



**Publication of the
Northern California
Contest Club**

Issue 562
March 2019



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Awards Meeting & Annual Elections

Tied House, Mountain View.

April 9th, Tuesday

6:00 pm Social Hour, 7 pm Dinner,
7:30 pm Program (approx.)

Watch the Reflector for more
information !

Or Visit <http://nccc.cc/meetings.html>

Presidents Report:

It is March, and almost a year has passed since the current administration took office. Let's take a look at how things have gone. We started out the year with an outstanding meeting in Livermore where W2SC enthralled us with his setup in Barbados. Tom shared some very interesting ideas that we are still working through. June had K6EI telling us how to put on a winning Field Day. July brought us all together in Stockton with the great guys and gals from MLDXCC. It also saw many NCCC members gather in Germany for WRTC, with three teams of NCCers competing and several more as referees. In August we relived their experience, learning what it is like to compete at the top level. September had us gather in Murphy's for a relaxing time and some great wine courtesy of WK6I. That put us in the mood for the contest season which was just getting under way. A week later saw most of us jump into the CQP fray with glee (perhaps the Twisted Oak spirits helped?). The October meeting brought out the stories of several teams county expeditions fresh from their experience.

November brought an outstanding presentation from W0YK about the new FT8 mode and how to use it in a contest. Ed's talk got a lot of us fired up for this mode to see if it really was worth pursuing. As we found out in January, apparently it is. December brought us together again to celebrate the holidays, a long tradition in the club. In January NA6O presented the new KB contest criteria and rules. It was a dark and stormy night when we gathered with our REDXA friends in Petaluma for a talk on the working of FT8 by W6FB.

Continued on page 3



Northern California Contest Club

Excellence In Amateur Radio Contesting

Officers:

President	Jack Brindle	W6FB	jackbrindle@me.com
Vice President /Contest Chair	Chris Tate	N6WM	ctate@ewnetinc.com
Treasurer	Tom Carney	K6EU	treasurer.nccc@gmail.com
Secretary	Ian Parker	W6TCP	secretary.nccc@gmail.com
Past President	Bob Hess	W1RH	w1rh@yahoo.com
Director	Rick Tavan	N6XI	rick@tavan.com
Director:	Bill Haddon	N6ZFO	n6zfo@arrl.net
Director:	Bill Fehring	W9KKN	bill+nccc@w9kkn.net

Volunteers:

New Member Mentor	Al Rendon	WT6K	wt6k@arrl.net
Charter Member	Rusty Epps	W6OAT	w6oat@sbcglobal.net
Awards Chair	Gary Johnson	NA6O	gwj@wb9jps.com
CQP Chair	John Miller	K6MM	k6mm@arrl.net
K6ZM QSL Manager	George Daughters	K6GT	k6gt@arrl.net
K6CQP,N6CQP,W6CQP QSL Mgr	Ed Muns	W0YK	w0yk@arrl.net
NCCC Email reflector Admin	Phil Verinsky	W6PK	kb-w6tqg@verinsky.com
Webmaster	John Miller	K6MM	k6mm@arrl.net
Webinars	Bill Fehring	W9KKN	bill+nccc@w9kkn.net
JUG Editor	Ian Parker	W6TCP	w6tcpian@gmail.com

Thursday Night Sprint:

The Northern California Contest Club sponsors Thursday evening (NA local time) contest practice sessions of 30 minute duration.

On the Thursday (and, sometimes Friday also) prior to a major contest weekend, the practice format follows the upcoming contest.

Generally, on other Thursday evenings, a special format is followed, called NS or "NCCC Sprint". The NS began in the summer of 2004 as a snappy, concise contest occurring most Thursday nights, North American time. The power limit is 100 watts.

Thursday Night Contesting Director and Founder
 NCCC CW Sprint
 NCCC RTTY Sprint
 NCCC Sprint Ladder
 Sprint Web master www.ncccsprint.com

Bill, N6ZFO
 Tom, N3ZZ (initially, Ken N6RO)
 Ken, K6MR
 Bill, N6ZFO
 John, K6MM.

non-NCCC:
 Thursday night Contesting Advisory Group:

Tim N3QE (Ladder Scores manager)
 N6ZFO, Bill (Chair)
 Mark K6UFO, (with W4NZ, N4AF, W9RE, K4BAI, N3BB and W0BH).
 Ken, N6RO

The Thursday night NCCC Net

Oh, and we did some contesting as well. CQWW was a lot of fun, especially for the Caribbean guys who racked up lots of points. CQP is always fun, and November Sweepstakes fires me up every year. We had fun in the first running of the FT8 Roundup, sponsored by W0YK and AA5AU, and tried for QSOs in the 10 meter contest. When January hit it was non-stop contesting, starting with the RTTY Roundup, then a series of NAQP and NA Sprint contests that kept us busy in January and February, with ARRL DX mixed in along the way. As I write this, many of us are quite busy with the CQ WPX contest, one of several club focus contests.

