



**Publication of the
Northern California
Contest Club**



Issue 552

May 2018



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President's Report

“This year we will turn our focus to education. Whether it be an old-timer, newbie, or someone in between, we will be looking for, and providing, opportunities to learn more about our part of the hobby.”

“We will be doing other things as well. The Board of Directors is already discussing various activities, including a short beginners' program segment in our monthly meeting, Saturday (or other days of the week) gatherings to discuss contesting, reach-outs for local clubs, and even a rather interesting contest mentoring program. There are many possibilities, and everyone's suggestions and help are not only wanted, but needed.”

These quotes are from the first column I wrote as president in the May 2010 Jug, and most things equally apply today. In the ensuing years the calls to expand the contesting community have accelerated, and with it the need to help new contesters learn the best practice methods we have developed and practice in each and every contest.

NCCC Meeting Tuesday 12th June

6 PM Social Hour, 6:30 PM Dinner 7 PM Program

Location

Sansar Indian Cuisine
1214 Apollo Way, Sunnyvale, CA 94085

Program:

Using Field Day to Beta Test Your Next CQP Expedition"
Jim, K6EI

Click [here](#) to sign up

See You There !

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

We will be looking for more opportunities to introduce hams to the great world of contesting to make sure that we not only have more participants in each event, but to assure our hobby continues for many years to come.

Looking back at the goals and wishes enumerated in that first column, several things stand out that are still worth doing. Certainly reaching out to local clubs is very important as we have seen over the past few years. We have gained several new members (and some very good testers!) from local clubs such as WVARA, PAARA, FARS and others. These clubs each year hold Field Day exercises that have proven to be excellent introductory and teaching grounds for hams into the contesting world. Field Day may not be officially counted as a contest, but it certainly provides an excellent facsimile of one and likewise a great place for folks to learn new things. If you know of someone even slightly interested in our side of the hobby, by all means bring them to a Field Day exercise at one of the local clubs!

One of the goals that we worked on, but never realized in that first term is a Saturday (or Sunday) education program based on the now famous Contesting Academy that has been hosted at IDXC in Visalia. A version of this exercise for those just starting out in contesting combined with sessions for the more advanced should be of great interest to many hams in Northern California. Logistics are always the challenge for this type of exercise (just talk to the excellent IDXC team), and we will be looking to see what we might be able to do. Another opportunity slightly easier to accomplish we would like to bring back are contesting and technical webinars. These have proven popular in the past for introducing our best practices, new ideas and other topics of interest to both members and others. They have an additional advantage of being recorded and thus repayable by a larger audience after the webinar session has ended.

There is more to come - there are a lot of great ideas being worked on at present such as club projects. Watch for more as we go, and please get involved! This is our club, after all - it belongs to each of us. There are many great ideas that just need to be spoken. We then need help in following on many of them. It starts with that one spark of an idea!

< soapbox >

Shifting things a bit, I was privileged to attend the recent IDXC event in Visalia. At that event we heard many speakers talk about the dire future of contesting, that something has to be done to more align ourselves with the on-line gaming community. As someone who has a pretty good view into both communities I have a different opinion. I do believe that we have been remiss in not introducing more youth into ham radio. To put things bluntly, we simply did not do much to show off ham radio, leaving it to others to do the task. Instead we stuck to our jobs and careers and enjoyed our hobby on our own or with our friends. We have thoroughly enjoyed our efforts, but the result is sev-

eral generations of kids have missed out on a great hobby. The gaming community came along at the same time, driven from the growing computer evolution which many of us helped drive. We now have a very large community of gamers who spend countless hours in front of their computers playing video games much in the same way we do the same thing playing contest games. Working in a company with a large gaming products group, I have had the opportunity to introduce contesting to several gamers. My discussions with these folks show they have no idea we exist, but they are very interested when they are told about our activities and want to learn more. Could many of these become hams and testers? I believe they could. I believe we need a way to bridge them over to what we are doing (and possibly vice-versa), getting them addicted to contesting in the same way we are. Contesting is still quite a ways behind in our computer efforts, and while N1MM, WriteLog and others are very good, they still are not at the same level as most computer games for immersing ourselves in the contest environment.

