ARROWHEAD RADIO AMATEUR CLUB, INC. • DULUTH, MINNESOTA •

The RELAY

February 2026

The Official Publication of the Arrowhead Radio Amateur Club
A.R.A.C. Inc. P.O. Box 7164 Duluth MN 55807-7164 http://www.thearac.org Dues: Member $20/Family $25

INDEX

ARRL Int'l DX CW	1
Board Minutes	2
Club Mtg Minutes	3
Prez Sez	5
License Testing	5
CW Abbreviations	6
Band Plan	6
Nets	7
Repeaters	8
Members' Email	10
Calendar	11
Committee Chairs	12
Contest Calendar	19

The Relay Co-Editors:
Kim & Steve Waller

Kim - KEØNQS KEØNQS.mn@gmail.com
Steve - KEØNQT KEØNQT@gmail.com

Winter 2026

Join us on Facebook!

ARRL International DX - CW

A February Contest Every Ham Can Love

As the crisp February winds sweep across northern Minnesota, it's hard not to feel a quiet connection to the pioneers of our hobby. Back in 1929, when the American Radio Relay League first launched what they called the **International Relay Party**, amateur radio was a world of glowing vacuum tubes, hand-wound coils, and crystal detectors that demanded patience and ingenuity.

Those early operators—ARRL founders like Hiram Percy Maxim and communications trailblazers like F. E. Handy—tapped out Morse code on heavy brass keys, coaxing faint signals across oceans with homemade rigs that looked more like laboratory experiments than the sleek transceivers we know today. That inaugural event, born from a shared passion for bridging distances and relaying messages reliably, marked the beginning of what would evolve into the **ARRL International DX Contest**—one of the longest-running traditions in amateur radio.

The Wireless Age was a pioneering American monthly magazine on radio communication initially published by **Marconi Publishing Corporation**. It targeted professionals, experimenters, and ham radio operators with content on technology, operations, and early broadcasting. It began in 1913 and ceased in 1925, absorbed by Popular Radio.

Here we are, nearly a century later. The spirit of those CW origins lives on vibrantly in the **ARRL International DX CW Contest**, coming up February 21–22, 2026. Whether you're a newly licensed ham typing your first call sign from a keyboard-connected setup, a portable QRP operator braving the snow for a few precious contacts, or a seasoned Elmer with a well-worn station log stretching back decades, this contest invites us all to honor the same core thrill; reaching out across the world with nothing but skill, propagation, and Morse code. In an era of instant digital modes and global *Continued on Page 13*

PRESIDENT

NØVRM
Gene Ellefsen
371Ø Chambersburg Ave
Duluth, MN 55811
218-39Ø-3272
lspitech@mail.com

VICE PRESIDENT

PHOTO COMING SOON!

NØUOZ
Jon Nelson

SECRETARY

KFØGJW
Melinda Nelson

jonbeeyore@outlook.com

TREASURER

KRØB
Randy Wabik

3RD YEAR BOARD

KD9VKI
Justin Cheever

jcheever13@gmail.com

2ND YEAR BOARD

KFØLFZ
Brian Beckman

1ST YEAR BOARD

AAØAC
Dave Davis

218-348-6649
aaøac@outlook.com

Board Meeting Minutes - January 6, 2026

Present:

Board Members

Gene Ellefsen – N0VRM, Jon Nelson – N0UOZ, Melinda Nelson – AF0ET, Randy Wabik – KR0B, Brian Beckman – KF0LFZ, Justin Cheever – KD9VKI, Dave Davis – AA0AC

Board Advisors (Non-Board Members)

Doug Nelson – AA0AW

Guest:

Robin Davis, Rochelle Nelson

Meeting called to order by President Gene – N0VRM at 18:30 (6:30 pm)

Minutes:

Minutes were sent via email. Motion to approve Justin Cheever – KD9VKI, and Jon Nelson – N0UOZ, motion passed.

Treasurer's Report:

Checking: $984.35
Savings: $5,801.96
Repeater: $4,360.68
Subtotal Cash $11,146.99
Cash on hand: $79.00
Subtotal COH: $79.00
Outstanding Checks:
Assets Subtotal: $11,225.99

Motion made by Jon Nelson – N0UOZ to accept Treasurer's report as is, seconded by Justin Cheever – KD9VKI. Motion passed.

Testing:

We have a test session on January 20th at the House of Refuge. 5:30 registrations, 6:00 testing. Need a copy of the FRN number, an ID, and a copy of your licenses. As always if you are ready to test or know someone who wants to test, please get ahold of Doug Nelson – AA0AW at AA0AW@arrl.net.

Repeater:

Randy Wabik – KR0B, have the UPS at home and it is ready to go. Jeff Nast – KC0MKS will be bringing 2 cans to the club meeting. Need to get those tuned up and they will be ready to be installed.

New Business:

- **Membership dues will now be due in December or January of each year. If you are a new member, will pro-rate till the end of the year. We also ask that you fill out a form when renewing your membership, so we have better records of all members.**
- **HamFest is Coming up on May 2nd. Looking for Volunteers.**
- **D-Star network is back up and running.**

Motion to adjourn by Jon Nelson – N0UOZ, seconded by Randy Wabik – KR0B, motion passed at 19:16 (7:16 PM).

January 8, 2026

Present:
President: Gene Ellefsen – N0VRM
Vice President: Jon Nelson – N0UOZ
Treasurer/Membership: Randy Wabik – KR0B
Secretary: Melinda Nelson – AF0ET
First Year Board: Dave Davis – AA0AC
Second Year Board: Brain Beckman – KF0LFZ
Third Year Board: Justin Cheever – KD9VKI
HamFest/Education: Bob Schulz – KC0NFB
Special Events: Open/Gene Ellefsen – N0VRM (acting)
Property/Picnic: Scott Ahlgren – N0VYU
Testing: Doug Nelson – AA0AW

Absent:
Parliamentarian: Grant Forsyth – KC0WUP
Newsletter/Historian: Kim Waller – KE0NQS
Newsletter/Historian: Steve Waller – KE0NQT
Web Site: Thomas Dorr – KE0RHA
Repeater: Dave Pyrlik – K0DJP & Randy Wabik – KR0B
Chaplin:

Meeting called to order at 19:06 (7:06 PM) by President Gene Ellefsen – N0VRM. Thirty-nine (39) members were in attendance.

Minutes:
Minutes are posted on the website and in the newsletter. Motion to accept by Scott Ahlgren – N0VYU, seconded by Jeff Nast – KC0MKS, motion Passed.

Treasurer's Report:
Checking: $984.35
Savings: $5,801.96
Repeater: $4,360.68
Subtotal Cash $11,146.99
Cash on hand: $79.00
Subtotal COH: $79.00
Outstanding Checks:
Assets Subtotal: $11,225.99

Motion made by Doug Nelson – AA0AW, seconded by Jon Nelson – N0UOZ. Motion passed.

Repeater:
Randy Wabik – KR0B, have the UPS at home and it is ready to go. Jeff Nast – KC0MKS brought in 4 cans tonight. Need to get those tuned up and they will be ready to be installed.

Co

Testing:
We have a test session on January 20th at the House of Refuge. 5:30 registrations, 6:00 testing. Please make sure that you have the updated syllabus. As always if you are looking to test or upgrade or know of anyone that is interested in testing, please contact Doug Nelson – AA0AW at AA0AW@arrl.net.

New Business:

Membership dues will now be due in December or January of each year. If you are a new member, will pro-rate till the end of the year. We also ask that you fill out a form when renewing your membership, so we have better records of all members.

HamFest is Coming up on May 2nd. Looking for Volunteers.

D-Star network is back up and running. (Thank you to Aaron Osterwyk – AA0AF, Bill Turk – KF0ILA, and Doug Nelson (AA0AW)

Silent Key: (Please keep their family in your thoughts)
.

Door Prize: was won by Cliff Tanner – AC0FO

Motion to adjourn by Jon Nelson – N0UOZ, seconded by Paul Gilsdorf – KF0GEX, motion passed at 19:21 (7:21 PM).

