



The RELAY

January
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

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The Relay Co-Editors:

Kim & Steve Waller

Kim - KE0NQS Steve - KE0NQT
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Winter
2026



Join us on
Facebook!

Amateur Radio's Future Inspiring the Next Generation of Hams

In an era where technology surges forward at an unprecedented pace, captivating young minds with sleek gadgets and instant connectivity, the timeless charm of amateur radio risks fading into the shadows unless we, the current stewards of this hobby, actively build bridges to the next generation.

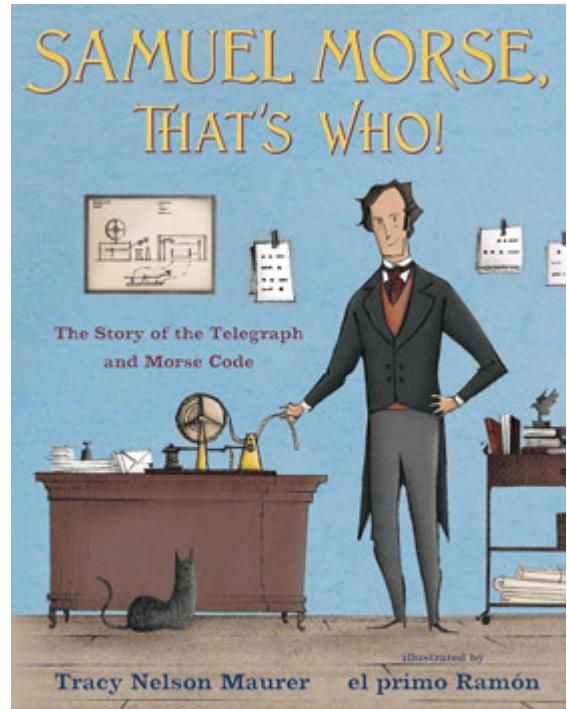
As members of the ham radio community in the Northland, we hold the key to igniting curiosity in children and youth, transforming what might seem like an "obsolete" pastime into a gateway for the future of the hobby in our area.

By leveraging ARRL's programs for children & youth, and designing unique approaches of our own, we can ensure ham radio continues to thrive in the decades to come.

Yours truly is calling for an "all hands on deck" approach for the Arrowhead Radio Amateur Club membership to look at all ARAC 2026 activities, identifying opportunities to reach and teach the kids of our communities.

This issue of the Relay is resource-focused, with descriptions, overviews and links to ARRL programs and materials for you to explore. We also have some excellent suggestions of additional ham radio-friendly books, activities, and games that you can obtain to ignite the imagination of the kids in your family and neighborhood. And that, my friends, is key. As we put materials into the hands of children around us that make learning about amateur radio fun, we can foster connections that grow into neighborhood play groups, schools and clubs.

And so we begin with books for children, most notably with our **Editor's Pick**, pictured above right, an excellent story about Samuel Morse authored by Tracy Nelson Maurer and illustrated by el primo Ramon. *Continued on Page 13*



Tracy Nelson Maurer's excellent book for kids ages 4-8 Image credit: Tracy Nelson Maurer and el primo Ramon



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2ND YEAR BOARD



KF0LFZ
Brian Beckman

1ST YEAR BOARD



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Board Meeting Minutes - December 2, 2025

Present:

Board Members

Gene Ellefsen – N0VRM, William Turk - KFOILA, David Pyrlik - KODJP, Brian Beckman - KF0LFZ, Randy Wabik - KROB, Dave David - AA0AC, Justin Cheever - KD9VKI

Board Advisors (Non-Board Members)

Doug Nelson - AA0AW, Rick Minnoti

Guest:

Meeting called to order by President Gene – N0VRM at 18:42 (6:42 pm)

Minutes:

Approved by Randy Wabik - KROB and Dave Davis - AA0AC

Treasurer's Report:

Checking: 853.13

Savings: 5800.45

Repeater: 4359.54

Assets Subtotal: \$11,013.12

Motion made by William Turk - KFOILA to accept Treasurer's report as is, seconded by Dave Davis - AA0AC. Motion passed.

New Business:

- Make Sure to have dues ready!
- Test Session January 20th
- Winterfield day January 24th-25th at Dave Davis House

Motion to adjourn by Dave - AA0AC, seconded by William Turk- KFOILA, motion passed at 19:02 (7:02 PM).





ARAC Club Meeting Minutes

December 11, 2025

Present:

President: Gene Ellefsen – NOVRM
Treasurer/Membership: Randy Wabik - KROB
Secretary: William Turk – KFOILA
First Year Board: Brian Beckman- KFOLFZ
Second Year Board: Justin Cheever – KD9VKI
Third Year Board: Dave Davis – AA0AC
Parliamentarian: Grant Forsyth – KCOWUP
HamFest/Education: Bob Schulz – KCONFB
Special Events: Open/Gene Ellefsen – NOVRM (acting)
Testing: Doug Nelson – AA0AW
Vice President: Dave Pyrluk – K0DJP
Repeater: Dave Pyrluk – K0DJP
Property/Picnic: Scott Ahlgren – NOVYU

Absent:

Newsletter/Historian: Kim Waller – KE0NQS
Newsletter/Historian: Steve Waller – KE0NQT
Web Site: Thomas Dorr – KE0RHA
Chaplin:

Meeting called to order at 18:10 (6:10 PM) by President Gene Ellefsen – NOVRM.

Minutes:

Minutes are posted on the website and in the newsletter. Motion to accept by Doug Nelson - AA0AW, seconded by John Nelson - NOUOZ, motion Passed.

Treasurer's Report:

Checking: 853.13
Savings: 5800.45
Repeater: 4359.54
Assets Subtotal: \$11,013.12

Firsted by Doug Nelson - AA0AW seconded John Nelson - NOUOZ motion passed

Testing:

As always if you are looking to test or upgrade or know of anyone that is interested in testing, please contact Doug Nelson at AA0AW@arrl.net.

