



Inside this Issue:

	Page
Presidents Report	3
Point Generator Profile—K6MR	5
Tube of the Month	12
NCCC Dues	13
VP/CC	14
Next Meeting	15
NCCC BBQ	16
CQP	24
Burgers Dogs and Friends	25
Contest Calendar	26
HRO	29

California QSO Party

50th Running Of The CQP!

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

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

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

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

NCCC/REDXA/MLDXCC Meeting

Saturday 31st October

Location:-

4163 Suisun Valley Road
Fairfield, CA 94534

Program:

- Paul N6PSE - "DXpedition to Eritrea E30FB"
- John K6MM - "Ham Radio: The Light Side. Why We Do... What We Do"

See [page 15](#) for full details





Officers:

President	Bob Hess	W1RH	w1rh@yahoo.com
Vice President /Contest Chair	Steve Dyer	W1SRD	w1srd@arrl.net
Treasurer	Dick Wilson	K6LRN	treasurer.nccc@gmail.com
Secretary	Joanna Dilley	K6YL	secretary.nccc@gmail.com
Past President	Rick Karlquist,	N6RK	richard@karlquist.com
Director	Rusty Epps	W6OAT	w6oat@sbcglobal.net
Director:	Rich Cutler	WC6H	wc6h@yahoo.com
Director:	Ron Castro	N6IE	ronc@sonic.net

Volunteers:

New Member Mentor	Al Rendon	WT6K	wt6k@arrl.net
Charter Member	Rusty Epps	W6OAT	w6oat@sbcglobal.net
Awards Chair	Joanna Dilley	K6YL	joanna.k6yl@gmail.com
CQP Chair	Kevin Rowett	K6TD	k6td@arrl.net
CQP Certificates	John Miller	K6MM	k6mm@arrl.net
K6ZM QSL Manager	George Daughters	K6GT	k6gt@arrl.net
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	Chris Hoffman	KG6O	choffma@gmail.com
JUG Editor	Ian Parker	W6TCP	w6tcpian@gmail.com
jug@nccc.cc	Fred Jensen	K6DGW	k6dgw@arrl.net
	David Ashworth	NC6P	nc6p@yahoo.com



NCCC Net

Thursday 8 PM
 Freq: 3.610 +/-

NCCC

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

NCCC Membership Information

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

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

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

President's Report

Hello KB'ers!

I was reading the contest column in CQ magazine the other day (I'm about two years behind in my reading, so it certainly wasn't the most recent issue!) and the author mentioned that the contest season was about to start.....with CQWW SSB.

NOT!!

I thought to myself.....a typical East Coast mentality. Been there, done that, got the wallpaper. I suppose it could have had something to do with the fact that he was writing for CQ magazine, but this really is the mentality on the East Coast.

But, here in California, we all know when the contest season starts and that would be the first weekend in October!

I have really come to look forward to the California QSO Party. I made a few CQP Q's when I was on the East Coast, but I really never got into this contest until I moved back to W6 land.

For some of you, it's Field Day in October. For others, it's really the first big-station contest of the year where you put that new amp or antenna to the test for the first time. Many, many others have caught the contest bug by playing around in CQP.

Whether you're going for a plaque, some of WK6I's Twisted Oak wine, or just playing around, do get on the air. This is the best QSO party in the country and we're the sponsoring club. Support NCCC and have fun on the air!

Thanks to K6TD and the folks on the CQP50 committee for making CQP's 50th year a very special contest this year.

I want to point out something that our past Board did, which will have a long-term positive ramifications for our club for years to come.

The past Board initiated a Bylaws change to separate the positions of Secretary and Treasurer. While, on the surface, it may have appeared to be a lot ado about nothing, this Bylaws change will, indeed, have a very positive effect on the Club. Our past Board, consisting of N6RK (President), N6NUL (VP), K6EU (Secretary/Treasurer), K6SRZ (past Prez), and N3ZZ, N6IE, K6GHA (Directors) should be thanked for doing something that should have been done a long time ago.

