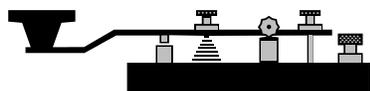


NAQCC NEWS

ISSUE 263 • MAY 2020



KEY CLICKS

• NAQCC 16TH ANNIVERSARY

Planning continues for our NAQCC 16th Anniversary celebration the week of October 11. Special event stations will put N3A/# on the air from locations all over the country, and we will start to call for volunteer operators for this next month. Of course a big part of our celebration each year are the special anniversary sprint and monthly challenge, with their associated prize drawings.

We usually don't reveal the prize list ahead of time but we want to whet your appetite with just a little peek. Thanks to the generosity of **Ryan Draughn, KK4JXZ, of LNR Precision Inc.**, one of the prizes that we will be giving away is the brand new **MTR3b LCD Mountain Topper** portable QRP transceiver! See https://www.lnrprecision.com/store/MTR3b_LCD-Mountain-Topper-p115660359 for information about this great little rig.

Please remember that there is a throughout-the-year participation requirement to be eligible for the best prizes. See http://www.naqcc.info/prize_drawing_16th_anniv.html for drawing details. For more information about our celebration, and to see summary reports from previous years, go to http://www.naqcc.info/main_n3a.html.

• NOTA HITS 100 SPRINTS.

John, N0TA, participated in his 100th regular monthly sprint in April joining 24 other members who have achieved this excellent mark. You can see the complete list on our prizes page at http://www.naqcc.info/main_giveaways.html.

• NEW 1-LAND QRS NET

We are excited to announce that Ed—K1RID, Member #7121—is starting a new QRS net for the New England ("1-Land") area beginning this month! This net will be held monthly on the second Sunday of each month at 8 PM EDT. Please look for K1RID on 80m (near 3560 or 3565 kHz) and check in. Additional net details can be found in the Nets section of the newsletter. Thanks Ed for taking this on. If you are interested in starting a net in your area, please contact our Net Manager.

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- **THANK YOU FOR THE DONATIONS!**

A big “THANK YOU” goes out to everyone who has made a recent donation to the NAQCC treasury. The NAQCC has no membership dues and we depend on your generous donations to cover our operating expenses. If others would like to help out with a donation there are two ways that you can do it. The first way is to use PayPal to electronically send your contribution to Club Treasurer Jerry Pereira, K4KBL, using the special address “naqcc3 [AT] gmail [DOT] com.” Squeeze those two words into the standard symbols. To avoid any additional fees please be sure to check the box that says “I’m sending money to family or friends.”

Also please add a note indicating that this is a donation to the NAQCC and include your email address, name, and call sign. The second way to make a donation is to mail a check or money order made out to The North American QRP CW Club and send it to Jerry Pereira, 778 Brentway Ct., Lilburn, GA 30047. Please include your name, call, and membership number with your donation and a separate email as a double check would be helpful. Assuming that we have your correct email address on file, your contribution will be acknowledged by email with a carbon copy sent to a second club officer as a “check and balance.

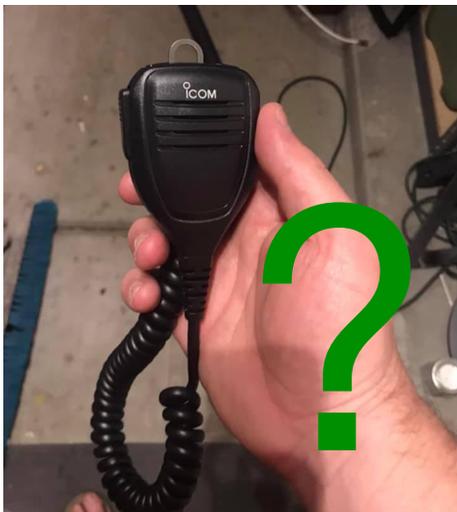
- **NEW EDITOR**

Paul N8XMS has done a great job wrangling this newsletter since NAQCC was a wee club. Now he's taking a well-deserved retirement, so keep sending those articles and submissions to the 'other' Paul, KD2MX and re-direct your complaints and comments to Brent WT4U.

- **10,314 MEMBERS AND GROWING**

NAQCC is growing at a pretty good clip with new members signing up almost every day thanks to you spreading the word. New members say they heard about NAQCC from blogs, newsletters, web searches, magazines, podcasts, and—my favorite—QSOs and conversations with members.

FIND A USE FOR THIS MYSTERY PART



Ryan KI7RS opened up his new 7300 and found this weird item in the box that doesn't seem to serve any purpose. A paperweight? Yo-Yo? Trash bag tie wrap?

If you figure out what he can do with it, have found a use for a similar object, or if you've seen one in the wild, please let us know in words and/or pictures.

Send your ideas to Member Submissions Manager, Paul KD2MX at kd2mx@arrl.net and we'll print the best suggestions in a future newsletter.

THE PREZ SEZ...

Greetings NAQCC Members!

I think everyone would agree that most of March and all of April were, “different” across the country and the world. With that said, it is my sincere wish that you and your loved ones are doing OK and have not been deeply impacted by the pandemic. Take care of yourself!

As of this writing (Saturday, May 2) the web page group lead by Ron AG1P started the dialog to work on a new and improved web presence. Best of luck and thanks to those folks who are expending the effort to make it “better.”

I have completed the initial documents for moving towards a non-profit organizational status for the Club. Once I have the Board of Directors positions filled and the approval of the documents, I will provide the Articles of Incorporation, By-Laws, and Board listings to all of our members by posting a copy on the website and publishing them in this Newsletter.

Under the By-Laws, NAQCC’s Board of Director will be staffed with: President, Vice-President, Treasurer, Secretary and 5 regional directors (a total of 9 members). I am looking for members to fill open positions as officers and directors as follows:

- Vice-President (any member regardless of QTH)
- Secretary (any member regardless of QTH)
- NE Region Director (any member from any of the 14 US States of: ME, VT, NH, MA, RI, CT, NY, NJ, DE, MD, PA, OH, MI, IN)

- SE Region Director (any member from any of the 10 US States and 2 US Possessions of: WV, PR, VI, KY, VA, TN, NC, SC, GA, FL, AL, MS)
- Central Region Director (any member from any of the 13 US States of MN, IA, WI, IL, MO, AR, LA, ND, SD, NE, KS, OK, TX)
- Canadian Region (any member from Canada)

The terms of office are three years; there is no travel required (so far only an annual meeting in April is scheduled and it will be done by teleconference or electronically); there are no costs associated with being a board member.

If you are interested in applying for one of these positions, please send me an e-mail with your request for appointment and a short bio of your background. The only requirement is that you are a member of NAQCC.

That’s it for now — Stay safe and healthy, and get radio-active!

72/73!
Steve Szabo WB4OMM #5913
NAQCC President



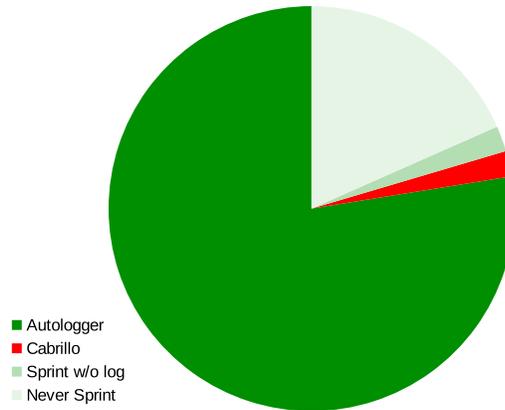
A little bit of QRP on a wire goes a long way!