If you have followed along this far, I think you probably now realize that I am saying very similar things to what we heard at Visalia, but without the dire straights verbiage meant to get your attention. I don't believe we are in dire straights at this point. But we do need to do things to introduce more folks of all ages to both our hobby and our corner of the hobby. And we need to educate them as to the best way to do things as we (and they) evolve our contesting addiction into the future.

< /soapbox>

Jack W6FB



May NCCC Meeting Cattlemen's, Livermore

Thirty Six members and guests turned out for the excellent presentation by Tom W2SC on Station Optimization for The Modern Single Op !

These in attendance were :Jig AD6TF, Andy AE6Y, Bill AI6JZ, David K6DAJ, Tom K6EU, John K6MM, Mike K6OR, Bob K6XX, Harris K9RJ, Jim K9YC, Lee KI6OY, Brian KJ6WH, David KK6DF, Clay N5YJZ, Ric N6AJS, RichN6KT, Dave N6NZ, Ken N6RO, Bob N6TV, Chris N6WM, Mike N7MH, Gary NA6O, Steve NC6R, Tom NS6T, Tom NW6P, Ed W0YK, Bob W1RH, Tom W2SC, Jack W6FB, Glen W6GJB, Ian W6TCP, Roger W6UZ, Bill W9KKN, John WB6ETY, Rich WC6H, and Matt WX5S

Three new members were voted in at the meeting. Congratulations and welcome to the NCCC: Mark Sayre W6IA, Roger Hooten W6UZ and Steve Gilbert, W6IFN











Tom NS6T with his award for Toms Contribution to CQP Scoring

Cabrillo Conquistador Tom Epperly, NS6T

Point Generator Profile Bob, W1RH

Latrobe, California, is home of this month's point generator. Doug, WE6Z, has been generating points on behalf of NCCC since at least 2009, including some big scores.

I took a look at 3830 and was surprised to see the number of contests Doug has participated in. He has generated large scores in SS CW and SSB and he has worked many RTTY contests including CQWW, CQ WPX, RTTY Roundup, and NAQP RTTY.

Doug moved to Latrobe recently and is currently building up his station. Based on the wide variety of contests Doug has been a part of in the past, expect WE6Z to rise up in the rankings of the NCCC KB competition once he completes his station upgrades.

Now, more from Doug, WE6Z:

Name/Call Sign: Doug WE6Z

Past calls: KF6MWA

Location: Latrobe, CA

How much property do you have? 1 acre

Describe your antenna system:

Current: I have an AB-577 military mast that is 50 feet tall. It is a portable tubular crank-up tower. Force 12 C3 @ 50 feet.
40/80 fan dipole inverted vee @ 45 feet.
Diamond X300A @ 50 feet.

Future: I plan on putting up a 270ft loop for 80 meters, an 80/160 meter vertical or inverted-L, and a magnetic loop for 80/160 receive. I also plan to install the extension kit for the AB-577 so that it will be 75 feet tall.

What's in your shack? My current setup is an Elecraft K3, AT-1000pro tuner, and Ameritron ALS-600 amplifier. The shack computer is a custom built quad core Intel machine. I will be installing an Alpha 87A and a Top Ten Band decoder with a 5 position remote coax switch in the next couple weeks.

What are your previous QTH's? My previous QTH was Granite Bay, CA. From there I worked DXCC with my Force 12 on my 33ft tower trailer.

If you're working, what is your career? I'm a computer tech for a local school district. I handle everything IT from smart boards to chromebooks to servers. I love my job, and have been working in IT in education since 2001. It is a new and interesting adventure every day.

How many DXCC entities have you worked? I currently have 193 countries confirmed on LOTW.

What's your favorite contest? WPX RTTY is my favorite contest. Having a WE6 prefix makes it a lot of fun.

Any tips for contesters? Get out there and make some contacts, even if you only have a few minutes. And don't forget to submit your log, no matter how small.