Continued on Page 4



ARAC Club Meeting Minutes continued

New Business:

- President: Gene -N0VRM
- Vice Pres.: John - N0UOZ
- Secretary: Melinda - KF0GJW
- Treasurer: Randy - KROB
- First Year Board: Dave - AA0AC
- Congrats to Randy - KROB for being awarded the W9IBM award.
- Winter Field Day Dave Davis House 24th-25th

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

Door Prize was won by W0ELH

Motion to adjourn by Justin - KD9VKI, seconded by Melinda - KF0GJW, motion passed at 18:20 (6:20 PM).



CLUB REPEATER
WØGKP
146.94 (-)
CTCSS TONE



Prez Sez...

Hello Everyone,

WINTER. FIELD DAY.

Saturday, January 24 and Sunday, January 25 at **Dave and Robin Davis's house** 1461 Carl St. Cloquet. To get there, take the Hwy 33 exit as you come up to the roundabout. Stay in the left lane & go through to the frontage road. Go to Carl St. and the house is on the right as you turn onto Carl St.

We will be in the garage. Operating times are 1:00 PM Saturday to 1:00 PM Sunday Everyone is welcome—especially all you new Hams! This is a chance for you to operate HF. We do a potluck, so if you would like to bring something to share that would be great.

Gene Ellefsen NØVRM

The 2025 Thomas J Reibold Award



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

A - - -	M - - -	Y - - - -
B - - - -	N - - -	Z - - - -
C - - - - -	O - - - -	1 - - - - -
D - - - - -	P - - - -	2 - - - - -
E - - - - -	Q - - - -	3 - - - - -
F - - - - -	R - - - -	4 - - - - -
G - - - - -	S - - - -	5 - - - - -
H - - - - -	T - - - -	6 - - - - -
I - - - - -	U - - - -	7 - - - - -
J - - - - -	V - - - -	8 - - - - -
K - - - - -	W - - - -	9 - - - - -
L - - - - -	X - - - -	0 - - - - -

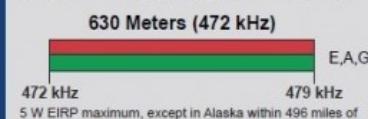


US Amateur Radio Bands

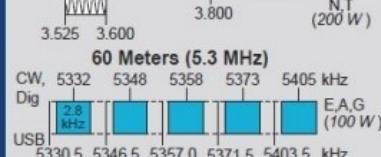
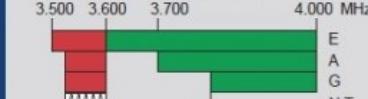
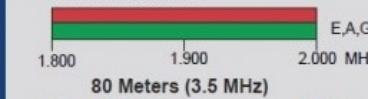
US AMATEUR POWER LIMITS

FCC 97.313 An amateur station must use the minimum transmitter power necessary to carry out the desired communications. (b) No station may transmit with a transmitter power exceeding 1.5 kW PEP.

On March 28, 2017, the Federal Communications Commission adopted rules that will allow Amateur Radio access to 472-479 kHz (630 meters) and to 135.7-137.8 kHz (2,200 meters). However, amateurs cannot use these frequencies until 30 days after the Report and Order is published in the Federal Register and the final procedures for registering stations with the Utilities Telecoms Council (UTC) have been approved and announced. At the time this chart was created, the Report and Order had not been published and the UTC online registration site is not yet available. Follow ARRL news for further information. New charts will be published at www.arrl.org/graphical-frequency-allocations when the bands are fully available for use.



160 Meters (1.8 MHz)
Avoid interference to radiolocation operations from 1.900 to 2.000 MHz



General, Advanced, and Amateur Extra licensees may operate on these five channels on a secondary basis with a maximum effective radiated power (ERP) of 100 W PEP relative to a half-wave dipole. Permitted operating modes include upper sideband voice (USB), CW, RTTY, PSK31 and other digital modes such as PACTOR III. Only one signal at a time is permitted on any channel.

**Effective Date for
2,200 and 630 Meters
to be announced**



ARRL The national association for AMATEUR RADIO®

KEY

- Note: CW operation is permitted throughout all amateur bands.
- MCW is authorized above 50.1 MHz, except for 144.0-144.1 and 219-220 MHz.
- Test transmissions are authorized above 51 MHz, except for 219-220 MHz.
- RTTY and data
- Phone and image
- CW only
- SSB phone
- USB phone, CW, RTTY, and data
- Fixed digital message forwarding systems only

- E = Amateur Extra
- A = Advanced
- G = General
- T = Technician
- N = Novice

See [ARRLWeb](http://www.arrl.org) at www.arrl.org for detailed band plans.

