



**Publication of the  
Northern California  
Contest Club**



Issue 559  
December 2018



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## NCCC Meeting

Tuesday 8th January 2019

Sign up [Here](#)

Or visit [nccc.cc/meetings.html](http://nccc.cc/meetings.html)

Marigold Indian Cuisine  
1214 Apollo Way  
Sunnyvale, 94085

6:00 pm - 8:00pm

## KB Competition 3.0 Roll-out

Contests and rules for 2019/2020 season

Gary NA6O

## Presidents Report:

### Station Building

Station building. As hams It is something we all do. When you acquired your first transceiver you started building a station. It might have been a two-meter transceiver or a Heath HW-16, but it was still the start of a station. Next came antennas so others could actually hear you, maybe a CW keyer, better accessories or other things. Perhaps the experimentation bug hit and you started trying new antennas, building your own. Trying new things was the order of the day, anything to help you have more fun with your great hobby.

When the contesting bug hit, things changed. Each contest showed something missing that just might have given you a few more points or multipliers. Contesting gave you a new purpose for the improvements. Reading and seeing what others have done just added to the desire to improve. Two radios? Gotta do it. Stacked beams? Ditto. It didn't matter that your city lot (or budget) didn't support some of these improvements, you just had to make things better to earn more points.

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	Bill, N6ZFO
NCCC CW Sprint	Tom, N3ZZ (initially, Ken N6RO )
NCCC RTTY Sprint	Ken, K6MR
NCCC Sprint Ladder	Bill, N6ZFO
Sprint Web master <a href="http://www.ncccsprint.com">www.ncccsprint.com</a>	John, K6MM.
non-NCCC:	Tim N3QE (Ladder Scores manager )
Thursday night Contesting Advisory Group:	N6ZFO, Bill (Chair)
	Mark K6UFO, (with W4NZ, N4AF, W9RE, K4BAI, N3BB and W0BH).
The Thursday night NCCC Net	Ken, N6RO

Our first contest station started out with a single transceiver with multi-band antenna. Known as a little pistol station, this station is good to develop contesting skills and learn the ropes. It usually is not very competitive - those farther along in the art will easily beat the little pistol. This is why we have various categories in contests, so that little pistols can compete against other little pistols. The first major improvement was in the antenna system - a tribander on a short tower. This provided a great improvement, allowing the transmitted signal to be targeted at a specific area while the multi-band dipole continued to be used on the low bands. Still in the little pistol mode, this made our station competitive as we continued to improve our skills.

A very big improvement occurred with the addition of a station computer running logging software. Prior to this all logging and duping was done with paper and pencil, a tedious process that was prone to allowing duplicate contacts despite the ops best efforts. This is where multi-op operation added a second operator to perform dupe checking, again using pencil and paper. Also a lot of "fun" was the task of sending code while holding the logging pencil. Some ops learned to send with one hand and write with the other to help this problem. These problems were eliminated with the use of a computer which provided dupe checking and logging. This improvement allowed the op to better concentrate on making QSOs and improving score. The early programs also helped us improve our computer skills as we worked to recover from program crashes.

The next improvement was in the form of an amplifier, moving the operation from low to high power. No longer a little pistol, we now are playing with the big guns, but also reverted to not being very competitive with them. There were also lessons learned with this upgrade. The antenna system was designed for low power, not high. The result was a succession of arcing problems in coax connectors and adapters. Another learning opportunity, with the answer being to replace the cheap adapters with good quality ones. Another lesson learned.

Inside the shack, the station evolved with the addition of automation devices and techniques allowing the op to concentrate on making QSOs. The addition of an automated antenna selection box allowed the proper antenna to be selected for each band. The station computer was improved also with a more powerful processor, more memory and bigger disk.

The logging software provided perhaps the biggest improvement as new features were added, especially the use of the packet cluster system for station spotting. It now became much easier to find multipliers as other ops spotted them as they worked the desired stations. And, the crashes became much more rare!

All of these improvements required changes and rework of the station as the station building evolution continued. The skills learned along the way, including planning, RFI abatement, integration of new electronics and devices, documentation and more are also applied in our workday jobs and help in our careers. Station building is indeed an engineering exercise, one that is very personal as it is our station that is being built.