So how is the club doing? Not only are we busy, but we are growing. This past year saw several members move out of the club circle, and there were just a few SKs whom we all miss. At the same time each month saw several new members join, growing the club by 19 members over the year. We have a good group of newcomers, each active in contests, which bodes very well for our future.

So what is the state of the club at this point? Excellent. We are enjoying contests in just about every way, from participation, discussion, improving ourselves and our stations, and especially winning. This year NCCC will celebrate its 49th anniversary. We should be able to celebrate many more in the winning tradition we have all come to know. NCCC is a great club because of its members. Let's continue to work together in our winning ways to show the world how great NCCC is!

73!
Jack, W6FB



Annual Awards Meeting & Officer Elections Tuesday 9th April

Where:
954 Villa Street, Mountain View, CA 94041

When:
Tuesday 9th April at 6pm

Food or no Food, Please RSVP [here](#)

Or visit <http://nccc.cc/meetings.html>

Contact Ian W6TCP if you have questions!



Tower Repairs @ KH6TU

Alan AD6E / KH6TU

I have a US Tower MA-770MDB (70 ft crank-up). Over the past four years that I've had this tower I've had to lower the tower several times for various antenna maintenance work and upgrades. That isn't unusual and the tower with the raising fixture is supposed to facilitate that use.

However, the design is flawed.

When not locked into the rotating base, the tower has only two points of contact. One is the raising winch cable and the other is the base thrust bearing assembly. If, while lowering (or raising) the tower near vertical, even a small gust of wind can blow the tower sideways causing it to rotate away from the normal fall line. Once it gets moving, momentum keeps it going until it goes 90 degrees and hits the raising fixture. The winch is then jammed and cannot raise or lower. In addition, the base part ("spindle cup") is bent. It took considerable effort with ropes and a come-along to bring it back to the normal position.

His idea is to install a pair of Unistrut rails (10ft each) to prevent the tower from swinging off to the side.



Tower Repairs @ KH6TU



Tower Repairs @ KH6TU



Thanks to Kimo, NH7U who flew in from Honolulu to help with this repair and who thought up this solution.

IT WORKS! Alan AD6E / KH6TU

Antenna Work at N6RO - Bill AI6JZ

Chris N6WM and Iain N6ML were swapping out a 20m rotor and Gary NA6O and Bill AI6JZ were the ground crew. While this was going on four of what looked to me to be WW2 warbirds were flying in formation overhead.