ARRL We're At Your Service

ARRL Headquarters:
860-594-0200 (Fax 860-594-0259)
email: hq@arrl.org

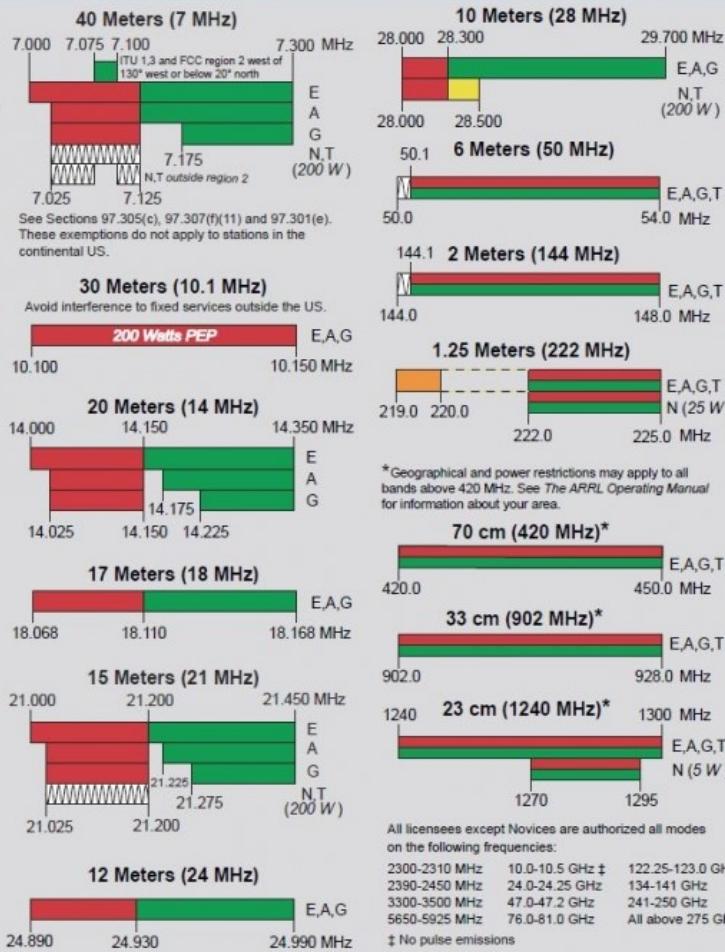
Publication Orders:
www.arrl.org/shop
Toll-Free 1-888-277-5269 (860-594-0355)
email: orders@arrl.org

Membership/Circulation Desk:
www.arrl.org/membership
Toll-Free 1-888-277-5269 (860-594-0338)
email: membership@arrl.org

Getting Started in Amateur Radio:
Toll-Free 1-800-326-3942 (860-594-0355)
email: newham@arrl.org

Exams: 860-594-0300 email: vec@arrl.org

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All licensees except Novices are authorized all modes on the following frequencies:

2300-2310 MHz 10.0-10.5 GHz ± 122.25-123.0 GHz
2390-2450 MHz 24.0-24.25 GHz 134-141 GHz
3300-3500 MHz 47.0-47.2 GHz 241-250 GHz

5650-5925 MHz 76.0-81.0 GHz All above 275 GHz

‡ No pulse emissions

NETS

Have a favorite HF/6m/2m/1.25m/70cm net that you check into or listen in on? Also, please send corrections and we will add it to the list below - Kim KE0NQS at my email KE0NQS.mn@gmail.com.

- **Northland Weather Group Net:** Mondays 2000 on the ARAC repeater (146.940 MHz with a tone of 103.5 and standard offset).
- **Minnesota D-Star Net:** Sundays at 19:30 on Reflector 53A
- **Minnesota Section Net** 1200 and 1730 on 3.860 [Net Manager: NØYR] http://www.mn-section.org/dept_stm.html
- The non-non-net: Evenings 2000 144.200 USB except for Sunday evenings.
- Badger WX Net: 0500-0715 on 3.985. Give 24 hour high/low/current temperature, precipitation and snowfall.
- **PICONET:** 3.925 from 0900-1100 CT Mon-Sat and 1600-1700 CT Mon-Fri. Info at: <http://www.piconet3925.com>
- Michigan Upper Peninsula Net: 1600 (CST) on 3.921 MHz Sun-Sat and 1200 Sun. Info: <http://www.michupnet.com>
- Great Lakes Marine/Maritime Mobile Net: Morning 07:30 - 3.932; 08:15 - 7.261 MHz and evening 18:30 - 3.1730927; 19:15 - 7.268 MHz. Weekend extra net: 10:00 - 7.261/7.268 MHz. All CST, LSB and +/- QRM. See: <http://www.sailblogs.com/member/glmmnet/>
- MIDCARS: 07:30-13:00 - 7.258 MHz. See: <http://www.midcars.net>
- Iowa snowbird net on 14.257MHz, M-W-F at 10:00 am Local Time. This is an open net.
- Spider Web Net (Marco Island FL) on 14.347 every morning at 0730 CST/CDT: <http://www.spiderwebnet.net>
- Maritime Mobile Service Network: Daily at 1100—2100 Central on 14.300. <http://mmsn.org> and <http://www.14300.net>
- RV Radio Network: Every day at 1900 Central on 7.265 MHz. Web site: <http://www.rvradionetwork.com>
- Upper Midwest Ten Meter Net: Every Thursday Evening @ 8 PM – 28.480 MHz USB
- Wisconsin Sideband Net: Daily @ 5:15 PM – 3985 [or 3982.5] KHz LSB
- Hobby Helpers Net - Tuesday @ 8 PM – 28.330 MHz USB (Isanti MN) LSB [Net Manager: WO0A].
- Northstar Trader Net: 3.908 +/- at 0830 CST Sundays
- WARFA: 3.908 +/- Sun/Tue/Thu nights at 2200 CST, <http://warfa.org/>
- Youth Net: 14.320-14330 Sundays 1800-1900 UTC, Net Control: AC8PI
- YACHT: Saturdays 1900 CST on EchoLink #481872, <http://yachthams.webstarts.com>
- Northwestern Ontario ARES Net: Evenings at 20:15 (Central) on +/- 3.750Mhz
- The Iron Range Net: Saturdays at 0800 Central time on or near 3.919 Mhz. Look them up on Facebook!
- FORX Net: Mondays at 1900 Central at 3.941 Mhz +/- QRM. WA0JXT — Grand Forks, North Dakota
- HF CW: Fridays 08:00 CST, 7.112 MHz. Informal slow speed CW Net. W8IRT NCS. Email: w8irt@aol.com
- Minnesota ARES Digital Net: Thursdays at 2000 CST, 3.5835 MHz USB +/- QRM, Mode: Olivia 8/500.
- SARA Digital Net: Sundays at 1900 Local, 3.582.150 MHz USB +/- QRM, Mode: BPSK31/BPSK63
- Spider Web Net (Marco Island FL): 14.347 every morning at 0730 CST/CDT: <http://www.spiderwebnet.net>
- Broadcaster Net: 7.231 or 3.855 M/W/F @ 1500 UTC. 14.255 M-F @ 2130 UTC. <http://www.cbsretirees.com/ham.htm>
- Old Military Radio Net: 7.268 +/- nightly at 0200z. Other times/Frequencies too. See: <http://www.mrca.ar88.net/>
- Rag Chew Crew/Tailgaters/Freewheelers Nets: 3.916 +/- nightly at 1900 CST, <http://www.tailgatersnet.com>
- North South Net: 7.214.6 +/- at 0700 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	
147.165	plus	114.8	Coleraine	Not Operating
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	

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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 / əl-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...