The process never ends, of course. There are many new things to be added to the station and improvements to be made. New techniques, such as SO2R require a complete rework as we listen for stations on one band while transmitting on another. Issues here such as protecting one receiver while another close-by one is transmitting is a huge one to resolve. The recent addition of triplexers (and quadplexers) can make the tri- or quad-band beam useful to both radios simultaneously, but require more planning and engineering to integrate into the station.

The inevitable station move also enters into the situation, as we tend to change QTHs over time. Of course this gives us the opportunity to completely restart the process in a new location.

The importance of station building, and those who concentrate on it cannot be overstated. For many of us, building our station has become our favorite activity. Others can make use of our obsession by using our stations to apply and improve their operating skills while they follow behind in their own station building exercise. The importance of station builders is seen in the club's KB competition, where station owners who host others are themselves awarded a score in the competition. After all, the skilled operator would not be able to achieve a great score without the effort of the station builder.

## **Happy New Year!**

Moving into the new year gives us the opportunity to look back on the previous year. As we write this we have just passed the point where at least 60% of the days in 2018 did not have sunspots. The "experts" tell us that we have not reached the bottom of the Solar Cycle, but that will occur sometime this next year or the one following. The good news is that we have now seen the first of the new cycle sunspots. These are identified as small disturbances located high up in the Sun's latitude, and having a reversed magnetic polarity with respect to current cycle spots. So while we can take solace in the fact that the current situation will not last forever, we still need to work on our low band antennas (and operating skills) so that our stations will perform well on the low bands.

We are also moving rapidly into the portion of the year where many of the club's targeted contests will be held. The first of course is the ARRL RTTY Roundup held the first weekend of January. Get ready for lots of fun as we once again push to show the world that the NCCC really is the premier contest club.

Our best wishes for a great new year to all; Happy New Year and KB!

Jack, W6FB



## Holiday Party

The December Holiday Party took place on Saturday 15th December at Michaels at the Shoreline in Mountain View.

The program highlights were:

- ~ Welcome & League Reminiscences, by Jack W6FB
- ~ My fall vacation in the South Pacific resort of Ducie Island by Chris N6WM
- ~ Auction with Bob N6TV (Thank to Bob, N6TV for taking the holiday pictures)

There were 25 attendees:

Ned AC6YY, Razija AC6YY - Guest, Bill AE6JV, Joanna K6YL, Ed AJ6V, Tom K6EU, Rich N6KT, Jennifer KB4TGE - Guest, Peri KI6SLX - Guest, Tom N3ZZ, Bob N6TV, Chris N6WM, Mike N7MH, Tom NW6P, Judith W4JJY - Guest, Lucas W6AER, Jack W6FB, Steve W6IFN, Jim W6SC, Mary W6SC - Guest, Ken W6XB, Ron W8RJL, Bill W9KKN, Michael WA2FHF and Matt WX5S



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## **VP/CC's Corner – New Years Edition Keeping the Unlimited Club Competition alive for the NCCC**

Our Secretary W6TCP and President W6FB have assured me this edition will hit the street before the eve of our ARRL RTTY Roundup Focus Competition club effort.

I wanted to first thank all the KBers who have committed efforts at all levels to help ensure the NCCC is competing right where it belongs, in the Unlimited Club competition, dueling with our competition on the east coast. The ARRL RTTY Roundup is a contest that we consistently do well in, and have a continual chance to win as we have on numerous occasions.

Last year we achieved an overwhelming win over PVRC, after dropping to the medium club category the year prior to that. I am sure you would all agree that a drop to medium for us would not be good for us as a whole so I wanted to reach out to all who have not yet made the commitment, and do so ASAP. The more logs we get in, the better we do in this category. They don't have to be big, and with FT8 and other digital modes they don't even need to be RTTY if you are not RTTY inclined. So drop me an email at [N6WM@largeradio.org](mailto:N6WM@largeradio.org), and let me know you are on board to support your club in the ARRL RTTY Roundup 2019!

**The Details once again - Mark your calendars- NEXT WEEKEND IS GO TIME!**

**\*\*\*ARRL RTTY ROUNDUP\*\*\***

**Begins 1800 UTC Saturday, ends 2359 UTC Sunday (January 5-6, 2019).**

**With the new year, time to look ahead.**

With the new year we are a good portion of the way into the contest season. Our next focus event, the tri-feta of WPX contests need to be on our radar. Its time to make travel plans for your contestpeditions, or make sure your station is ready. This contest series should always be on the mind of KBers as a focus. It's the CQ International DX contest that WE CAN WIN WITH THE RIGHT PARTICIPATION!