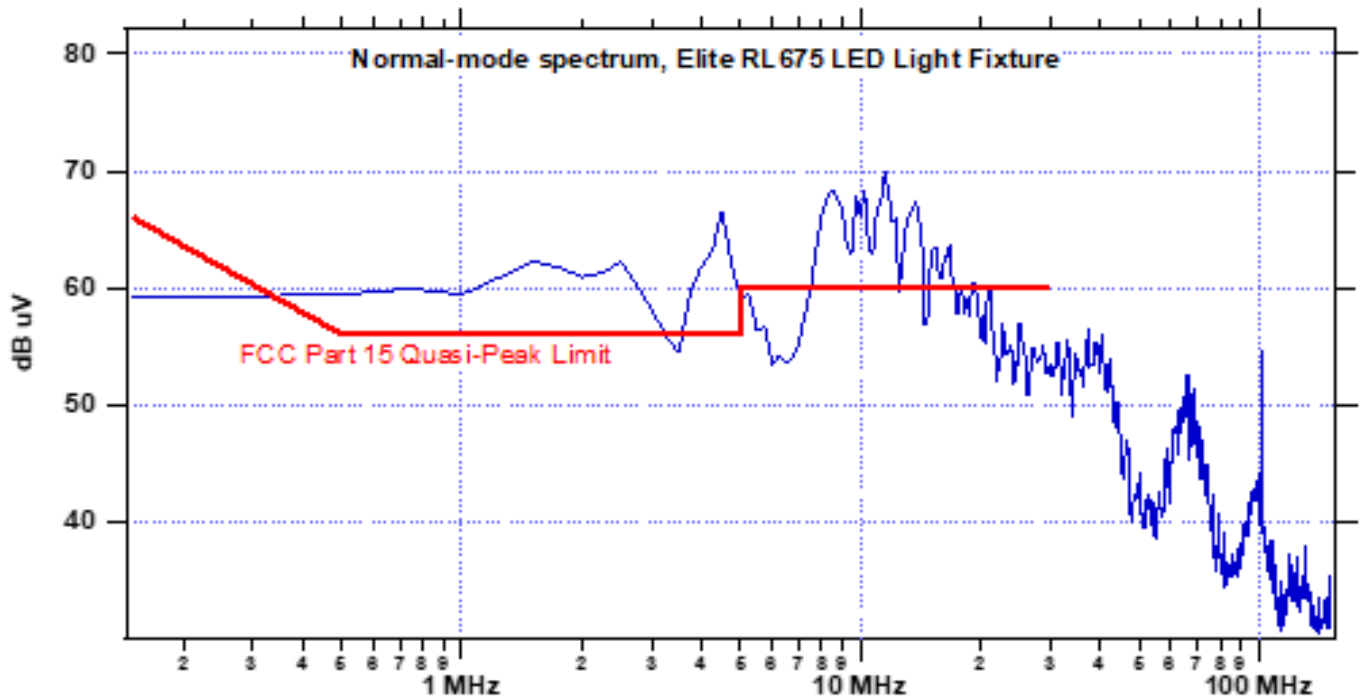
New Reports on LED Light RFI

Gary NA6O

After a year-long trip to hell and back dealing with my neighbor's LED light fixtures, I have decided to start characterizing various electrical devices, such as LED lights, and showing you which makes and models are the good and bad actors. My new web page has detailed reports on several lights, and clear recommendations. I am not aware of anyone else, anywhere, publishing real data and such recommendations.

There would be more models in the list but there are too many to choose from and of course the cost of buying all those bulbs adds up... Especially for fixtures, which can cost \$30 or more, which is too bad because I think the fixtures are likely to be the worst offenders. I would be happy to test any devices that you could loan me (not just lights). Sometime in the next few months I'll give a talk at an NCCC meeting about this whole business, especially when things go off the rails and you have to start working with the FCC.

http://wb9jps.com/Gary_Johnson/RFI.html



Point Generator Profile – N6PN
(Interviewed by Bob, W1RH)

My good friend, Jay – KE6GLA, is this month's featured point generator.

Jay is another one of the many NCCC members who are also members of the El Dorado County Amateur Radio Club along with the Mother Lode DX/Contest Club. A quick look at 3830 shows Jay active in many contests, operating all three contest modes, with RTTY being the biggest use of the KE6GLA station.

Due to work and family, Jay's contest time is limited, but when he's in the zone, he can contest with the best of them.

Jay's wife, Nancy – KG6PNP, is also a good contester. I've seen her do fabulous rates at Field Day. She was also active at my station as W1AW/6 a couple of years ago.

Now, more from Jay:

Name/Call Sign: Jay Harmor KE6GLA

Past calls: N/A

Location: El Dorado Hills, CA, CM98lq

How much property do you have? Less than ¼ acre

Describe your antenna system:

Current: Wire dipoles for 20m to 80m, 2 element Yagi for 15m and 10m, 3 element Yagi for 6m, small quads for VHF/UHF. No permanent towers all antennas on push-up masts or wires in trees.

Future: Hex beam for HF and LFA for 6m

What's in your shack? .IC-7300, IC-9700 are primary. Also use Apache labs ANAN-100 SDR.

What are your previous QTH's? Rancho Cordova, CA CM98lo

Other Ham Radio Activities? I am the current President of the El Dorado County ARC and I also manage the El Dorado County ARES group.

If you're working, what is your career? I work for Vision Service Plan (VSP) as Data Warehousing and Analytics Systems Manager. I manage all the databases and analytics applications for a vision care company in Rancho Cordova, CA.

