



Publication of the
Northern California
Contest Club



Issue 567

August 2019



Inside this Issue:

	Page
Presidents Report	1
VP/CC Report	4
Point Generator Profile—K6UFO	5
HELP Wanted	9
NCCC / N6RO BBQ	10
KB Competition	13
NCCC News	17
Forthcoming Meetings	17
Tube of the Month	18
Contest Calendar	19
NCCC Information	21
HRO	22

Presidents Report:

“The Contest Jug Uncorked Monthly for the Northern California Contest Club” proclaimed in the very first issue of the Jug back in November of 1970. Editor W6CUF initiated the Jug as a listing of upcoming contests to help members plan their weekends. The issue listed 24 members, including one novice, with officers W6BHY, K6EBB, W6RGG, K6CQF and W6WX.

This issue of the Jug was sent out not long after the club was formed that same year. There have been at least 566 issues since (including this one). Some of the issues (non-numbered) are hand written meeting notices called “Juglets”. Usually these included other information, but not enough to qualify for a full Jug.

There is a lot of very interesting information in the issues chronicling the growth of the club, both in members and their contest proficiency. One example comes in Jug number 84, where president W6OAT crows about the 70 megapoints the club scored in the ARRL DX Test. Apparently PVRC only scored a measly 66 megapoints, although FRC totaled about 90M. Not bad for a contest that is conventionally deemed to be an east coast-only event. Also in this issue, CQP chairman WB6DSV reported over 3000 stations participating in the event, with 242 logs received. Things have grown in years since, haven’t they.

Issue 100 was published in August of 1980. Edited by K6RU, the Jug had expanded to 6 pages. Postage was 15 cents. The club’s August meeting presentation was from Jack Curtis, K6KU, discussing his new Curtis Keyer chip. This issue included the results of a member survey, indicating that the members preferred contests were: CW and SSB Sweepstakes, followed by ARRL DX-Phone then CQP. ARRL DX CW faired sixth on the poll, followed by the CQWW tests. Looks like our tastes haven’t really changed all that much.

NCCC October Meeting

When:

Tuesday, October 13, 2019
6:00 PM to 9:00 PM

Where:

Tony & Albas
3137 Stevens Creek Blvd, San Jose, CA
95117

What:

K9YC presenting his talk on mitigating Inter-station Interference

Sign Up [HERE](#)



Northern California Contest Club

Excellence In Amateur Radio Contesting

Officers:

President	Jack Brindle	W6FB	jackbrindle@me.com
Vice President /Contest Chair	Hank Garretson	W6SX	w6sx@arrl.net
Treasurer	Tom Carney	K6EU	treasurer.nccc@gmail.com
Secretary	Greg DesBrisay	N6GD	secretary.nccc@gmail.com
Past President	Bob Hess	W1RH	w1rh@yahoo.com
Director	David Jaffe	K6DAJ	k6daj@arrl.net
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			

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 www.ncccsprint.com	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

Interesting through the journey is that the club participated in Field Day many years. Issue 201 discusses the club's plans for FD 1989. The site was "a charming hill with a magnificent view of the Bay and San Ramon Valley." Want to know how they did? Pictures are included in Jug 202.

The Jug took on a more professional look in the 90s, switching from the typewritten pages to a more typeset look afforded by desktop publishing. Issue 275 is a great example, edited by W6ISQ. There are several excellent grey-scale pictures in this issue (remember, these were printed and mailed out), including several of young-looking N6IP, N6TV, AB6YL and AE6Y. Some of these folks may have new calls, but they are quite recognizable by us newer members. In his column VP/CC, N6IP (now K6XX) proclaims the NCCC's victories in CQWW for 1981 and 1983. The margin for the 1981 effort was only 538,595 points over YCCC (NCCC scored 160,376,851). This again proves that when NCCC members set their minds to winning a contest, it will happen!

The Jug started taking on antenna and construction articles as computer publishing took hold in the 90s and after. This caused an expansion of the newsletter into more of a magazine format, and allowed even more information to be published. The Jug also was made available in electronic format, allowing members faster delivery and the ability to save the Jug on disk.