Since the multiplier focus is not geographical, a quick opening into EU can make or break an effort. Additionally, its ability to allow contestpedition stations to participate in club competition makes available our possible efforts in the Caribbean, central and south America, as well as the pacific count for us.

SO please mark your calendars, and be proud to be a member of the west coasts premier amateur radio club.

**WPX RTTY  
FEBRUARY 9-10 2019**

(Warmup for the CW/SSB based club competition)

**WPX SSB  
MARCH 30-31 2019**

(This is the first part of the real deal, all hands on deck.)

**WPX CW  
MAY 25-26 2019**

(the second part of the focus all hands competition)

Mark your Calendars now.. and be ready to KB

73 and HNY!

Chris  
N6WM  
Vice President and Contest Chairman

## Point Generator Profile Bob, W1RH

You'll see his call in many contests and you'll see him at most NCCC meetings. Tom, NW6P is this month's featured Point Generator.

If you mention the call NW6P to me, what immediately pops up is:

Mentor  
Super Contester  
Shares his station with others.

A quick look at 3830 shows Tom's station active in all of the common contest modes. In the KB Competition, NW6P is currently in 4<sup>th</sup> place, Gold Class.

I always love to see Tom at our meetings. Members are always gathered around him, just showing all of us how much this KB'er is liked and respected in our great club.

Now, more from Tom:

**Name/Call Sign:** NW6P

**Past calls:** W2TOD

**Location:** Cupertino

**How much property do you have?** 9000 sq ft

**Describe your antenna system:**

**Current:**

80m dipole

2 ele 40/2 ele 30

3 ele 12/4 ele 10

3 ele 20/3 ele 17/3 ele 15

HD crank up tower on a knoll 350 ft above SF Bay. 3 beams, no traps. Top is at 65 ft with clear view from JA then over the pole to Europe Middle East Africa South America all the around to ZL. Rest of the world no hight advantage but in the clear as I am about 3 miles from hills.

**Future:**

Improve 80m ant

**What's in your shack?** K3 Alpha 87A, FLEX 6600 on loan from Bill W9KNN. Solid state 1500 w amp being built by Bill. NW6P an operate SO2R, one band w/Alpha, soon full output both bands. Green Heron rotor control. DX Engineering band controls. Set up for remote op.

**What are your previous QTH's?**

New Providence NJ member of Bell Labs ham radio club.

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



EE from RPI MBA U Chicago started modem company 1969, sold it in 1983 with sales \$150m/yr. Retired at 39. 2 yrs later helped run my XYL's advertising specialty company Bimark. Still in business with our daughter running it,

**Married?**

**Wife**

Biruta and I were married 47 years until her death from cancer 7 yrs ago.