Married? Yes, I'm Married to Nancy KG6PNP, she won 2006 ARRL/VHF S/O LP for Sacramento Valley

Kids? Natalie KJ6NLD currently attending University Nevada Reno and studying Mathematics. She was the NCCC 2011 Top Youth Operator.

How many DXCC entities have you worked? So far I'm at 223 DXCC entities confirmed with QSL cards and LOTW.

What's your favorite contest? I really like the VHF contests and the June contest is the best because it has the most activity. I have also begun to really like the RTTY contests. Although not a contest, I like ARRL Field Day because it's fun getting new operators hooked on contesting.

Any tips for contesters? Make a plan. When I have a plan for operating times, band changes, and search and pounce time vs. calling CQ, I tend to have more success. Due to limited time to operate I tend to only have a few hours to dedicate towards contesting on weekends.

What would you like to see changed in NCCC? Maybe some more sprint type contests for operators with less time to devote to contesting or the ability to build more multi-operator teams with geographically separated stations.

Any other hobbies besides ham radio? Nancy, Natalie and I all enjoy snow skiing and camping. I usually take some radio gear when camping and try to make a few contacts. I also play the drums.



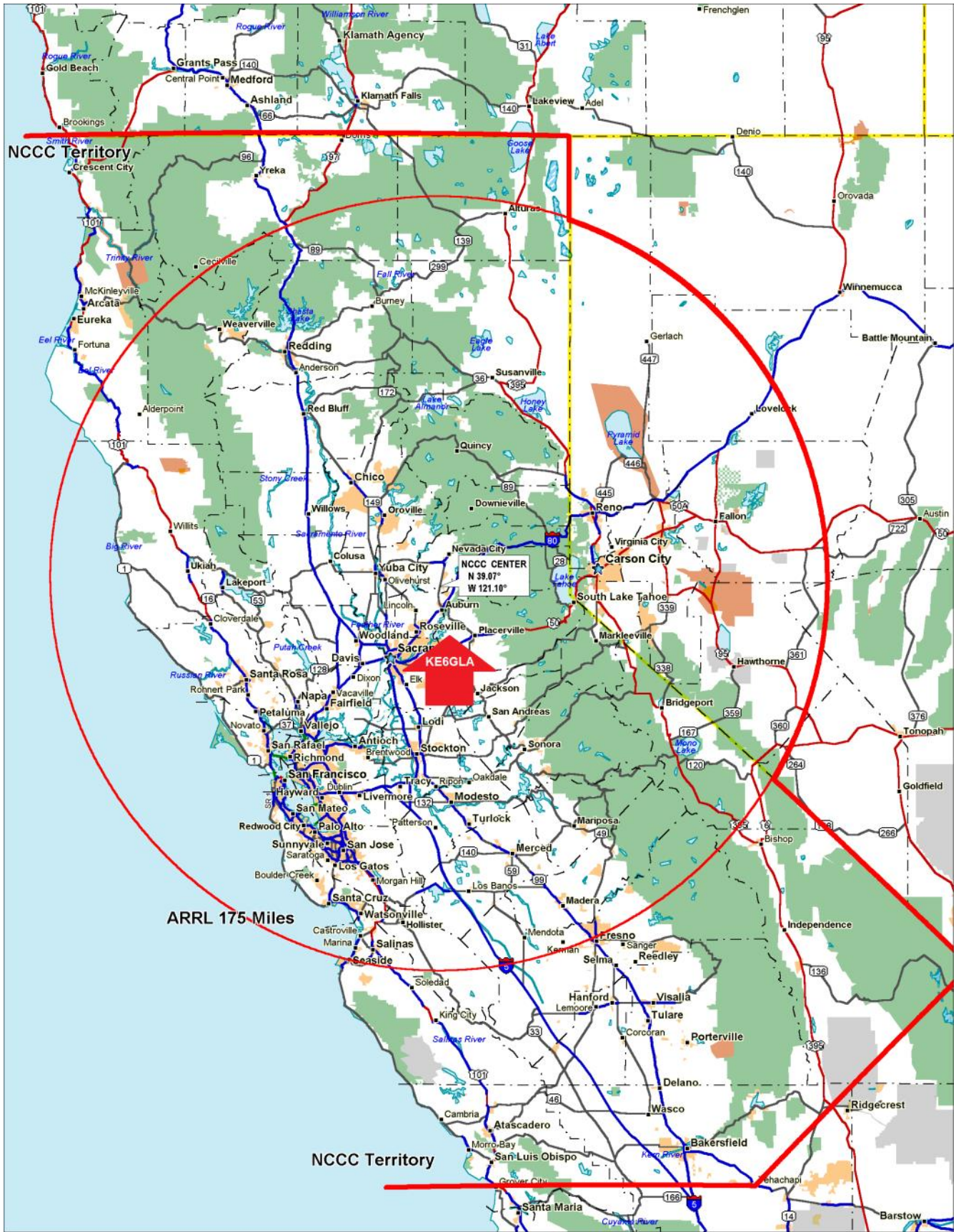


HF Wire Dipoles

VHF+ Antennas

HF and 6m Yagi





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NCCC Annual KB Competition Rules

Revised March 1, 2019



Current rules and standings are always available at <http://nccc.cc/awards.html>.

Purpose: To provide a means of rewarding NCCC members who are DX contesters, sprinters, VHFers, and especially active contesters in all modes.

Time period: The contest year starts at 0000 March 1 UTC. ARRL DX SSB is the first contest of the year. NAQP RTTY is the last.

Eligible contests: Currently, points from 29 contests are counted. See the table on the next page

Scoring:

Score = N_Contests * sum of (points for each contest * each contest's multiplier).

Where N_Contests is the number of contests you participated in, with a maximum value of 20. Points for all contests in which you participate are always counted.

NCCC weekly sprints are special. Points for the entire year are added up, but it is only counted as a single contest.

Multi-ops: Points = total score divided by the number of operators.

Station owners: A station owner who does not participate in a particular contest receives 25% of the points.

