membership by failing to show a photo of what is believed to be an actual NCCC member testing the new N6BV method, albeit not on a brand XX beer. But the big question in all this is the following one: Is it possible that the N-Triple-See gang is actually a drinking club with a radio contesting problem?? Only you, the members, can be the judge.

President Addresses Straw Technique Problem

Our esteemed club president, Dave, N6NZ wishing as always to be as helpful to club members as possible, immediately posted to the bod-plus reflector that he has in hand, a catalog of **portable urinals**, an important accessory to the new N6BV contesting technique. (For further discussion of this topic, the reader is hereby referred to an earlier NCCC Roving Reporter

Article "Interview with Famous North Bay Contester, K6UM" in the May 2002 JUG regarding the previous and again upcoming **WPeeX contest**.)



The RR wishes to thank Betty France Photography, www.mwt.net/~bbfrance, Gallery #5 "Squirrel drinking beer" for the beer can squirrel figure. Any resemblance between this squirrel and an actual NCCC member is purely coincidental, but as noted above the RR does not actually believe in coincidence anyway.

Contest Calendar for Apr/May 2003

Compiled by N6ZFO, Vp/Cc

Special NCCC Club contests in red.

Events that may be of particular NCCC interest in **bold**.

Note: For additional special interest contests in February, consult <http://www.hornucopia.com/contestcal/contestcal.html> or www2.arrl.org/contests/months/mar.html (Careful -- Many Errors)

Rules Links: Good example: www.yccc.org/Links/Rules.htm

State/Prov. QSO Parties in March/Apr: **FL**, GA, MO, **MI**, ON(VE3), NE

HF Contests --April 2003

MO QSO Party	1800Z	Apr 6	0500Z	Apr 7	www.qsl.net/w0ma
	1800Z	Apr 7	2400Z	Apr 7	
SP DX Contest	1500Z	Apr 6	1500Z	Apr 7	http://www.sp5zcc.waw.pl/spdxc/en/index.php
JIDX CW	0700Z	Apr 12	1300Z	Apr 13	http://je1cka.izap.com/jidx/
GA QSO Party	1800Z	Apr 12	0359Z	Apr 13	http://gqp.contesting.com/
	1400Z	Apr 13	2359Z	Apr 14	
TARA PSK-31	0000Z	Apr 19	2400Z	Apr 19	http://www.qsl.net/wm2u/rumble.html
MI QSO Party	1600Z	Apr 20	0400Z	Apr 21	http://www.miqp.org/MiQP_Rules.htm
Holyland DX Contest	0000Z	Apr 20	2359Z	Apr 20	http://hamradio.iarc.org/contests/holy2003rules.html
ON QSO Party	1800Z	Apr 20	1800Z	Apr 20	www.odxa.on.ca/oqphome.html
FL QSO Party	1600Z	Apr 27	0159Z	Apr 28	www.qsl.net/fqp
	1200Z	Apr 28	2159Z	Apr 28	
NE QSO Party	1700Z	Apr 27	1700Z	Apr 28	www.qsl.net/hdxa

HF Contests --May 2003

*** CQ WW CW WPX ***	0000Z	May 24	2400Z	May 25	http://home.woh.rr.com/wp/
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12 Store Buying Power!



HAM RADIO OUTLET

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Price : \$1039.95
Coupon/special : \$25.00
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