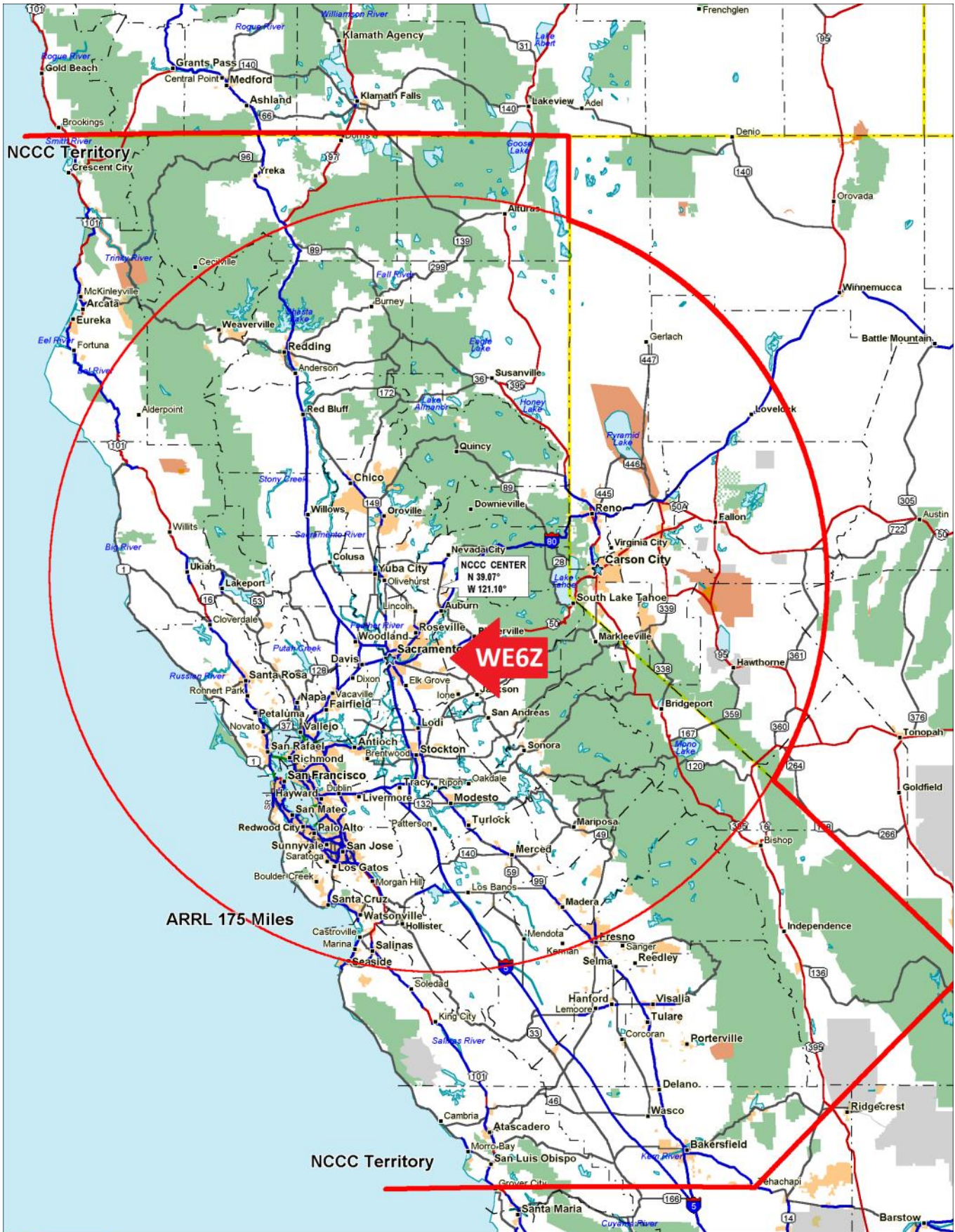
Goals? I'm working towards getting 200 confirmed countries and 5 band WAS.

Any other hobbies besides ham radio? Welding, making metal art sculptures, camping, hiking, and fishing









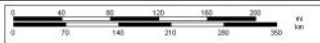
WE6Z

ARRL 175 Miles

NCCC Territory



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www.delorme.com



NCCC Annual KB Competition Rules

Revised February 25, 2018



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 38 contests are counted. See the table on the next page

Scoring: Score = number of contests in which you participated * sum of (points for each contest * each contest's multiplier). 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.

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.