As someone who has not been on the NCCC Board until this year, I have been absolutely astounded at the amount of work that is required by the Secretary and Treasurer. When these positions were combined, the Secretary/Treasurer position required someone who had to be absolutely immersed in the job and probably didn't have the time to really do the job the way he or she felt it should have been done. I saw the benefits of what Tom (K6EU) did in his term as Treasurer and he sure has my respect; likewise with other past Secretary/Treasurer's.

So, KB'ers, we now have two fantastic Board members who can now be really focused on their positions and still have time to spend with their spouses. Joanna (K6YL), who also does the Club's awards program, is doing an awesome job as Secretary. As a result, those of you who have voluntarily paid dues have been thanked and those who haven't have been sent gentle reminders. Joanna has really helped out with meeting arrangements, and she's been cleaning up the membership roster. Dick (K6LRN) has been focusing on just the money, as a Treasurer should. The recent BBQ, with all costs covered by the Club's treasury, wouldn't have happened without Dick's analysis of NCCC's financial health.

Thank you, past Board, for a job well done!

Once CQP50 is past us, it will be time to think about Sweepstakes. We're not going to enter as NCCC this year, however, but we're going to encourage everyone to get on and go for an individual award, or support your local club, such as MLDXCC, REDXA, or PL259. If you have never participated in SS, this is the time to get a taste of the contest because, in 2016, NCCC wants to go for a serious club effort in Sweepstakes. SS-2015 will be the year for one of the clubs to win in the Local or Medium Club category. SS-2016 will be NCCC's year to shine. As Steve says, in his VP article this month, what we – the Northern California Contest Club – want to see in 2015 is the total log count, from our members to exceed the total log count for PVRC.

Let me elaborate on that last point.

In 2014, PVRC had a total of 277 logs submitted for SS. NCCC had 179. SMC had 171.

Our goal, as NCCC, is to see well over 200 of our members active in SS this year, but also supporting MLDXCC, REDXA or PL259. If we can get over 200 on the air this year, some getting their first taste of SS, or perhaps their first taste of the CW or SSB weekend, then we'll consider that a win and encouragement for a serious drive to win the gavel in 2016. In SS, it's all about the number of logs submitted.

The contest that we're really going to get serious about in the next few months is the RTTY Round-up. I think those who have participated in RTTY contests will tell you that it truly is one of the really fun contest modes.....once you learn how to set your station up. We're out for a RTTY RU win, and to do that we need our members on the air. For those of you have haven't done RTTY in the past, we're going to be forming teams to help you get on the air. There will be more to come on this, so stay tuned.

It was really nice to see the big turnout at what I hope will be the first of many annual NCCC BBQ's. This was a lot of fun and, as I've heard from so many of our members, "fun" has been something that we need to see a bit more of in the club. Hopefully, we'll be doing the same thing next year, but in a different part of our 175 mile circle. Thanks to N6TV for capturing the moment(s)!

Point Generator Profile

If you look at the NCCC scores page, you will find little or nothing from Ken, K6MR, until late 2014. Ken has come back into contesting, from out of nowhere, and with a vengeance!

Take a look at Ken's numbers in 2015:

2014 SSCW – **1042** Q's – 172,972 points
2014 SSSSB – **1373** Q's – 400,890 points
2015 CQWW RTTY WPX – **753** Q's – 708,968 points
2015 RTTY RU - **1061** Q's – 92,307 Points
2015 Jan NAQP CW – **895** Q's – 182,580 points
2015 Feb NAQP RTTY – **623** Q's – 114,632 points
2015 July NAQP RTTY – **580** Q's – 81,200 points

It's easy to see that Ken is going to be a serious point generator for NCCC, and a triple threat, proficient in CW, SSB and RTTY.