MEMBER POLLS

APRIL POLL

“Working the Sprint is fun, but do you upload your log? We would like to find out if you do, and if you don't, why not?”

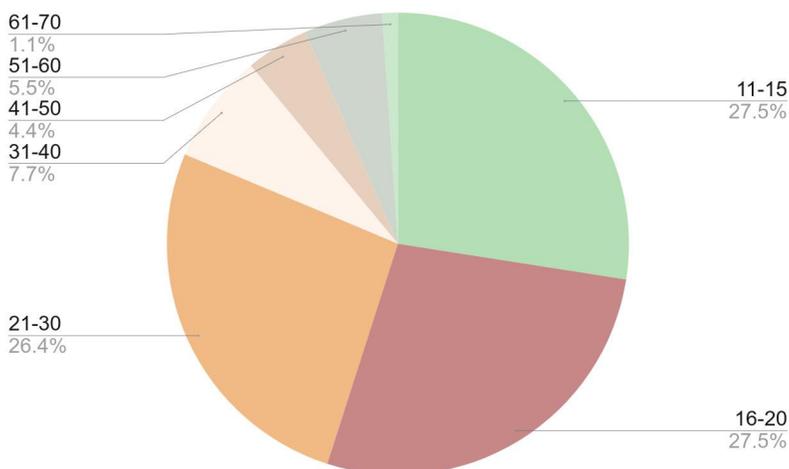


Results	%	Nr
I always upload my Sprint log using the online Autologger	76%	38
I don't upload my Sprint log, but I would if I could submit a Cabrillo formatted log	2%	1
I don't upload my Sprint log, but I would if I could submit an ADIF formatted log	0%	0
I participate in the Sprints, but never upload a log, just don't wanna'.	2%	1
I never participate in the Sprints.	18%	9
What's a log??? (I hope no one votes for this!! Hi hi hi!)	0%	0

MAY POLL

“With this Pandemic affecting everyone, and with the 'Stay at Home'... Avoid Parks (or are Closed Anyway!) Are you utilizing your 'Stay at Home in the Shack' for QRP CW whenever possible? Great Way to ward off any boredom... and keep your skills sharp!”

Let us know what you think: http://naqcc.info/poll_new.html



OLD POLL

About 10 years ago we asked NAQCC members:

“How old were you when you got your FIRST ham radio license?”



THE XIEGU G90S INITIAL IMPRESSIONS

BY RICH, KC3MIO, #9942

Like many hams, I was looking forward to the arrival of the Icom 705 and put my deposit down to get in line. But indications of a price above \$1,000 and repeated delays in its release date made me reconsider and conclude “maybe next year.”



I have a Mountaintopper MTR-5B and its four watts have provided some QRP adventures on my desktop, on my deck, and on the road in our RV. I was looking for a portable rig that would provide a bit more power, SSB and other options. I was on the lookout for a used Elecraft K2, but hadn't found a suitable one. Earlier in April, I worked an op in Texas with my MTR-5B, but the QSO broke up fairly quickly. I followed up with an email and he responded that he lost me in the noise and that he was running 15 watts with a Xiegu G90. I asked how he liked it and he told me that except for a glitch with a firmware update, he really liked it. I went back and read the review in March 2020 QST and sent an email to the reviewer asking about the ATU. He also liked the G90S very much.

After going through online reviews on eHam, I felt comfortable enough to order one from Connect Systems on April 8th. The price was \$425. It came two days later, early enough that I was able to get it on the air later that day (I downloaded and read the manual while I was waiting for delivery).

OVERVIEW OF THE G90S

The G90S is made in China by Xiegu, which has offered a number of other rigs. The radio measures approximately 5½" W x 8¾" D x 2¼" H and weighs 3 lbs. 10 oz. The front panel has three knobs, a volume control, and a multi-function knob on the left and a main tuning knob on the right. There are 13 small buttons that control basic functions of the radio, including a Func button that opens up submenus.



On the top of the radio are buttons to select the mode (CW, CWR, AM, LSB and USB) and the band (160-10 meters).



The sides have connections for the headphones and microphone and firmware updates for the detachable front panel.



was quite surprised at my signal with only 20 watts SSB.

The G90S is a software defined radio (SDR) and as such gives you tremendous flexibility in signal manipulation. The filter can be adjusted down to 50 Hz and the rig has most of the basic functions you would expect in more costly radios.

The back has connections for the antenna, keys (straight and paddle), various interfaces for firmware updates, computer control and power (Tamiya connector).

Power output can be varied in one-watt increments, from 1-20 watts maximum. The radio has a built in automatic antenna tuner (ATU). The unit also has dual VFOs (it can work split) and 64 memory channels, which store frequency, mode, bandwidth and power setting.

The display is fairly small (1¼" x 1½") but surprisingly useful with a spectrum display covering +/- 24 kHz from your operating frequency.

The S-meter appears to register the standard 6dB unit (as opposed to the 7300 which has a 3dB S unit); it also reads signal strength in dBm. As noted above, it has a very useful ATU. It tunes my doublet on all bands, and even tuned my 40/30/20 EFHW on 80 meters. After you tune the radio, you can engage an SWR sweep that shows SWR over a range +/- 125 kHz centered on the tuning frequency.

ON THE AIR

My main antenna is a 80-10 meter doublet, 125' long and up about 50' at the ends, fed with 600-Ohm ladder line. I use a MFJ 939 tuner with my Icom 7300. I disconnected the antenna and hooked up the G90S and powered it up. I turned on the ATU and it tuned the doublet without difficulty. I made contacts with 5 watts on CW and also with 20 watts, including one with SV8 in Greece on 30 meters. I then tried SSB with 20 watts and focused on Parks on the Air stations. I was able to work POTA activators to the south, the Midwest and even one in ID. Finally, I worked SK9WARD in Sweden and IK4GRO in Italy, who I have worked quite a few times before and who



After 14 days, I feel comfortable with the controls and menus, although I do refer to the manual to learn more. The G90S has a built in Morse decoder. I have played around with it and although it is quirky, it does work in a fashion—for example, it frequently translates I as two Es. The manual is available at <http://www.connectsystems.com/products/top/radios/G90/G-90-Manual.pdf>

There is a users' group at <https://xiegug90.groups.io/g/main/topics>

SUMMARY AND RANDOM OBSERVATIONS

Since the G90S arrived, I have hardly used my 7300 (which I like very much). I have to remind myself that it is a \$425 radio.

The buttons are small. Some reviewers on eHam have had difficulty depressing them. I built a small wooden tilt stand to hold the rig and the buttons are fine. The radio seems very sensitive and the adjustable filters are very useful in crowded bands. I tried it out with AM on the broadcast band and it brings in quite a few stations that I have difficulty receiving on a consumer AM radio. I wish it had a built-in clock.