Each issue of the jug is available on-line at the NCCC web site, and are very interesting reads. Going through the history of the club and seeing what happened and why, along with our friends who lived it, is very educational. We are blessed with a rich history, a penchant for great success and the guidance of the folks (most of whom are still active in both the club and contesting) who helped found and guide the club. Having this rich history chronicled in the Jug is very important, as it allows new members (and old...) to learn about what really happened, and perhaps reset their opinions as to what contests can really be won from the West coast, what kind of antennas to use and so forth. I encourage all to peruse the Jug archives at <http://www.nccc.cc/newsletter.html>.

In this day and age where many publications are dropping by the wayside, with communications replaced by email lists, forums and web sites, it would be easy to suggest that we stop publishing the Jug. As shown above, the Jug is far more than a monthly magazine, it really is a living history of our efforts in the club, our growth and successes. It is important that we continue to chronicle these events, contest results, station information, and other features that are important to NCCC members. Will there be a day when the Jug ceases to be important? I don't see it. As long as we compete and thrive, we need to document it.

With this in mind, i'd like to remind all that we are transitioning from one editor to the next. We again thank W6TCP for his excellent work in editing the Jug, and look forward to whomever is the next editor. We need someone to step forward to accept the role of putting together the Jug and publishing it (really, sending it to K6MM). If you are interested, please contact W6FB to discuss the role and see if we can get you going to chronicle the next generation of NCCC successes!

73!

Jack, W6FB

Vice-President / Contest Chairman Report:

(Not So) Golden Silence

We've all experienced it.

CQ TEST W6SX

^%\$#*&^?>+@!!!

Two or more stations call exactly zero beat. You can't get a call or even a partial.

Followed by excruciating SILENCE.

What's the best thing for the CQing station to do?

Answer—nothing. Just wait.

If you send ?, QRZ, or AGN, everyone will call again, again on top of each other.

Just wait, eventually someone will drop a call and you're back in business.

Nuances. If you can get a partial, don't wait—send the partial

The smart operator will drop his call again very quickly. Be a smart operator. QSK really helps, both for the CQing and calling stations.

If it's really taking forever, just send a dit, which will encourage someone to call again.

If you are the calling station, being off frequency a bit can help. For S&P, I have a function key that offsets me 50 Hz. (For N1MM and the K3: F9 XIT W6SX, {CAT1ASC XT1;RO-0050;} W6SX)

Contest Exuberantly,

Hank, W6SX

VP/CC

Point Generator Profile

(Interviewed by Bob, W1RH)

Whether it be with the call of K6UFO or that awesome CW call, NN7SS, you know the man behind the Key, Keyboard, or microphone is Mark, K6UFO. The number of contests he's operated in, in 2019, occupies a full page on 3830, so you know Mark is generating points!

When he's not operating, he may just be tending to his duties as the man behind the NAQP RTTY contests or perhaps preparing for a presentation.

Now, more from Mark:

Name/Call Sign: Mark "Mork" Aaker K6UFO (and NN7SS).

Location: I live in San Francisco, but have no station there. I operate remote to a station I maintain at a vacation house on Vashon Island, WA.

How much property do you have? 500 square feet in San Francisco, almost 5 acres in Washington.

Describe your antenna system: Current: 6m yagi at 78 feet, GXP 7 band (40m - 10m) yagi at 72 feet. Wire 4-squares on 80m and 160m, SAL-30 8 direction receive antenna. Extra C3 tribander, WARC tribander, 6m yagi, wires, ...

Future: No big changes planned. Its hard enough to keep everything working.

What's in your shack? Elecraft K3 and KPA1500. Automatic antenna switching, remote control of everything - including rotators, power supplies, computers... Also a Yaesu FTdx3000 I usually leave monitoring 6m toward the Pacific.

What are your previous QTH's? Operated for many years from W6YX Stanford University. Previously had home stations in Cupertino and Santa Clara.

If you're working, what is your career? If not, what was your career? Now retired, after 18 years as a Patent Attorney at Apple Computer, and before that 12 years of electrical engineering at NASA, National Semiconductor and Motorola.