Contact: Gary, NA6O. gwj@wb9jps.com

NCCC Annual KB Competition Table (Updated 2/25/18)

Contest	Month	Multiplier
ARRL DX Contest SSB	March	5
CQ WPX SSB	March	1
NA Sprint Spring SSB	April	100
JIDX CW	April	10
Florida QSO Party	April	20
7th Area QSO Party	May	20
New England QSO Party	May	30
CQ WPX CW	May	1
ARRL June VHF	June	200
All Asian CW	June	10
RAC Canada Day	July	10
IARU HF World Championships	July	5
NAQP Summer RTTY	July	50
NAQP Summer CW	August	50
NAQP Summer SSB	August	50
Kansas QSO Party	August	20
NA Sprint Fall CW	September	100
CQWW RTTY	September	2
NA Sprint Fall SSB	September	100
CQP	October	20
<u>Makrothen</u> RTTY Contest	October	10
JARTS RTTY Contest	October	5
CQWW SSB	October	1
ARRL Sweepstakes CW	November	15
JIDX SSB	November	20
ARRL Sweepstakes SSB	November	15
CQWW CW	November	1
ARRL 160 Meter Contest	December	50
RAC Winter	December	10
ARRL RTTY Roundup	January	50
NAQP Winter CW	January	50
NAQP Winter SSB	January	50
NA Sprint Winter CW	February	100
CQ WPX RTTY	February	1
ARRL DX Contest CW	February	5
NAQP Winter RTTY	February	50
NCCC Sprint CW	Weekly	50
NCCC Sprint RTTY	Weekly	100

The Five Million Point Award Program

Gary NA6O

The 5 Meg award has generated a lot of interest since it started in July 1986. For some reason, it has fallen by the wayside but due to popular demand, we are again promoting it and will issue awards. Any questions about the rules, or of any points totals should be addressed to Gary, NA6O. Rules are posted at <http://nccc.cc/5meg.html> and are reproduced below. A total of 94 awards have been issued to date. No doubt there are more of you that are eligible now.

Purpose

This award is intended to give recognition for sustained efforts by NCCC members. All too often club members compete with moderate stations, year-in and year-out without a reasonable chance actually to win major awards. The Five Million Point Award is designed to rectify this situation. This award is issued on a once-per-person basis.

How to Enter

Many contests (currently 117) are tracked on the NCCC website at <http://nccc.cc/members/scores.html>. Member data posted there goes back to 1998, for your convenience.

Email your results for each contest entered to NA6O. Include contest name, operator callsign, station callsign (if different), entry class (e.g., SOABLP, MS15HP, etc.), QSOs, mults, and score. Spreadsheet format is preferred. NA6O will validate your request and present your 5 Meg plaque at the April awards meeting.

Rules

This award requires the accumulation of a total of five million points.

Point totals shall be validated by NA6O based on the contestant's contest results recorded in the master database maintained on the NCCC website, Scores. See "How to Enter" above.