So, for those who don't know, who is K6MR? Learn more about Ken from our Point Generator Profile, below:

Name/Call Sign: Ken Beals K6MR

Past calls: WB6VFJ

Location: Igo, southwestern Shasta county

How much property do you have? 20 acres, about 10 usable.

Describe your antenna system: Yagis 40 – 10, 2 el quad on 80 (switchable E/W), 115 ft. vertical for 160.

Current: XM-240, F12 5 el 20, F12 6 el 15, F12 15/10 duoband .

Future: convert XM-240 to W6NL Moxon, put up F12 7 el 10 that is on the ground. Put the C4XLS on a third tower for a multiplier antenna.

What's in your shack? 2x K3/P3/KPA500/KAT500, u2R, homebuilt SO2R filters and antenna controls.

What are your previous QTH's? San Fernando Valley, Palmdale, Santa Maria, Chico, Sunnyvale, Rohnert Park (although I was not active in most of those places).

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

Retired. Did antenna work in the L.A. area with W6HX in the early 1970s. Xerox tech for a while, then went back to school and did microwave test/communications engineering. Licensed California P.E.

Married? Kids? Grandkids? Married, no kids. My wife has a huge family.

How many DXCC entities have you worked? Not a clue. I don't count them.

What's your favorite contest? Sprints, RTTY/CW. Phone not so much. Love weekly NS sessions and CWTs.

Any tips for contesters? I'm still catching up after 35 years of inactivity, so the best I can offer is never stop asking questions. Contesters are eager to help.

What would you like to see changed in NCCC? Can't think of anything. I really appreciate the WebEx sessions for meetings, so that was a great addition.

Any other hobbies besides ham radio? Airplanes, although I have not done any flying for about 10 years. Good thing the licenses don't expire.













TUBE OF THE MONTH

Visit the museum at N6JV.com

Norm N6JV

304TL

In about 1938, Eimac was experimenting with making more powerful tubes by paralleling two or more smaller tubes they already had in production. The variation between tubes was very small so parallel operation wasn't a problem. The 304T was made from four of the 75T triodes. I don't think it was a big sales success at the time, but early in WWII with the military need for powerful tubes, mass production of the now designated 304TL had started. Several pieces of equipment used the 304TL, but it made a good pulse modulator for early RADARs and eventually hundreds of thousands of these tubes were made.

After WWII, these tubes flooded the surplus market. Thousands were broken up to get the grid material. In early versions, the grids were made from a platinum alloy. Hams could buy them for less than a dollar to power their KW amps. With the popularity of grounded grid amplifiers in SSB service, the 304TL became the source of many construction articles in ham magazines. The example shown is the earliest version of the 304T.



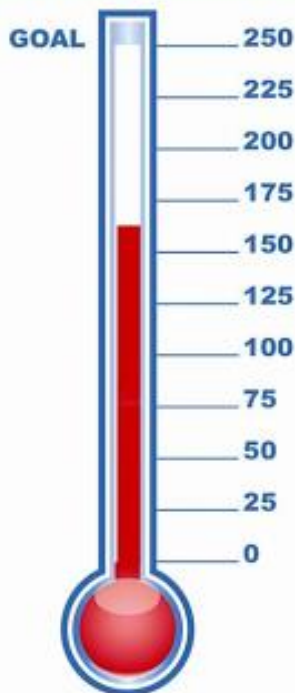
IT'S JUST TWO BUCKS PER MONTH!

Although we are a dues-optional club, you can still join those who have already contributed to our goal of 250 paid members in 2016

Your dues support our awards program, our activities like the summer BBQ, club insurance, CQP promotion, this year's CQP50 special awards, and possibly future costs to bring in premier speaker from outside our area.