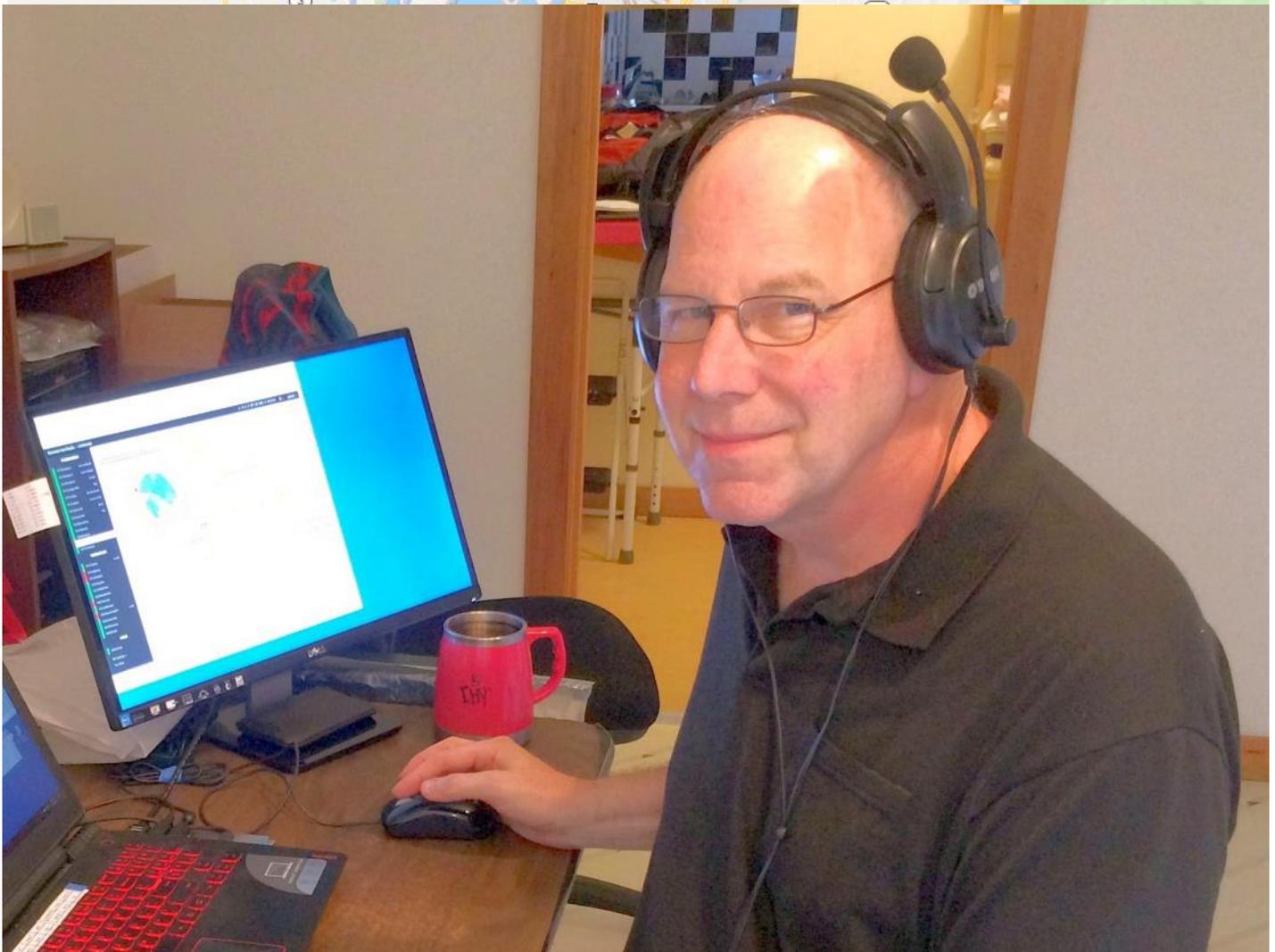
Married? Married to Gail, KB6EZB No kids, no grandkids.

How many DXCC entities have you worked? Mixed, all 340. Missing only Syria on Phone. Missing three on CW (Bouvet, Crozet, North Korea). The past 4 or 5 years I have been working on Digital DXCC and am up to 313. It got a lot harder over 300.

What's your favorite contest? NAQP contests and North American Sprints, RTTY or CW.

Any tips for contesters? I contest mostly as QRP. It helped me improve my skills faster, and I find more satisfaction with every successful contact.