**Kids?**

Daughters Laura and Alison, son Steve

**Grandkids?**

6 boys

**How many DXCC entities have you worked?**

All but P5

**What's your favorite contest?**

WPX Phone

**Any tips for testers?**

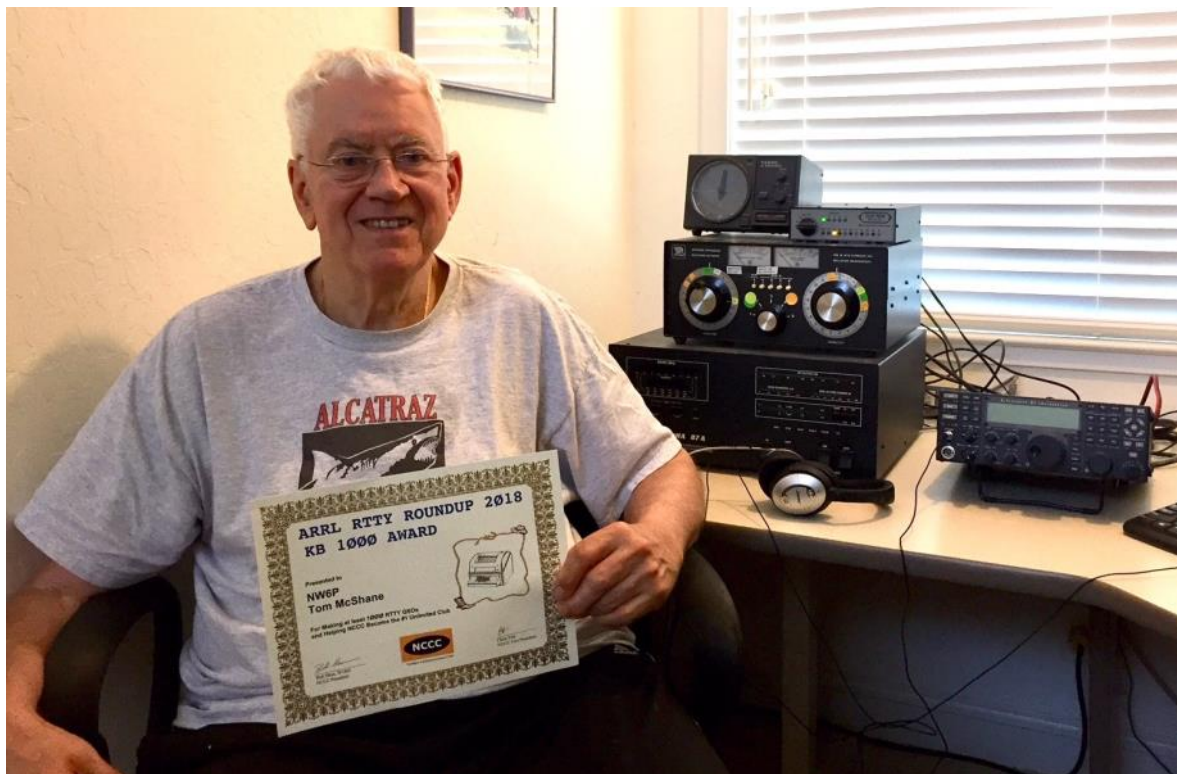
Sit in the chair.

**What would you like to see changed in NCCC?**

More mentoring to get new testers into NCCC.

**Any other hobbies besides ham radio?**

Gardening. I have 52 varieties of fruit trees and raised beds for vegetables.  
Cooking & Travel. 50 states and currently 80 countries.









NW6P



# 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)

<b>Contest</b>	<b>Month</b>	<b>Multiplier</b>
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

Platinum	Gold	Silver
AD6E	AJ6V	AI6JZ
AE6Y	K6AW	K6AAM
AF6SA	K6DAJ	K6CSL
K2RD	K6DGW	K6ELE
K3EST	K6IJ	K6JS
K5RC	K6NV	K6KLY
K6GHA	K6RIM	K6KR
K6LRN	K6TLR	K6RB
K6MM	K6UFO	K6ST
K6MR	K6XN	K6TQ
K6SRZ	K6XV	K6UM
K6XX	KH2TJ	K7GK
K7XC	KH6LC	K7MKL
K9YC	KM6I	K7NV
KA6BIM	N0KQ	KA6W
N6EE	N2NS	KD6WKY
N6IE	N3RC	KE8FT
N6JV	N3ZZ	KI6OY
N6RO	N6KT	KM9R
N6TV	N6PN	KO6LU
N6WM	N6XI	KX7M
N6ZFO	NC6R	KZ2V
N7MH	NJ6G	N1DID
NA6O	NQ6N	N5KO
W0YK	NW6P	N6AJS
W1RH	OH1VR	N6DE
W1SRD	W6DR	N6DW
W2SC	W6EU	N6GEO
W6NV	W6FA	N6JS
W6OAT	W6JTI	N6NU
W6SX	W6NF	N6RK
WB6JJJ	W6RC	N6VV
WC6H	W6SR	N9YS
WK6I	W9KKN	ND2T
WX5S	WA6O	NF1R
	WU6X	NK7U
		NR6Q
		VY1JA
		W6LD
		W6NL
		W6RGG
		W6SC
		W6SZN
		W6TCP
		WE6Z

## KB Award Brackets - New for 2018

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 to 3830 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.