Valid scores: Only scores posted to 3830scores.com are counted. Scores obtained by use of High Power in the 6 NAQP competitions and the NS CW/NS CW Ladder series will not be counted for the KB competition, either as scores or as contest multipliers. Scores are counted regardless of which club received the contest points (NCCC, MLDXCC, REDXA, PL259, etc.). The only requirement is that you **MUST** be an NCCC member to receive credit for the contest, and to be eligible for an award.

Brackets: There are four independent brackets for the purpose of awards: 1-Platinum, 2-Gold, 3-Silver, and 4-Bronze. Brackets are assigned at the beginning of the contest year according to your final position in the previous year's standings.

Awards: Paid NCCC members may receive awards.

How to Improve Your Standing

Post all your scores on 3830. Those are the only ones that count.

Participate! Even the smallest score has value. Every contest on the list is a multiplier.

Try a new mode or a new band (VHF, 10, 160).

Try the sprints. Small score, big multiplier.

Go for a big score in WPX: Exponential score growth and a big multiplier.

Join a multi-op: The score is split among ops.

Let someone else use your station: You get 25%.

Comments are welcome, as always. I log and track every comment and suggestion and try to improve the KB Competition each year. The one thing I can guarantee is that each year will be different!

Contact: Gary NA6O, NCCC Awards Manager, gwj@wb9jps.com

NCCC Annual KB Competition Table

Contest	Month	Mult
ARRL DX Contest SSB	March 2	10
CQ WPX SSB	March 30	10
7QP	May 4	20
NEQP	May 4	150
CQ WPX CW	May 25	5
ARRL June VHF	June 8	500
RAC Canada Day	July 1	15
IARU HF World Championships	July 13	10
NAQP Summer RTTY	July 20	25
NAQP Summer CW	August 3	25
NAQP Summer SSB	August 17	25
CQWW RTTY	September 28	5
NA Sprint Fall CW	September 8	150
CQP	October 5	10
Makrothen RTTY Contest	October 12	1
CQWW SSB	October 26	6
ARRL Sweepstakes CW	November 2	15

ARRL Sweepstakes SSB	November 16	15
CQWW CW	November 23	3
ARRL 160 Meter Contest	December 6	30
ARRL 10 Meter Contest	December 13	100
ARRL RTTY Roundup	January 4	50
NAQP Winter CW	January 11	25
NAQP Winter SSB	January 18	25
NA Sprint Winter CW	February 2	150
CQ WPX RTTY	February 8	10
ARRL DX Contest CW	February 14	4
NAQP Winter RTTY	February 22	25
NCCC Sprint CW	Weekly	50

KB Award Brackets

There are four independent brackets for the purpose of issuing awards: 1- Platinum, 2- Gold, 3- Silver, and 4- Bronze. Your bracket is assigned automatically at the beginning of the contest year according to your final position in the previous year's standings. New members or those who have never posted a score default to the Bronze level. On the left, is an alphabetical list of the current assignments to the top three brackets. If your call is not listed, you are in Bronze. If you believe your current bracket is incorrect, please contact NA6O.

