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NCCC Meeting

Saturday 29th August

Location:-

Harry's Hofbrau
390 Saratoga Avenue, San Jose, CA 95129

Program:

- RTTY CONTESTING – Building your strategy and optimizing your score
- THE 2015 CALIFORNIA QSO Party
- The NCCC BBQ on September 19th

See [Page 17](#) for full details

California QSO Party

50th Running Of The CQP!

1600 UTC October 3, 2015 to 2200 UTC October 4, 2015

The California QSO Party (CQP) is held every year on the first weekend of October. The first CQP took place in 1966. Since 1974, the Northern California Contest Club (NCCC) has sponsored CQP. CQP has traditionally opened the annual contest season by providing an opportunity for contesters to prepare for the ARRL November Sweepstakes since the format is similar.

Stations outside of California, worldwide, work stations in California only. The 58 counties of CA are the multipliers. California stations work all stations in or out of CA. The 50 US states and 8 Canadian areas are the multipliers. Stations outside of Canada and the US add to one's QSO total but do not count as multipliers. See the full set of CQP Rules for more details.

Be sure to visit the NCCC website <http://cqp.org/> for the latest scoop on a super contest club.





Northern California Contest Club

Excellence In Amateur Radio Contesting

Officers:

President	Bob Hess	W1RH	w1rh@yahoo.com
Vice President /Contest Chair	Steve Dyer	W1SRD	w1srd@arrl.net
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Secretary	Joanna Dilley	K6YL	secretary.nccc@gmail.com
Past President	Rick Karlquist,	N6RK	richard@karlquist.com
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Director:	Rich Cutler	WC6H	wc6h@yahoo.com
Director:	Ron Castro	N6IE	ronc@sonic.net

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New Member Mentor	Al Rendon	WT6K	wt6k@arrl.net
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CQP Chair	Kevin Rowett	K6TD	k6td@arrl.net
CQP Certificates	John Miller	K6MM	k6mm@arrl.net
K6ZM QSL Manager	George Daughters	K6GT	k6gt@arrl.net
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Northern California Contest Club

Excellence In Amateur Radio Contesting

NCCC Net

Thursday 8 PM

Freq: 3.610 +/-

NCCC

Visit the meetings page of the NCCC website [here](#) for details of the next meeting

NCCC Membership Information

If you wish to join NCCC, you must fill out an [application for membership](#), which will be read and voted upon at the next monthly meeting. ([PDF application form](#))

To join, you must reside within [club territory](#) which is defined as the maximum of:

- Northern California, anything north of the Tehachapi's up to the Oregon border, and
- A part of north-western Nevada (anything within our ARRL 175-mile radius circle centered at 10 miles North of Auburn on Highway 49).

President's Report

Hello KB'ers!

From the Urban Dictionary:

Ka-Ching

An imitation of the sound made by a cash register, used when someone's action will result in mo' money; see also cha-ching

Now, replace "mo' money", with "mo' points". I heard ka-ching in my mind over and over. I felt like a human cash register....or better yet, POINT register!

Let me explain:

The other day, I was at the Mother Lode meeting. KK6EK was the speaker (Heard Island dxpedition) and we had a good turnout. Now, besides a good speaker, for any club meeting, it's good conversation that always results.

In this case, I was hearing various conversations about station improvements. Things like:

Steve, K6SCA's wires are being replaced by a 74 foot crankup that will be holding a JK dual-band 20-40 beam and a JK 10-17 meter flame thrower. If you've seen the points Steve has been making with wires.....Ka-Ching!

Dick, K6LRN, just got a second radio. He's on his way to SO2R and increasing his normally great scores by 1/3 more.....Ka-Ching!

Jim, K6OK, who lives on a small city lot, is going to continue to live on that small city lot, but he just purchased 5 acres at a dream location near Pilot Hill where he is going to build a remote station. Jim is a Sweepstakes guy, by the way.....Ka Ching!

Did you know that Rich, WC6H, does not operate SO2R? Have you seen Rich's Sweepstakes scores? Actually any of Rich's scores? Can you imagine what Rich can do with SO2R at his superstation? Bob, N6TV is thinking the same thing and Rich tells us that Bob will be setting him up with SO2R very soon....Ka-Ching!

Verne, K6DN, who keeps growing his scores, is now in the serious point generating category. He's replacing a hex-beam, on the roof, with a big crank-up that will be holding a shiny new 4 element SteppIR.....Ka-Ching!

Bob, KR6N and a fairly new contester, is not to be left behind. He's got a tower going up and there will be aluminum on it. No more wires but more points....Ka-Ching!



K6SCA's New Tower

Also at the meeting was Dave, K6KNS, who is a new MLDXCC member and was recently voted into NCCC. Same as Bob, he's got wires being replaced with aluminum.....Ka-Ching!

And then there's the new guy who got voted in at the meeting. Ed, K6AAM. Ed lives in Shingle Springs, but he used to live in Croatia and he still holds the call sign, 9A2AW. It seems that he has been heard in the past operating in CQWW at some obscure station with the call sign, 9A1A. Ed's now officially a MLDXCC member but we're going to get him into the point-generating business for NCCC.....Ka-Ching!

So, after the meeting, I could not get the Ka-Chings out of my head and started thinking about other recent conversations and reflector exchanges.

A few days ago, I was chatting with Jim, K6LR, on the El Dorado repeater. Jim has been scoring serious points in CQP and now has a new tower and big beam up. He's going to be a force for MLDXCC in CQP this year with that big shiny new Tennadyne log periodic he just put up. Seems that Jim hasn't joined NCCC yet. We're going to fix that.....Ka-Ching!



K6LR Tennadyne

But there's more!. I was on the El Dorado ARC repeater the other day chatting with K6LR and K6DN about getting tooled up for RTTY. A "how-to" and operating tutorial, if you will, given by moi, for both at one of their QTH's. The next day, I got an email from K6KNS, who had been reading the mail, asking if he could join in on the fun. All three want to be up to speed for the RTTY Roundup, in January....and we need them.....Ka-Ching!



K6DN tower

I think it is significant to note that most of the contesters mentioned, above, except WC6H and K6LRN, are relatively new NCCC members, most joining in the past year or so. Why is this significant? Because it's new blood for the club. One or more of these guys has the capability of becoming the club's next N6TV or K6XX or WC6H, etc (and, yes I know I left a bunch of you large point generators out of this example – don't take it personally, but Bob, Bob, and Rich just popped into my head!).

Let's look at how some of these guys have been doing in CQP for the past three years:

K6SCA – Wire antennas, HP

YEAR	CW Q'S	SSB Q'S	SCORE
2014	0	801	88,110
2013	0	668	72,144

K6DN (formerly W6VMT) – Small beam, LP

YEAR	CW Q'S	SSB Q'S	SCORE
2014	0	666	74,592
2013	0	308	30,184
2012	0	381	29,718

K6LR (formerly K6OLY) Wires, LP

YEAR	CW Q'S	SSB Q'S	SCORE
2014	0	770	81,620
2013	0	0	0
2012	0	117	7,956

Quite a rivalry has developed between these three guys within the Mother Lode club. All are trying to outdo each other in contest scores and DXCC totals.

You'll note that none of these guys has tried CW. KR6N, has been playing with CW decoders and has been increasing his CW numbers with every contest he enters. It's only a matter of time before Steve, Verne and Jim do the same, since they all saw Bob's talk on how he does it, along with a talk from K6OK.