AA6K
AD6E
AE6Y
AI6II
AJ6T
AJ6V
K0BEE
K0HAY
K3FIV
K5RC
K6CSL
K6CTA
K6DGW
K6DN
K6EL
K6ELE
K6ESL
K6EU
K6GHA
K6JEB
K6JJ
K6KNS
K6KO
K6KQV
K6LRN
K6ME
K6MM
K6MMU
K6MP
K6MR
K6NV
K6OK
K6RB
K6RBT
K6RIM
K6TA
K6TD
K6TIG
K6TKD
K6TT
K6UFO
K6UM
K6XV

K6XX
K6YL
K7AFD
K7VC
KD6AKQ
KD6WKY
KE6PPE
KE6TIM
KE7EVV
KE8FT
KG6YPH
KH2TJ
KI6OY
KI6P
KK6L
KM6G
KM6I
KO6JF
KR6N
KU7Y
KW6S
KX7M
KZ2V
N0NKJ
N2NS
N3RC
N3ZZ
N5KO
N6BV
N6CCL
N6DE
N6DQ
N6DZR
N6EE
N6GEO
N6IE
N6JV
N6KT
N6NUL
N6NZ
N6ORB
N6RK
N6RNO



N6RO
N6SJ
N6TV
N6VV
N6WM
N6XG
N6XI
N7MH
N7TR
N7TW
NA6O
NC6RJ
NI6T
NR6Q
NS6T
NW6P
W0YK
W1RH
W1SRD
W4NJK
W6BBS
W6CT
W6CZ
W6DPD
W6EO
W6FDU
W6GJB
W6JJW
W6JTI
W6KR
W6LD
W6NEV
W6OAT
W6OPO
W6PK
W6RGG
W6RKC
W6SR
W6SX
W6SZN
W6XB
W6XU
W8NF

WA5ZNU
WA6ST
WA6ZTY
WB6JJ
WC6H
WD6EIW
WE6Z
WK6I
WT6K
WZ6Z
K6GFJ
K6GT
K6MLF
K6OWL
K9YC
KH6GJV
KH6LC
KI6WDX
N6DB
N6JS
N6ZFO
WJ6O
WX5S
AD6GI
K6RM
K6TKM
DJ0QN
K7DX
W6MSF
NK7U
VY1JA

VP/CC Report

Greeting KB'ers. Myself and several of our fellow NCCC members are off to Chesterfield Island so we will be missing CQP. Have fun and put on a big showing to celebrate the 50th!

Also, look for TX3X. We'll be listening for you.

SS will be here in no time. I've seen several emails on the reflector about wins in several sections and categories. Congratulations to all and let's carry that great feeling forward to this year!

Since NCCC is not going for it this year in SS, please support both the local clubs that are trying to win their categories and most importantly get on and support the individual members that are trying to WIN.

Personally, I'll be looking to get more NCCC members in the log this year than PVRC members.

If you can just get on a few hours, please make it Saturday night on 40m or 80m and support the team.

We will be sending out notices and plans for rally times before SS CW.

73 es KB!

Steve, W1SRD

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.

Joint NCCC, MLDXCC & REDXA Meeting

Guests are always welcome - Please join us.

Saturday 31st October

Location:-

Rockville Corners
4163 Suisun Valley Road
Fairfield, CA 94534
(707) 864-4325
www.salvioattherock.com



Lunchtime

Program:

- Paul N6PSE - "DXpedition to Eritrea E30FB" with an update on the upcoming "VP8STI/VP8SGI DXpedition"
- John K6MM - "Ham Radio: The Light Side. Why We Do... What We Do"

RSVP & PAYMENT:

RSVP will be required and we'll be collecting money for this event.
Menu and pricing tbd.

Send your RSVP's to Secretary.NCCC@gmail.com.