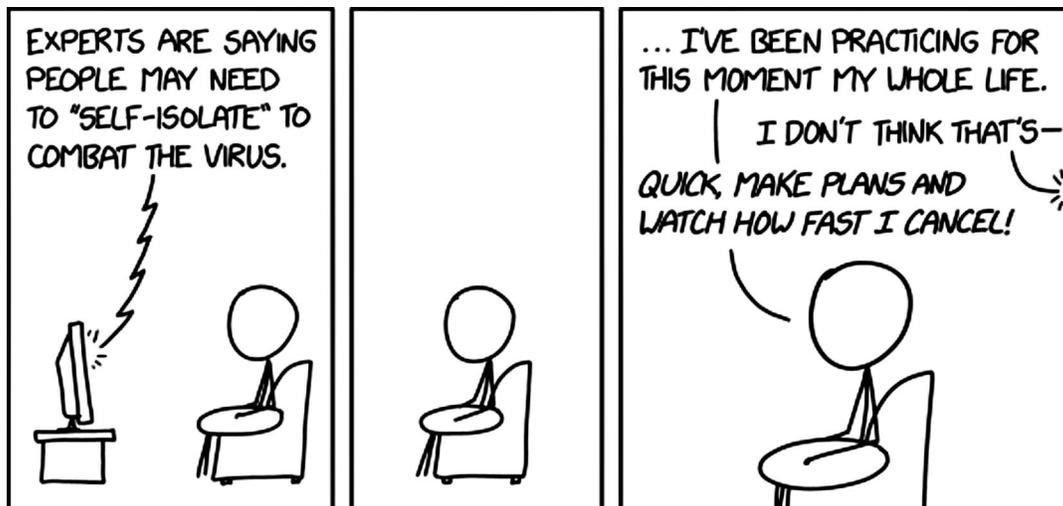
The additional power and the SSB mode make this a very good choice for POTA activations. When conditions are very bad for QRP, the extra power can come in handy. 20 watts is 6dB over 5 watts and only 7dB down compared to my 7300's 100 watts, so this radio fits in well between the two power levels.

The radio is a bit heavy for hiking to a remote location, but for use in an RV or walking a short distance to set up should be no problem. The reported 4.4A drain at full power means that you can run all day if you run a mixture of QRP and QRO on a 12AH battery.

Will this radio hold up? Will a bad firmware update "brick" it? We shall see. Could this be your main radio? I can see this as a second radio or a unit for a vacation home. I have to keep reminding myself: \$425.

If you have any questions or comments, you can email me at the address on my QRZ page.

73
KC3MIO



xkcd.com



GETTING STARTED WITH TWITTER

BY MARK, W8EWH

Have you ever wanted a quick reminder that the Sprint starts in an hour? How about a way to spot yourself for a QRP QSO? What if someone would notify you about band openings, space weather, equipment sales, or your favorite blogs and podcasts?

This article will introduce you to Twitter, show you how to get started and follow the NAQCC account, and while we are at it, give you a few additional ideas for Amateur Radio related accounts that you can follow. If you have any problems or questions getting started, please feel free to contact me. I'll do my best to help you. You can find my email address elsewhere in this newsletter.

WHAT IS TWITTER?

Wikipedia says: "Twitter ('twitər') is an American microblogging and social networking service on which users post and interact with messages known as "tweets." Registered users can post, like, and retweet tweets, but unregistered users can only read them. Users access Twitter through its website interface, through Short Message Service (SMS) or its mobile-device application software ("app"). Twitter, Inc. is based in San Francisco, California, and has more than 25 offices around the world. Tweets were originally restricted to 140 characters, but was doubled to 280 for non-Asian languages in November 2017"

You can take a peek at the NAQCC's feed (<https://twitter.com/NorthQrp>) and other Twitter accounts with just a browser, but to get the real benefits you'll need an account.

OK, I'M IN! NOW HOW DO I GET STARTED?

There are two main ways: using your web browser, and using your cell phone or tablet.

Web Browser - Go to www.twitter.com. You'll see a "Sign up" button on the top of the screen. Follow the instructions. Here's some help with the process: <https://help.twitter.com/en/using-twitter/create-twitter-account>.

Apps for your phone or tablet - There are many apps available for both the iOS and Android operating systems. Here are some favorites. Use your App Store (iOS) or Play Store (Android) app to search for these. The official Twitter app is free.

- Twitter (The official Twitter app available for both iOS and Android)
- Twitterific (iOS)
- Tweetbot (iOS)
- Plume (Android)
- Talon (Android)

I recommend that you create your account using www.twitter.com and then use your account credentials to sign into the application on your phone or tablet. But you don't have to do this.

FOLLOWING NAQCC

Once you have your account, it's time to start following other users. You'll find that Twitter is all about following other users. Twitter will make some suggestion for you. Here are some good tips on how to use Twitter and find users to follow: <https://www.wired.com/story/how-to-setup-twitter-search-hashtag-and-login-help/>. This link also includes some additional help in setting up your account.

To follow NAQCC, search for “NorthQrp.” You’ll see a list of tweets from this account, but also a listing for the NAQCC account. Once you have selected the NAQCC account, select Follow.

OTHER AMATEUR RADIO RELATED ACCOUNTS TO FOLLOW

Again, Twitter is all about following other users. So here are some of my favorite Follows:

- **NAQCC (@NorthQrp)**
of course! Encouraging the use of CW and helping all hams increase CW speed and proficiency is a top club priority. Club activities are dedicated to QRP/QRPp operation.
- **Dr. Tamitha Skov (@TamithaSkov)**
Space Weather Physicist.
Forecasting aurora, GPS, HF radio & radiation issues during solar storms.
- **Solar WX Robot (@solarwxrobot)**
SFI, A, K, ssn#, Solar Flare, X-Ray and Aurora alerts
- **ARRL (@arrl)**
The official Twitter feed for ARRL, the National Association for Amateur Radio in the US.
- **KB6NU (@kb6nu)**
Author of the No Nonsense amateur radio study guides and The CW Geek's Guide to Having Fun With Morse Code.
- **AMSAT (@AMSAT)**
Keeping Amateur Radio in Space for more than 50 years!
- **The Daily DX (@DAILYDX)**
The Daily DX premiere Amateur Radio DX news service to keep you informed of DXCC, DXpeditions, IOTA & contesting happenings from around the world.
- **Eric Guth (@QSOToday)**
Every week, Eric interviews interesting hams to hear their ham radio stories and what they are doing now.
- **Long Island CW Club (@LongIslandCW)**
We teach CW and live QSO protocol via internet video conference classes, with over 461 members in 49 states and 12 countries. Running 27 classes per week.
- **DX Engineering (@DXEngineering)**
We are your source for quality amateur radio products, including antennas, transceivers, amplifiers, tuners and station accessories.
- **Alan Wolke W2AEW (@AlanAtTek)**
Application Engineer for Tektronix, analog circuit designer, ckt homebrewer/tinkerer, ham radio W2AEW, ARRL NNJ Tech Coordinator, test equipment enthusiast.



MEMBER SPOTLIGHT



Each month one of our members is randomly selected and asked to share their ham radio biography with all of us. Questions or comments should go to Paul, KD2MX.

DISCLAIMER: Any views expressed in this section are those of the submitting member and may or may not be those of the NAQCC or its officers.