2026 Program:
January – Using APRS as packet by Aaron Osterwyk – AA0AF, and Bill Turk – KF0ILA.
February – JS8 by Aaron Osterwyk – AA0AF, and Bill Turk – KF0ILA.
March – intro to CW by Doug Nelson – AA0AW.
April –
May –
June – Grandma's Marathon by Grandma's Marathon Team Melinda Nelson – AF0ET and Doug Nelson – AA0AW.
July –
August –
October –
November –
December – Christmas Party

If you are interested in seeing a program, or would like to host a program, please reach out to Jon Nelson at jonbeeyore@outlook.com or 715-817-1986.

CLUB REPEATER
WØGKP
146.94 (-)
CTCSS TONE

Prez Sez ...

Hello Everyone,

We are getting closer to Hamfest time on May 2nd.

That means we will need help setting up, selling tickets and kitchen help.

Please help out! This is our big money maker for the Club, so we need your support!!!

Thanks,

Gene Ellefsen NØVRM

LOOKING for an Amateur Radio License TESTING SESSION?

Schedule your own Testing Session TODAY!

Contact Doug Nelson-AA0AW at aa0aw@arrl.net or 218-391-5874

All Exam Candidates are REQUIRED to have an FCC Registration Number (FRN) before exam day, which will require your email address.

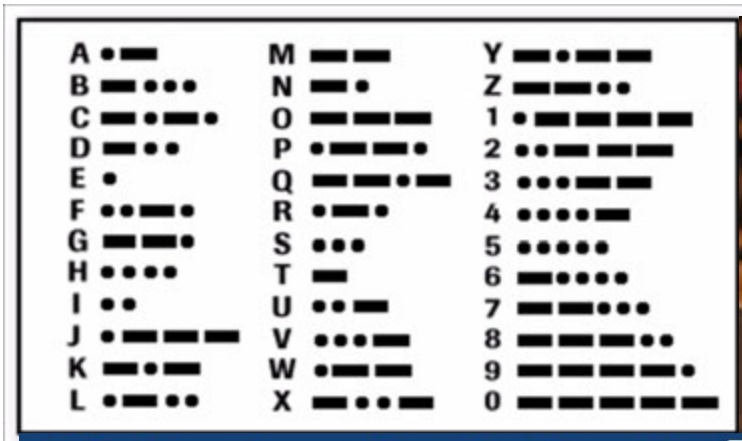
Not Currently Licensed? For New License Candidate FRN registration, go to:
www.fcc.gov/new-users-guide-getting-started-universal-licensing-system-uls

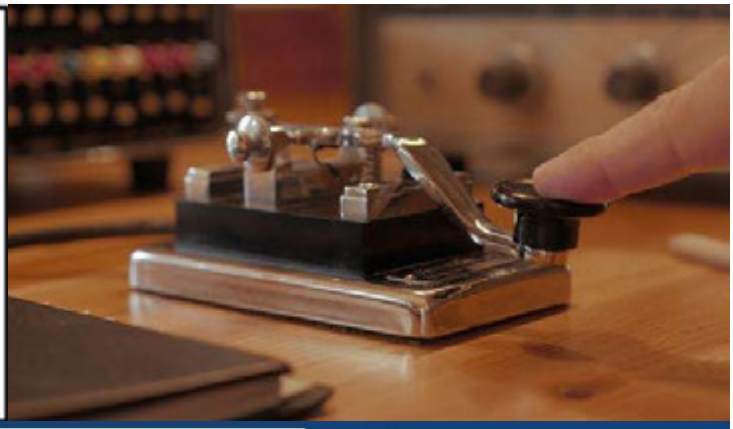
Upgrading to General or Expert Class & not sure you have an FRN number? go to
https://wireless2.fcc.gov/UlsApp/UlsSearch/searchLicense.jsp

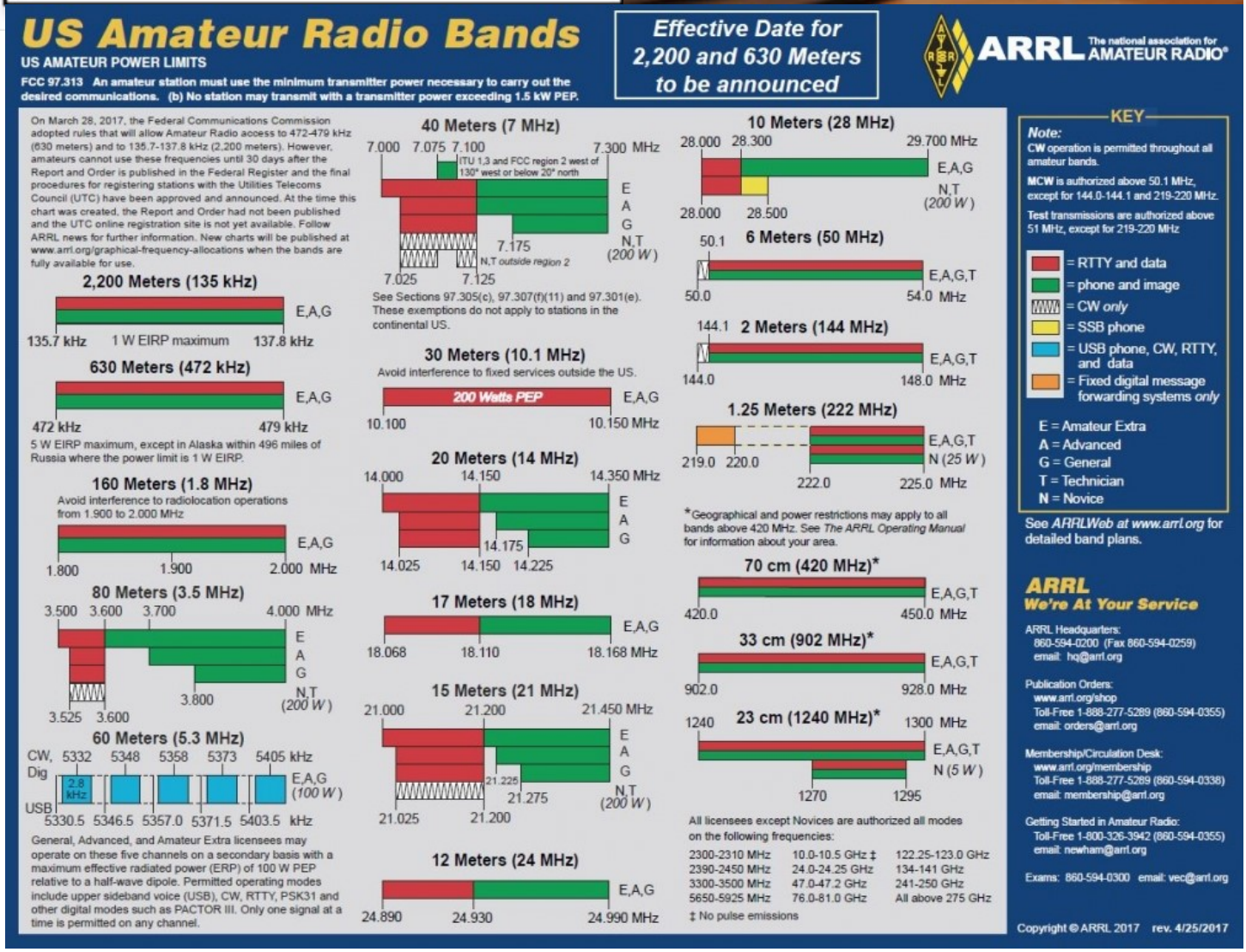
UPGRADE CANDIDATES:
Please bring a copy of your current license to the exam session.

CW Abbreviations

AR End of Message	AS Pse QRX	BK Back to You	SK End of Contact
TU Thank You	PSE Please	K Invite to Transmit	
QST Calling all Amateurs	QRL Are You Busy?	QRU Have anything for me	
QRV Are You Ready?	QRX Standby	QRS Transit Slower	







NETS

Have a favorite HF/6m/2m/1.25m/7Øcm net that you check into or listen in on? Also, please send corrections and we will add it to the list below - Kim KEØNQS at my email KEØNQS.mn@gmail.com.