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

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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
 KEØNQS.mn@gmail.com OR
 KEØNQT@gmail.com

Co-Editors,
 Kim & Steve Waller
 KEØNQS & KEØNQT



SUNDAY NIGHT NETS
 1930 - CW - 28.125 MHz USB-CW
 2000 - USB 28.450 MHz
 2100 - Southern St. Louis County
 Emergency Services Net
MONDAY NIGHT NETS
 2000 - Northland WX Net - ARAC Repeater

JANUARY

CLUB EVENTS

TUESDAY NIGHT NETS
 2000 - Douglas City 145.490 MHz
 2030 - Central Carlton County
WEDNESDAY NIGHT NETS
 1900 - Lake County - LSAC1
 2nd & 4th Wednesdays
 2100 - BWAR

Mon	Tue	Wed	Thu	Fri	Sat
			1	2	3
4 CW 1930 AA0AW USB 2000 KB9WLB ES 2100 NØVRM	5 WX 2000 KCØMKS	6 ARAC BOARD MEETING Sammy's Pizza 6:30 pm DC Net 2000 CC Net 2030	7 2100 - BWAR	8 ARAC Club Meeting Coppertop Church 7 PM	9 Friday Night 6 meter Gag-Chew 50.125 USB 7 PM
11 CW 1930 NØPDG USB 2000 K9KDK ES 2100	12 Douglas County ARES/RACES Mtg 1900 DC EOC WX 2000 KCØMKS	13 DC Net 2000 CC Net 2030	14 Lake County ARES/RACES Meeting 1800 Lake County LSAC1 1900 2100 - BWAR	15	16 Friday Night 6 meter Gag-Chew 50.125 USB 7 PM
18 CW 1930 AA0AW USB 2000 KROB ES 2100 AA0AW	19 WX 2000 KCØMKS	20 DC Net 2000 CC Net 2030	21 2100 - BWAR	22 Carlton County ARES/RACES Meeting 1900 CC EOC	23 Friday Night 6 meter Gag-Chew 50.125 USB 7 PM
25 CW 1930 NØPDG USB 2000 NØVRM ES 2100 KØDSL	26 WX 2000 KCØMKS	27 DC Net 2000 CC Net 2030	28 Lake County LSAC1 1900 2100 - BWAR	29	30 Friday Night 6 meter Gag-Chew 50.125 USB 7 PM
					31

**Get this newsletter *faster*
via email!**
Email Doug AAØAW at
aa0aw@arrl.net

**Next Club Meeting:
January 8, 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

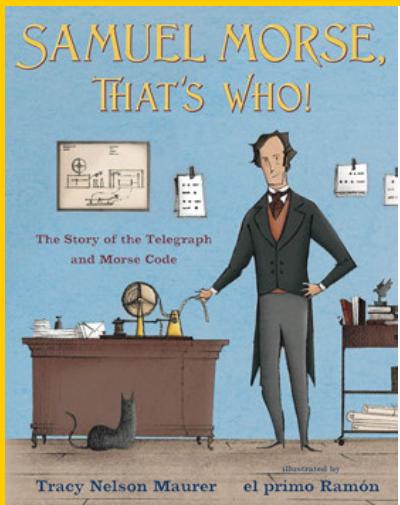
QRZ web site at www.qrz.com

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.

Ham Radio's Future continued from page 1

Books for Children



Samuel Morse, That's Who! The Story of the Telegraph and Morse Code

Writer Tracy Nelson Maurer and illustrator El Primo Ramón present a lively picture book biography of Samuel Morse that highlights how he revolutionized modern technology.

Back in the 1800s, information traveled slowly. Who would dream of instant messages? Samuel Morse, that's who! Who traveled to France, where the famous telegraph towers relayed 10,000 possible codes for messages depending on the signal arm positions—only if the weather was clear? Who imagined a system that would use electric pulses to instantly carry coded messages between two machines, rain or shine? Long before the first telephone, who changed communication forever?

Samuel Morse, That's Who!

Editors' Pick!

Publisher: Henry Holt and Co. ISBN 9781627791304
Available in hardcover, \$19.99 at [Amazon](#), [Barnes & Noble](#), [Target](#), [Books-a-Million](#), [Bookshop](#), and [Powells](#)

An NSTA Best STEM Book of the Year
A Junior Library Guild Selection
A Bank Street College Best Book of the Year

"The text effectively explains how the invention works as well as how it came to be, and young readers and listeners just may be inspired to try some inventing of their own. **An excellent, entertaining choice to highlight social-emotional skills, history, and STEM.**"—*Kirkus Reviews*

"The approach to Morse's story has lots of charm, and Ramón's digitally colored pencil illustrations leaven the square-jawed protagonist's travails with gentle touches of humor. A timeline, bibliography, trivia bits, and even a photograph of early nineteenth century women telegraph operators are included."—*The Bulletin*

"Who makes a great topic of a picture book biography? Samuel Morse, that's who! This is an excellent biography on a lesser-known figure; add to collections looking for inventors and makers. As it turns out, . . . amuel M --- r . . . e was a predecessor of the maker movement."—*School Library Journal*

"Another accessible exploration of an instrumental figure in STEM. Ramón's illustrations complement the breezy tone as they map Morse's journey. Readers curious about Morse code, discussed briefly in the text, should check under the book's jacket. A fun, informative way to tap into historical inventions."—*Booklist*

The Unbreakable Code

Could books hidden through Book Scavenger be linked to an arsonist's web of destruction? Find out in Book 2 of Jennifer Chambliss Bertman's The Book Scavenger series.