## **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](mailto: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](mailto:w6tcpian@gmail.com)

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## **Forthcoming NCCC Meetings**

### **January 8th, Tuesday**

Marigold Indian Cuisine, 1214 Apollo Way, Sunnyvale, CA 94085 / KB Awards 2019/2020 Contests and rules

### **February 13th Wednesday**

Joint NCCC / REDXA meeting

### **March 12th, Tuesday**

South Bay, Venue / Presentation TBA

### **April 9th, Tuesday**

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

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## **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>

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## **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](mailto: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](http://www.n6jv.com)

### 2E24 & 2E26

During WWII, the use of VHF and UHF equipment became common. After the war, there developed a market for transmitting tubes that would operate in VHF. Early 2-way radio equipment for commercial and police communication was AM. Many AM police departments were on 2 MHz. The use of FM for TV and communication had many benefits and there was a rush to occupy the available VHF bands. Motorola and General Electric were the main providers of police and commercial FM gear. Competition for contracts was very intense. Getting the contract to provide a radio for every police car in Los Angeles was every salesman's dream.

The need for small, octal based, VHF beam tetrodes was behind RCA's development of the 2E24 and the 2E26 in late 1945 and 1946. These were modernized versions of the 807-type tube and were much smaller. The 2E24 had a fast heating filament for mobile use and the 2E26 had a conventional 6.3-volt heater. The first transceivers were large and took up much of the trunk. With the development of 7 and 9 pin miniature tubes, the newer units were made dash mount. The 2E24 was a commonly used final and driver for the 10 watt transceivers like the Motorola 41V. The 2E26 was used in both mobile and base stations. The tubes would operate at full power at 125 MHz and at reduced power to 175 MHz. As units became obsolete, hams were changing the crystals and moving them into the 2-meter band. The age of repeaters had begun.

Many new hams in the 1950s and 60s would recycle the old gear for parts. In 1959 my first transmitter used the power supply from a 174 MHz base station and the 2E26s from a mobile. A pair of push pull 2E26s with plug in coils made a full power (75 watts) novice transmitter. Makers of ham gear like Clegg and Knight-Kit also used them. In about 1952, RCA introduced a higher power version called the 6146. For some time these tubes were the final of choice for many ham transmitters.

# Tube Of The Month

## Norm, N6JV

Visit the Museum: [www.n6jv.com](http://www.n6jv.com)

### 2E24 & 2E26





# Contest Calendar— January page 1

AGB New Year Snowball Contest	0000Z-0100Z, Jan 1
SARTG New Year RTTY Contest	0800Z-1100Z, Jan 1
AGCW Happy New Year Contest	0900Z-1200Z, Jan 1
AGCW VHF/UHF Contest	1400Z-1700Z, Jan 1 (144) and 1700Z-1800Z, Jan 1 (432)
QRP ARCI New Years Sprint	1500Z-1800Z, Jan 1
QRP Fox Hunt	0200Z-0330Z, Jan 2
Phone Fray	0230Z-0300Z, Jan 2
CWops Mini-CWT Test	1300Z-1400Z, Jan 2 and 1900Z-2000Z, Jan 2 and 0300Z-0400Z, Jan 3
UKEICC 80m Contest	2000Z-2100Z, Jan 2
AWA Linc Cundall Memorial CW Contest	2300Z, Jan 2 to 2300Z, Jan 3 and 2300Z, Jan 5 to 2300Z, Jan 6
NRAU 10m Activity Contest	1800Z-1900Z, Jan 3 (CW) and 1900Z-2000Z, Jan 3 (SSB) and 2000Z-2100Z, Jan 3 (FM) and 2100Z-2200Z, Jan 3 (Dig)
SKCC Sprint Europe	2000Z-2200Z, Jan 3
NCCC RTTY Sprint	0145Z-0215Z, Jan 4
QRP Fox Hunt	0200Z-0330Z, Jan 4
NCCC Sprint	0230Z-0300Z, Jan 4
PODXS 070 Club PSKFest	0000Z-2400Z, Jan 5
WW PMC Contest	1200Z, Jan 5 to 1200Z, Jan 6
RSGB AFS Contest, CW	1300Z-1700Z, Jan 5
ARRL RTTY Roundup	1800Z, Jan 5 to 2400Z, Jan 6
ARRL Kids Day	1800Z-2359Z, Jan 5
EUCW 160m Contest	2000Z-2300Z, Jan 5 and 0400Z-0700Z, Jan 6
IQRP Quarterly Marathon	0800Z, Jan 7 to 2000Z, Jan 13