- **Northland Weather Group Net:** Mondays 2ØØØ on the ARAC repeater (146.940 MHz with a tone of 103.5 and standard offset).
- **Minnesota D-Star Net:** Sundays at 19:3Ø on Reflector 53A
- **Minnesota Section Net** 12ØØ and 173Ø on 3.86Ø [Net Manager: NØYR] http://www.mn-section.org/dept_stm.html
- The non-non-net: Evenings 2ØØØ 144.2ØØ USB except for Sunday evenings.
- Badger WX Net: Ø5ØØ-Ø715 on 3.985. Give 24 hour high/low/current temperature, precipitation and snowfall.
- **PICONET**: 3.925 from Ø9ØØ-11ØØ CT Mon-Sat and 16ØØ-17ØØ CT Mon-Fri. Info at: http://www.piconet3925.com
- Michigan Upper Peninsula Net: 16ØØ (CST) on 3.921 MHz Sun-Sat and 12ØØ Sun. Info: http://www.michupnet.com
- Great Lakes Marine/Maritime Mobile Net: Morning Ø7:3Ø - 3.932; Ø8:15 - 7.261 MHz and evening 18:3Ø - 3.173Ø927; 19:15 - 7.268 MHz. Weekend extra net: 1Ø:ØØ - 7.261/7.268 MHz. All CST, LSB and +/- QRM. See: http://www.sailblogs.com/member/glmmnet/
- MIDCARS: Ø7:3Ø-13:ØØ - 7.258 MHz. See: http://www.midcars.net
- Iowa snowbird net on 14.257MHz, M-W-F at 1Ø:ØØ am Local Time. This is an open net.
- Spider Web Net (Marco Island FL) on 14.347 every morning at Ø73Ø CST/CDT: http://www.spiderwebnet.net
- Maritime Mobile Service Network: Daily at 11ØØ—21ØØ Central on 14.3ØØ. http://mmsn.org and http://www.143ØØ.net
- RV Radio Network: Every day at 19ØØ Central on 7.265 MHz. Web site: http://www.rvradionetwork.com
- Upper Midwest Ten Meter Net: Every Thursday Evening @ 8 PM – 28.48Ø MHz USB
- Wisconsin Sideband Net: Daily @ 5:15 PM – 3985 [or 3982.5] KHz LSB
- Hobby Helpers Net - Tuesday @ 8 PM – 28.33Ø MHz USB (Isanti MN) LSB [Net Manager: WOØA].
- Northstar Trader Net: 3.9Ø8 +/- at Ø83Ø CST Sundays
- WARFA: 3.9Ø8 +/- Sun/Tue/Thu nights at 22ØØ CST, http://warfa.org/
- Youth Net: 14.32Ø-1433Ø Sundays 18ØØ-19ØØ UTC, Net Control: AC8PI
- YACHT: Saturdays 19ØØ CST on EchoLink #481872, http://yachthams.webstarts.com
- Northwestern Ontario ARES Net: Evenings at 2Ø:15 (Central) on +/- 3.75ØMhz
- The Iron Range Net: Saturdays at Ø8ØØ Central time on or near 3.919 Mhz. Look them up on Facebook!
- FORX Net: Mondays at 19ØØ Central at 3.941 Mhz +/- QRM. WAØJXT — Grand Forks, North Dakota
- HF CW: Fridays Ø8:ØØ CST, 7.112 MHz. Informal slow speed CW Net. W8IRT NCS. Email: w8irt@aol.com
- Minnesota ARES Digital Net: Thursdays at 2ØØØ CST, 3.5835 MHz USB +/- QRM, Mode: Olivia 8/5ØØ.
- SARA Digital Net: Sundays at 19ØØ Local, 3.582.15Ø MHz USB +/- QRM, Mode: BPSK31/BPSK63
- Spider Web Net (Marco Island FL): 14.347 every morning at Ø73Ø CST/CDT: http://www.spiderwebnet.net
- Broadcaster Net: 7.231 or 3.855 M/W/F @ 15ØØ UTC. 14.255 M-F @ 213Ø UTC. http://www.cbsretirees.com/ham.htm
- Old Military Radio Net: 7.268 +/- nightly at Ø2ØØz. Other times/Frequencies too. See: http://www.mrca.ar88.net/
- Rag Chew Crew/Tailgaters/Freewheelers Nets: 3.916 +/- nightly at 19ØØ CST, http://www.tailgatersnet.com
- North South Net: 7.214.6 +/- at Ø7ØØ CST, Monday-Saturday

DULUTH AREA REPEATERS

ARAC System WØGKP

Frequency	Offset	Tone	Location	
146.940	minus	103.5	Duluth	
146.940	minus	107.2	Lakeside (recv)	
146.940	minus	151.4	Two Harbors (recv)	
146.940	minus	100.0	Gary-New Duluth (recv)	
146.940	minus	110.9	Cloquet (recv)	Not Operating
147.000	minus	103.5	Mahtowa	
444.100	plus	103.5	Duluth UHF Link	

N9MMU/N9QWH System (WI)

145.310	minus	110.9	Duluth	
145.490	minus	110.9	Solon Springs	
147.255	plus	110.9	Hayward	
145.110	minus	110.9	Rice Lake	
147.345	minus	136.5	Holcombe	
145.230	minus	110.9	Eau Claire	

WECOMM – WI Statewide Linked System WE9COM

147.075	plus	110.9	Meteor Hill (closest repeater to Duluth)	

LSAC System – some may work/some may still be linked

147.330	plus	151.4	Proctor	Not Operating
147.270	plus	114.8	Two Harbors	
147.270	plus	103.5	Wales	
147.090	plus	114.8	Silver Bay	Not Operating
147.300	plus	114.8	Isabella	
145.150	minus	103.5	Washburn, WI	
146.700	minus	103.5	Bayfield, WI	
443.850	+5.00	none	Bayfield, WI	
147.165	plus	110.9	Hurley, WI	
146.640	minus	151.4	Ely	Not Operating
443.500	+5.00	141.3	Gilbert	
147.060	plus	103.5	Virginia	
147.360	plus	162.2	Cook	Not Operating
147.165	plus	114.8	Coleraine	
443.925	+5.00	110.9	Brainerd	
443.200	+5.00	114.8	Tamarack	
147.360	plus	203.5	Aitkin	
146.865	minus	146.2	Giese	Not Operating
443.325	+5.00	146.2	Isanti	

Rev. KCØWDQ as of 12/01/24 For ARAC Newsletter

Continued on Page 9

DULUTH AREA REPEATERS, continued

NARC System NAØRC

147.135	plus	103.5	Knife River
147.135	plus	114.8	Duluth (rcv)

Stand Alone Repeaters

145.210	minus	110.9	Clam Lake, WI
146.880	minus	123.0	Grand Rapids, MN
146.910	minus	146.2	Duxbury, MN
146.955	minus	146.2	Askov, MN
147.105	plus	110.9	Chaffey, WI
444.850	+5.00	141.3	Cloquet, MN

Fusion

Fusion (Analog has tone and C4FM digital with no tone)

147.150 plus 151.4 NTØB Gilbert. MN Fusion Repeater
145.170 minus 110.9 WA9KLM Superior, WI – Douglas County RACES/ARES Fusion Repeater (Digital only) Fusion Room 28373

145.250 minus 103.5 KBØYHX Cloquet, MN – Carlton County RACES/ARES Fusion Repeater

444.300 +5.00 103.5 NØEO Duluth, MN – Spirit Valley Amateurs Fusion Repeater WIRES-X NØEO (Analog only) Fusion Room 40494

444.400	+5.00	103.5	NAØRC Knife River, MN – Wires X Connected to NØEO Room 40494
444.500	+5.00	103.5	NØLCR Two Harbors, MN – Wires X Connected to NØEO Room 40494
444.600	+5.00	103.5	NØLCR Silver Bay, MN – Wires X Connected to NØEO Room 40494
444.800	+5.00	103.5	NØLCR Grand Marais, MN – Wires X Connected to NØEO Room 40494
440.400	+5.00	110.9	WØLSA Maple, WI – Wires X Connected to NØEO Room 40494

D-Star

147.375	plus	NØEO D Star
442.200	plus	NØEO D Star

Rev. KCØWDQ as of 12/01/24 For ARAC Newsletter

Elmers

El-mer / ɛl-mər/ [el-mer]
1. a male given name: from Old English words meaning “noble” and “famous.”
2. an adhesive used to bond like or unlike materials
3. An experienced ham radio operator who mentors new and prospective hams.