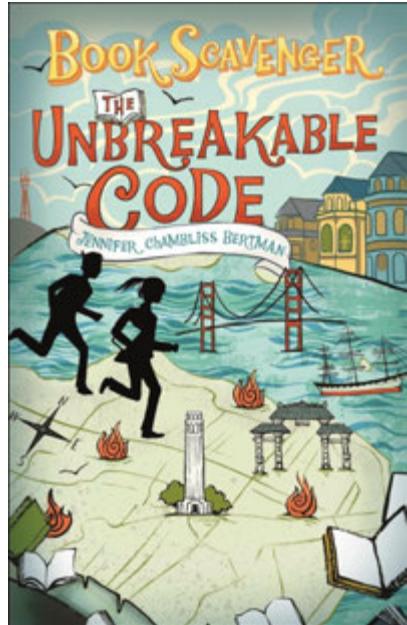
Mr. Quisling is definitely up to something mysterious, and Emily and James are on high alert. First, there's the coded note he drops at a book event. Then they uncover a trail of encrypted messages in Mark Twain-penned books hidden through Book Scavenger. What's most suspicious is that each hidden book triggers a fire. As the sleuthing friends dig deeper, they discover Mr. Quisling has been hunting a legendary historical puzzle: the Unbreakable Code. This new mystery is irresistible, but Emily and James can't ignore the signs that Mr. Quisling might be the arsonist. The clock is ticking as the fires multiply, and Emily and James race to crack the code of a lifetime.

Includes code-breaking challenges ideal for children 8-10 yrs. Features various ciphers, with ties to unbreakable WWII codes that inspire Morse-like secrecy.

Publisher & Image Credit: Henry Holt and Co. ISBN 978-1627796613

Available in hardcover, \$17.29 or paperback, \$7.37 at [Amazon.com](#)

Continued on Page 14



Ham Radio's Future continued from page 13

Books for Children



Samantha Spinner and the Super-Secret Plans

By Author Russell Ginns & Illustrator Barbara Fisinger

Get ready for round-the-world adventure with Sam Spinner and her brother, Nipper, in the first book in a hilarious, puzzle-packed series filled with super-secret messages!

Samantha Spinner's uncle Paul disappeared, and here's what he left:

- Samantha's sister got a check for \$2,400,000,000.
- Samantha's brother got the New York Yankees.
- And Samantha got a rusty red umbrella with a tag hanging off its worn handle. The tag says "Watch out for the RAIN."

Thanks a lot, Uncle Paul. After all the strawberry waffles, stories, and puzzles they've shared, how could he just leave without saying goodbye? And what is the meaning of that mysterious message?

The answer is simple. Sam knows in her heart that Uncle Paul is in danger. And if he taught her anything, it's that not everything is exactly what it seems. Which is why we should pay close attention to that rusty red umbrella, and never trust a monkey at a hula-hoop contest. The RAIN is coming and Samantha Spinner is about to find herself mixed up in some super-important, super-dangerous, super-secret plans.

A puzzle-filled adventure with super-secret messages and global chases. Packed with codes to decode, encouraging kids ages 8-12 to try Morse as a "secret agent" tool.

Publisher and image credit: Penguin Random House ISBN 978-1524720032

Available in hardcover, **\$16.99** paperback, **\$8.99** at [Amazon.com](https://www.amazon.com)

Morse Code for Kids

Learn, Practice and Enjoy

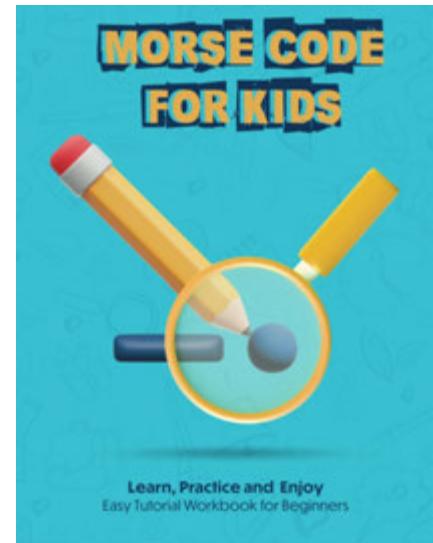
Easy Tutorial Workbook for Kids Ages 8 - Teens

Represented as a short pulse (called a "dot" or "Dit") and a long pulse (a "dash" or "DAH"), this book helps kids learn MORSE CODE by enjoying various effective activities.

Includes Morse code tutorials, practice exercises, activities, and special papers to write your own Morse code sentences. Scan the QR code in this book for more help.

Publisher & Image Credit: 2Z Publisher, ISBN 979-8397090131

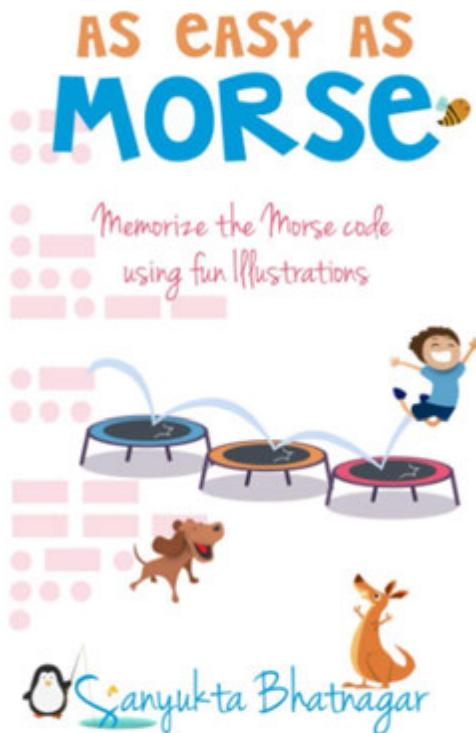
Available in paperback, **\$11.05** at [Amazon.com](https://www.amazon.com)



Continued on Page 15

Ham Radio's Future continued from page 14

Books for Children



As Easy As Morse

Memorize the Morse Code Using Fun Illustrations

This book by **Sanyukta Bhatnagar** is a fun and innovative way to memorize the Morse Code alphabet. With nice illustrations and pictorial representation, memorizing the Morse code is a “piece of cake.” Children can go through the illustrations and keep a mental picture of each code and its related letter of the alphabet. The book includes illustrations for Alphabet letters A to Z and Numbers 1 to 0. “As Easy as Morse” is suitable for both Kids and Adults.