But, really, none of this has anything to do with MLDXCC. The point I'm trying to make is that, with the exceptions noted, all of these guys have since become NCCC members and have seriously caught the contesting bug. They're improving their stations and have realized the significance of Butt-In-Chair.

This is the future of our club. This is how we're going to win RTTY-RU and Sweepstakes in 2016.

So where do our senior NCCC members fit into all of this? Well, of course, we're depending on all of you to make points but, more importantly, we need you to recruit new contesters from your local clubs. Most of those mentioned above heard a talk given by myself or one of the other MLDXCC members about CQP and contesting. They all came to a MLDXCC meeting, met senior members who welcomed them with open arms and treated them as equals, and instantly felt that they needed to support the Club's CQP mission. Then, they caught the bug and were encouraged by those same senior MLDXCC members to join the finest contest club in the world....the Northern California Contest Club.

This is the formula that has worked year after year for the Mother Lode club and our senior members of NCCC need to take note. What I ask of you is simple:

- Seek out new contesters at your local club meetings and invite them to ride along with you to a NCCC meeting.
- Welcome these newbies at our meetings. Make a place for one or more of them at your table and chat with them. Make them feel wanted and part of the team.

If each and every one of you does this, we're going to be kicking serious butt in the contest world.

See you at the August meeting!

NAQP AUGUST SSB

Thanks to everyone who participated in the North American QSO
Party August SSB contest.
(Scores from 3830scores.com)

Single Op HP	Single Op HP	Single Op HP	Single Op HP
Call	QSOs	Mults	Op Time
W6SX	400	102	40,800
K6SCA	17	11	187

Single Op LP	Single Op LP	Single Op LP	Single Op LP
Call	QSOs	Mults	Op Time
W6NL(N6KT)	1125	149	10
N6IE	743	117	10
W6YX(N7MH)	708	110	10
WC6H	623	106	10
W1SRD	334	95	4.5
K6GHA	293	86	9.5
K6MR	262	56	4.0
W1RH	108	57	2.5
WK6I	131	46	
K6KNS	136	39	5.25

W6LD	123	41	3.1	5,043	NCCC
KR6N	91	45	6.35	4,095	NCCC #4
N6EE	75	42	2	3,150	NCCC #3
KO6JF	81	38	8	3,078	NCCC #6
WB6JJJ		82	35	2,870	NCCC #6
K6JEB	57	32	05:16	1,824	Heard Island Rockhoppers
N6DZR	50	30		1,500	NCCC #5
K6ELE	60	25	2.5	1,500	NCCC
N2NS	50	29	0:54	1,450	NCCC #5
K6LRN	52	27	2:25	1,404	NCCC #1

K6CSL	44	29	09:49	1,276	NCCC
K6AO(N1DID)	48	26	8	1,248	NCCC #3
K6MM	31	22	1	682	NCCC #2
N6RO	45	15	0.7	675	NCCC #4
KH6/N6DA(@KH6LC)	27	14	14	1.0	378 NCCC
W6RGG	36	9		324	NCCC #4
AE6YB	14	11		154	NCCC
NA6O	2	2	.1	4	NCCC #6

| Single Op QRP |
|---------------|---------------|---------------|---------------|---------------|---------------|
| Call | QSOs | Mults | Op Time | Score | Team |
| NN7SS(K6UFO) | | 71 | 36 | 3 | 2,556 NCCC #5 |

NAQP AUGUST CW

Thanks to everyone who participated in the North American QSO Party August CW contest. Also, a big thanks to our flogger, Jack, W6FB.

(Scores from 3830scores.com)

| Single Op HP |
|--------------|--------------|--------------|--------------|--------------|------------------|
| Call | QSOs | Mults | Op Time | Score | Team |
| W6SX | 811 | 190 | | 154,090 | NCCC |
| Single Op LP |
Call	QSOs	Mults	Op Time	Score	Team
N5KO(@W6NL)	1165	232	10	270,280	NCCC Gold Rush
W6YX(N7MH)	1068	199	10	212,532	NCCC Gold Rush
N3ZZ	843	187	9.9	157,641	NCCC Gold Rush
K6SRZ	807	176	10	142,032	NCCC Gold Rush
K9YC	698	172	10	120,056	NCCC Pinnacles
W1RH	663	178	10	118,014	NCCC Pinnacles
W1SRD	677	159	9.5	107,643	NCCC Pinnacles
N6IE	672	151	9.8	101,472	NCCC
N6ZFO	580	165	7:58	95,700	NCCC Pinnacles
W4UAT	588	154	10	90,552	NCCC El Dorado
N6RO	486	157	5	76,302	NCCC Pinnacles
K6LRN	483	151	~8	72,933	NCCC Golden Gate
K6RB	424	153	5	64,872	NCCC
KZ2V	396	125	10	49,500	NCCC El Dorado
WB6JJJ	285	116		33,060	NCCC Sequoia
NA6O	250	96		24,000	NCCC El Dorado
N6DQ	276	86	4	23,736	NCCC
K6JEB	205	82	9:47	16,810	NCCC
KM6I	169	76	3	12,844	NCCC Prospectors
K6NV	181	66	4.2	11,946	NCCC
K6GT	156	72		11,232	NCCC Golden Gate
K6MM	160	64		10,240	NCCC Golden Gate
KR6N	157	54	6.5	8,478	NCCC
K6CTA	132	64	3.5	8,448	NCCC
K6XV	124	53		6,572	NCCC Golden Gate
KI6OY	83	41	9.5	3,403	NCCC
WK6I	64	38		2,432	NCCC El Dorado
W7TR(KH2TJ)	64	34	4	2,176	NCCC
N2NS	40	32		1,280	NCCC Prospectors

N6DZR 15 12 180 NCCC

Single Op QRP Single Op QRP Single Op QRP Single Op QRP

Call	QSOs	Mults	Op Time	Score	Team
NN7SS(K6UFO)			448 130	10	58,240 NCCC El Dorado
W6JTI	407	126	10	51,282	NCCC
K6GHA					



Dues are Due!

Membership dues are voluntary.

For Full Members wishing to financially support the club, \$24.00 or more per year, payable in July, is recommended.

\$24.00 per year entitles members to receive plaques and other club awards as these are the primary club expenses.

Family members and full-time Students are eligible for dues at half the recommended rate, or \$12.00 per year. (One member of the family pays the recommended full dues of at least \$24.00, enabling the rest of the family to join as family members).

Associate members are also recommended to pay dues at the \$12.00 per year rate.

Dues can be paid online via Credit Card (Visa, MasterCard, Discover or American Express) -- or your PayPal account. Nccc.cc/membership

Dues can also be paid by filling out this DUES RENEWAL FORM and mailing it with a check made out to "NCCC" to the Secretary/Treasurer whose address is on the bottom of the form.

Send your check made out to "NCCC" to:

NCCC
Dick Wilson, K6LRN
P. O. Box 273
Somerset, CA 95684-0273

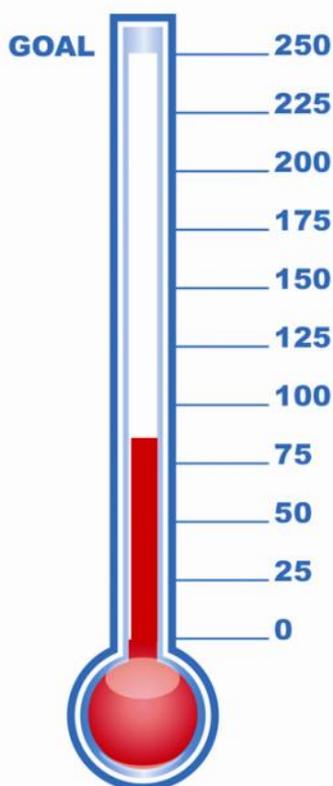
IT'S JUST TWO BUCKS PER MONTH!