Name	Call Sign	Expertise
Jeff Nast	KCØMKS	APRS, EchoLink, WinLink, Fusion, Contesting
Bob Schulz	KCØNFB	Contesting
Jim Anderson	NØJWA	QsoNet
Doug Nelson	AAØAW	HF, VHF/UHF, Contesting, Packet, APRS, Morse Code, VE testing, Echolink, Allstar, EmCom…

Membership Email Directory

Ahlgren, Scott **NØVYU**
sahlgren01@msn.com
Anderson, Jim **NØJWA**
kc0mko@centurylink.net
Anway, Allen **KC9LJN**
allen@a2d2.com
Bakke, Richard **KDØQHE**
rabakke46@aol.com
Barnes, Ray **KEØZN**
ke0zn@pm.me
Blodgett, Warren **KDØXI**
kd0xi@aol.com
Blotti, Nick **KBØMHD**
NickBlotti@hotmail.com
Bockbrader, Jonah **KEØCXD**
j@pelirrojo.ninja
Bockbrader, Rollie **KBØCK**
Rollie.bockbrader@q.com
Berger, William **W9YZI**
radiow9yzi@aol.com
Clemens, Butch **KBØSMG**
kb0smg@2z.net
Currier, Barb
bjcurrier@peoplepc.com
Dall, Jim **WDØGVW**
Dall, Teresa **KAØCDO**
wd0gvw@gmail.com
Dallavia, Paul **KCØWDQ**
kc0wdq@yahoo.com
Daly, Ed **KØYMF**
eddalymn@aol.com
Ellefsen, Gene **NØVRM**
lspitech@mail.com
Ferch, Tim **AKØTF**
ak0tf@aol.com
Ferguson, Tom **WBØDHB**
tferg5@msn.com
Fleischman, Bill **KCØZZL**
wfleisch@d.umn.edu
Forsyth, Grant **KCØWUP**
forsythgrantc@gmail.com
Frederick, Jerry **NØBNG**
n0bng@mchsi.com
Frederick, Julie **NØPIE**
jfreds@mchsi.com
Frey, Sam **KEØYTM**
ke0ytm@gmail.com
Fritze, David **KA5QEW**
fritzedavid@gmail.com
Gibbs, Rex **NØKXT**
n0kxt@yahoo.com
Gilsdorf, Paul **KFØGEX**
paul.gilsdorf@icloud.com
Godbout, Med **WØEEZ**
w0eezmedgodbout@centurytel.net
Gordon, Fritz **KD9BEW**
wizzard7@hushmail.com
Hanson, Gary **NUØW**
captaingary@chartermi.net
Harstad, Ben **KEØJDB**
coast_guard_aux_duluth@yahoo.com

Contact Kim or Steve Waller to include your name in this listing!

Hawkinson, Garry **WØELH**
garryhawkinson@yahoo.com
Hegrenes, Bruce **KØOE**
Hegrenes@charter.com
Jakubek, Patrick **KDØSGK**
kd0sgk@gmail.com
Johnson, Randy **AAØME**
randy@nsw4x4.com
Johnston, Art **KE8PT**
ajohnston2@charter.net
Keppers, Jody **KFØFWF**
jodykepp@gmail.com
Leslie, Shirl **KBØSBM**
dsleslie@centurytel.net
Maida, Tom **KFØALP**
tmaida@outlook.com
Makowski, Cletus **KBØLBS**
kb0lbs52@msn.com
Makowski, Karen **NØWEZ**
k-wez1@hotmail.com
Marchetti, Jim **KEØLHX**
ke0lhx@outlook.com
Mattson, Bing **KCØKRA**
Mattson, Kathy **KCØTIV**
HamToHam@msn.com
McCorison, Derek **WØDNF**
derek1068@hotmail.com
Meese, Joe **WØLWU**
rxcpd@yahoo.com
Miller, Dave **WØNWO**
dmiller@nwoutlet.com

Mullozzi, Anthony (Nick)
Nick **KDØYQA**
AJ **KDØYPZ**
Ben **KDØYQB**
Joe **KDØYQC**
amulloz@hotmail.com

Murray, Edwin **W1ELM**
w1elm@arrl.net
Nast, Jeffrey **KCØMKS**
kc0mks@gmail.com
Nelson, Doug **AAØAW**
aa0aw@chartermi.net
Nelson, Glen **KAØGGG**
mgnelsonØ1@gmail.com
Nelson, John **KBØSUW**
jon275@q.com
Nordin, Al **WBØDBQ**
anordin@aol.com
Olson, Lloyd Jr. **KC9JTC**
kc9jtc@yahoo.com
Pearson, Wayne **WØKRH**
meppsy@netzero.net
Pettit, Kathy **KCØYVM**
kc0yvm@gmail.com
Pomroy, Deb **KCØUKC**
dpomroy@pm.me

Contact Kim or Steve Waller to include your name in this listing!

Pyrlik, David **KØDJP**
David.pyrlik@gmail.com

Reger, Bernard **KB9KQZ**
Mike **KB9KRA**
Brian **KB9KUX**
Chris **KB9WJQ**
bjr5488@yahoo.com
Rosell, Dawson **KEØHEL**
rosel032@d.umn.edu
Saunders, Diane **KØDSL**
k0dslae@gmail.com
Scholz, Greg **KDØUYN**
kd0uyn@gmail.com
Schreyer, Dave **WAØAWZ**
wa0awz@gmail.com
Schulz, Robert **KCØNFB**
kc0nfb@charter.net
Scoggin, Gary **WØGRY**
garyscoggin@gmail.com
Snyder, Mark **ACØLE**
snyds1118@msn.com
Stark, John **KCØYVH**
johnvinyl@yahoo.com
Swanson, Scott **N9DMG**
sswanson6749@charter.net
Waller, Kim **KEØNQS**
ke0nqs.mn@gmail.com
Waller, Steve **KEØNQT**
ke0nqt@gmail.com
Whelan, Jacqui **KBØJIM**
cndymx@gmail.com
Whelan, John **KØJRW**
jr-whelan@hotmail.com
Winterscheidt, Heinz **KD6FSA**
alter.skipper@gmail.com
Wulf Gar **WU1FGR**
wu1fgr.ham@gmail.com

Members, please check your name and email address for accuracy. If you are not on this list and want to be on the list, contact us with your info. If you need to make a change, please let us know at KE0NQS.mn@gmail.com OR KE0NQT@gmail.com

Co-Editors,
Kim & Steve Waller
KEØNQS & KEØNQT

SUNDAY NIGHT NETS
193Ø - **CW - 28.125 MHz USB-CW**
2ØØØ -**USB 28.45Ø MHz**
21ØØ - **Southern St. Louis County Emergency Services Net**

MONDAY NIGHT NETS
2ØØØ- **Northland WX Net -** ARAC Repeater

FEBRUARY
CLUB EVENTS

TUESDAY NIGHT NETS
2ØØØ -**Douglas Cty 145.49Ø MHz**
2Ø3Ø -**Central Carlton County**

WEDNESDAY NIGHT NETS
19ØØ -**Lake County - LSAC1**
2nd & 4th Wednesdays
21ØØ -**BWAR**