Publisher & Image Credit: Sanyukta Bhatnagar, ISBN 9798312261752

**Available in paperback,
\$15.00 at [Amazon.com](https://www.amazon.com)**

Activities for Children

Hicarer Brand - Morse Code Bracelet Kit

This Morse Code bracelet kit is great as a family activity or group of friends!

Set includes 20 Morse Code “decoding” cards, 800 pieces of round beads in black and silver colors (400 beads per color, with diameter approx. 0.12 inch/ 3 mm), 400 pieces long tube beads in black and silver colors (200 beads per color, in the size of approx. 0.12 x 0.28 inch/ 3 x 7 mm), and 20 yards waxed cord in 4 colors, sufficient quantity and types to make a minimum of 20 bracelets.

Smooth and durable, these round beads and tube cuboid beads are made of quality CCB material, with a lustrous surface. Compact in size and lightweight, these beautiful beads are comfortable to wear and suitable for long-term use

Recommended for ages 8 and up.

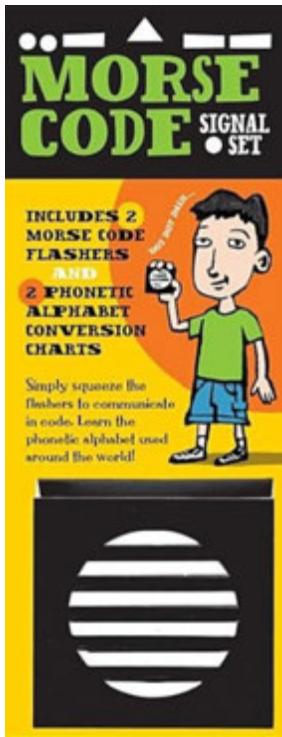
\$11.59 at [Amazon.com](https://www.amazon.com)



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Ham Radio's Future continued from page 15

Activities for Children



Morse Code Signal Set

Pair of hand-held ingenious Morse code folding flashing cards lets two people signal back and forth by pressing and releasing the top. Set includes two conversion charts to learn Morse code and the phonetic alphabet used around the world. A nice "A Bit of History" card also included for additional learning about the code.

Customer feedback on this signal set is very positive. Parents thought it was a clever learning tool that's easy to use and fun for kids to practice with.

Buyers found it to be cost-effective and said it works well, noting the set was "perfect" for sending fun messages between friends.

An all-around favorite, this item is appropriate for children 8 years and up.

Publisher & packaging image credit:
U.S. Games Systems, Inc.

Great price!
\$3.95 at [Amazon.com](https://www.amazon.com)



Image Credit: Jackie2000

EIELE Soldering Kit - Morse Code Decoder

Excellent Project for Beginners Age 12+

This kit is not only a finished practical Morse code decoder, but also a great solder learning and practice tool in the process!

Through adult-supervised soldering and assembly, kids 12 and up can gain a deeper understanding of the basic principles of building your own equipment and learn Morse code, to apply that knowledge to real-world decoding tasks.

This kit is equipped with a brightness-adjustable LCD display, capable of displaying up to 16 characters simultaneously. Get clear, intuitive feedback for both practice and real-world applications.

Suitable for beginner electronic DIY enthusiasts, this kit also makes a great step-by-step teaching project for a classroom setting.

Clear labeling on the PCB is included, as well as detailed instructions in paper and electronic format, to ensure the successful completion of your Morse Code Decoder project.

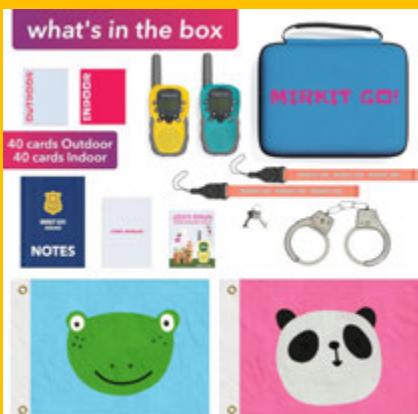
\$26.99 at [Amazon.com](https://www.amazon.com)



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Ham Radio's Future continued from page 16

Activities for Children



MIRKIT GO!

Walkie Talkie Games for Ages 5+

2X Walkie Talkies for Kids & 4 Games:
Scavenger Hunt, Capture The Flag,
Police Game, Hide and Seek!

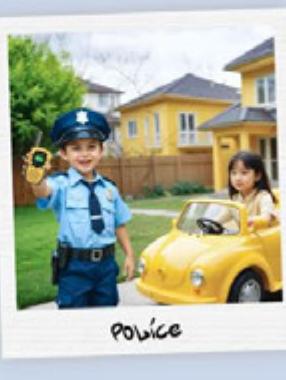
MIRKIT GO! brilliantly blends timeless childhood games with modern walkie-talkies, resurrecting real, outdoor adventures in an age of screens. It's a call back to genuine play and boundless imagination.

A World of Games in One Case! No more sorting through scattered game pieces. Unveil a universe of fun with Capture the Flag, Scavenger Hunt, Police Game, and Hide & Seek - all snugly packed with 2 walkie-talkies in a durable PVC case. And fear not, our toy handcuffs, designed for safety, ensure playtime remains gentle and harmless.