Join those who have already contributed to our goal of 250 paid members in 2016

You dues support our awards program, our activities like the upcoming BBQ, club insurance, CQP promotion, this year's CQP50 special awards, and possibly future costs to bring in premier speakers from

AA6K
AE6Y
AJ6V
K0BEE
K3FIV
K6CSL
K6CTA
K6DGW
K6DN
K6ESL
K6KNS
K6LRN
K6ME
K6MLF
K6MM
K6OK
K6RIM
K6TIG
K6TKD
K6UFO
K6UM
K6YL
K7VC
KE6PPE
KE7EVV
KE8FT
KI6P
KM6G
K06JF
KR6N
N2NS
N3ZZ
N5KO
N6BV

N6DE
N6DQ
N6EE
N6IE
N6ORB
N6RO
N6SJ
N7MH
N7TR
NR6Q
NS6T
W1RH
W4NJK
W6BBS
W6CT
W6DPD
W6FDU
W6KR
W6NEV
W6OAT
W6PK
W6RKC
W6SX
W6SZN
W6XU
W8NF
WB6JJJ
WC6H
WE6Z
WZ6Z
K6GFJ
K6GT
K6OWL
K9YC



KH6GJV
KH6LC
N6DB
N6JS
N6ZFO
WJ6O
WX5S
AD6GI
K6RM
K6TKM
DJ0QN
W6MSF
NK7U
VY1JA

TUBE OF THE MONTH

Norm, N6JV

X2159

Among collectors, there is always a competition to have something that is older, more valuable or larger than the other guy. It's a "mine is bigger than yours" type of rivalry. In tube collecting, the X2159 or 8974 fits into this category. Eimac developed this power tetrode in about 1973. At a dissipation of 1.5 million watts it has an output of 2.15 million watts in class C. If you want to be the biggest gun on 20 meters, this tube is for you. Before you call Eimac, you might take a closer look at the power requirements. The filament takes 16.3 volts at 600 amps (that's 10,000 watts) to light it. The power supply will need to supply 22,500 volts at 125 amps. Your old amplifier won't drive it since it takes 7000 watts input. Then there is the cooling. The water lines are 2.25 inches in diameter and even the filament is water cooled. A fork lift is always a good idea as it weighs 175 pounds. Continental Electronics uses two of these tubes in their 1 and 2 million watt AM broadcast stations if you don't like to homebrew.



NCCC New Members!

By Joanna K6YL, NCCC Secretary

At the August 29, 2015 meeting in San Jose we'll have at least 3 new members to vote in. The following applications have been received thus far, thank you for your support!

Bill Sirvatka WX6B – Santa Rosa, CA

Licensed for 25 years, Bill is already a member of Redxa and is now looking to join and support NCCC! His station includes an Elecraft K3, Acom 2000A, 4 towers, and an M2 20m beam. He is primarily a phone contester (woo hoo!), and his favorite contests include VHF/UHF and CQP.

Frank Reynolds W6BBS – Madera, CA

An Amateur Extra who has been licensed for 16 years, Frank enjoys operating Phone (50%), CW (25%), RTTY (10%) and Other (15%). His favorite contests are CQP, WPX and CQWW, and he has taken 2nd place in CQP 4 times! His station includes: FT1000D, 706Mk2G, Henry 2K-3, 2M1K2, 6M1K2, towers and antennas for 160m to 2m.

Greg Glenn NR6Q – Gant, CA

In addition to favoring WPX and IARU HF contests, Greg also enjoys VHF contests and has previously been awarded Pacific Division Winner. He has been licensed for 40+ years and his station includes: FTDX9000D, Kenwood TL-922, and a SteppIr DB-42 at 80 feet.

We are also pleased to report the following NCCC member has rejoined us after numerous years off:

Steve Jones N6SJ – Woodside, CA

An Amateur Extra who has been licensed for 54 years, Steve was last active with NCCC back in 1975 but has now returned for some KB! His favorite contest is the ARRL CW Sweepstakes :-)) and he has previously won awards in this contest for 1968 SV Section Winner Low Power, 1986 SCV Section Winner Low Power, and 1988 SCV Section & Pacific Division Winner Low Power. Steve's station includes: K3/P3/KPA500, SteppIr DB-42 on a US Tower HDX589, with an 80m dipole. All of his contesting experience is with paper logging, so he looks forward to learning PC logging and perhaps even SO2R.

MEMBERS ONLY Section of the NCCC Website

This section provides a wealth of information to NCCC members! The button is located at the top right of the home page, and can be accessed with a user name and password. Don't know your password? Email secretary.NCCC@gmail.com.

Additional Helpful Membership Information

NCCC Membership Roster -- <http://www.nccc.cc/members/roster.html>

Need to Update the Roster? -- Use the same link as above! You'll find an easy online form for notifying the team of changes to your contact information.

NCCC Dues Renewal -- <http://www.nccc.cc/membership.html> Your support is appreciated!

Don't Know if you are Current on Dues? -- Check the Membership Roster for a green-highlighted "2016" next to your name. This indicates you have paid membership for the 2015-2016 contest year.

Thank you and KB!

Joanna K6YL
NCCC Secretary

Northern California Contest Club Reflector—Guidelines

This reflector is devoted to the discussion of contesting.

This includes contests, station building, dxpeditions, technical questions, contesting questions, amateur radio equipment wants/sales, score posting, amateur radio meetings/conventions, and membership achievements.

This does not include personal attacks, politics, or off-subject posts which will be considered a violation of the Guidelines.

Violations may result in removal of the violator from the reflector and possibly from club membership in good standing.

VP/CC Report

Greetings NCCC'ers,

Instead of contest results, I thought I'd give a shout out to all the people that have been volunteers organizing the various operating events for NCCC members and making our hobby and contesting better and more fun. As always please let me know if I miss anyone.

NCCC RTTY Sprint Ken Beals, K6MR

NCCC Sprint Ladder Bill Haddon, N6ZFO

For information on the NCCC Sprints see <http://www.ncccsprint.com/index.html>

NAQP - Jack Brindle, W6FB

CW Sprint - Bob Vallio, W6RGG (AJ6V for the upcoming CW Sprint)

SSB Sprint - Chris Tate, N6WM

RTTY Sprint - ???

Thanks everyone who participated in the August NAQP's. Conditions were variable, but impacted everyone equally. Looks like a top ten finish for Rich, N6KT@W6NL!

RTTY Roundup 2016

Let's put another one in the win column for NCCC. The August meeting will include a discussion around how to create a strategy to optimize points for the Club based on your station and time. It goes without saying that more time in the chair equals more points, but if you have to limit your hours, what's the optimal strategy given your constraints?

Without a doubt the biggest single thing you can do to make a big impact on your score is to go SO2R. SO2R and RTTY are made for each other. While the setups are a bit more complex, the payoff and fun are more than worth it. RTTY SO2R can add a significantly larger percentage of QSO's than CW or SSB. In my personal experience, nearly 40% of the QSO's come from the second radio in a RTTY contest. Great way to dip your toe into SO2R.

RTTY Resources

Before the meeting, take some time to read, check out your setups and prepare any questions.