Platinum	Gold	Silver
AD6E	K3EST	AE6JV
AE6Y	K6AW	AJ6CY
AF6SA	K6DGW	K0BEE
AJ6V	K6IJ	K0JP
K2RD	K6JS	K6KR
K5RC	K6MR	K6MI
K6DAJ	K6NV	K6OK
K6EU	K6RIM	K6RB
K6GHA	K6TQ	K6ST
K6LRN	K6UFO	K6TD
K6MM	KH2TJ	K6UM
K6SRZ	KH6LC	K6XN
K6XX	N0KQ	K6XV
K7XC	N2NS	K7GK
K9YC	N5KO	K7MKL
KA6BIM	N6EE	KA6W
N3RC	N6IE	KD6WKY
N3ZZ	N6JV	KE6GLA

Platinum	Gold	Silver
N6RO	N6KT	KE8FT
N6TV	N6PN	KF6NCX
N6WM	N6RK	KI6OY
N6ZFO	NC6R	KM6I
N7MH	NJ6G	KU7Y
NA6O	VE3RUA	KX7M
NW6P	W6DR	N6DE
W0YK	W6EU	N6DW
W1RH	W6FB	N6GD
W1SRD	W6IA	N6JS
W2SC	W6JTI	N6NU
W6FA	W6LD	N6XI
W6OAT	W6NV	N6YEU
W6SX	W6RC	NQ6N
W9KKN	W7IV	NR6Q
WC6H	WB6JJJ	OH1VR
WX5S	WU6W	VY1JA
		W6GJB
		W6NL
		W6RGG
		W6SC
		W6SR
		WA6O
		WE6Z
		WK6I
		WU6X
		WX6V

NCCC Life Membership!

The NCCC Life member program was introduced for a flat fee of \$250. If you are interested in becoming an NCCC Life member, please contact Ian W6TCP at w6tcpian@gmail.com

80/20 Rule:

Members who have reached 80 years young and been a NCCC Member for 20 years are eligible for Honorary life membership. Contact Ian W6TCP at w6tcpian@gmail.com

Forthcoming NCCC Meetings

April 9th, Tuesday

Awards Meeting & Annual Elections, Tied House, Mountain View.

May 11th, Saturday

TBD, Cattlemens, Livermore

BoD meeting minutes

The monthly minutes from the NCCC BoD meetings are available in the members only section of the NCCC website. See <http://nccc.cc/members/minutes.html>

JUG Articles Wanted!

Without your help we cannot reproduce a quality newsletter so please consider submitting a suitable article!

We welcome any and all relevant articles for inclusion in the JUG.

Deadline is 7 days before month end. Preferred format is MS Word, Arial 12 point and pictures should be full resolution. Send your material to Ian, W6TCP at w6tcpian@gmail.com Don't worry about the formatting, we can take care of that if necessary !

Tube Of The Month

Norm, N6JV

Visit the Museum: www.n6jv.com

826

In 1943, RCA developed a small 60 watt triode for VHF equipment. I can't remember ever seeing one of these tubes being used in a particular set. After the War, The Gonset Company started building a series of emergency transceivers the hams called the "Gooney Boxes". They were standard equipment for Civil Defense and RACES installations. They built a 6 meter amplifier that used a pair of the 826s which seems to be the only reason anyone still looks for the tube.

Eimac made a few of these tubes. Recently a pair of experimental tubes was found that seemed to be an attempt to use the basic 826 with a heavy plate structure and equip it with a plate cap. The plate was massive for the size and without heavy air cooling would surely melt the glass. It is possible they wanted to use it for pulse service. No markings or data have been found for this tube that seems to have been made in the 1960s. You are free to speculate as to its use as your guess is as good as anyone's.