Point Generator Profile – K6UFO
(Interviewed by Bob, W1RH)



Point Generator Profile – K6UFO
(Interviewed by Bob, W1RH)



Point Generator Profile – K6UFO
(Interviewed by Bob, W1RH)





Help Wanted!

NCCC is looking for an editor for the Jug. Our outgoing editor, W6TCP, having done a great job in the position, is ready to pass the baton to a new editor.

We thank Ian for all his work, and now seek someone to move the Jug into the future. What does the work entail?

As Ian puts it, the work is quite simple:

- Receive content from authors
- Build out the template (I use MS Publisher)
- When finished, create a PDF and send to K6MM (and Others)

The articles are created by various club members, and we work pretty hard to be on-time. As Ian notes, he uses MS Publisher on Windows. If you are a Mac user, you might consider using Pages or a page layout program.

Please contact W6FB or any of the BOD members for more info or to sign up for the position. We would really appreciate the help!

NCCC / N6RO Club BBQ



Jack-W6FB Bob-W6RC, Doug-WE6Z (Photo-AE6JV)



Ken-N6RO (Photo-AE6JV)

NCCC / N6RO Club BBQ



Gary-NA6O (Photo-NA6O)



Jim-K9YC (Photo-NA6O)

NCCC / N6RO Club BBQ



CW OP's Group at the BBQ (Photo-NA6O)



Ken-N6RO Joanna-K6YL Bill-N6ZFO (Photo-NA6O)

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 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.

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 secretary.nccc@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 secretary.nccc@gmail.com