Hands down the best website for reference on how to setup and contest with RTTY is <http://www.rttycontesting.com/>. Don, AA5AU and well known RTTY contester, maintains the site and it contains a wealth of information about setup and contesting with RTTY.

The Thursday night NCCC RTTY sprints are a fantastic way to get the station in order, build familiarity with the software and get practice. <http://www.ncccsprint.com/rtty.html>

If you have not read W0YK's excellent Contest University presentation from 2014 you should. Introduces many more techniques and concepts we can discuss at the meeting. <http://www.dxuniversity.com/presentations/W0YK%20-%20Essentials%20Of%20RTTY%20Contesting.ppt>

Remember, NCCC exists to win contests and we are doubling down on RU this year.

73/KB,

NCCC Meeting

Guests are always welcome at the NCCC! - Please join us.

Saturday 29th August 2015

Location:-

Harry's Hofbrau, 390 Saratoga Avenue, San Jose, CA 95129

Time:

Lunch at 11:30am , Program commences at 12:30pm

Program:

“RTTY CONTESTING – BUILDING YOUR STRATEGY AND OPTIMIZING YOUR SCORE” by Ed Muns W0YK. The RTTY Roundup in January 2016 is a focus contest for NCCC, but note that these same strategies are relevant to all modes of contesting! Think about any questions you have for Ed W0YK regarding RTTY, and if you need help getting your station on the air then Steve W1SRD will be ready to hook you up.

“THE 2015 CALIFORNIA QSO PARTY – SPECIAL AWARDS FOR THE 50TH RUNNING OF CQP” by Kevin Rowett K6TD. NCCC is proud to sponsor another year of CQP, the largest QSO party on the planet! Kevin will explain the special Gold Rush theme for this year's event, including special event call signs and awards. Check the www.CQP.org website for a picture of the styling Commemorative Coins as well as the County Operating Plan. Are you ready to help make this the greatest CQP on record? CQP is the first weekend of October (in 43 days!).

“THE NCCC BBQ ON SEPTEMBER 19TH”. Bob W1RH will share details on this special event! It will include delicious catered food, exciting prizes, and the all-important camaraderie of fellow NCCers and guests.



Pirate QSO Party

Take what ye can, and give nothing back!



QST, Avast, and Yarr, me Hearties! The long-awaited email announcing the 2015 Pirate QSO Party has arrived!

Date & Time:

September 22nd, 2015, 5:30pm to 8:30pm PST (UTC:
September 23rd, 2015, 0:30 to 3:30)

Frequencies:

15, 20, and 40 meters SSB

For those who missed all the commotion last year, the Pirate QSO Party is a short, light-hearted contest which is always on or near Talk Like A Pirate Day (Sep. 19). The rules are rather complicated, and include unique features of tradable "doubloons"; the fact that that operators are split up into two "factions"; a walk-the-plank QSY rule similar to sprint contests; and the encouragement of silliness and pirate talk. The top pirate in each category will be sent a certificate and a token of pirate booty.

For more information and rules, please follow this URL:

<http://pirateqsoparty.weebly.com/rules.html>

Here is the download link to the pirate logging program from 2014 (may not have yet been updated):

<https://github.com/julian94/PirateLogger/raw/master/dist/PirateLogger.jar>

Mark your calendars, and remember to keep yer good eye out for any updates!

73 de San, W6RRR (Pirate Captain and Contest Co-ordinator)

SEPTEMBER 2015 CW SPRINT SPONSORED BY THE NATIONAL CONTEST JOURNAL

The September 2015 running of this contest, ever-popular with CW aficionados, takes place on 0000Z to 0004Z September 13, 2015. That's 5 PM to 9 PM local time on Saturday, September 12. Complete rules can be found at the NCJ Website: <http://ncjweb.com/Sprint-Rules.pdf>.

Activity is limited to 20, 40, and 80 meters, and is concentrated between around 25 KHz to 55 KHz up from the low edge of each band. Note that the rules include a special QSY rule, the purpose of which is to prevent anyone from camping out on a single frequency. That of course tends to equalize the competition between the big guns and the little pistols. Your VFO-twirling hand will get a lot of exercise in this one.

While it's true that a lot of speed merchants (and Steve Merchants) participate in this contest, don't worry if you tend to cruise along at 20 WPM — go up to 55 KHz or so above the band edge, and you'll find plenty of company. (Just be sure to mind the QSY rule! And mind the Gap; I mean your Gap antenna, of course.) The really good ops will be happy to match your speed if it means getting another Q in their log.

The NCCC usually fields three or so 10-person teams in the NCJ CW Sprint. What sets us apart from our competition (other than that we're better looking and dress better) is that all of our teams consist solely of NCCC members residing within the standard club radius. So when NCCC #1 wins the team competition, which has happened often, we can take pride in the fact that we are geographically pure, unlike some of our competitor teams.

I'm taking the signups for this Fall's NCJ CW Sprint, in lieu of the usual Bob W6RGG. Send me an e-mail to eddrad@aol.com if you haven't already done so, letting me know your plans for this exciting and fast paced contest.

73, Ed Radlo AJ6V

NCCC Point Generator Profile

By W1RH

It's time to re-introduce Steve, N6SJ, to the KB world of NCCC. Steve, a former member has recently re-joined our team. By the looks of Steve's artillery, this is one welcome addition!

Name/Call Sign: N6SJ

Past calls: WV6SVY (1961), WA6SVY, WA7SVE, WA6CFJ, K6XB

Location: 2100 Bear Gulch Rd, Woodside, CA 94062

How much property do you have? 30 acres (forest terrain in Santa Cruz Mountains)

Describe your antenna system:

Current: SteppIR DB42 on a US Tower HDX-589 crank-up tower. It is mounted on a NN4ZZ Tilt-Plate at 90'. Rotor is a M2 Orion 2800 controlled by a Green Heron RT-21. 80M dipole at 90' between two Douglas firs, fed with open-wire line and a tuner. 144/440 MHz dual band vertical on the roof.

Future: Top-loaded "T" vertical for 160M strung between tall trees; some kind of low band RX array. Beverages may require too much maintenance from falling limbs!

What's in your shack? Elecraft K3-P3-KPA500-KAT500. Kenwood TM-241 for 2M/440. Dell PC running Windows 7, no logging s/w yet. Boat anchors: Hallicrafters SX28A, Collins 75A-4.

What are your previous QTH's? Woodside and San Carlos CA (1973-80); Salt Lake City, Utah (1971-73); Sacramento, CA (1961-1970).

If you're working, what is your career? If not, what was your career?

Microwave radio communications ~ 40 years. I started with Farinon Electric in San Carlos, then Harris Corporation after they took over Farinon. I worked in manufacturing, marketing, and field services. Then project manager for the City of San Jose and County of Santa Clara for a 40 link public safety microwave backbone.

Married? Yes, 44 years to Valerie. **Kids?** Yes, one son, Christopher. **Grandkids?** No

How many DXCC entities have you worked? 337. Need FT/G, 3Y (Bouvet), SV2/a

What's your favorite contest? ARRL CW Sweepstakes

Any tips for contesters? No, I still need to learn the latest techniques!