RICH BERGER, KC3MIO, #9942

I was born in 1951 and was fascinated by radio at a young age. I was a member of my high school's ham radio club, but never got a license. The years went by and in 2018, a friend of mine said he was interested in getting a license. He never did, but I bought the Technician license manual, studied it and passed the exam in November. My wife promised me station equipment for Christmas and while waiting, I studied for and passed the General exam in December. I got my Icom 7300 on the air on January 4 and it was a great thrill to make my first contacts even though they were in NJ, less than 100 miles away.

My intention was to be a CW operator, but I had fun on SSB and wanted full band privileges and took the Extra exam in April. I then turned to learning CW and made my first QSO on June 14th. As I gained confidence, my QSOs eventually became 90%+ on CW. My first experiences with QRP were on SSB, when I worked an op running five watts from his tent, in upstate NY. I made QRP QSOs with stations in LA and TX, also on SSB. My first CW QRP contact was with a K1 lent to me by my friend Bob (W3ZQN), feeding a random wire from my deck. I think the other station was 100 miles away and I quickly lost him in the noise. I was hooked.



Every QRP QSO is magical, especially two-way contacts. Those that stick in my mind:

- Working KD6JUI from his kayak on Lake Soldano, CA
- Steve, WGOAT, with him running 3 watts from CO with his Mountaintopper
- My first QRP contact in Europe with an op in the Czech Republic
- A two way QRP contact with OH5LP and a QSL card

I impulsively signed up to put out the NAQCC call during the last anniversary celebration. I think I made all of 17 contacts, but I worked the west coast and made a few contacts on 17 meters. I have participated in three NAQCC sprints and look forward to them each month. I will dig into the other NAQCC activities.



Xiegu G90

My base station is an Icom 7300 with a doublet antenna, about 125' long, up around 50', and fed with 600-ohm ladder line. I started out with a Bencher BY-1 paddle, but took up straight key in January and prefer it. I currently use a CW Morse 3D-printed key. I can send at 17 WPM, but my copying is lagging slightly, so I keep practicing.

I have put together a portable setup that I use when we are on a trip in our RV. It's a MTR-5B, an EFHW for 40-30-20 and 3D-printed paddle and key by CW Morse.

I just acquired a Xiegu G90S rig, maximum power of 20w, CW and SSB with a great ATU that tunes my doublet easily. In the works is a doublet for portable operation and if I get to it, a Moxon antenna for 30, 20, or 17.

I enjoy lots of things: DX, contesting, rag chewing, working POTA and SOTA stations. My favorite bands are 30, 20, and 40, although I try all that I can. I especially like operating from our deck when the weather is warmer, preferably with a beer after 5PM. I love learning about antennas, intend to check out digital modes and working the satellites. Besides ham radio, I like playing guitar, lifting weights and photography. My wife (Pam) and I have been married since 1978 and we have two children and three grandchildren.



Rich's collection of CW Morse 3D-printed keys

NAQCC SPRINTS

CURRENT MONTH'S SPRINT

Our Sprint this month will be on Thursday, May 21, 2020, 0030-0230 Z. That's the evening of Wednesday the 20th here in North America. Complete information about the sprint can be found at <http://naqcc.info/sprint/sprint202005.html>.

Complete sprint rules and instructions on how to submit your log can be found at http://naqcc.info/sprint_rules.html. On that page you will also find information about the different computer loggers that are supported for our sprints. The membership data files for those supported loggers can be downloaded at <http://naqcc.info/contests.html>. **Please be sure to always get the latest membership data for your logger about a day before the sprint.** A complete schedule for our upcoming sprints can be found at http://naqcc.info/sprint_sked.html.

LAST MONTH'S SPRINT RESULTS:

Complete sprint results, including all of the soapbox comments, can be found at <http://www.naqcc.info/sprint/sprint202004.html>. High scores can be seen in the tables on the next page.

We would especially like to welcome our first-time regular sprint loggers and hope that they will return to participate often: AD4N K8ZAA KA3TTT KB7EIU KB9ORH KD2KW KK4ITX N2GSL NI4U W2AFE W8KO WA7CS WB0UWE WD4CFN WI2W WU6P WX8J

	Current Month	Previous Month	All-Time Record	Record Date
Logs	133	100	217	4/17
Participants	188	136	269	2/13
Total QSOs	2237	1342	3154	4/17
Hour 1 QSOs	1144	790	1704	4/17
Hour 2 QSOs	1093	552	1450	4/17
20m QSOs	366	26	1232	8/13
40m QSOs	1712	885	2203	4/17
80m QSOs	159	431	1417	2/13
Avg QSOs/Station	11.9	13.4	19.3	9/11



Sprints earn you participation points so you're eligible for the best prizes in the 16th Anniversary drawing—including the brand new **MTR3b LCD Mountain Topper!** See http://www.naqcc.info/prize_drawing_16th_anniv.html.

SWA STRAIGHT KEY CATEGORY			
Division	1st	2nd	3rd
W1	K1MZM	KN1H	W1PQO
W2	W2SH	AA2VG	KA2KGP
W3	KD3CA	K3JZD	KE3V
W4	N4OW	W4NLT	K4JPN
W5	N5GW	KE9DR	W8WEU
W6	N6TH	WU6P	NT6N
W7	KF7WNS	WY7N	WA7CS
W8	KE8DI	NX8Y	W8DXU
W9	WB9HFK	KC9IL	W9CC
W0	N0TA	W0EJ	N0AR
Canada	VA2EO	VE3SIF	VA3NU
DX	-	-	-

SWA BUG CATEGORY			
Division	1st	2nd	3rd
W1	WB1GYZ	-	-
W2	WB2LQF	-	-
W3	K3WWP	-	-
W4	KJ4R	K3RLL	-
W5	NF5U	WI5H	K5GQ
W6	-	-	-
W7	-	-	-
W8	K8NGW	N8XMS	-
W9	AA9L	-	-
W0	-	-	-
Canada	VE3IDS	-	-
DX	-	-	-

SWA KEYER/KEYBOARD CATEGORY			
Division	1st	2nd	3rd
W1	KB1M	N2CN	N1JI
W2	WI2W	K2OID	WA1GWH
W3	NR3Z	-	-
W4	WB4OMM	N4MJ	WK4WC
W5	K5WX	N5AAS	KD2KW
W6	W6JIM	-	-
W7	KF7Z	KL0NP	AL7JK
W8	WX8J	WA8SAN	K3CTN
W9	NN9K	KY0Q	AB9BZ
W0	K9OSC	K0EW	-
Canada	VE3DQN	VE3GNU	-
DX	-	-	-

GAIN CATEGORY			
KEY	1st	2nd	3rd
SK	K7TQ	-	-
BUG	-	-	-
K/K	K4BAI	-	-

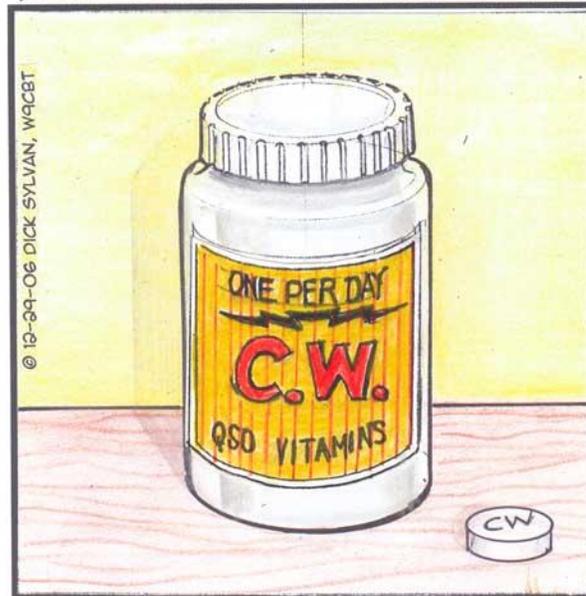
FIRST-TIME ENTRANT HIGH SCORE			
KEY	1st	2nd	3rd
SK	K8ZAA	KB9ORH	W2AFE
BUG	-	-	-
K/K	WX8J	WI2W	AD4N
SPRINT PRIZE DRAWING WINNER			
K0FNR			

SPRINT HONOR ROLL

We honor the following members for their outstanding participation over the years in our regular sprints. Exact counts can be seen at http://naqcc.info/sprint_dates.html.