# Contest Calendar— January page 2

ARS Spartan Sprint	0200Z-0400Z, Jan 8
QRP Fox Hunt	0200Z-0330Z, Jan 9
Phone Fray	0230Z-0300Z, Jan 9
CWops Mini-CWT Test	1300Z-1400Z, Jan 9 and 1900Z-2000Z, Jan 9 and 0300Z-0400Z, Jan 10
NCCC RTTY Sprint	0145Z-0215Z, Jan 11
QRP Fox Hunt	0200Z-0330Z, Jan 11
NCCC Sprint	0230Z-0300Z, Jan 11
YB DX Contest	0000Z-2359Z, Jan 12
Old New Year Contest	0500Z-0900Z, Jan 12
UBA PSK63 Prefix Contest	1200Z, Jan 12 to 1200Z, Jan 13
SKCC Weekend Sprintathon	1200Z, Jan 12 to 2400Z, Jan 13
North American QSO Party, CW	1800Z, Jan 12 to 0559Z, Jan 13
NRAU-Baltic Contest, SSB	0530Z-0730Z, Jan 13
NRAU-Baltic Contest, CW	0800Z-1000Z, Jan 13
DARC 10-Meter Contest	0900Z-1059Z, Jan 13
Midwinter Contest	1000Z-1400Z, Jan 13
RSGB AFS Contest, SSB	1300Z-1700Z, Jan 13
Classic Exchange, CW	1300Z, Jan 13 to 0700Z, Jan 14 and 1300Z, Jan 15 to 0700Z, Jan 16
4 States QRP Group Second Sunday Sprint	0100Z-0300Z, Jan 14
QRP Fox Hunt	0200Z-0330Z, Jan 16
Phone Fray	0230Z-0300Z, Jan 16
CWops Mini-CWT Test	1300Z-1400Z, Jan 16 and 1900Z-2000Z, Jan 16 and 0300Z-0400Z, Jan 17
NAQCC CW Sprint	0130Z-0330Z, Jan 17
NCCC RTTY Sprint	0145Z-0215Z, Jan 18
QRP Fox Hunt	0200Z-0330Z, Jan 18



# Contest Calendar— January page 3

NCCC Sprint	0230Z-0300Z, Jan 18
LZ Open Contest	1800Z-2200Z, Jan 18
Hungarian DX Contest	1200Z, Jan 19 to 1159Z, Jan 20
RSGB AFS Contest, Data	1300Z-1700Z, Jan 19
North American QSO Party, SSB	1800Z, Jan 19 to 0559Z, Jan 20
WAB 1.8 MHz Phone	1900Z-2300Z, Jan 19
ARRL January VHF Contest	1900Z, Jan 19 to 0359Z, Jan 21
Feld Hell Sprint	2000Z-2359Z, Jan 19 (EU-AF) and 2300Z, Jan 19 to 0259Z, Jan 20 (ENA-ESA) and 0200Z-0559Z, Jan 20 (WNA-OC-AS)
Run for the Bacon QRP Contest	0200Z-0400Z, Jan 21
SKCC Sprint	0000Z-0200Z, Jan 23
NAQCC CW Sprint	0130Z-0330Z, Jan 23
QRP Fox Hunt	0200Z-0330Z, Jan 23
Phone Fray	0230Z-0300Z, Jan 23
CWops Mini-CWT Test	1300Z-1400Z, Jan 23 and 1900Z-2000Z, Jan 23 and 0300Z-0400Z, Jan 24
NCCC RTTY Sprint	0145Z-0215Z, Jan 25
QRP Fox Hunt	0200Z-0330Z, Jan 25
NCCC Sprint	0230Z-0300Z, Jan 25
CQ 160-Meter Contest, CW	2200Z, Jan 25 to 2200Z, Jan 27
REF Contest, CW	0600Z, Jan 26 to 1800Z, Jan 27
BARTG RTTY Sprint	1200Z, Jan 26 to 1200Z, Jan 27
UBA DX Contest, SSB	1300Z, Jan 26 to 1300Z, Jan 27
Winter Field Day	1900Z, Jan 26 to 1900Z, Jan 27
QRP Fox Hunt	0200Z-0330Z, Jan 30
Phone Fray	0230Z-0300Z, Jan 30
CWops Mini-CWT Test	1300Z-1400Z, Jan 30 and 1900Z-2000Z, Jan 30 and 0300Z-0400Z, Jan 31
UKEICC 80m Contest	2000Z-2100Z, Jan 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](mailto: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.



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*A100W HF + 6M Transceiver*



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