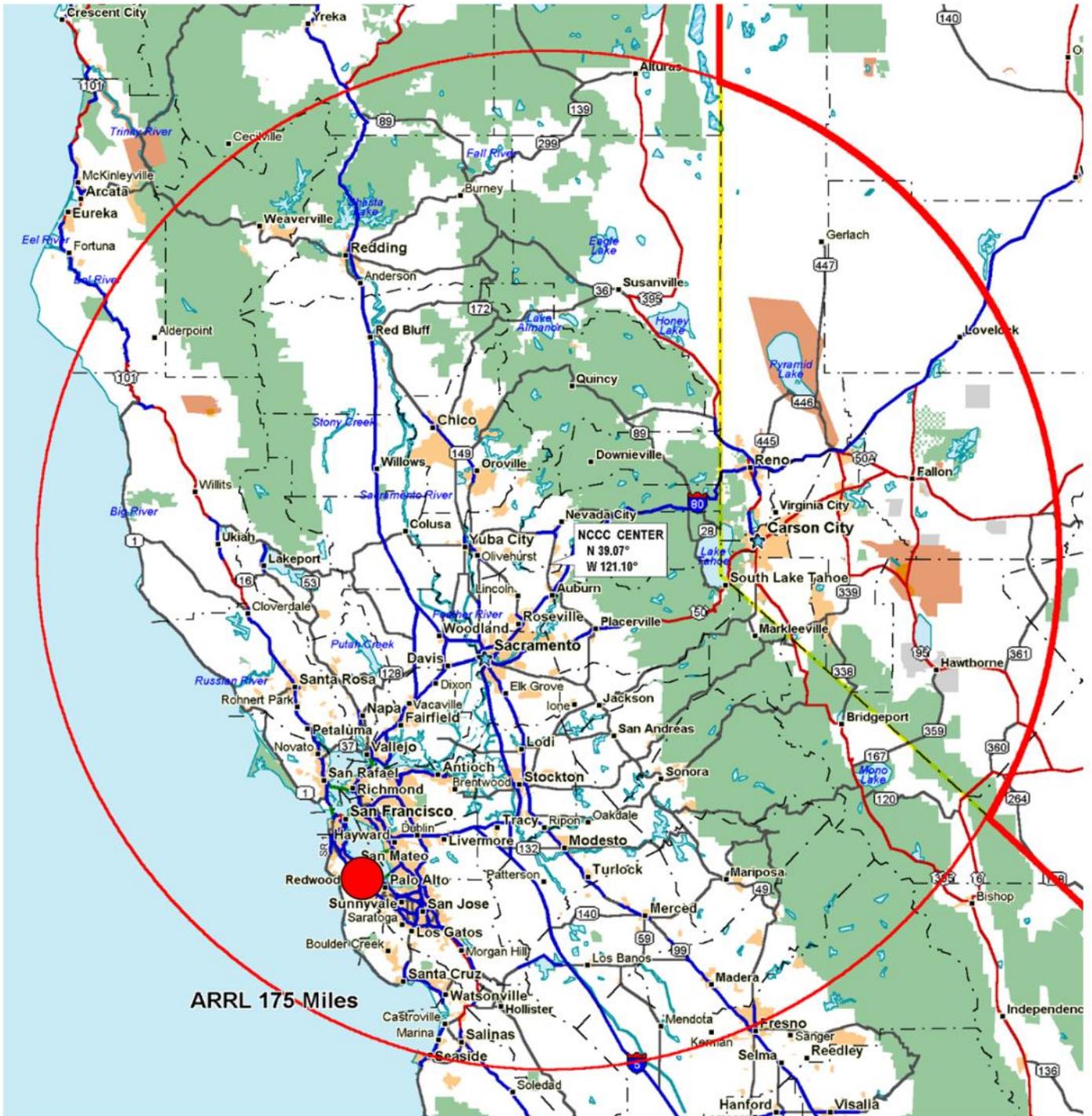
What would you like to see changed in NCCC? n/a

Any other hobbies besides ham radio? Music- Guitar, mainly jazz standards, bossa nova and blues. Winemaking- Planted 40 vines of Chardonnay in 1981, make ~ 5 cases in a good year.





N6SJ—WOODSIDE, CALIFORNIA



Thursday Night RTTY Sprinting

A Bit of History

By Ken K6MR

In the July 2004 edition of the Jug, Bill, N6ZFO made the announcement: "It's officially launched -- the NCCC Sprint, "NS"." In the ensuing 11 years the CW NS on Thursday nights has developed an intense following. A look at the 3830 listings on a typical night shows 20-25 entries on a "practice" night, while during the Ladder competition the number of entries swells to well over 40. One look at the panadapter during a Ladder session will convince you that the CW NS has been, and continues to be, a great success.

In March of 2012, N6ZFO posted a thought-provoking message to the NCCC-Blue reflector. The title was "A modest proposal for NS". To summarize the message, Bill had made an interesting observation: during the North American Sprint (NAS) RTTY the previous weekend he noticed that "a surprising number of current and recent NSrs took part in the NAS RTTY". Bill solicited comments: how about a RTTY version of NS?

Over the next few days a constant stream of comments ensued, almost all positive, with some suggestions for changes or improvements. Based on the positive comments received, Tom, N3ZZ announced the first trial RTTY NS for March 23, 2012. The first NS RTTY 3830 listing showed 18 stations participating.

The first official RTTY Ladder held in Sept/Oct 2013 had roughly 15-18 stations every week, from all over the country. For a new and untried weeknight contest session it seemed to be a success. Participation was building, albeit slowly.

When I became active again in 2014, I found the NS sessions invaluable. You can never have enough cw practice, and RTTY had always intrigued me. Becoming active in the weekly sessions kept my interest up and gave me a chance to test the station and practice my operating skills before the "official" weekend events. When N6ZFO asked for a volunteer to oversee the RTTY Ladder and practice sessions, I jumped in.

NCCC currently sponsors two NS sessions each week. Both are held on Thursday evenings (local time), RTTY first, then a 15 minute break, and then the CW session. The times are assigned using UTC, so there is a one hour difference in the local start time depending on PST or PDT. The NCCC web page has all the details, which I won't duplicate here. Check out: <http://www.ncccsprint.com/>

What is NS RTTY, and what do I need to learn to participate?

Since it's been over 10 years since the NS was inaugurated there are likely many new NCCC members that may not be familiar with the NS (or Sprints in general), or perhaps they've heard things about NS that are, let us say, less than flattering. The three I typically have seen in reflector posts are: (1) "Everyone sends at 45 wpm", (2) "The format is really confusing", or (3) "It's too much work". I'm sure those of you that are experienced Sprinters have heard similar comments.

So what's so different about NS? Is it really complicated? Hard work? Let's see what it takes to make a NS (or Sprint) QSO. There really is no difference between CW and RTTY as far as format goes, but with RTTY you can let the computer do the copying and concentrate on making Qs.

The NS qso format follows the North American Sprint format exactly: the call of the station you are working, your call, a serial number, your name, and your qth (state, province, etc.). The rules do not specify any particular order for the data to be sent, but as we will see in a moment we can use this fact to make the process efficient. A typical qso might go like this:

```
NS N6RO N6RO NS
N3QE
N3QE N6RO 3 KEN CA
N6RO 2 TIM MD N3QE
TU
```

Hmm, doesn't seem too difficult. Certainly no worse than Sweepstakes. But Wait! Why did N3QE send his call at the end of the sequence, while N6RO sent his at the beginning?

If this was an ordinary contest exchange, typically N6RO would call CQ again and keep his run going. But being a Sprint, there is the "QSY Rule". A simplified version would go like this: you may only work one station in response to your CQ, and then you must move and the answering station inherits the frequency for his use. So if I'm tuning around and come across this QSO, which station do I call when they are done? If you heard the entire Q it would likely be obvious: N6RO called CQ, so he has to move and I'd call N3QE. But what if I only heard N3QE's exchange? How would I know who stays and who leaves?