Number of Sprints	Members
50+	NU7T(SK) KB8FE K9OSC N4MJ KB0ETU N8LA K2YGM AA7CU K9EYT NQ2W KF7WNS KD3CA N2CN N8QY WY3H K6CSL W15H NF5U KC7DM KC2EGL WK6L WA1GWH K4ORD AB8FJ WB4OMM VE5BCS(SK) AA0W W5UAA WA2FBN KB1M K2HT VE3DQN
75+	AK3X K4NVJ KB3AAG K4KRW VE3FUJ NO2D N8BB AA9L NA4O WD0K K6MGO KA9FQG KQ1P N5GW KN1H
100+	KE5YUM KD2MX K4JPN K1IEE KD0V WA2JSG N4FI W4DUK N2ESE WB8ENE WX4RM WG8Y W8SAN N0TA
125+	N8XMS K4BAI KU4A NF8M K3RLL
150+	W2JEK W2SH W9CC WB8LZG
175+	KA2KGP K3WWP

Ham Parodies DICK SYLVAN, W9CBT



A QSO A DAY KEEPS THE BLUES AWAY

Dick Sylvan, W9CBT, #2062, has been a QRP/CW operator for a long time. He is also a very accomplished ham radio cartoonist and his work has appeared previously in the K9YA Telegraph newsletter. His book "HI HI - A Collection of Ham Radio Cartoons" is available at www.lulu.com.

NAQCC CHALLENGES

THIS MONTH'S CHALLENGE

This month we test our knowledge of famous addresses with a unique alphabet challenge that includes a lot more numbers than we usually have. It should be a lot of fun. Complete details at <http://www.naqcc.info/challenges/challenges202005.html>

PREMISE:

You are the well traveled man about town, aren't you? You must have a bunch of addresses tucked away in your little black book and that elephant-like memory. Let's put that list to the test. Here are some addresses that you might know. Several are real places and the rest exist only in fiction. How many can you match with a resident or location? You will find the answers at the bottom of the link above.

- 4 PRIVET DRIVE
- 11 WALL ST
- 21B BAKER ST
- 1313 MOCKINGBIRD LN
- 4059 MT LEE DRIVE
- 714 DELAWARE ST
- 112 1/2 BEACON ST (the / is not part of the word list, no need to work a /M or /P station)

Each letter in a callsign you work during the month can be used twice to complete the challenge words. Complete rules, information, and a helpful tutorial on how to organize your work for an alphabet challenge along with detailed general rules and submission instructions can be found at http://naqcc.info/challenges_rules.html.

MAY CHALLENGE TRACKER:

0	1	2	3	4	5	7	9	A	B	C	D	E	G	I	K	L	M	N	O	P	R	S	T	V	W

Every time you work a new station this month, mark off the lowest box under each letter of the call to track your progress and see what letters you still need.



Challenges earn you participation points so you're eligible for the best prizes in the 16th Anniversary drawing—including the new **MTR3b LCD Mountain Topper!** See http://www.naqcc.info/prize_drawing_16th_anniv.html.

NEXT MONTH'S CHALLENGE

The annual Field Day Challenge is one of our most popular challenges according to the number of logs submitted. Work at least the required number of ARRL/RAC Contest Sections during field day, either from your home station or portable from the field.

<http://naqcc.info/challenges/challenges202006fd.html>

LAST MONTH'S CHALLENGE

The deadline for submissions for our April Panorama Challenge is still a few days away. You can see what has been submitted so far at <http://www.naqcc.info/challenges/challenges202004.html> and final results will be posted on that page shortly after the 10th of the month.

CHALLENGE HONOR ROLL

We honor the following members for their outstanding participation over the years in our monthly challenges. Exact counts can be seen at http://naqcc.info/challenges_sdchedule.html.

Number of Challenges	Members
25+	W3IQ KU4A K9OSC KD0V WA2FBN W15H NF1U WY3H N1JI VE3HUR G3JFS N1LU KJ4R KD2MX AK3X VE3DQN KA5PVB AH6AX WB4OMM KB1M
50+	PA0XAW VE3FUJ NU7T(SK) N9SE PA9CW
75+	
100+	K1IEE K1YAN
125+	N8XMS W2JEK
150+	K3WWP



NAQCC AWARDS

You may already be a winner! NAQCC has an extensive list of awards. Check your log to see if you're close, or just need to submit. Complete details can be found at <http://naqcc.info/awards.html>.

FEATURED AWARD: 2X QRP

I have often thought that a great deal of the credit for a successful QRP QSO should go to the operator on the receiving end of those radiated QRP watts, and our 2X QRP Award gives you the chance to see what you can do on that end of the QSO. To earn this award you not only need to transmit at QRP power levels, but the person on the other end must be doing so as well.

Any kind of QSOs are allowed for this award, including contest QSOs, so our NAQCC sprints can be a fertile place to earn your points. QSO points vary based on whether or not the other person is DX and whether or not they are an NAQCC member.

Certificates are issued at several different point levels and numerous endorsements for things like single band, home-brew gear, or straight key use are also available. Complete details for the 2X QRP Award can be found at http://www.naqcc.info/awards_2xqrp.html.

RECENTLY ISSUED AWARDS:

1,000 MILE PER WATT

Nr	Call	Stn worked	MPW	Award Date	Notes & Antenna
0552	W2ITT	K6ELQ	1,049	04/28/20	OCF Dipole @30'

 Awards earn you participation points so you're eligible for the best prizes in the 16th Anniversary drawing—including the brand new **MTR3b LCD Mountain Topper!** See http://www.naqcc.info/prize_drawing_16th_anniv.html.



NAQCC QRS/QRQ NETS

We have a number of nets (QRS = slow speed, QRQ = higher speed) designed to help people build up their CW operating skills. Complete information about these nets can be found at http://naqcc.info/cw_nets.html. Questions should be directed to Net Manager Mark, W8EWH.