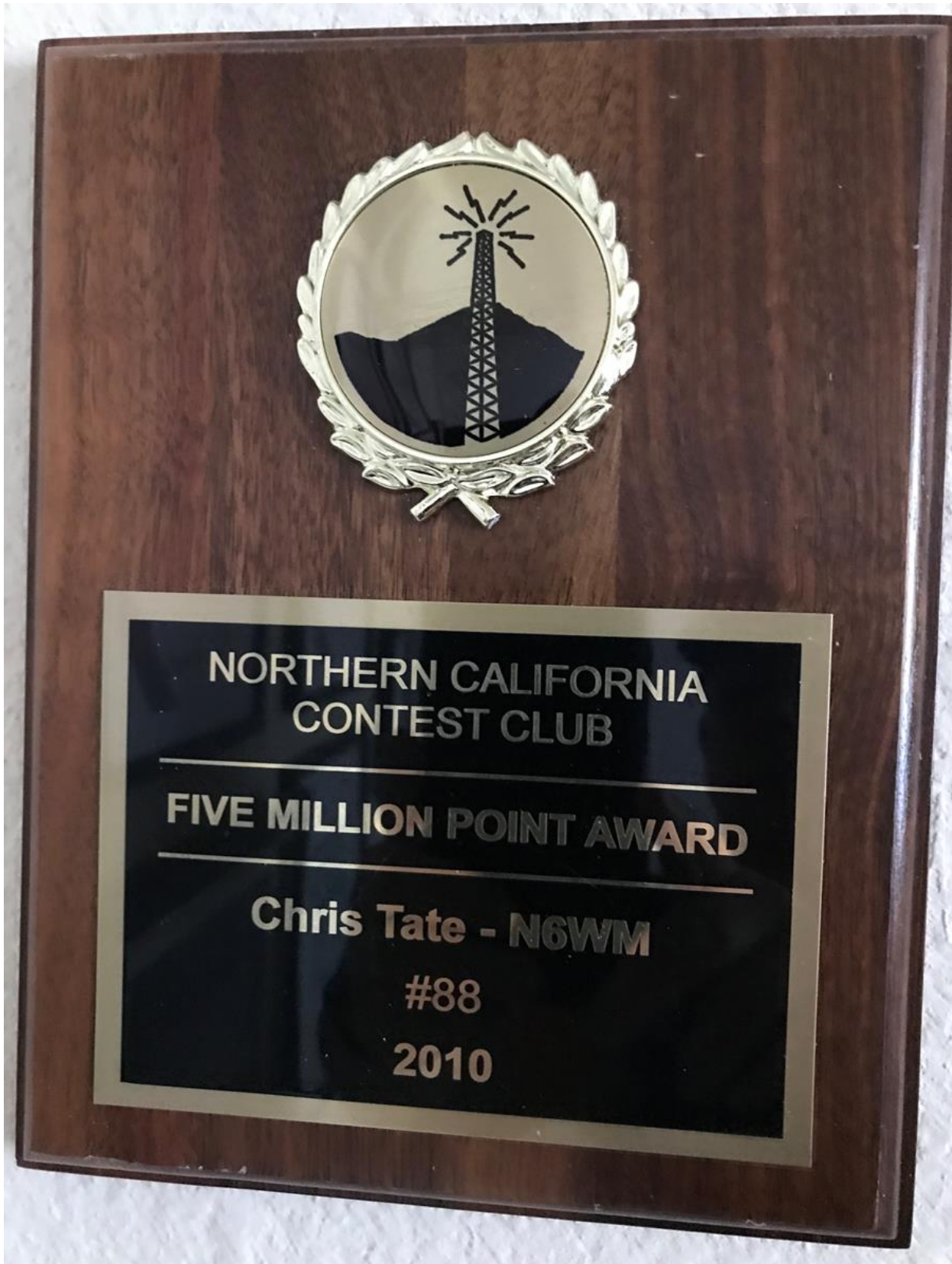
Any contest entry may be used for submission as long as the entrant is competing from within NCCC territory.

It is not necessary for the NCCC to be participating as a club for your point totals to count toward this award.

Participation with a Multi/Multi or Multi/Single station can count for this award. You are credited with a proportion of the total score divided by total number of operators as posted in the master database, Scores.

List Of Awardees

A current list of 5 Meg Award winners can be found here: <http://nccc.cc/5meg-awardlist.html>