	Mon	Tue	Wed	Thu	Fri	Sat
1 CW 1930 AAØAW USB 2000 AAØAW ES 2100 KD9VKI	2 WX 2000 KCØMKS	3 **ARAC BOARD MEETING** Sammy's Pizza 6:30 pm DC Net 2000 CC Net 2030	4 21ØØ -**BWAR**	5	6 Friday Night 6 meter Gag-Chew 50.125 USB 7 PM	7
8 CW 1930 NØPDG USB 2000 KB9WLB ES 2100 KCØWDQ	9 Douglas County ARES/RACES Mtg 1900 DC EOC WX 2000 KCØMKS	10 DC Net 2000 CC Net 2030	11 Lake County ARES/RACES Meeting 1800 **Lake County LSAC1 1900** 21ØØ -**BWAR**	12 **ARAC** Club Meeting Coppertop Church 7 PM	13 Friday Night 6 meter Gag-Chew 50.125 USB 7 PM	14
15 CW 1930 AAØAW USB 2000 K9KDK ES 2100 KFØLFZ	16 WX 2000 KCØMKS	17 DC Net 2000 CC Net 2030	18 21ØØ -**BWAR**	19	20 Friday Night 6 meter Gag-Chew 50.125 USB 7 PM	21
22 CW 1930 NØPDG USB 2000 KROB ES 2100 WØNWO	23 WX 2000 KCØMKS	24 DC Net 2000 CC Net 2030	25 **Lake County LSAC1 1900** 21ØØ -**BWAR**	26 Carlton County ARES/RACES Meeting 1900 CC EOC	27 Friday Night 6 meter Gag-Chew 50.125 USB 7 PM	28

Get this newsletter *faster* via email!
Email Doug AAØAW at
aaØaw@arrl.net

Next Club Meeting:
February 12, 2026 - 7 pm
Coppertop Church

ARAC Committee Chairs

Club License Trustee:
Ray Barnes KEØZN

Control Operators:
AAØAW - NØKXT - KCØNFB

Newsletter/Historian:
Kim KEØNQS & Steve KEØNQT Waller

Education Chair:
Bob Schulz KCØNFB

Hamfest Chair:
Bob Schulz KCØNFB

Chaplain:
Rollie Bockbader KBØCK

Visiting Chaplin:

Parliamentarian:
Grant Forsyth KCØWUP

Website:
Thomas Dorr KEØRHA

Membership:
Sam Frey KEØYTM

Property Chair:
Scott Ahlgren NØVYU

Testing:
Doug Nelson AAØAW

Field Day:

Picnic Chair:
Scott Ahlgren, NØVYU

Repeater Chairs:
Randy Haglin NØBZZ
Randy Wabik KAØJZV

Contest Calendar at www.contestcalendar.com

National Contest Journal at www.ncjweb.com

QSO Party Note: State/Province/National QSO Parties are abbreviated with the 2 or 3 letter abbreviation for the state/province/national designation followed by QP for QSO Party:

Examples: Minnesota QSO Party is MNQP
British Columbia QSO Party = BCQP

QRZ web site at www.qrz.com
VHF Propagation site at www.aprs.mountainlake.k12.mn.us

Reminder: The Contest Corral monthly listing of contests can be found in each issue of QST. ARRL sponsored contests can be found in Contest Corral, highlighted, or on the ARRL's web site at arrl.org.

ARRL International DX continued from page 1

connectivity, participating in DX CW keeps alive the pure, rhythmic essence of our hobby's beginnings. It reminds us that every "599" exchanged echoes the determination of those 1929 pioneers—and that the airwaves still belong to anyone willing to listen, learn, and send a few dits and dahs. And so, this issue of the ***Relay*** will highlight why this historical contest stands the test of time. Let's break down the basics:

The ARRL International DX Contest – CW: A Quick Guide for Newbies

As we mentioned, the ARRL International DX Contest (CW mode) is one of the oldest and most popular events in amateur radio, dating back to 1929 when it started as the "ARRL International Relay Party." It was renamed the **ARRL International DX Contest in 1936** and has run continuously since (with some wartime pauses), making it the longest-running contest in ham radio history.

When it Happens - Details:

The CW contest runs the third full weekend in February: **February 21–22, 2026**, from 0000 UTC Saturday to 2359 UTC Sunday (that's 6 PM CST Friday to 5:59 PM CST Sunday for us in Minnesota). ***It's 48 hours straight—join for as little or as much time as you like.***

1929 Burgess Battery ad. The Burgess Battery Company was founded in 1917 in Madison, Wisconsin by University of Wisconsin professor Charles F. Burgess.

Contest Objective

The goal is simple but exciting: Test your station and skills by making as many long-distance (DX) contacts as possible on HF bands during the contest weekend.

- If you're in the US/Canada (W/VE stations like us in Minnesota): Work as many DX stations (outside the US/Canada) as you can, in as many different DXCC countries/entities as possible.
- If you're DX (outside US/Canada): Work as many W/VE stations as you can, in as many US states and Canadian provinces as possible.

It's a "one-way" contest in spirit—W/VE ops chase DX, and DX ops chase states/provinces—to build knowledge of HF propagation, sharpen operating skills, and improve antennas/equipment. ***Everyone benefits from the frenzy of activity!***

How to Participate / "Sign up"

- No formal registration needed—just get on the air!
- Read the official rules (free PDF at **arrl.org/arrl-dx or contests.arrl.org).**
- Choose your category (e.g., Single Operator, Low Power <100W is popular for beginners; no club entry fee).
- Operate on these bands only: 160m, 80m, 40m, 20m, 15m, 10m (CW mode).

Continued on Page 14

ARRL International DX continued from page 13

- Exchange: W/VE stations send signal report + state/province (e.g., "599 MN"); DX stations send signal report + power class (e.g., "599 100").
- Log contacts (paper, computer logging software like N1MM Logger+ free, or even just a notebook).
- Submit your log electronically via the ARRL web upload (deadline usually ~1 week after, e.g., March 1, 2026).

It's low-pressure for newbies—many start with just a few contacts—and scores get published with certificates for top performers (even modest ones). Check spotting networks (like DX Summit) for active DX, or join nets for tips.

What Equipment Do You Need?

You don't need a super-station!

- Any HF transceiver (even QRP 5–10W works great in contests—many winners use low power).
- A decent antenna (dipole, vertical, or end-fed for starters; beam helps on higher bands).
- Morse code key (straight key, paddle, or even keyboard with software like CWType).
- Logging program (free options abound).
- Headphones and a quiet spot—**winter nights in MN are low-noise gold for DX.**

Many Elmers run portable or modest setups successfully. It's more about skill and propagation than fancy gear!

Captioned "PA4WM '29 Hartley", this beautiful old station is featured in an online gallery for antique ham radios and replicas, called VE7SL Radio Notebook. Visit the Gallery at https://qsl.net/ve7sl/29gallery.html

February DX Propagation Forecast for Northern Minnesota

- **Riding the Solar Cycle 25 Wave: Right** now we're in the declining phase after Solar Cycle 25's peak (smoothed sunspot max around 161 in late 2024—much stronger than early predictions of ~115!). Solar activity remains elevated, with recent strong X-class flares (including an X8.1 from active region 4366—third-strongest of the cycle so far), solar flux around 160–162, and daily sunspot counts in the 90–100 range. This keeps HF propagation lively, even as the cycle slowly winds down.

What does this mean for northern Minnesota ops? Northern latitudes like ours (high geomagnetic latitude) give unique advantages and challenges:

- Higher bands (15m, 10m, even 12m when open): Daytime openings to Europe, Asia, South America, and Pacific spots should be good-to-excellent during the contest. *Continued on Page 15*

ARRL International DX continued from page 14

Recent flux levels (often 140–160+) support short-skip and long-path DX. Watch for solar flare effects—strong flares can cause brief radio blackouts (R-level events) on the sunlit side but often lead to enhanced conditions afterward.

- Lower bands (40m, 80m, 160m): Excellent at night with low winter atmospheric noise—perfect for DX into Europe/Africa on 40m/80m, or even Caribbean/South America on 160m. Cold, quiet winter nights in MN reduce static, helping weak signals pop through.

Geomagnetic effects: Recent activity raises chances of disturbances (Kp 4–5 possible), which can hurt low-band DX but boost auroral propagation on VHF (bonus for 6m/2m if you're into that). Monitor NOAA's spaceweather.gov for 27-day forecasts—expect moderate activity with occasional M/X flares.

Quick Explanation of Solar Cycle 25:

The Sun goes through ~11-year cycles of activity (sunspots, flares, etc.). Cycle 25 started in late 2019 and peaked higher/faster than expected, giving us fantastic HF conditions now. Higher sunspot numbers = better ionosphere = more DX openings, especially on upper bands. We're past the max but still in a strong phase—great for the ARRL DX CW contest!