Tube Of The Month

Norm, N6JV

Visit the Museum: www.n6jv.com



Tube Of The Month

Norm, N6JV

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Contest Calendar— April page 1

IQRP Quarterly Marathon	0800Z, Apr 1 to 2000Z, Apr 7
RSGB 80m Club Championship, CW	1900Z-2030Z, Apr 1
ARS Spartan Sprint	0100Z-0300Z, Apr 2
QRP Fox Hunt	0100Z-0230Z, Apr 3
Phone Fray	0230Z-0300Z, Apr 3
CWops Mini-CWT Test	1300Z-1400Z, Apr 3 and 1900Z-2000Z, Apr 3 and 0300Z-0400Z, Apr 4
UKEICC 80m Contest	2000Z-2100Z, Apr 3
NRAU 10m Activity Contest	1700Z-1800Z, Apr 4 (CW) and 1800Z-1900Z, Apr 4 (SSB) and 1900Z-2000Z, Apr 4 (FM) and 2000Z-2100Z, Apr 4 (Dig)
SARL 80m QSO Party	1700Z-2000Z, Apr 4
SKCC Sprint Europe	1900Z-2100Z, Apr 4
QRP Fox Hunt	0100Z-0230Z, Apr 5
NCCC RTTY Sprint	0145Z-0215Z, Apr 5
NCCC Sprint	0230Z-0300Z, Apr 5
LZ Open 40m Sprint Contest	0400Z-0800Z, Apr 6
SARL VHF/UHF Digital Contest	1000Z, Apr 6 to 1000Z, Apr 7
PODXS 070 Club PSK 31 Flavors Contest	1000Z, Apr 6 to 0400Z, Apr 7
Missouri QSO Party	1400Z, Apr 6 to 0400Z, Apr 7 and 1400Z-2000Z, Apr 7
Florida State Parks on the Air	1400Z-2200Z, Apr 6 and 1400Z-2200Z, Apr 7
Mississippi QSO Party	1400Z, Apr 6 to 0200Z, Apr 7
SP DX Contest	1500Z, Apr 6 to 1500Z, Apr 7
EA RTTY Contest	1600Z, Apr 6 to 1600Z, Apr 7
RSGB RoLo SSB	1900Z-2030Z, Apr 7
144 MHz Spring Sprint	1900 local - 2300 local, Apr 8
NAQCC CW Sprint	0030Z-0230Z, Apr 10
Phone Fray	0230Z-0300Z, Apr 10
CWops Mini-CWT Test	1300Z-1400Z, Apr 10 and 1900Z-2000Z, Apr 10 and 0300Z-0400Z, Apr 11



Contest Calendar— April page 2

RSGB 80m Club Championship, SSB	1900Z-2030Z, Apr 10
NCCC RTTY Sprint	0145Z-0215Z, Apr 12
NCCC Sprint	0230Z-0300Z, Apr 12
QRP ARCI Spring QSO Party	0000Z-2359Z, Apr 13
JIDX CW Contest	0700Z, Apr 13 to 1300Z, Apr 14
F9AA Cup, PSK	1200Z, Apr 14 to 1200Z, Apr 15
FT8 DX Contest	1200Z, Apr 13 to 1200Z, Apr 14
OK/OM DX Contest, SSB	1200Z, Apr 13 to 1200Z, Apr 14
SKCC Weekend Sprintathon	1200Z, Apr 13 to 2400Z, Apr 14
Texas State Parks on the Air	1400Z, Apr 13 to 0200Z, Apr 14 and 1400Z-2000Z, Apr 14
New Mexico QSO Party	1400Z, Apr 13 to 0200Z, Apr 14
North Dakota QSO Party	1800Z, Apr 13 to 1800Z, Apr 14
Georgia QSO Party	1800Z, Apr 13 to 0359Z, Apr 14 and 1400Z-2359Z, Apr 14
Yuri Gagarin International DX Contest	2100Z, Apr 13 to 2100Z, Apr 14
WAB 3.5/7/14 MHz Data Modes	1000Z-1200Z, Apr 14 (FT8) and 1200Z-1400Z, Apr 14 (RTTY) and 1400Z-1600Z, Apr 14 (PSK) and 1600Z-1800Z, Apr 14 (FT8) and 1800Z-2000Z, Apr 14 (RTTY) and 2000Z-2200Z, Apr 14 (PSK)
International Vintage Contest HF	1200Z-1800Z, Apr 14
Hungarian Straight Key Contest	1500Z-1600Z, Apr 14
ARRL Rookie Roundup, SSB	1800Z-2359Z, Apr 14
4 States QRP Group Second Sunday Sprint	0000Z-0200Z, Apr 15
222 MHz Spring Sprint	1900 local - 2300 local, Apr 16
Phone Fray	0230Z-0300Z, Apr 17
CWops Mini-CWT Test	1300Z-1400Z, Apr 17 and 1900Z-2000Z, Apr 17 and 0300Z-0400Z, Apr 18