NCCC Barbecue - Sept 19th

Pictures by Bob N6TV



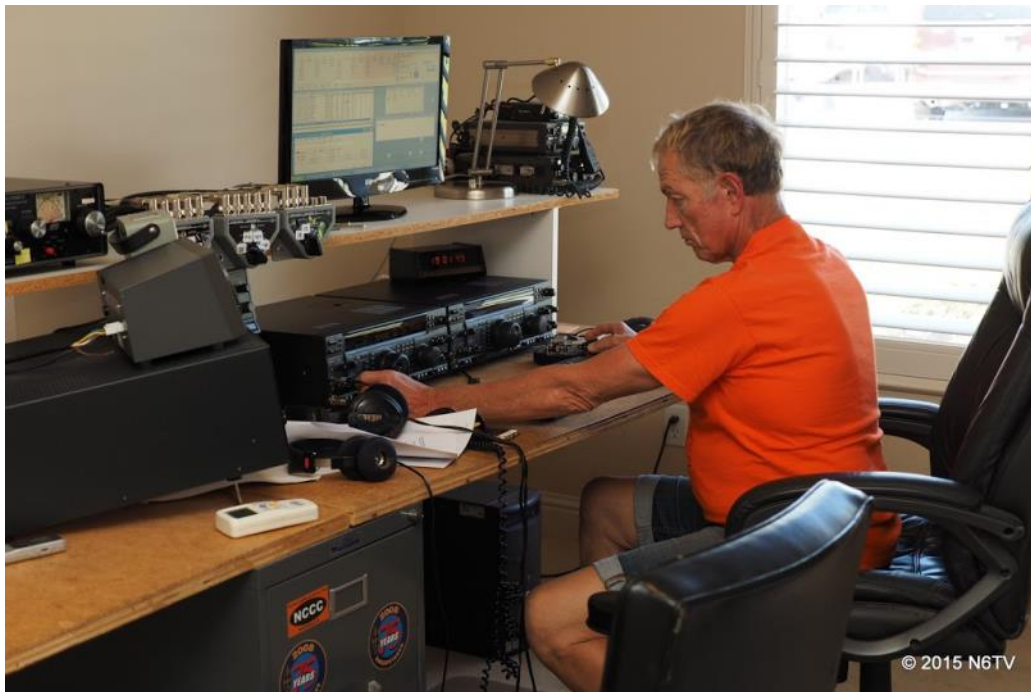
QTH of WC6H, Host of the BBQ



WC6H and Anja



W6SR, K6LRN, K6SRZ, W6RD



N6DQ operating WC6H



K6BEW, WK6I, K6SCA, KG6SVF



NCCC President W1RH



K6SRZ



Dickey's BBQ -- great chow!



K9YC



MLDXCC crew



N6LHL, K6DGQ, K6LR



KB6IBX, W6RGG



WB6BET, K16YYT



K6YL, N6DQ



K6AAM/9A2AW and XYL

California QSO Party

50th Running Of The CQP!

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

Background

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

Work The 1x1 "GOLD RUSH" Callsigns

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

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

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

To qualify for a Commemorative Coin you must:

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

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

2. Log a total of at least 150 QSOs

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

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

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

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

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

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

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

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

Date: Sunday, October 11, 2014

Time: 11:00 AM until folks leave

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

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

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

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

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

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

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

73,
Rick N6XI and Ann KD6MOB



Contest Calendar— October page 1

NRAU 10m Activity Contest	1700Z-1800Z, Oct 1 (CW) and 1800Z-1900Z, Oct 1 (SSB) and 1900Z-2000Z, Oct 1 (FM) and 2000Z-2100Z, Oct 1 (Dig)
SARL 80m QSO Party	1700Z-2000Z, Oct 1
NCCC Sprint	0230Z-0300Z, Oct 2
YLRL DX/NA YL Anniversary Contest	1400Z, Oct 2 to 0200Z, Oct 4
TARA PSK Rumble Contest	0000Z-2400Z, Oct 3
15-Meter SSTV Dash Contest	0000Z, Oct 3 to 2359Z, Oct 4
German Telegraphy Contest	0700Z-1000Z, Oct 3
Oceania DX Contest, Phone	0800Z, Oct 3 to 0800Z, Oct 4
GTC CW Cup	1200Z, Oct 3 to 1200Z, Oct 4
Russian WW Digital Contest	1200Z, Oct 3 to 1159Z, Oct 4
TRC DX Contest	1200Z, Oct 3 to 1200Z, Oct 4
International HELL-Contest	1600Z-1800Z, Oct 3 (80m) and 0900Z-1100Z, Oct 4 (40m)
California QSO Party	1600Z, Oct 3 to 2200Z, Oct 4
4 State 4x4 QRP Sprint	1700Z-2100Z, Oct 3
FISTS Fall Slow Speed Sprint	1700Z-2100Z, Oct 3
WAB HF Phone	1900Z, Oct 3 to 1900Z, Oct 4
UBA ON Contest, SSB	0600Z-1000Z, Oct 4
RSGB 21/28 MHz Contest	0700Z-1900Z, Oct 4
ARS Spartan Sprint	0100Z-0300Z, Oct 6
Phone Fray	0230Z-0300Z, Oct 7
CWops Mini-CWT Test	1300Z-1400Z, Oct 7 and 1900Z-2000Z, Oct 7 and 0300Z-0400Z, Oct 8
432 MHz Fall Sprint	1900 local - 2300 local, Oct 7
UKEICC 80m Contest	2000Z-2100Z, Oct 7
NCCC RTTY Sprint Ladder	0145Z-0215Z, Oct 9



Contest Calendar— October page 2

NCCC Sprint	0230Z-0300Z, Oct 9
Makrothen RTTY Contest	0000Z-0759Z, Oct 10 and 1600Z-2359Z, Oct 10 and 0800Z-1559Z, Oct 11
10-10 Int. 10-10 Day Sprint	0001Z-2359Z, Oct 10
Microwave Fall Sprint	0700 local - 1400 local, Oct 10
Oceania DX Contest, CW	0800Z, Oct 10 to 0800Z, Oct 11
SKCC Weekend Sprintathon	1200Z, Oct 10 to 2400Z, Oct 11
QRP ARCI Fall QSO Party	1200Z, Oct 10 to 2359Z, Oct 11
Scandinavian Activity Contest, SSB	1200Z, Oct 10 to 1200Z, Oct 11
Arizona QSO Party	1600Z, Oct 10 to 0600Z, Oct 11 and 1400Z-2359Z, Oct 11
Pennsylvania QSO Party	1600Z, Oct 10 to 0500Z, Oct 11 and 1300Z-2200Z, Oct 11
FISTS Fall Unlimited Sprint	1700Z-2100Z, Oct 10
PODXS 070 Club 160m Great Pumpkin Sprint	2000 local, Oct 10 to 0200 local, Oct 11
UBA ON Contest, CW	0600Z-0900Z, Oct 11
NAQCC CW Sprint	0030Z-0230Z, Oct 14
Phone Fray	0230Z-0300Z, Oct 14
CWops Mini-CWT Test	1300Z-1400Z, Oct 14 and 1900Z-2000Z, Oct 14 and 0300Z-0400Z, Oct 15
RSGB 80m Club Sprint, CW	1900Z-2000Z, Oct 14
NCCC RTTY Sprint	0145Z-0215Z, Oct 16
NCCC Sprint	0230Z-0300Z, Oct 16
JARTS WW RTTY Contest	0000Z, Oct 17 to 2400Z, Oct 18
10-10 Int. Fall Contest, CW	0001Z, Oct 17 to 2359Z, Oct 18
Iowa QSO Party	1400Z-2300Z, Oct 17
New York QSO Party	1400Z, Oct 17 to 0200Z, Oct 18
Worked All Germany Contest	1500Z, Oct 17 to 1459Z, Oct 18