Craftsmanship Meets Kid-Proof Durability! No more toys that break at the slightest tumble. Our walkie-talkies, molded from top-grade plastic, are crafted for the wild imaginations of children, enduring those inevitable 1.2m adventures. Energize with 8*AAA batteries (not included) and let the fun commence! Frequency range 300 MHz-3GHz; 22 Channels.

\$17.99 at [Amazon.com](https://www.amazon.com)

FUN GAMES FOR OUTDOOR PLAY



Continued on Page 18

Ham Radio's Future continued from page 17

ARRL Children & Youth Programs

All right. Now we'll turn to some resources from ARRL for children and youth. Many Clubs around the nation are successfully implementing these as a jumping off point to engage kids with ham radio. We'll give general descriptions and some ARRL links to explore more if available.

ARRL KIDS DAY

ARRL Kids Day, an event that has been held twice annually (in January and June) for many years, is designed to provide on-the-air experience to young people, encouraging them to explore Amateur Radio and potentially pursue licensing. It targets children and youth, typically ages 5 to 18, by promoting casual radio contacts with a suggested exchange of name, age, location, and favorite color. Implementation occurs nationally through **ARRL** promotion, but locally by individual hams, clubs, or families who invite kids or grandkids to operate under adult supervision using licensed stations. Kids are encouraged to share their stories & photos of Kids Day via logs submitted to **ARRL** to receive certificates. This is a great way to engage kids to be on track for future **ARAC** membership! **Share the excitement with your kids or grandkids, a Scout troop, a kids church group or the general public!**

For More Info Visit www.arrl.org/kids-day

ARRL YOUTH LOUNGE

ARRL Youth Lounge involves creating dedicated spaces at hamfests for amateur radio youth—and prospective hams—to meet, socialize, and engage in activities. It targets children and youth up to age 18, aiming to build community among young operators. ARRL says, “A Youth Lounge is sure to offer something that young hams will enjoy. Come to chat with other hams, listen to music, grab a snack or participate in one of many activities, such as fox-hunts, scavenger hunts, Morse code fun, a QSL card designing contest, crafts, prizes and more.”

What a great way for **ARAC** to engage kids at Hamfest! **ARRL** has built a wonderful list of resources for us to use & customize in creating a Youth Lounge. Lots of info and 14 sample PDFs!

For More Info Visit www.arrl.org/youth-lounge

ARRL SCHOOL CLUB ROUNDUP

The School Club Roundup (SCR), established as an ongoing **ARRL contest**, fosters radio contacts among **school-based amateur radio clubs** to build interest in ham radio through competitive on-air activities held twice a year. It primarily targets school-age youth, from elementary through high school (approximately ages 5 to 18), encouraging teamwork and technical skills. Locally, it is implemented by teachers, school administrators, and **ARRL-affiliated radio clubs that sponsor or operate school stations**. Contest participants log contacts and submit scores to **ARRL** for recognition. **School-based Clubs should be a natural result of our Club's outreach** to kids and youth! When we spark interest in them from a young age, they can grow and connect with other “ham kids” in school clubs.

For More Info Visit www.arrl.org/school-club-roundup

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Ham Radio's Future continued from page 18

ARRL AMATEUR RADIO AND SCOUTING PROGRAM

ARRL's Amateur Radio and Scouting program, a longstanding initiative integrates ham radio into scouting activities to teach communication, electronics, and emergency preparedness. This program has been utilized by Boy Scouts, Girl Scouts, and independent kids scouting clubs alike. It was established as a natural fit for scouting youth, typically ages 5 to 18, through badge programs like the **Scouting America Radio Merit Badge**. At the local level, it is implemented by scout leaders, troops, and ARRL volunteers who provide training, demonstrations, and on-air events, often collaborating with local ham clubs to host jamborees or field days. **Field Day is the perfect opportunity to invite local scouts** to set up exhibits and activities of their own, as well as our Club fostering a fun youth activity area that invites participation by scouts and non-scouts alike. Efforts like these ensure the future of amateur radio and of ARAC as a club!

For More Info Visit www.arrl.org/amateur-radio-and-scouting

ARRL TEACHERS INSTITUTE ON WIRELESS TECHNOLOGY

ARRL's Teachers Institute on Wireless Technology, is part of the broader Education & Technology Program (ETP) that began in the early 2000s. This program trains educators to incorporate radio science and wireless technology into STEM curricula. While aimed at teachers, it indirectly targets school-age children (ages 5 to 18) by equipping instructors with tools for classroom engagement. Strategies are provided to introduce basic electronics, radio science, satellite communications, Amateur Radio, radio direction finding (fox hunting), weather science, microcontrollers, and electronic sensors to their students. Teachers are afforded the equipment needed to take wireless technology to their classrooms, funded by private donors to the ARRL program. Implementation occurs through ARRL-hosted week-long seminars, with local follow-up by trained teachers in schools, often supported by ARRL grants for equipment and collaboration with local ham clubs.

For More Info Visit www.arrl.org/teachers-institute-on-wireless-technology

ARRL YOUTH LICENSING GRANT PROGRAM

The ARRL Youth Licensing Grant Program, which began on April 19, 2022, supports young aspiring amateur radio operators by covering the one-time \$35 FCC application fee for new license candidates under 18 years old. In addition, hams under 18 with a Technician's license can upgrade their license for only \$5 through the ARRL Volunteer Examiner Coordinator (VEC). This great initiative targets children and youth under 18, aiming to remove financial barriers to entry into ham radio. At the local level, it is implemented by volunteer examiners (VEs) who administer license exams during sessions hosted by ARRL-affiliated clubs, schools, or community groups; after passing, participants submit a reimbursement form to ARRL VEC for processing upon license issuance.