Forthcoming NCCC Meetings

October 13th

Tony & Albas - San Jose

6:00 PM to 9:00 PM

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

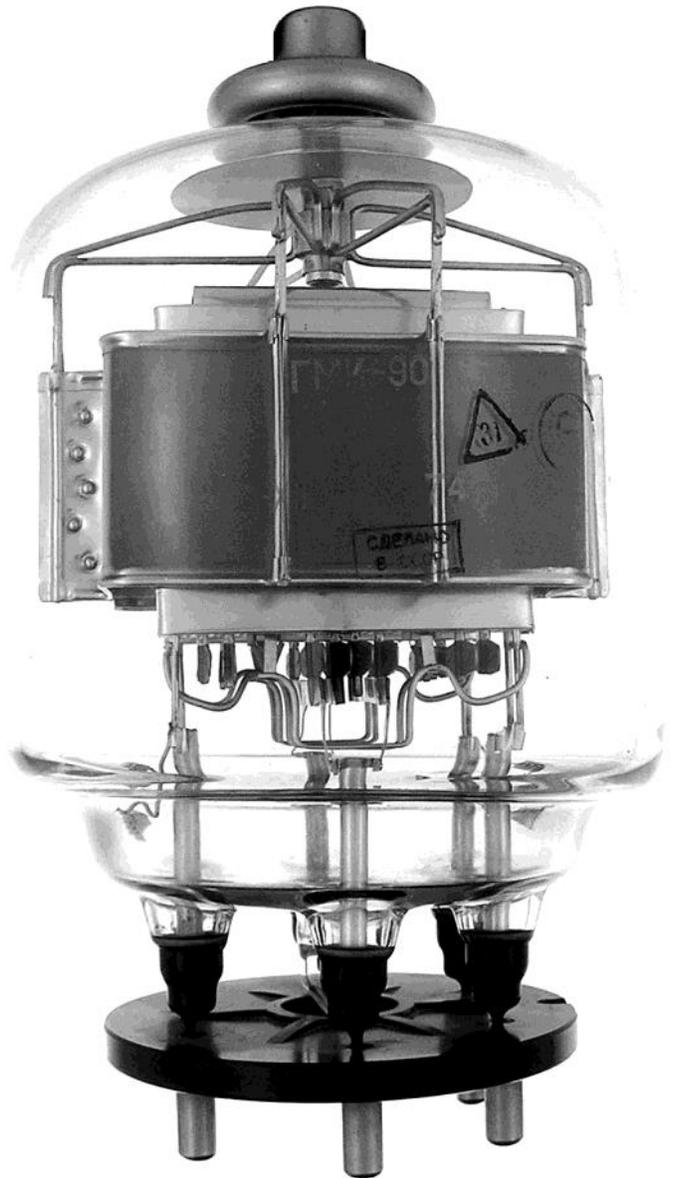
Norm, N6JV

Visit the Museum: www.n6jv.com

GMI-90 / ГМИ-90

The progressive development of early transmitting tubes was usually concerned with making more powerful tubes that would operate at higher frequencies. Shortening internal lead lengths and the minimalizing of element capacities allowed new tube generations to outperform their predecessors. As WWII approached, a need for special purpose tubes that would serve as high power switches became important. The operating plate voltage of a typical transmitting tube is much less than what the tube can actually withstand before corona breakdown. A standard 250TH triode has a maximum plate voltage of 4000 VDC for RF/AF amplifier service but can handle 25,000 volts as a switch.

Without the requirement of high frequency operation, new tubes were made that could handle the high voltage and current required to pulse modulate the new RADAR oscillators. Pulse tubes in the U.S. tended to look much like the standard transmitting types and were cosmetically pleasing. The Soviet Union wasn't into cosmetics as much as dependability and ease of construction. The GMI-90 or ГМИ-90 is a classic example. There are four separate grid assemblies with opposing surfaces of the plate. The plate is arranged like a maze to maximum dissipation and is spot welded together. This tube must withstand 33,000 volts so it has a large, anti-coronal, plate cap and a plate structure that is mounted very high in the envelope to give some distance from any metal.





Contest Calendar— October page 1

IQRP Quarterly Marathon	0800Z, Oct 1 to 2000Z, Oct 7
+ 222 MHz Fall Sprint	1900 local - 2300 local, Oct 1
+ Phone Fray	0230Z-0300Z, Oct 2
+ CWops Mini-CWT Test	1300Z-1400Z, Oct 2 and 1900Z-2000Z, Oct 2 and 0300Z-0400Z, Oct 3
+ UKEICC 80m Contest	2000Z-2100Z, Oct 2
+ German Telegraphy Contest	0700Z-1000Z, Oct 3
+ NRAU 10m Activity Contest	1700Z-1800Z, Oct 3 (CW) and 1800Z-1900Z, Oct 3 (SSB) and 1900Z-2000Z, Oct 3 (FM) and 2000Z-2100Z, Oct 3 (Dig)
+ SARL 80m QSO Party	1700Z-2000Z, Oct 3
+ SKCC Sprint Europe	1900Z-2100Z, Oct 3
+ NCCC RTTY Sprint	0145Z-0215Z, Oct 4
+ NCCC Sprint	0230Z-0300Z, Oct 4
+ TRC DX Contest	0600Z, Oct 5 to 1800Z, Oct 6
+ Oceania DX Contest, Phone	0800Z, Oct 5 to 0800Z, Oct 6
+ Russian WW Digital Contest	1200Z, Oct 5 to 1159Z, Oct 6
+ YLRL DX/NA YL Contest	1400Z, Oct 5 to 0200Z, Oct 7
+ IARU Region 1 UHF/Microwaves Contest	1400Z, Oct 5 to 1400Z, Oct 6
+ California QSO Party	1600Z, Oct 5 to 2200Z, Oct 6
+ International HELL-Contest	1600Z-1800Z, Oct 5 (80m) and 0900Z-1100Z, Oct 6 (40m)
+ FISTS Fall Slow Speed Sprint	1700Z-2100Z, Oct 5
+ SKCC QSO Party	1800Z, Oct 5 to 1800Z, Oct 6
+ RSGB DX Contest	0500Z-2300Z, Oct 6
+ UBA ON Contest, SSB	0600Z-0900Z, Oct 6
+ Peanut Power QRP Sprint	2200Z-2359Z, Oct 6
+ RSGB FT4 Contest Series	1900Z-1959Z, Oct 7
+ ARS Spartan Sprint	0100Z-0300Z, Oct 8
+ NAQCC CW Sprint	0030Z-0230Z, Oct 9
+ Phone Fray	0230Z-0300Z, Oct 9
+ CWops Mini-CWT Test	1300Z-1400Z, Oct 9 and 1900Z-2000Z, Oct 9 and 0300Z-0400Z, Oct 10
+ 432 MHz Fall Sprint	1900 local - 2300 local, Oct 9
+ 10-10 Int. 10-10 Day Sprint	0001Z-2359Z, Oct 10
+ NCCC RTTY Sprint	0145Z-0215Z, Oct 11
+ NCCC Sprint	0230Z-0300Z, Oct 11
+ QRP ARCI Fall QSO Party	0000Z-2359Z, Oct 12