Track real-time data at sites like spaceweatherlive.com or swpc.noaa.gov

TIPS FOR NORTHERN MINNESOTA SUCCESS

- **Focus on 20m/15m mornings/early afternoons for transatlantic DX.**
- **Use online tools (VOACAP, PSKReporter) for band predictions.**
- **Low power + good antenna + patience = fun scores.**
- **Watch for aurora visuals as a bonus—NORTHERN LIGHTS often coincide with geomagnetic bumps!**

Continued on Page 16

ARRL International DX continued from page 15

OK. Let's circle back and focus a bit on equipment for someone who does not have an antenna or a traditional station for CW, but would like to participate via computer and keyboard. Many ham radio operators (especially newer ones or those in apartments/HOAs with no outdoor antenna space) want to dip into contesting without a full traditional setup.

The **ARRL International DX CW Contest is strictly CW-only** (Morse code on HF bands: 160m, 80m, 40m, 20m, 15m, 10m), so digital modes like FT8 aren't allowed here. But you can participate effectively using just a computer keyboard for sending/receiving CW, even if you don't have your own antenna or transceiver yet.

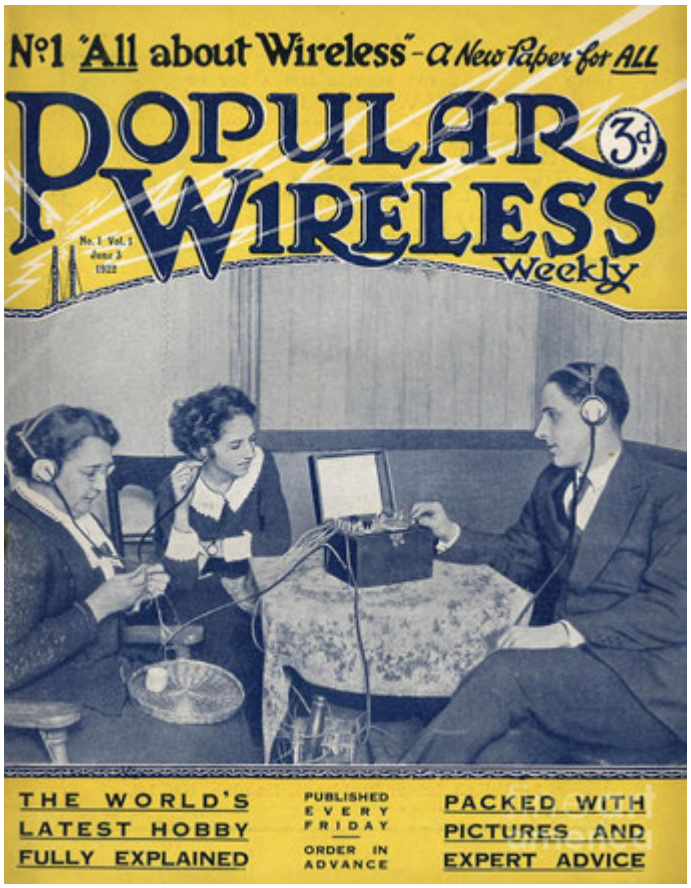
Getting on the Air for ARRL DX CW Without an Antenna or Traditional Rig: Keyboard-Only Options

Don't have a big antenna farm, HF radio, or even a Morse key/paddle? No problem! Many operators start (or even compete seriously) using computer-based CW—typing on your keyboard to send perfect code and letting software decode incoming signals. This is especially great for northern Minnesota folks dealing with winter setup challenges or restrictions. Here's how to jump in with minimal gear:

Option 1: Remote Operation (The Easiest No-Antenna Path – Highly Recommended for Beginners)

- Control a real HF station over the internet from your computer—no local radio or antenna needed!
- Services like RemoteHamRadio.com, Ham Radio Deluxe Remote, or club/shared remote stations (check if a club member or a friend has one set up) let you log in, tune the radio, and operate CW contests remotely. Many are in great locations with big antennas and legal high power.
- You use free logging/contesting software (like N1MM Logger+—highly popular and free) on your PC/Mac.
- Type your callsign or exchange messages on the keyboard (F-keys send pre-programmed CW messages like "CQ TEST DE YOURCALL" or "599 MN").
- Software handles sending perfect CW at any speed.

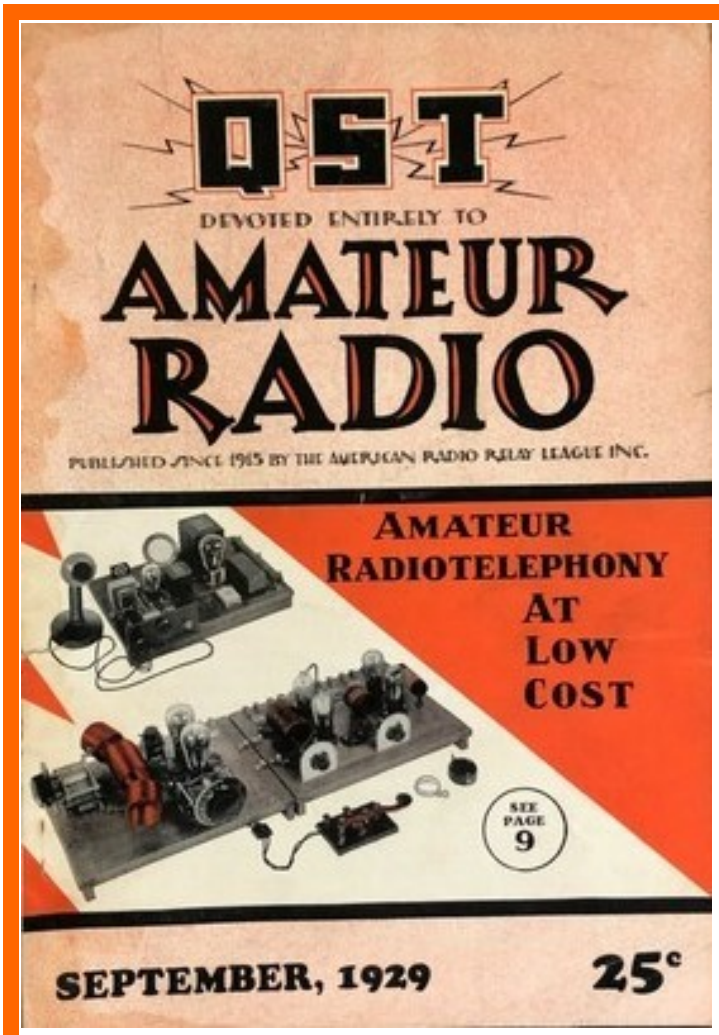
Continued on Page 17



OLDE TYME TRIVIA CORNER

Popular Wireless Weekly was a pioneering UK weekly magazine focused on early radio technology, broadcasting news, listener experiences, and practical construction projects for radio amateurs. It began publication on **June 3, 1922,** published by **Amalgamated Press Limited.** It later merged with other titles and ceased on December 25, 1937.

ARRL International DX continued from page 16



1929 QST Magazine Cover offers hams a how-to on building a low cost station.

- Incoming CW is decoded by the program (or you can copy it by ear if you're learning).
- Rules allow remote operation in ARRL contests as long as the remote station's location follows its country's regs (e.g., US remote stations are fine). Just use the call of the remote station (with permission) and note it's remote in your log if required.

Option 2: Use Your Existing Radio + Computer Interface (If You Have a Basic HF Rig Already)

If you have even a modest HF transceiver (e.g., an older rig, QRP portable, or SDR like a Flex/Hermes-lite), connect it to your computer:

- Sound card interface (cheap USB ones like Signalink or homemade with isolation transformers ~$20–50) handles audio in/out.
- CAT control cable (often USB) for rig tuning/frequency control.
- Software like N1MM Logger+, Win-Test, or CQRLOG turns your keyboard into a full CW station:
- Press F1–F12 to send messages (callsign, exchange "599 MN", TU, etc.)—perfect CW every time, no keying mistakes.
- Built-in or add-on decoders (e.g., CWGet or MRP40 plugins) show incoming CW as text on screen.
- For pure keyboard sending without a paddle, N1MM supports "keyboard mode" or macro keys.
- No hardware key needed—the computer generates the tones and keys the rig via the interface.