NAQCC Net Schedule				
Net	Local Time	UTC	Freq +/-	Primary NCS
FarnsWord QRQ Round Table Nets (FRN)	Sunday	Monday		
	5PM PDT	0000 Z	5.348 kHz (ch2)	60m JB NR5NN (CA)
	8PM PDT	0300 Z	3556 kHz	80m Rick N6IET (CA)
	Tuesday	Wednesday		
	7PM PDT	0200 Z	7046 kHz	40m Rick N7HRK (MT)
East Texas QRS Net (ETN)	Monday 7pm CDT	Tuesday 0000 Z	7068 kHz Summer 3568 kHz Winter	Allen KA5TJS (TX)
Midwest QRS Net (MWN)	Monday 7:30 CDT	Tuesday 0030 Z	7031 kHz	Bob W0CC (KS)
Rocky Mtn Regional/ Continental QRS	Tues/Thurs 10 AM MDT	Tues/Thurs 1600 Z	7062.5 kHz	Dale WC7S (WY)
Pacific Northwest 80m QRS Net (PNW80)	Thursday 6 PM PDT	Friday 0100 Z	3556.5 kHz	Stewart KE7LKW (WA)
West Coast QRS Net (WCN)	Suspended			
New! The 1 Land QRS Net (1LND)	2nd Sunday of the month 8pm EDT	Monday 0000 Z	3560 or 3565 kHz	Ed K1RID (ME)

Note: On the rare occasions that there is a conflict between one of our scheduled nets and one of our regular sprints, the sprint will take precedence.

NET CONTROL STATION REPORTS

NAQCC FARNWORD QRQ ROUND TABLE NETS (FRN)

Sunday evenings 5:00 PM PDT, which is Monday 0000 UTC, on 5348 kHz (Ch 2)

Sunday evenings 8:00 PM PDT, which is Monday 0300 UTC, on 3556 kHz +/-

Tuesday evenings 7:00 PM PDT, which is Wednesday 0200 UTC on 7046 kHz +/-

60m NCS - JB NR5NN (CA); 80m NCS - Rick N6IET (CA)

40m NCS - Rick N7HRK (MT)

The NAQCC FarnsWord QRQ CW round table nets ...

... promote head copying skills while encouraging participants to send good, properly-spaced code at between 21-25 wpm. We typically go two rounds after check-ins, including signal reports and topical commentary about the weather, recent contests or other CW events, antenna experimentation and/or catastrophes, and HF portable CW operations.

Anybody who can copy and send at least 15 wpm is welcome to participate – you don't have to be a member of NAQCC.

Because of the multiple round-table nature of our net, it's best if we all are able to copy each other, which means sometimes going QRO. It also means occasionally moving net times seasonally to take advantage of NVIS propagation conditions and times.

Below are the lists of stations who checked into each net, each week. Dates are UTC.

FRN/60 FarnsWord QRQ Round Table Net QNS - JB NR5NN NCS

Sunday 5pm PDT (Monday 0000 UTC) on 5348 kHz (Ch 2)

Apr 06 - QNS (11) NR5NN NCS, N6IET, N6VN, AI6SL, WJ7S, K6GVG, W6MK, W6IPA, KB7KY, AI6U, WI6O

Apr 13 - QNS (12) N6IET NCS, NR5NN co-NCS, W6MK, N6VN, WJ7S, K6GVG, AI6U, W6IPA, WI6O, KB7KY, AI6SL, (WU7F)

Apr 20 - QNS (10) NR5NN NCS, KW6G, N6IET, W6MK, N6NV, K6GVG, AI6SL, KE7LKW, WI6O, WJ7S

Apr 27 - QNS (6) NR5NN NCS, AI6SL, N6IET, N6VN, K6GVG, AI6U

FRN/80 FarnsWord QRQ Round Table Net QNS - Rick N6IET NCS

Sunday 6pm PDT (Monday 0100 UTC) on 3556 kHz ±

Apr 06 - QNS (10) N6IET NCS, KW6G, K6JJR, AI6SL, N6VN, K0DTJ, K6GVG, W6MK, WI6O, NR5NN

Apr 13 - QNS (8) N6IET NCS, K6JJR, K0DTJ, Wolf AI6SL, W6MK, K6GVG, KW6G, NR5NN

Apr 20 - QNS (12) N6IET NCS, NR5NN, KW6G, K6GVG, K6JJR, AI6SL, W6MK, KE7LKW, K0DTJ, N6VN, N6KIX, WI6O

Apr 27 - QNS (9) N6IET NCS, K6JJR, KW6G, K6GVG, AI6SL, W6MK, K0DTJ, WI6O, N6KIX

FRN/40 FarnsWord QRQ Round Table Net QNS - PBRick N7HRK/M NCS

Tuesday 7pm (Wednesday 0200 UTC) on 7046 kHz ±

Apr 08 - QNS (6) N7HRK/m NCS, KW6G, WI6O, W6MK, AI6SL, N6IET

Apr 15 - QNS (7) N7HRK/M NCS, KW6G, AI6SL, N6VN, WI6O, N6IET, KB7KY

Apr 22 - QNS (7) N7HRK/m NCS, NR5NN, K6GVG, WU7F, KW6G, WI6O, AI6SL

Apr 29 - QNS (4) N7HRK/M NCS, WJ7S, KG6G, WI6O

Commentary

Hams have more fun (during a pandemic)!

We've generally had good NVIS during most of our nets in April. We saw several interesting peaks in the foF2 some evenings after sunset during recent weeks when the NVIS critical frequency reached well into or above the 40-meter band.

NAQCC EAST TEXAS QRS NET (ETN)

Monday evenings 7:00 PM CDT, which is Tuesday 0000 UTC, on 7068 kHz +/- (Summer) or 3568 kHz +/- (Winter)

Main NCS - Allen KA5TJS (Texas)

Apr 07 - QNI(4) NCS KA5TJS KE5YGA KE5YUM N4NN

Signals were very good on 40 meters and then just as we started the second QNI we got hammered with QRM by an SSB station. He was +30 over and 3.3 kc wide. I called for a QSY down one and it should have been down 2. My mistake! Then we tried 80 meters and got it done but the signal levels were much better on 40 meters.

Apr 14 - QNI(3) NCS KA5TJS KE5YUM N4NN

We had to QSY down to 7066 kHz last night due to SSB QRM again. Signals were good with YUM at 579 and NN at 559. Both did a good job. We did not QSY to 80 meters last night. TNX for the QNI's and stay safe guys.

Apr 21 - QNI(4) NCS KA5TJS KE5YUM N4NN KE5YGA

Well I called on 7066 kHz again due to SSB QRM on 7068 and got Allen N4NN about 339.

We went down to 3568 kHz and I picked up YUM and YGA. Band conditions were poor on both bands with QRN/QSB. Thanks for the QNI's guys and hope for better conditions soon.

Apr 28 - QNI(4) NCS KA5TJS N4NN KE5YUM KE5YGA

Well we had to meet again on 7066 kHz but the band was in good shape. N4NN was 559 YUM was 579 and YGA was 599. We did not try 80 meters tonight due to good propagation on 40.

NAQCC ROCKY MOUNTAIN REGIONAL/CONTINENTAL QRS NETS (RMRc)

Tuesday and Thursday mornings 10:00 AM MDT, which is 1600 UTC on 7062.5 kHz +/-
Main NCS - Dale WC7S (Wyoming)

No Report this month.

NAQCC MIDWEST QRS NET (MWN)

Monday evenings 7:30 PM CDT, which is Tuesday 0030 UTC, on 7031 kHz +/-
Main NCS - Bob W0CC (Kansas)

Mar 30 - No Report

Apr 06 - No Report

Apr 13 - W0CC

Rushed home as soon as possible and had to move around a little bit to find a clear spot on the band. Next week things will be better!