+ Makrothen RTTY Contest	0000Z-0800Z, Oct 12 and 1600Z-2400Z, Oct 12 and 0800Z-1600Z, Oct 13
+ Nevada QSO Party	0300Z, Oct 12 to 2100Z, Oct 13
+ Oceania DX Contest, CW	0800Z, Oct 12 to 0800Z, Oct 13
+ Microwave Fall Sprint	0800 local - 1400 local, Oct 12
+ Scandinavian Activity Contest, SSB	1200Z, Oct 12 to 1200Z, Oct 13
+ SKCC Weekend Sprintathon	1200Z, Oct 12 to 2400Z, Oct 13
+ Arizona QSO Party	1600Z, Oct 12 to 0600Z, Oct 13 and 1400Z to 2400Z, Oct 13
+ Pennsylvania QSO Party	1600Z, Oct 12 to 0500Z, Oct 13 and 1300Z-2200Z, Oct 13
+ FISTS Fall Unlimited Sprint	1700Z-2100Z, Oct 12
+ South Dakota QSO Party	1800Z, Oct 12 to 1800Z, Oct 13
+ PODXS 070 Club 160m Great Pumpkin Sprint	2000Z, Oct 12 to 2000Z, Oct 13
+ UBA ON Contest, CW	0530Z-0800Z, Oct 13
+ UBA ON Contest, 6m	0800Z-1000Z, Oct 13
+ 4 States QRP Group Second Sunday Sprint	0000Z-0200Z, Oct 14
+ RSGB 80m Autumn Series, CW	1900Z-2030Z, Oct 14
+ Phone Fray	0230Z-0300Z, Oct 16
+ CWops Mini-CWT Test	1300Z-1400Z, Oct 16 and 1900Z-2000Z, Oct 16 and 0300Z-0400Z, Oct 17
+ AGCW Semi-Automatic Key Evening	1900Z-2030Z, Oct 17
+ NCCC RTTY Sprint	0145Z-0215Z, Oct 18
+ NCCC Sprint	0230Z-0300Z, Oct 18
+ Zombie Shuffle	1600-2400 local, Oct 18
+ Araucaria World Wide VHF Contest	0000Z, Oct 19 to 1600Z, Oct 20
+ ARRL EME Contest	0000Z, Oct 19 to 2359Z, Oct 20
+ JARTS WW RTTY Contest	0000Z, Oct 19 to 2400Z, Oct 20
+ 10-10 Int. Fall Contest, CW	0001Z, Oct 19 to 2359Z, Oct 20
+ New York QSO Party	1400Z, Oct 19 to 0200Z, Oct 20
+ Stew Perry Topband Challenge	1500Z, Oct 19 to 1500Z, Oct 20
+ Worked All Germany Contest	1500Z, Oct 19 to 1459Z, Oct 20
+ Feld Hell Sprint	2000Z-2359Z, Oct 19
+ Argentina National 7 MHz Contest	2130Z-2230Z, Oct 19
+ Asia-Pacific Fall Sprint, CW	0000Z-0200Z, Oct 20
+ UBA ON Contest, 2m	0700Z-1000Z, Oct 20
+ Illinois QSO Party	1700Z, Oct 20 to 0100Z, Oct 21
+ RSGB RoLo CW	1900Z-2030Z, Oct 20
+ Run for the Bacon QRP Contest	0100Z-0300Z, Oct 21
+ ARRL School Club Roundup	1300Z, Oct 21 to 2359Z, Oct 25



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 Jack, W6FB at jackbrindle@me.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
2M/440 5W HT

5 Ways to Shop!

- RETAIL LOCATIONS - Store hours 10:00AM - 5:30PM - Closed Sunday
- PHONE - Toll-free phone hours 9:30AM - 5:30PM
- ONLINE - WWW.HAMRADIO.COM
- FAX - All store locations
- MAIL - All store locations

MRO is family owned and operated by active hams!

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