Whether Rusty, W6OAT, thought about this when he and his cohorts invented this contest format I don't know. The Sprint community, however, has settled on a QSO format that makes it easy: N3QE signs his call at the end of the exchange to signal to listening stations that he is about to inherit the frequency. After Ken sends a quick TU to indicate he received Tim's exchange ok, other stations are now free to call N3QE. There is no confusion: Ken moves off and Tim works the station that calls. If no one calls, Tim is free to call CQ and solicit a station. The beauty of the format is that there is never a question about who is now on the frequency.

When programming your macros, you only need two exchange formats: one when you are the CQing station (the "Run" mode), one when you call someone (the "S&P" mode). How is this different from a "regular" contest. It isn't, really. You need a macro for a "Run" qso, and one for a "S&P" qso. Logging programs may differ in how they select which macro, but operationally it is the same format you use for a non-Sprint contest.

Taking a frequency away from a "Big Gun"

So now you've made your first QSO: N6RO sure is loud, isn't he? But wait, you think. This is now my frequency! I just took (ok, "inherited") a perfectly good frequency away from a "Big Gun"! What's that? Someone's calling. Got him. Great. Two quick QSOs.

Congratulations, you have now completed your first "Couplet". Fancy word. Nothing more than the combination of working someone who is either calling CQ or has just finished a QSO, and then working someone who calls you. One in S&P mode, one in Run mode if you want to compare it to a more typical contest.

I view the QSY rule as one of the most equalizing rules in contesting. What do you typically hear on any ordinary contest weekend? Each of the big guns sitting on a frequency and running stations. What about us little guys? Mostly running around calling the big guys. In the Sprint format everyone is moving around calling each other. Yes, the big guns are still louder, but you are just as likely to grab a good frequency as they are. Disadvantages? Perhaps one: the cluster and band maps are useless. No one is on any one frequency for more than 30 seconds or so. So point, click, work is out the window. As K0HB often says in his posting signature, "Just a boy and his radio".

So now that I've convinced you that the format is no more difficult than "normal" contests, is it more work to be constantly searching for new stations to work? I'll bet that the majority of NCCC stations who are not the "super stations" spend a great deal of their time in S&P mode. Work one. Find another. Repeat. In this case you find one, work two (hopefully), and then move on.

What can Thursday night RTTY Sprinting do for you (and NCCC)?

One of the goals proposed by VP/Contest Chairman W1SRD for NCCC in the upcoming 2015/2016 contest season is a big win in the January RTTY Roundup. I can hear the shouts now: "That's not a Sprint". No, it's not. But the skills are the same. All it takes to improve your score is practice on a consistent basis. That's where NS can be invaluable.

NS is a quick 30 minutes on a regular basis that will improve your skills and ensure that your station is working properly. Want to try a new logging program? Operating a full blown contest with a new logger can be an exercise in frustration. Spend a couple of hours over a month using the new software and get comfortable with it. New radio? Other software? We have a ready made platform here that can build the NCCC operator skill level and station effectiveness. Can't quite get the macros right? We've got experts in NCCC that can get you going. But the important thing is to work out the little bugs BEFORE the big contest. And not just the night before. You have a chance to really know your station so you can concentrate on the contest instead of fiddling with software or hardware.

Current NS RTTY activity and you

We currently have a small, consistent group of stations who are usually on every week, and we do get occasional new stations joining in from all over the country. RTTY seems to still be popular based on the participation in RTTY contests, so there are plenty of capable stations out there. The

question I keep asking is: What can we do to get the kind of participation on RTTY that we have in the CW sessions?

Here's where you come in. I hope I've convinced you that the NS/Sprint format is not really much different from a "regular" contest. Everything that you do in a Sprint is really the same thing you do in every other contest. There's nothing difficult, nothing "special". Practicing a little bit every week will improve your scores overall as well as your "fun" factor, no matter which contest you are operating.

So when you've got a few minutes on Thursday evening, take a listen. You'll find the group 80 kHz up from the band edges. Spend a few minutes listening (watching) a couple of Qs. Need help setting up macros? We've got ya covered. Got it all set up? Jump right in. Call CQ. Never tried RTTY? You've likely got a logging computer, and it usually doesn't take very much to get it set up. Get everything working (and know what buttons to push!) beforehand and I think you'll find your weekend fun element increases substantially.

Got some ideas of your own? Let's hear 'em. Internal NCCC competitions? How about mini-teams? Challenge your across town neighbor? What about teams based on the local clubs (MLDXCC, REDXA, PL259, etc.)? Let's see how we can take NS RTTY to a new level of activity.

Need more information about NS in general, or got a question not covered on the NCCC web pages? Got a great idea? In case you didn't know, there is a mailing list that is specific to NS topics (nccc-blue) that you can sign up for here: <http://www.kkn.net/mailman/listinfo/nccc-blue> . The list is generally low volume so you won't get overwhelmed. You can also bring it up on the regular NCCC reflector if you think it's club specific. I've got the gain cranked up. k6mr@outlook.com

If we are serious about RTTY as a contesting mode within NCCC, we need to get more stations on the air and improve the ones we already have. I think the Thursday night sessions are a perfect vehicle to accomplish both tasks. With a few months of practice the RTTY Roundup can be our first big success for 2016!

Relax with Burgers, Dogs, and Good Friends in the High Sierra!

It's time once again for radioactive relaxation in the High Sierra! This almost-annual event is a great way to breathe some fresh air and see some of our contesting friends. The burgers and dogs are pretty good, too. I usually try to do this in September, but my calendar this year just doesn't allow that, so we'll try early October and hope the weather hasn't turned. If it has, then we can move inside.

Date: Sunday, October 11, 2014

Time: 11:00 AM until folks leave

QTH: 12921 Filly Lane, Truckee, CA (aka Filly Way) ... on the bluff overlooking Boca Reservoir. Beware old GPS databases that may be incorrect. See below for directions.

Tel: 530-587-3164 House or 408-896-0476 Cell

Who: Friends from NCCC, MLDXCC, Truckee-North Tahoe Hams, and their kids, pets and significant others. Feel free to bring other radio friends but please let me know how many.

Food: Ann and I will provide the grill items and a few salads and drinks. If you wish to bring something, please let me know what salad, side or beverage you have in mind so we can avoid too much duplication. **Please don't bring any meat or shellfish items.**

RSVP: Please reply directly to me as soon as possible and let me know how many to expect.

What else: The Tahoe Sierra is a great place for a getaway. Come on up for the day or make an extended weekend of it. It may be cool for swimming or water skiing in October and rafting has shut down due to drought, but fishing, hiking, biking, boating, soaring, flying, gambling, and partying should still work. There are plenty of possibilities for your googling pleasure. I often take a few folks on a flightseeing tour around Lake Tahoe in the morning, either Saturday or Sunday, in my single-engine Cessna which has recently been refurbished and is looking really spiffy now. Let me know if you're interested.