Contest Calendar— April page 3

NCCC RTTY Sprint	0145Z-0215Z, Apr 19
NCCC Sprint	0230Z-0300Z, Apr 19
Holyland DX Contest	2100Z, Apr 19 to 2100Z, Apr 20
ES Open HF Championship	0500Z-0559Z, Apr 20 and 0600Z-0659Z, Apr 20 and 0700Z-0759Z, Apr 20 and 0800Z-0859Z, Apr 20
Worked All Provinces of China DX Contest	0600Z, Apr 20 to 0559Z, Apr 21
QRP to the Field	0800-1800 local, Apr 20
CQMM DX Contest	0900Z, Apr 20 to 2359Z, Apr 21
YU DX Contest	1200Z, Apr 20 to 1159Z, Apr 21
Nebraska QSO Party	1300Z, Apr 20 to 0200Z, Apr 21 and 1300Z-2200Z, Apr 21
Michigan QSO Party	1600Z, Apr 20 to 0400Z, Apr 21
EA-QRP CW Contest	1700Z-2000Z, Apr 20 (10-20m) and 2000Z-2300Z, Apr 20 (40-80m) and 0700Z-0900Z, Apr 21 (40m) and 0900Z-1200Z, Apr 21 (20-10m)
Ontario QSO Party	1800Z, Apr 20 to 0500Z, Apr 21 and 1200Z-1800Z, Apr 21
Feld Hell Sprint	1800Z-2159Z, Apr 20
Run for the Bacon QRP Contest	0100Z-0300Z, Apr 22
SKCC Sprint	0000Z-0200Z, Apr 24
Phone Fray	0230Z-0300Z, Apr 24
CWops Mini-CWT Test	1300Z-1400Z, Apr 24 and 1900Z-2000Z, Apr 24 and 0300Z-0400Z, Apr 25
432 MHz Spring Sprint	1900 local - 2300 local, Apr 24
UKEICC 80m Contest	2000Z-2100Z, Apr 24
RSGB 80m Club Championship, Data	1900Z-2030Z, Apr 25
NCCC RTTY Sprint	0145Z-0215Z, Apr 26
NCCC Sprint	0230Z-0300Z, Apr 26
10-10 Int. Spring Contest, Digital	0001Z, Apr 27 to 2359Z, Apr 28
SP DX RTTY Contest	1200Z, Apr 27 to 1200Z, Apr 28
Helvetia Contest	1300Z, Apr 27 to 1259Z, Apr 28
Florida QSO Party	1600Z, Apr 27 to 0159Z, Apr 28 and 1200Z-2159Z, Apr 28
BARTG Sprint 75	1700Z-2059Z, Apr 28
QCX Challenge	1300Z-1400Z, Apr 29 and 1900Z-2000Z, Apr 29 and 0300Z-0400Z, Apr 30



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.

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).

JUG Articles Wanted!

Without your help we cannot reproduce a quality newsletter so please consider submitting a suitable article!

We welcome any and all relevant articles for inclusion in the JUG.

Deadline is 7 days before month end. Preferred format is MS Word, Arial 12 point and pictures should be full resolution. Send your material to Ian, W6TCP at w6tcpian@gmail.com Don't worry about the formatting, we can take care of that if necessary !

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.



Find us on Social Media

NCCCKB



HAM RADIO OUTLET

MULTI-STORE BUYING POWER!

ICOM



IC-7610
All Mode Transceiver



IC-7200
HF Transceiver



IC-7100
All Mode Transceiver



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



ID-51A Plus2
VHF/UHF D-STAR Portable

KENWOOD



TS-590SG
HF/50MHz Transceiver



TM-D710G
2M/440 Dualband



TM-V71A
2M/440 DualBand



TM-281A
2 Mtr Mobile



TH-D74A
2M/220/440 HT

YAESU
The radio



FT-991A
HF/VHF/UHF Transceiver



FTDX1200
100W HF + 6M Transceiver



FT-450D
A100W HF + 6M Transceiver



FTM-400XD
2M/440 Mobile



FT-60R
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