Apr 20 - QNI (2) W0CC, WB5LPN

With his Yaesu 99, he was able to track me through the QSB! GREAT JOB Randy!

Apr 27 - QNI (2) W0CC, N8HWV

The "Russian Clipper" had moved up in the band and was covering the usual frequency, 7.031, so I moved (and posted) that the NET would be on 7.039. Nate, a good NAQCC member, was able to pick me out of the static and maneuver around the QSB for a 10 minute QSO. Good Job Nate!

NAQCC WEST COAST NET (WCN)

Net Suspended until further notice.

NAQCC PACIFIC NORTHWEST QRS 80 METER NET (PNW80)

Thursday evenings 6:00 PM PDT, which is Friday 0100 UTC on 3556.5 kHz +/-
Main NCS - Stewart KE7LKW (Washington State)

Apr 03 - PNW QNI (8) NCS KE7LKW, WB4SPB, WB7WHG, K7JUV, KG7JEB, W7ANM, AD7BP, K7YEM.

Apr 10 - PNW QNI (7) NCS KE7LKW, WB4SPB, WB7WHG, W7ANM, AD7BP, K7YEM, KJ7AQB.

Apr 17 - PNW QNI (8) NCS KE7LKW, WB4SPB, WB7WHG, W7ANM, AD7BP, K7YEM, K7JUV, N0DA

Apr 24 - PNW QNI (7) NCS KE7LKW, WB4SPB, WB7WHG, W7ANM, AD7BP, KJ7GHS, K7JUV



NAQCC CHAPTER NEWS

The North American QRP CW Club currently has six local chapters - Western Pennsylvania, West Florida, Illowa, Downeast Maine, Long Island, and Florida - but we would be more than happy to expand on that list. Chapters are more or less independent local gatherings organized by NAQCC members in a geographical area and subject to a list of guidelines from the NAQCC. They provide opportunities to have fun and to promote our parallel passions of QRP and CW. If you are interested in forming a local chapter please contact Club President Paul, N8XMS.

If your chapter is planning a portable operation activity and would like to have it promoted on the club email list or in the newsletter, send an email with the subject "NAQCC Portable Operation" and with the exact wording of the announcement to Vice President John, N8ZYA, at the email address listed on the last page about a week before the operation. Please be sure to include the UTC time for the event and not just the local time.

A report about your chapter activity should appear here. Please send them to KD2MX or N8XMS at the email addresses listed on the last page.

NAQCC chapters located in the United States are welcome to use the NAQCC Club call, N3AQC for their special operations. Please contact call sign trustee Paul, N8XMS, to schedule the use of N3AQC.

NAQCC ILLOWA CHAPTER



Items in this section are from the Illowa Chapter unless otherwise credited. Questions and comments should go to Tim, N9BIL.

The Illowa Chapter operates in the "Quad Cities" area of Davenport, IA / Moline, IL.

The Illowa Chapter website is at <https://sites.google.com/site/naqccillowa2/>.

The Illowa group had a monthly chapter meeting on April 9th. Attending remotely were N9BIL, NN9K, K0NIA, and N9YPN. Due to the continued COVID-19 Social Distancing requirements all attended via "Google Hangouts."

Many topics were discussed including:

- Recent storm with large hail.
- High-speed Internet to the shack.
- Vague ARRL Field Day rules during the COVID-19 pandemic.
- Field Day will be done from home this year as individual stations.



NN9K shared this picture and soapbox of his July NAQCC Sprint operation:

NN9K - before this evening I've only operated the NAQCC Sprint from my home. This time I decided to operate from a portable location, a rest area at an I80 Welcome Center. The antenna system was my tried and true county hunting mobile array—a Hustler 54 inch mast topped with 20 and 40-meter resonators. Rig—KX3 @ 5 watts with battery power. Everything worked as designed except for the propagation. Really deep QSB on 40 meters and 20 meters seemed to die a

bit early. Of course, the line of thunderstorm that passed through northwestern Illinois didn't help signals between me and the east coast. But all-in-all it was fun even with the high temperatures, humidity and low QSO count.

Our next meeting will be held on Thursday, August 8th at 7:00pm at the Moline Village Inn restaurant.

NAQCC LONG ISLAND CHAPTER

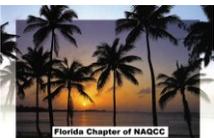


Items in this section are from the Long Island Chapter unless otherwise credited.

Questions and comments should go to Howard, WB2UZE.

No Report

NAQCC FLORIDA CHAPTER



Items in this section are from the Florida Chapter unless otherwise credited. Questions and comments should go to Nikki, KM4SBQ.

The Florida Chapter website is <http://wb4omm.com/naqcc-fl-chapter>.

No Report

NAQCC WEST FLORIDA CHAPTER



Items in this section are from the West Florida Chapter unless otherwise credited. Questions and comments should go to Ron, N9EE.

The chapter's web site is
<https://www.facebook.com/groups/967110089994401/>.

No Report

NAQCC WESTERN PENNSYLVANIA CHAPTER



Items in this section are from the Western Pennsylvania Chapter unless otherwise credited. Questions and comments should go to John, K3WWP.

No Report

NAQCC DOWNEAST MAINE CHAPTER



Items in this section are from the Downeast Maine Chapter unless otherwise credited. Questions and comments should be directed to Jeff, KA1DBE.

The chapter is located in the Hancock and Washington counties area of Maine.

No Report



MEMBER SUBMISSIONS

This section is a forum for you to tell other members what you've been up to on the ham bands or to submit a short article dealing with some aspects of CW and QRP operation or equipment. Just about anything that would be of interest to our members would be welcomed. Send your items to our News Editor Paul, KD2MX.

DISCLAIMER: Any views expressed in this section are those of the submitting member and may or may not be those of the NAQCC or its officers.

DANGER IN ST. ELMO!



A box of old blasting caps (mercury fulminate/KClO3 mix) was just found in one of the old buildings in the mining town of St. Elmo, CO, 2 July 2015.

When members of Historic St. Elmo and Chalk Creek Canyon Inc. cleaned out the

outhouse behind the Home Comfort Hotel in St. Elmo, they found a potentially explosive surprise. On the floor of the outhouse, they found what they believed to be dynamite, said Walter Roth, a member of the historical group. Later in the day a bomb squad found blasting caps rather than dynamite.

I had operated there with my PRC319 Pedestrian Mobile right in front of that Hotel several times before.



(See CQ Magazine June 2016, p. 16-18). While the electric blasting caps are usually shorted and would not be affected by a QRP radio, my 50W radio was at a dangerously high level to be transmitting near a box of blasting caps. It would be a smart idea to avoid operating in any old mining areas where unexploded dynamite might exist.

—Paul WORW, #2500

A KEY FROM THE PAST

Some time ago back in the good ole days, back 'round the millenia, I got an old bug from a guy for a song. It was an Vibroplex "Champion" from 1943. It was rusty in a lot of places,



but it was all there. The key was functional but it looked as though it had seen better days for sure. The years had taken their toll on this one. If they could only talk, I thought, what stories they could tell.