Directions: Go east or west on I-80 to the Hirschdale exit, about 8 miles east of downtown Truckee. At the bottom of either ramp, turn right onto Hirschdale Rd. About 1/4 mile past the interchange, keep right onto Glenshire Dr. About a mile later, at the top of the hill, take the first right on Whitehorse, immediately confronting the Damn Gate of The Meadows. Enter #BEAR (#2327) slowly and deliberately on the finicky keypad, including the pound sign. Through the gate, take an immediate right on Stallion. Roughly a mile later, after three nasty speed bumps, take the first right on Filly. Two blocks later, at the cul-de-sac, take the rightmost driveway. There is parking in a pull-out at the top of the driveway, including space off the asphalt. Please leave room for cars to turn around. If the turnout and the space beyond are full, try the lower reaches of the driveway wherever you can do so safely or on the street/cul-de-sac. Beware of rocks and bits of rebar sticking up along the driveway shoulder and try not to run over any (mostly green) utility boxes. Hope you can make it! Ann and I look forward to seeing you in the Sierra.

73,
Rick N6XI and Ann KD6MOB

California QSO Party

50th Running Of The CQP!

1600 UTC October 3, 2015 to 2200 UTC October 4, 2015

Background

To help commemorate the 50th running of the California QSO Party, we are awarding a special **Challenge Coin** to those who qualify.

Work The 1x1 "GOLD RUSH" Callsigns

We have reserved the following 1x1 callsigns for the 50th Running of CQP.

	K6	County	N6	County	W6	County
G	K6G	SBER	N6G	TUOL	W6G	CALA
O	K6O	SLUI	N6O	CCOS	W6O	ALPI
L	K6L	ALAM	N6L	LANG	W6L	ALPI
D	K6D*	LANG	N6D	SDIE	W6D	SCRU
R	K6R	IMPE	N6R	AMAD	W6R	SDIE
U	K6U	SMAT	N6U	SCLA	W6U	COLU
S	K6S	SONO	N6S	SONO	W6S	CALA
H	K6H	LANG	N6H	ELDO	W6H	MONO

*K6D is being used for the 8th Annual Valley Disaster Preparedness Fair in Los Angeles but they are also participating in CQP 50 as a Gold Rush station (on October 3rd only) and will count for the Letter D.

To qualify for a Commemorative Coin you must:

1. Work any combination of 8 Suffixes to spell the words: **GOLD RUSH**

Example: N6**G**, N6**O**, K6**L**, N6**D**, W6**R**, W6**U**, N6**S**, K6**H**

2. Log a total of at least 150 QSOs

3. If you are operating as a California station, then at least 75 of the QSOs logged must be with Non-CA stations.

4. Log must be submitted and listed on the log submission page by the deadline listed in the rules.

5. Your log must have the correct full name, and the address to ship to.

6. M/S and M/M stations - all ops will receive a commemorative coin. Please list all ops in the log. We will ship all coins to the address in the log.

7. Final qualification to be determined by log checking. When log checking is complete, you will receive an email indicating that the log qualifies for the coin.

We look forward to seeing you in the log for CQP #50 this October 3-4, 2015 !

NCCC Barbecue Sept 19th - SAVE THE DATE



We are excited to announce an NCCC Barbecue this September!

WHEN:

Saturday, September 19th, 2015

WHAT:

Delicious catered food, exciting prizes, and the all important camaraderie of fellow NCCCs and guests.

WHERE:

Rich Cutler WC6H has kindly offered to host this event at his property, and you might even have the opportunity to operate from his station! Rich lives in Valley Springs, CA and has plenty of space for us. His address is 4737 Circle Hill Drive, Valley Springs, CA 95252 and on QRZ you'll see an impressive photo of the towers and house.

RSVP:

RSVP's for this event will be helpful for planning! At this point it is still early, but if you're as excited to attend as I am then feel free to go ahead and RSVP to Secretary.NCCC@gmail.com. ;-)

More details to come!

73 & 88,

Joanna K6YL

NCCC Secretary



Contest Calendar— September page 1

Phone Fray	0230Z-0300Z, Sep 2
CWops Mini-CWT Test	1300Z-1400Z, Sep 2 and 1900Z-2000Z, Sep 2 and 0300Z-0400Z, Sep 3
UKEICC 80m Contest	2000Z-2100Z, Sep 2
NRAU 10m Activity Contest	1700Z-1800Z, Sep 3 (CW) and 1800Z-1900Z, Sep 3 (SSB) and 1900Z-2000Z, Sep 3 (FM) and 2000Z-2100Z, Sep 3 (Dig)
QRP Fox Hunt	0100Z-0230Z, Sep 4
NCCC RTTY Sprint Ladder	0145Z-0215Z, Sep 4
NCCC Sprint	0230Z-0300Z, Sep 4
G3ZQS Memorial Straight Key Contest	2300Z, Sep 4 to 2300Z, Sep 6
Russian RTTY WW Contest	0000Z-2359Z, Sep 5
ARRL EME Contest	0000Z, Sep 5 to 2359Z, Sep 6
CWops CW Open	0000Z-0359Z, Sep 5 and 1200Z-1559Z, Sep 5 and 2000Z-2359Z, Sep 5
All Asian DX Contest, Phone	0000Z, Sep 5 to 2400Z, Sep 6
Wake-Up!QRP Sprint	0600Z-0629Z, Sep 5 and 0630Z-0659Z, Sep 5 and 0700Z-0729Z, Sep 5 and 0730Z-0800Z, Sep 5
RSGB SSB Field Day	1300Z, Sep 5 to 1300Z, Sep 6
IARU Region 1 Field Day, SSB	1300Z, Sep 5 to 1259Z, Sep 6
Colorado QSO Party	1300Z, Sep 5 to 0400Z, Sep 6
AGCW Straight Key Party	1600Z-1900Z, Sep 5
PODXS 070 Club Jay Hudak Memorial 80m Sprint	2000Z, Sep 5 to 2000Z, Sep 6
WAB 144 MHz QRO Phone	1000Z-1400Z, Sep 6
DARC 10-Meter Digital Contest	1100Z-1700Z, Sep 6



Contest Calendar— September page 2

Tennessee QSO Party	1800Z, Sep 6 to 0300Z, Sep 7
MI QRP Labor Day CW Sprint	2300Z, Sep 7 to 0300Z, Sep 8
ARS Spartan Sprint	0100Z-0300Z, Sep 8
Phone Fray	0230Z-0300Z, Sep 9
CWops Mini-CWT Test	1300Z-1400Z, Sep 9 and 1900Z-2000Z, Sep 9 and 0300Z-0400Z, Sep 10
RSGB 80m Club Sprint, SSB	1900Z-2000Z, Sep 9
NCCC RTTY Sprint Ladder	0145Z-0215Z, Sep 11
NCCC Sprint	0230Z-0300Z, Sep 11
Kulikovo Polye Contest	0000Z-2359Z, Sep 12
FOC QSO Party	0000Z-2359Z, Sep 12
WAE DX Contest, SSB	0000Z, Sep 12 to 2359Z, Sep 13
SKCC Weekend Sprintathon	1200Z, Sep 12 to 2400Z, Sep 13
Arkansas QSO Party	1400Z, Sep 12 to 0200Z, Sep 13
Ohio State Parks on the Air	1600Z-2400Z, Sep 12
ARRL September VHF Contest	1800Z, Sep 12 to 0300Z, Sep 14
North American Sprint, CW	0000Z-0400Z, Sep 13
Swiss HTC QRP Sprint	1300Z-1900Z, Sep 13
Phone Fray	0230Z-0300Z, Sep 16
CWops Mini-CWT Test	1300Z-1400Z, Sep 16 and 1900Z-2000Z, Sep 16 and 0300Z-0400Z, Sep 17
NAQCC CW Sprint	0030Z-0230Z, Sep 17
NCCC RTTY Sprint Ladder	0145Z-0215Z, Sep 18
NCCC Sprint	0230Z-0300Z, Sep 18
AGB NEMIGA Contest	2100Z-2400Z, Sep 18
ARRL 10 GHz and Up Contest	0600 local, Sep 19 to 2400 local, Sep 20
SARL VHF/UHF Analogue/Digital Contest	1000Z, Sep 19 to 1000Z, Sep 20