TUBE OF THE MONTH

Visit the museum at N6JV.com

Norm N6JV

Visit the Museum: www.n6jv.com

813

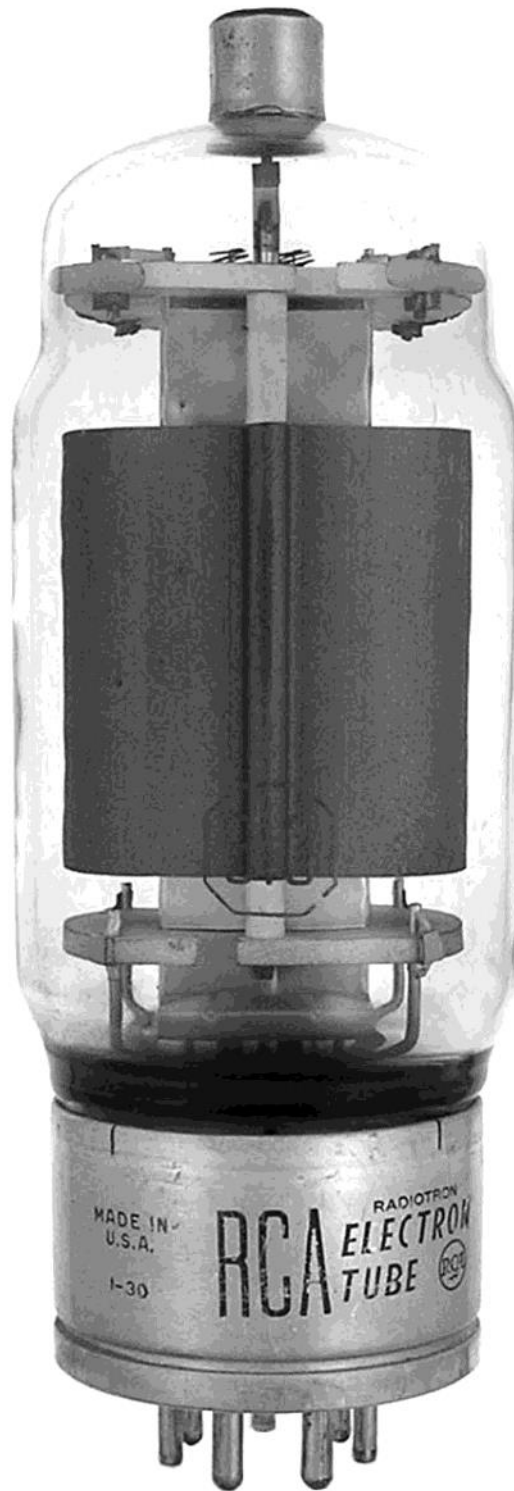
With the introduction of tetrode and pentode amplifier tubes, transmitter circuitry was greatly simplified. Fewer driver stages were needed that had been required in the older all triode transmitters. Tubes like the Raytheon RK-20 were intended for ham use and RCA's 803 seemed to fill a military application. The 803 was large but only handled full power below 20 MHz. This was no problem for military transmitters that were mostly used at lower frequencies for security reasons.

In 1938, RCA came out with the 813 and it was highly advertised in amateur publications. It was a 125-watt beam pentode that could be used all the way to 10 meters with low drive requirements. A pair of 813s would handle a legal KW input. The popularity of the new tube in ham rigs wouldn't take off until after WWII. Money was tight in 1938. The new tube fit several military applications. In preparation for the probable war, heavy bombers were being designed like the B-17. The 813 was used in the famous auto tuned ART-13 aircraft transmitter. After the War, the 813 was available to the hams in large numbers and many ham publications featured amplifiers and transmitters using the 813. The ARRL Handbook ran an article featuring single band, parallel 813s for several years. I also had single band 813s, but mine were all push pull. The 813 could also operate as a grounded grid amplifier by jumpering the grids together. The 813 is still a common amplifier tube for the first time builder. The Japanese call it the 4B13 and the Europeans call it the BB2/250E.

TUBE OF THE MONTH

Visit the museum at N6JV.com

Norm N6JV



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

CQP T-Shirts 2016 / 2017

We have a small number of T-Shirts left for anyone that wants one. They are \$15 each, available on a first come first served basis.

Available sizes:

2XL

XL

M

Contact Ian W6TCP at w6tcpian@gmail.com for details

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 !