When I restore a key I often wonder about the first owner. How proud he must have been. Certainly it had to have been a prized possession for the era. Did he make a living with his bug? Did he work for the railroad or merchant marines? I like to think



that perhaps they were the instrument of communications for the “GO” signal to the Enola Gay, or some such glory. Had this one been on a ship? Or in use at a shore station somewhere? Had it seen wartime action or use in the AP wire service in some remote area of the world? Or was it just some ham’s that got banged around in a dank cellar after he became a silent key? Only the key knows. Sometimes I am able to speak with a friend or the XYL to find out details of a key’s history. Many times, nothing.



I took it home and it sat on a shelf for oh... a good couple-few years. In 2016, I finally decided I would give it a

restore. I took it apart and stored all of the pieces in a box, so as not to lose them. Then I gave the base a quick rough sanding to remove the surface rust. The base was painted with 2 coats of hammer finish paint that came out really nice. Looked “good as factory new.” Now the wait to let the paint get a good cure. I like to wait at least a month, but many times get “antsy pants” in 2 or 3 weeks, and start re-assembly. Well this one got put in the box and promptly forgotten. I mean *really* forgotten. For 4 more years forgotten! Oh yes, I would occasionally run across it and think about it, but never completed it. Always too busy or another more important project to occupy my time.

Well after retirement, I found I was getting many things I have put off from the past, done. The key kept calling to me, and in 2020, I finally took it down from the shelf. As I opened the box, I was pleasantly surprised to see the base was still in pristine condition.

The parts were another story. They were going to take some rubbing compound and lots of “elbow grease” to get ‘em to come clean. After 2 days of rubbing and brushing, they were as good as they could be. I was now anxious to see the final product. I carefully started the re-assembly. Being extra easy on the base to key contact surfaces. On completion, it was quickly admired, and then promptly field tested. After all those years, she still had some life left in her. Sent party CW too. I then took some pictures I hope you will enjoy.



Hope this inspires you to try a refurb for yourself. It’s quite rewarding to give new life to a silent key.
—73, Gregg WB8LZG, #1444

LIFEBOT RADIO

During the second World War, Germany designed the first lifeboat radio. One of them was captured by the British and copied. The information was also given to the Americans who used it to design the “Gibson Girl,” as it was affectionately known for its hour glass shape. This shape allowed the operator to hold it between his legs and crank the

handle with one hand and send with the other hand. They weighed about 30 lbs and were a bright yellow color. These early radios were transmit-only with no receiver. Since then, many changes have been made.

I sailed on merchant ships from 1970 till 1984 and a lifeboat radio was always carried. It was usually stored in the radio room. Fortunately I never had to use it, but in case of abandoning ship my job was to bring the radio to the lifeboat. The two lifeboat radios I worked with were the Marconi-made "Survivor," and the Skanti "Marinetta." I still look on eBay for one of these which I would like to have. There is currently one on eBay in Holland and he is asking \$550!!!!

These radios were the first QRP radios as their output was only between 4-5 watts, with a 500-Khz CW distress frequency, 2182 Khz R/T distress frequency and 8364 HF frequency which was cw only.

The radios were simple to use with one button sending out automatic cw distress. At the end of the automatic sequence a long dash was sent to enable rescuing ships to use their direction finders to pinpoint the lifeboat position. A Morse code table on the front cover allowed non-radio operators the ability to send Morse code.

The antennas were whips, wires, and a kite was provided to raise the wire antennas higher. A reel of wire was provided for grounding just by throwing it into the ocean.

Periodically we tested these radios when we lowered the lifeboats during drills. I would rig an antenna and two of the sailors would crank the

handles and I would try to contact the local coast station. Maintaining the power, was very exhausting work. There was a provision to supply 24V external power which was impractical as no batteries were carried for the radio. I was always able to contact the local station which was usually less than 50 miles away, but I was never able to make any long distance contacts. On HF I did not make any contacts due to poor propagation conditions but I could hear many long distance stations.



There was one incident in 1968 where a ship broke in two in the Atlantic off the coast of NJ. The main radio station was midships so it was lost but luckily the lifeboat radio in this case was stored on the stern which was intact. The radio officer was astern at the time eating dinner (lucky for him as all crew who were midships were lost). He was able to use an existing antenna which was mounted on the stern and sent out a successful SOS using the lifeboat radio on 500 khz and all remaining crew were rescued by the US Coast Guard.

On today's ships it's much different. They carry EPIRBS (Emergency Position Indicating Radio Beacons) which are automatically released when under water and float to the surface. They then start transmitting via satellite which can pinpoint your position within a few feet. I presume they now also carry some kind of portable satcom to talk to rescue personnel.

–Denis O'Brien N2JJF #1117
ex-Marine Radio Officer

NAQCC CLUB INFORMATION

STATEMENT OF PURPOSE

from former NAQCC President Paul Huff, N8XMS

Amateur radio has something for everyone. SSB, FM, AM, the digital modes, and QRO power levels all have their place in this great hobby and we certainly recognize the importance of these modes as well as the enjoyment that they give to many. But for a growing number of hams the challenge of “doing the most with the least” makes QRP (and QRPp) CW operating the greatest thrill available in amateur radio, and the North American QRP CW Club exists to promote this exciting facet of the hobby. As part of our focus we also encourage, but do not limit operators to, the use of simple wire antennas.

The NAQCC provides numerous opportunities for hams to enjoy QRP/CW operating. For contest types we have a popular monthly 2-hour sprint that runs at relatively low CW speeds and at a fairly relaxed pace. Three special sprints also take place during the year for 160-meter and QRPp operators. For a month-long activity we offer our members a Monthly Challenge that can be anything from forming a list of words from the calls of stations worked, to making a prescribed number of contacts using home-brew gear. There is also an extensive awards program to recognize the significant QRP/CW accomplishments of our members.

We also serve as a resource for people who are just getting started in QRP and/or CW. Our slow-speed CW nets are a great place for beginners to practice Morse code under real on-air conditions. Beginners will also find a wealth of helpful information on our club website and we are more than willing to try to answer any questions about QRP and CW that you might have. An extensive monthly newsletter is filled with useful projects and news from fellow QRPers.

A number of local NAQCC Chapters offer opportunities to get together for in person socializing and QRP/CW activities. Portable operations are especially popular with the local chapters. Whether you are a veteran ham radio operator who is looking for a new challenge in the hobby, or a beginner who is intrigued by the possibilities of QRP/CW communication, we cordially invite you to join us. Membership is free and the benefits and fun are significant.

The North American QRP CW Club was founded in 2004 by WY3H and K3WWP and now has over 9500 members world wide. Membership is free and anyone interested in CW/QRP operating is welcome. Complete information about the NAQCC, including a membership application, activities schedule, and useful resources, can be found on our website at <http://www.naqcc.info/>.

Inquires can also be sent to:

Club President Steve Szabo, WB4OMM
536 Central Park Blvd
Port Orange, FL 32127
USA

Additional contact information can be found on the next page.



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NAQCC CW Nets	Mark W8EWH	mark.yergin@gmail.com

NOTE: These email address are not automatic links.
They are given here in graphic form to avoid harvesting by spambots.

REPRINT POLICY

Unless otherwise stated in the article, local clubs and other ham radio organizations are free to reprint featured articles from this newsletter, provided appropriate credit is given to the North American QRP CW Club and the author of the article. If at all possible a link to the club website at <http://www.naqcc.info/> should be included.