Option 3: Pure Software Practice/Decode Mode (while building up/waiting for remote access or gear):

- Download Morse Runner (free) to simulate contest pileups on your PC—practice copying/sending with keyboard.
- Use CW Skimmer or FLDigi (with CW plugin) to decode live HF signals from a WebSDR (online remote receivers like websdr.org—no transmit, but great for learning propagation and contest-style CW).
- This builds skills before the real contest.

Quick Gear Minimums for Keyboard CW Success

- Computer/laptop (Windows/Mac/Linux all work).
- Free software: N1MM Logger+ (contest champ—download from n1mm.hamdocs.com).
- Headphones for clear audio.
- Internet for remote ops or spotting (spotting networks like DX Summit help find DX).

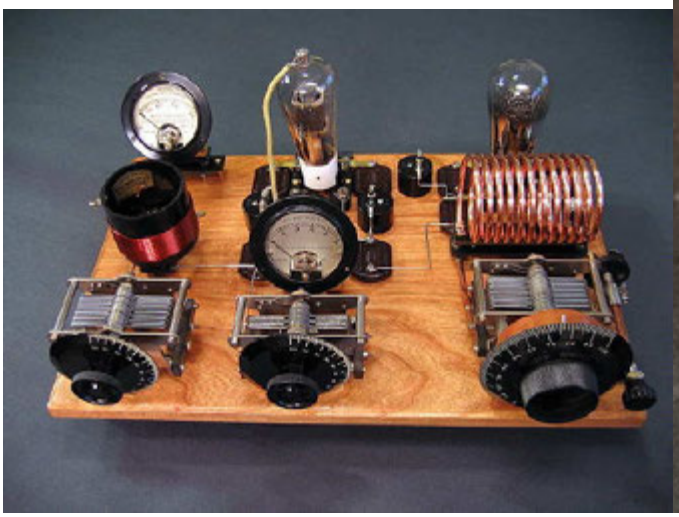
Continued on Page 18

ARRL International DX continued from page 17

BONUS Gallery images from VE7SL Radio Notebook!

Top Left: KK7UV - 245 / 865 MOPA **Top Right: KK7UV - 20m PTO Hartley - 227**

Bottom: VE3AWA - TPTG - UX-171A



More gallery images at https://qsl.net/ve7sl/29gallery.html

Finally, ladies and gentlemen, many Elmers swear by keyboard CW in contests—it's fast, accurate, and fatigue-free compared to a straight key. Even high scorers use it! With current strong Solar Cycle 25 conditions (flux ~160, good upper-band openings), typing your way to DX from northern MN could net you Europe on 15m or Pacific on 10m without ever touching snow-covered coax. This keeps the entry barrier super low while staying 100% within rules (no computer-decoding restrictions for sending; receiving decode is allowed in most categories).

We hope you all plan to participate in the ARRL International DX – CW Contest this year! We encourage you to share your contesting experience– along with a photo of your station—and we'll post it in next month's issue of the ***Relay***.

73 & Happy Contesting! ★

Contest Calendar - February 2026

+ North American SSB Sprint Contest	0000Z-0400Z, Feb 1
+ Marconi Club ARI Loano Slow CW QSO Party	1300Z-2300Z, Feb 1
+ Real Time Contest	1600Z-1900Z, Feb 1
+ K1USN Slow Speed Test	0000Z-0100Z, Feb 2
+ ICWC Medium Speed Test	1300Z-1400Z, Feb 2
+ OK1WC Memorial (MWC)	1630Z-1729Z, Feb 2
+ ICWC Medium Speed Test	1900Z-2000Z, Feb 2
+ RSGB 80m Club Championship, SSB	2000Z-2130Z, Feb 2
+ ARS Spartan Sprint	0100Z-0300Z, Feb 3
+ Worldwide Sideband Activity Contest	0100Z-0159Z, Feb 3
+ ICWC Medium Speed Test	0300Z-0400Z, Feb 3
+ QRP Fox Hunt	0200Z-0330Z, Feb 4
+ Phone Weekly Test	0230Z-0300Z, Feb 4
+ A1Club AWT	1145Z-1300Z, Feb 4
+ CWops Test (CWT)	1300Z-1400Z, Feb 4
+ VHF-UHF FT8 Activity Contest	1700Z-2100Z, Feb 4
+ Mini-Test 40	1700Z-1759Z, Feb 4
+ Mini-Test 80	1800Z-1859Z, Feb 4
+ CWops Test (CWT)	1900Z-2000Z, Feb 4
+ UKEICC 80m Contest	2000Z-2100Z, Feb 4
+ VHF-UHF FT8 Activity Contest-NA	0000Z-0500Z, Feb 5
+ Walk for the Bacon QRP Contest	0000Z-0100Z, Feb 5 and 0200Z-0300Z, Feb 6
+ CWops Test (CWT)	0300Z-0400Z, Feb 5
+ CWops Test (CWT)	0700Z-0800Z, Feb 5
+ NRAU 10m Activity Contest	1800Z-1900Z, Feb 5 (CW) and 1900Z-2000Z, Feb 5 (SSB) and 2000Z-2100Z, Feb 5 (FM) and 2100Z-2200Z, Feb 5 (Dig)

Continued on Page 20

Contest Calendar - February 2026

+ SKCC Sprint Europe	2000Z-2200Z, Feb 5
+ NCCC FT4 Sprint	0100Z-0130Z, Feb 6
+ Weekly RTTY Test	0145Z-0215Z, Feb 6
+ QRP Fox Hunt	0200Z-0330Z, Feb 6
+ NCCC Sprint Ladder	0230Z-0300Z, Feb 6
+ K1USN Slow Speed Test	2000Z-2100Z, Feb 6
+ Vermont QSO Party	0000Z, Feb 7 to 2400Z, Feb 8
+ LABRE-RS Digi Contest	0000Z, Feb 7 to 2059Z, Feb 8
+ 10-10 Int. Winter Contest, SSB	0001Z, Feb 7 to 2359Z, Feb 8
+ Mexico RTTY International Contest	1200Z, Feb 7 to 2359Z, Feb 8
+ F9AA Cup, CW	1200Z, Feb 7 to 1200Z, Feb 8
+ European Union DX Contest	1200Z, Feb 7 to 1200Z, Feb 8
+ Minnesota QSO Party	1400Z-2400Z, Feb 7
+ FYBO Winter QRP Sprint	1400Z-2400Z, Feb 7
+ AGCW Straight Key Party	1600Z-1900Z, Feb 7
+ British Columbia QSO Party	1600Z, Feb 7 to 0359Z, Feb 8 and 1600Z-2359Z, Feb 8
+ North American Sprint, CW	0000Z-0359Z, Feb 8
+ K1USN Slow Speed Test	0000Z-0100Z, Feb 9
+ 4 States QRP Group Second Sunday Sprint	0100Z-0300Z, Feb 9
+ ARRL School Club Roundup	1300Z, Feb 9 to 2359Z, Feb 13
+ ICWC Medium Speed Test	1300Z-1400Z, Feb 9
+ OK1WC Memorial (MWC)	1630Z-1729Z, Feb 9
+ ICWC Medium Speed Test	1900Z-2000Z, Feb 9
+ Worldwide Sideband Activity Contest	0100Z-0159Z, Feb 10
+ ICWC Medium Speed Test	0300Z-0400Z, Feb 10
+ DARC FT4 Contest	1900Z-2029Z, Feb 10