Contest Calendar— October Page 3

Stew Perry Topband Challenge	1500Z, Oct 17 to 1500Z, Oct 18
Telephone Pioneers QSO Party	1700Z-2100Z, Oct 17 (CW/Digital) and 2300Z, Oct 17 to 0300Z, Oct 18 (Phone) and 1700Z-2100Z, Oct 18 (Phone) and 2300Z, Oct 18 to 0300Z, Oct 19 (CW/Digital)
South Dakota QSO Party	1800Z, Oct 17 to 1800Z, Oct 18
Feld HELL Sprint	2000Z-2159Z, Oct 17
Asia-Pacific Fall Sprint, CW	0000Z-0200Z, Oct 18
UBA ON Contest, 2m	0600Z-1000Z, Oct 18
Illinois QSO Party	1700Z, Oct 18 to 0100Z, Oct 19
Run for the Bacon QRP Contest	0100Z-0300Z, Oct 19
ARRL School Club Roundup	1300Z, Oct 19 to 2359Z, Oct 23
Phone Fray	0230Z-0300Z, Oct 21
CWops Mini-CWT Test	1300Z-1400Z, Oct 21 and 1900Z-2000Z, Oct 21 and 0300Z-0400Z, Oct 22
NCCC RTTY Sprint	0145Z-0215Z, Oct 23
NCCC Sprint	0230Z-0300Z, Oct 23
CQ Worldwide DX Contest, SSB	0000Z, Oct 24 to 2400Z, Oct 25
SKCC Sprint	0000Z-0200Z, Oct 28
Phone Fray	0230Z-0300Z, Oct 28
CWops Mini-CWT Test	1300Z-1400Z, Oct 28 and 1900Z-2000Z, Oct 28 and 0300Z-0400Z, Oct 29
UKEICC 80m Contest	2000Z-2100Z, Oct 28
RSGB 80m Club Sprint, SSB	1900Z-2000Z, Oct 29
NCCC RTTY Sprint	0145Z-0215Z, Oct 30
NCCC Sprint	0230Z-0300Z, Oct 30
Feld HELL Sprint	0000Z-2359Z, Oct 31
ARRL EME Contest	0000Z, Oct 31 to 2359Z, Nov 1
Russian WW MultiMode Contest	1200Z, Oct 31 to 1159Z, Nov 1

HAM RADIO OUTLET

14 STORE BUYING POWER!

ICOM



IC-7600 | All Mode Transceiver

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



IC-7200 | HF Transceiver

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



IC-7100 | All Mode Transceiver

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



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

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

ID-51A | VHF/UHF Dual Band Transceiver

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



TH-F6A | 2M/220/440

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

KENWOOD



TS-590SG | HF/50MHz Transceiver

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



TM-D710G | 2M/440 Dualband

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



TM-V71A | 2M/440 Dualband

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



TM-281A | 2 Mtr Mobile

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



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

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

YAESU
The radio



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

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



FTDX1200 | 100W HF + 6M Transceiver

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



FT-450D | A100W HF + 6M Transceiver

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



FTM-400DR | 2M/440 Mobile

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



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

ANAHEIM, CA
(800) 854-6046

OAKLAND, CA
(877) 892-1745

SUNNYVALE, CA
(877) 892-1749

PORTLAND, OR
(800) 765-4267

PHOENIX, AZ
(800) 559-7388

WOODBRIIDGE, VA
(800) 444-4799

PLANO, TX
(877) 455-8750

BURBANK, CA
(877) 892-1748

SAN DIEGO, CA
(877) 520-9623

NEW CASTLE, DE
(800) 644-4476

DENVER, CO
(800) 444-9476

ATLANTA, GA
(800) 444-7927

SALEM, NH
(800) 444-0047

ONLINE STORE
WWW.HAMRADIO.COM

Contact HRO for promotion details. Toll-free including Hawaii, Alaska and Canada. Call will be routed to the nearest store. All HRO 800-lines can assist you. If the first line you call is busy, you may call another. AZ, CA, CO, GA, VA residents add sales tax. Prices, specifications and descriptions subject to change without notice.

New Store!