Contest Calendar— September Page 3

Scandinavian Activity Contest, CW	1200Z, Sep 19 to 1200Z, Sep 20
SRT HF Contest SSB	1300Z, Sep 19 to 1300Z, Sep 20
South Carolina QSO Party	1400Z, Sep 19 to 0300Z, Sep 20
QRP Afield	1600Z-2200Z, Sep 19
New Jersey QSO Party	1600Z, Sep 19 to 0359Z, Sep 20 and 1400Z-2000Z, Sep 20
Washington State Salmon Run	1600Z, Sep 19 to 0700Z, Sep 20 and 1600Z-2400Z, Sep 20
Feld Hell Sprint	1800Z-1959Z, Sep 19
North American Sprint, RTTY	0000Z-0400Z, Sep 20
Classic Exchange, CW	1300Z, Sep 20 to 0800Z, Sep 21 and 1300Z, Sep 22 to 0800Z, Sep 23
BARTG Sprint 75	1700Z-2100Z, Sep 20
Run for the Bacon QRP Contest	0100Z-0300Z, Sep 21
+ 144 MHz Fall Sprint	1900 local - 2300 local, Sep 21
SKCC Sprint	0000Z-0200Z, Sep 23
Pirate QSO Party	0030Z-0330Z, Sep 23
Phone Fray	0230Z-0300Z, Sep 23
CWops Mini-CWT Test	1300Z-1400Z, Sep 23 and 1900Z-2000Z, Sep 23 and 0300Z-0400Z, Sep 24
+ RSGB 80m Club Sprint, CW	1900Z-2000Z, Sep 24
NCCC RTTY Sprint Ladder	0145Z-0215Z, Sep 25
NCCC Sprint	0230Z-0300Z, Sep 25
CQ Worldwide DX Contest, RTTY	0000Z, Sep 26 to 2400Z, Sep 27
Maine QSO Party	1200Z, Sep 26 to 1200Z, Sep 27
Texas QSO Party	1400Z, Sep 26 to 0200Z, Sep 27 and 1400Z-2000Z, Sep 27
AGCW VHF/UHF Contest	1400Z-1700Z, Sep 26 (144) and 1700Z-1800Z, Sep 26 (432)
+ UBA ON Contest, 6m	0700Z-1000Z, Sep 27
Classic Exchange, Phone	1300Z, Sep 27 to 0800Z, Sep 28 and 1300Z, Sep 29 to 0800Z, Sep 30
Peanut Power QRP Sprint	2000Z-2200Z, Sep 27
+ 222 MHz Fall Sprint	1900 local - 2300 local, Sep 29
Phone Fray	0230Z-0300Z, Sep 30
CWops Mini-CWT Test	1300Z-1400Z, Sep 30 and 1900Z-2000Z, Sep 30 and 0300Z-0400Z, Oct 1
+ UKEICC 80m Contest	2000Z-2100Z, Sep 30

HAM RADIO OUTLET

14 STORE BUYING POWER!

ICOM



IC-7600 | All Mode Transceiver

- 100W HF/6m Transceiver, gen cov. receiver • Dual DSP 32 bit • Three roofing filters- 3, 6, 15kHz • 5.8 in WQVGA TFT display • Hi-res real time spectrum scope



IC-7200 | HF Transceiver

- 160-10M • 100W • Simple & tough with IF DSP • AGC Loop Management • Digital IF Filter • Digital Twin PBT • Digital Noise Reduction • Digital Noise Blanker • USB Port for PC Control



IC-7100 | All Mode Transceiver

- HF/50/144/430/440 MHz Multi-band, Multi-mode, IF DSP • D-STAR DV Mode (Digital Voice + Data) • Intuitive Touch Screen Interface • Built-in RTTY Functions



ID-5100A | VHF/UHF Dual Band Digital Transceiver

- Analog FM/D-Star DV Mode • SD Card Slot for Voice & Data Storage • 50W Output on VHF/UHF Bands • Integrated GPS Receiver • AM Airband Dualwatch • FM Analog/DV Repeater List Function

ID-51A | VHF/UHF Dual Band Transceiver

- 5/2.5/1.0/0.5/0.1W Output • RX: 0.52-1.71, 88-174, 380-479 MHz** • AM/FM/FM-N/WFM/DV • 1304 Alphanumeric Memory Chls • Integrated GPS • D-STAR Repeater Directory • IPX7 Submersible



TH-F6A | 2M/220/440

- Dual channel receive • .1 - 1300 MHz (cell blocked) RX • FM, AM, SSB • 5W 2M/220/440 TX, FM • 435 Memories • Li-Ion Battery

KENWOOD



TS-590SG | HF/50MHz Transceiver

- Equipped with 500 Hz/2.7 kHz roofing filter as standard • ALC derived from TS-990S eliminating spike issues • Antenna output function (shared with DRV connector) • CW - morse code decoder function



TM-D710G | 2M/440 Dualband

- V+V/V+U/U+U operation • Built-in GPS • Built-in TNC for APRS & DX-Cluster operation • 50W 2M & UHF • 1,000 memories • Dual receive • Green or amber backlight colors • Latest APRS firmware w/new features • Sky Command II remote functions



TM-V71A | 2M/440 Dualband

- High RF output (50W) • Multiple Scan • Dual receive on same band (VxV, UxU) • Echolink® memory (auto dialer) • Echolink® Sysop mode for node terminal ops • Invertible front panel • Choice of green/amber for LCD panel • 104 code digital code squelch



TM-281A | 2 Mtr Mobile

- 65 Watt • 200 Memories • CTCSS/DCS • Mil-Std specs • Hi-quality audio



FT-60R | 2M/440 5W HT

- Wide receiver coverage • AM air band receive • 1000 memory channels w/alpha labels • Huge LCD display • Rugged die-cast, water resistant case • NOAA severe weather alert with alert scan

YAESU
The radio



FT-991 | HF/50MHz/2M/440 Transceiver

- 160 M-440MHz - SSB/CW/FM/C4FM Digital/AM/RTTY/PSK • 100 W (2M/440: 50 Watts) • 3.5" TFT full-color touch panel operation • High speed spectrum scope • Roofing filters: 3kHz & 15kHz • 32-bit high speed floating point IF DSP



FTDX1200 | 100W HF + 6M Transceiver

- Triple Conversion Receiver With 32-bit Floating Point DSP • 40 MHz 1st IF with selectable 3 kHz, 6kHz & 15 kHz Roofing Filters • Optional FFT-1 Supports AF-FFT Scope, RTTY/PSK31 Encode/Decode, CW Decode/Auto Zero-In • Full Color 4.3" TFT Display



FT-450D | A100W HF + 6M Transceiver

- 100W HF/6M • Auto tuner built-in • DSP built-in • 500 memories • DNR, IF Notch, IF Shift



FTM-400DR | 2M/440 Mobile

- Color display-green, blue, orange, purple, gray • GPS/APRS • Packet 1200/9600 bd ready • Spectrum scope • Bluetooth • MicroSD slot • 500 memory per band



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