Continued on Page 21

Contest Calendar - February 2026

+ NAQCC CW Sprint	0130Z-0330Z, Feb 11
+ QRP Fox Hunt	0200Z-0330Z, Feb 11
+ Phone Weekly Test	0230Z-0300Z, Feb 11
+ A1Club AWT	1145Z-1300Z, Feb 11
+ CWops Test (CWT)	1300Z-1400Z, Feb 11
+ VHF-UHF FT8 Activity Contest	1700Z-2100Z, Feb 11
+ Mini-Test 40	1700Z-1759Z, Feb 11
+ Mini-Test 80	1800Z-1859Z, Feb 11
+ CWops Test (CWT)	1900Z-2000Z, Feb 11
+ RSGB 80m Club Championship, Data	2000Z-2130Z, Feb 11
+ VHF-UHF FT8 Activity Contest-NA	0000Z-0500Z, Feb 12
+ CWops Test (CWT)	0300Z-0400Z, Feb 12
+ CWops Test (CWT)	0700Z-0800Z, Feb 12
+ YLRL YL-OM Contest	0000Z, Feb 13 to 2359Z, Feb 14
+ NCCC FT4 Sprint	0100Z-0130Z, Feb 13
+ Weekly RTTY Test	0145Z-0215Z, Feb 13
+ QRP Fox Hunt	0200Z-0330Z, Feb 13
+ NCCC Sprint	0230Z-0300Z, Feb 13
+ K1USN Slow Speed Test	2000Z-2100Z, Feb 13
+ CQ WW RTTY WPX Contest	0000Z, Feb 14 to 2359Z, Feb 15
+ PODXS 070 Club Valentine Sprint	0000Z-2359Z, Feb 14
+ Asia-Pacific Spring Sprint, CW	1100Z-1300Z, Feb 14
+ SKCC Weekend Sprintathon	1200Z, Feb 14 to 2400Z, Feb 15
+ KCJ Topband Contest	1200Z, Feb 14 to 1200Z, Feb 15
+ Dutch PACC Contest	1200Z, Feb 14 to 1200Z, Feb 15
+ OMISS QSO Party	1500Z, Feb 14 to 1500Z, Feb 15
+ WAB 1.8 MHz Phone	1900Z-2359Z, Feb 14

Continued on Page 22

Contest Calendar - February 2026

+ RSGB 1.8 MHz Contest	2000Z-2300Z, Feb 14
+ Balkan HF Contest	1300Z-1700Z, Feb 15
+ Run for the Bacon QRP Contest	2300Z, Feb 15 to 0100Z, Feb 16
+ K1USN Slow Speed Test	0000Z-0100Z, Feb 16
+ ICWC Medium Speed Test	1300Z-1400Z, Feb 16
+ OK1WC Memorial (MWC)	1630Z-1729Z, Feb 16
+ ICWC Medium Speed Test	1900Z-2000Z, Feb 16
+ Worldwide Sideband Activity Contest	0100Z-0159Z, Feb 17
+ ICWC Medium Speed Test	0300Z-0400Z, Feb 17
+ QRP Fox Hunt	0200Z-0330Z, Feb 18
+ Phone Weekly Test	0230Z-0300Z, Feb 18
+ A1Club AWT	1145Z-1300Z, Feb 18
+ CWops Test (CWT)	1300Z-1400Z, Feb 18
+ VHF-UHF FT8 Activity Contest	1700Z-2100Z, Feb 18
+ Mini-Test 40	1700Z-1759Z, Feb 18
+ Mini-Test 80	1800Z-1859Z, Feb 18
+ AGCW Semi-Automatic Key Evening	1900Z-2030Z, Feb 18
+ CWops Test (CWT)	1900Z-2000Z, Feb 18
+ VHF-UHF FT8 Activity Contest-NA	0000Z-0500Z, Feb 19
+ Walk for the Bacon QRP Contest	0000Z-0100Z, Feb 19 and 0200Z-0300Z, Feb 20
+ CWops Test (CWT)	0300Z-0400Z, Feb 19
+ CWops Test (CWT)	0700Z-0800Z, Feb 19
+ NTC QSO Party	1900Z-2000Z, Feb 19
+ NCCC FT4 Sprint	0100Z-0130Z, Feb 20
+ Weekly RTTY Test	0145Z-0215Z, Feb 20
+ QRP Fox Hunt	0200Z-0330Z, Feb 20

Continued on Page 23

Contest Calendar - February 2026

+ NCCC Sprint	0230Z-0300Z, Feb 20
+ K1USN Slow Speed Test	2000Z-2100Z, Feb 20
+ ARRL Inter. DX Contest, CW	0000Z, Feb 21 to 2400Z, Feb 22
+ REF Contest, SSB	0600Z, Feb 21 to 1800Z, Feb 22
+ Russian PSK WW Contest	1200Z, Feb 21 to 1159Z, Feb 22
+ Feld Hell Sprint	1900Z-2059Z, Feb 21
+ World Wide Argentina DX Contest	0000Z-2359Z, Feb 22
+ High Speed Club CW Contest	1400Z-1700Z, Feb 22
+ Classic Exchange, Phone	1400Z, Feb 22 to 0800Z, Feb 23 and 1400Z, Feb 24 to 0800Z, Feb 25
+ Classic Exchange, Phone	1400Z, Feb 22 to 0800Z, Feb 23 and 1400Z, Feb 24 to 0800Z, Feb 25
+ K1USN Slow Speed Test	0000Z-0100Z, Feb 23
+ QCX Challenge	1300Z-1400Z, Feb 23
+ ICWC Medium Speed Test	1300Z-1400Z, Feb 23
+ OK1WC Memorial (MWC)	1630Z-1729Z, Feb 23
+ QCX Challenge	1900Z-2000Z, Feb 23
+ ICWC Medium Speed Test	1900Z-2000Z, Feb 23
+ RSGB FT4 Contest	2000Z-2200Z, Feb 23
+ Worldwide Sideband Activity Contest	0100Z-0159Z, Feb 24
+ QCX Challenge	0300Z-0400Z, Feb 24
+ ICWC Medium Speed Test	0300Z-0400Z, Feb 24
+ SKCC Sprint	0000Z-0200Z, Feb 25
+ QRP Fox Hunt	0200Z-0330Z, Feb 25
+ Phone Weekly Test	0230Z-0300Z, Feb 25
+ A1Club AWT	1145Z-1300Z, Feb 25
+ CWops Test (CWT)	1300Z-1400Z, Feb 25

Continued on Page 24

Contest Calendar - February 2026

+ Mini-Test 40	1700Z-1759Z, Feb 25
+ Mini-Test 80	1800Z-1859Z, Feb 25
+ CWops Test (CWT)	1900Z-2000Z, Feb 25
+ UKEICC 80m Contest	2000Z-2100Z, Feb 25
+ CWops Test (CWT)	0300Z-0400Z, Feb 26
+ CWops Test (CWT)	0700Z-0800Z, Feb 26
+ RSGB 80m Club Championship, CW	2000Z-2130Z, Feb 26
+ NCCC FT4 Sprint	0100Z-0130Z, Feb 27
+ Weekly RTTY Test	0145Z-0215Z, Feb 27
+ QRP Fox Hunt	0200Z-0330Z, Feb 27
+ NCCC Sprint	0230Z-0300Z, Feb 27
+ K1USN Slow Speed Test	2000Z-2100Z, Feb 27
+ CQ 160-Meter Contest, SSB	2200Z, Feb 27 to 2200Z, Mar 1
+ UBA DX Contest, CW	1300Z, Feb 28 to 1300Z, Mar 1
+ South Carolina QSO Party	1500Z, Feb 28 to 0159Z, Mar 1
+ North American QSO Party, RTTY	1800Z, Feb 28 to 0559Z, Mar 1
+ NA Collegiate Championship, RTTY	1800Z, Feb 28 to 0559Z, Mar 1

Our thanks to
Bruce Horn, WA7BNM for use of this calendar!
Visit Bruce at www.contestcalendar.com/contestcal.html

The ARAC RELAY

Published monthly and distributed free to members, "The RELAY" is the official publication of the Arrowhead Radio Amateur Club, Inc. Members are encouraged to submit articles, opinions, and classifieds. Your submission will be placed as soon as possible providing it does not conflict with the bylaws of the Arrowhead Radio Amateur Club, Inc. The editors reserve the right to omit any submission that is not a required item. If a submission is questionable, it will be presented to the Board of Directors at the next scheduled board meeting for authorization.