Contest Calendar— June page 1

PVRC Reunion	0000Z-0400Z, Jun 1 (CW) and 0000Z-0400Z, Jun 2 (SSB)
NCCC RTTY Sprint	0145Z-0215Z, Jun 1
NCCC Sprint	0230Z-0300Z, Jun 1
10-10 Int. Open Season PSK Contest	0000Z, Jun 2 to 2400Z, Jun 3
DigiFest	0400Z-1200Z, Jun 2 and 2000Z, Jun 2 to 0400Z, Jun 3 and 1200Z-2000Z, Jun 3
Wake-Up! QRP Sprint	0600Z-0629Z, Jun 2 and 0630Z-0659Z, Jun 2 and 0700Z-0729Z, Jun 2 and 0730Z-0800Z, Jun 2
SEANET Contest	1200Z, Jun 2 to 1200Z, Jun 3
UKSMG Summer Contest	1300Z, Jun 2 to 1300Z, Jun 3
Kentucky QSO Party	1400Z, June 2 to 0200Z, Jun 3
IARU Region 1 Field Day, CW	1500Z, Jun 2 to 1459Z, Jun 3
RSGB National Field Day	1500Z, Jun 2 to 1500Z, Jun 3
Dutch Kingdom Contest	1500Z, Jun 2 to 1500Z, Jun 3
RSGB 80m Club Championship, Data	1900Z-2030Z, Jun 4
ARS Spartan Sprint	0100Z-0300Z, Jun 5
Phone Fray	0230Z-0300Z, Jun 6
CWops Mini-CWT Test	1300Z-1400Z, Jun 6 and 1900Z-2000Z, Jun 6 and 0300Z-0400Z, Jun 7
NRAU 10m Activity Contest	1700Z-1800Z, Jun 7 (CW) and 1800Z-1900Z, Jun 7 (SSB) and 1900Z-2000Z, Jun 7 (FM) and 2000Z-2100Z, Jun 7 (Dig)
SKCC Sprint Europe	1900Z-2100Z, Jun 7
NCCC RTTY Sprint	0145Z-0215Z, Jun 8



Contest Calendar— June page 2

NCCC Sprint	0230Z-0300Z, Jun 8
HA3NS Sprint Memorial Contest	1900Z-1929Z, Jun 8 (40m) and 1930Z-1959Z, Jun 8 (80m)
DRCG WW RTTY Contest	0000Z-0759Z, Jun 9 and 1600Z-2359Z, Jun 9 and 0800Z-1559Z, Jun 10
VK Shires Contest	0600Z, Jun 9 to 0600Z, Jun 10
Asia-Pacific Sprint, SSB	1100Z-1300Z, Jun 9
SKCC Weekend Sprintathon	1200Z, Jun 9 to 2400Z, Jun 10
Portugal Day Contest	1200Z, Jun 9 to 1200Z, Jun 10
GACW WWSA CW DX Contest	1500Z, Jun 9 to 1500Z, Jun 10
REF DDFM 6m Contest	1600Z, Jun 9 to 1600Z, Jun 10
ARRL June VHF Contest	1800Z, Jun 9 to 0259Z, Jun 11
Cookie Crumble QRP Contest	1700Z-2200Z, Jun 10
4 States QRP Group Second Sunday Sprint	0000Z-0200Z, Jun 11
NAQCC CW Sprint	0030Z-0230Z, Jun 13
Phone Fray	0230Z-0300Z, Jun 13
CWops Mini-CWT Test	1300Z-1400Z, Jun 13 and 1900Z-2000Z, Jun 13 and 0300Z-0400Z, Jun 14
RSGB 80m Club Championship, CW	1900Z-2030Z, Jun 13
NCCC RTTY Sprint	0145Z-0215Z, Jun 15
NCCC Sprint	0230Z-0300Z, Jun 15
All Asian DX Contest, CW	0000Z, Jun 16 to 2400Z, Jun 17
SMIRK Contest	0000Z, Jun 16 to 2400Z, Jun 17
ARR BPSK63 Contest	1200Z, Jun 16 to 1200Z, Jun 17
Ukrainian DX Classic RTTY Contest	1200Z, Jun 16 to 1159Z, Jun 17
IARU Region 1 50 MHz Contest	1400Z, Jun 16 to 1400Z, Jun 17
AGCW VHF/UHF Contest	1400Z-1700Z, Jun 16 (144) and 1700Z-1800Z, Jun 16 (432)



Contest Calendar— June page 3

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AGCW VHF/UHF Contest	1400Z-1700Z, Jun 16 (144) and 1700Z-1800Z, Jun 16 (432)



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!

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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

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 Chis • Integrated GPS • D-STAR Repeater Directory • IPX7 Submersible



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



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

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



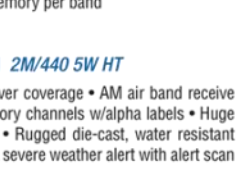
FT-450D | A100W HF + 6M Transceiver

- 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



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



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