For More Info Visit www.arrl.org/youth-licensing-grant-program

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Ham Radio's Future continued from page 19

VICTOR C. CLARK YOUTH INCENTIVE PROGRAM

At the request of the family of the late **Victor C. Clark, W4KFC**, the **ARRL Foundation** established the **Victor C. Clark Youth Incentive Program**, with the objective of providing support for the development of Amateur Radio among high-school age (or younger) youth. Funded by endowment and contributor support, the Program makes mini-grants available to groups that demonstrate serious intent to promote participation in Amateur Radio by youth and enrich the experience of radio amateurs under the age of 18.

Groups that qualify for mini-grants will include, but not be limited to, high school radio clubs, youth groups, and general-interest radio clubs that sponsor subgroups of young people or otherwise make a special effort to get them involved in club activities. Mini-grants, not to exceed \$1000 per grant, will be made for such projects as securing equipment for antennas for club stations, purchasing training materials, supporting local service projects that bring favorable public exposure, and similar activities. Preference will be given to projects for which matching funds are raised locally.

For More Info Visit www.arrl.org/the-victor-c-clark-youth-incentive-program

The Amateur Radio Contesting Hall of Fame honors Victor C. Clark W4KFC in the following inductee tribute:

Vic Clark was a world class CW operator and contest operator. He held many positions in the **ARRL**, including that of President, and helped to found what has become one of the largest contest clubs in the country, the **Potomac Valley Radio Club** (PVRC). Clark did not have a big ego, and frequently gave credit to others for his ideas.

Clark was licensed in 1933 as **W6KFC**. He was 16 years old, and living with his parents in Arizona. Just three years later, in 1936, he came in second in the **ARRL CW Sweepstakes**. Vic was an active contesteer and traffic handler. In 1936 the ARRL awarded the first **Hiram Percy Maxim Award** for his amateur activities.

Clark became a Silent Key in November 1983 at the age of 66. He was inducted in April 1993 into Amateur Radio Contesting Hall of Fame. *Images (right) & Tribute credit: <https://contesthof.com>*



Arizona Boy Wins Radio Award
HARTFORD, Conn., July 9 (AP).—Victor Clark, 19, of Phoenix, Ariz., was announced today as the winner of the Hiram Percy Maxim Memorial award for the outstanding radio amateur under 21 years of age. The announcement was made by Kenneth B. Warner, secretary of the American Radio Relay League.

The New York Times
Published: July 10, 1937

We hope this inspires us as **ARAC** members to reach out more intentionally to the children in our lives, sharing fun books, Morse code games, and hands-on activities that spark a genuine love for ham radio. By tapping into ARRL's powerful youth outreach tools right here in the Arrowhead Region, we can make those connections meaningful and lasting. The time to engage the next generation is now—and together, we absolutely can do this!★



Contest Calendar - January 2026

+ AGB New Year Snowball Contest	0000Z-0100Z, Jan 1
+ CWops Test (CWT)	0300Z-0400Z, Jan 1
+ CWops Test (CWT)	0700Z-0800Z, Jan 1
+ SARTG New Year RTTY Contest	0800Z-1100Z, Jan 1
+ AGCW Happy New Year Contest	0900Z-1200Z, Jan 1
+ AGCW VHF/UHF Contest	1400Z-1700Z, Jan 1 (144) and 1700Z-1800Z, Jan 1 (432)
+ IRTS 80m Counties Contest	1700Z-1800Z, Jan 1
+ NRAU 10m Activity Contest	1800Z-1900Z, Jan 1 (CW) and 1900Z-2000Z, Jan 1 (SSB) and 2000Z-2100Z, Jan 1 (FM) and 2100Z-2200Z, Jan 1 (Dig)
+ SKCC Sprint Europe	2000Z-2200Z, Jan 1
+ NCCC FT4 Sprint	0100Z-0130Z, Jan 2
+ Weekly RTTY Test	0145Z-0215Z, Jan 2
+ QRP Fox Hunt	0200Z-0330Z, Jan 2
+ NCCC Sprint	0230Z-0300Z, Jan 2
+ K1USN Slow Speed Test	2000Z-2100Z, Jan 2
+ PODXS 070 Club PSKFest	0000Z-2400Z, Jan 3
+ Marconi Club ARI Loano QSO Party Day	0700Z-2100Z, Jan 3
+ WW PMC Contest	1200Z, Jan 3 to 1200Z, Jan 4
+ RSGB AFS Contest, CW	1300Z-1700Z, Jan 3
+ ARRL RTTY Roundup	1800Z, Jan 3 to 2400Z, Jan 4
+ ARRL Kids Day	1800Z-2359Z, Jan 3
+ EUCW 160m Contest	2000Z-2300Z, Jan 3 and 0400Z-0700Z, Jan 4
+ FOC Old School Classic 1960s QSO Party	1200Z, Jan 4 to 1200Z, Jan 5

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Contest Calendar - January 2026

+ K1USN Slow Speed Test	0000Z-0100Z, Jan 5
+ ICWC Medium Speed Test	1300Z-1400Z, Jan 5
+ OK1WC Memorial (MWC)	1630Z-1729Z, Jan 5
+ ICWC Medium Speed Test	1900Z-2000Z, Jan 5
+ ARS Spartan Sprint	0100Z-0300Z, Jan 6
+ Worldwide Sideband Activity Contest	0100Z-0159Z, Jan 6
+ ICWC Medium Speed Test	0300Z-0400Z, Jan 6
+ QRP Fox Hunt	0200Z-0330Z, Jan 7
+ Phone Weekly Test	0230Z-0300Z, Jan 7
+ A1Club AWT	1145Z-1300Z, Jan 7
+ CWops Test (CWT)	1300Z-1400Z, Jan 7
+ VHF-UHF FT8 Activity Contest	1700Z-2100Z, Jan 7
+ Mini-Test 40	1700Z-1759Z, Jan 7
+ Mini-Test 80	1800Z-1859Z, Jan 7
+ CWops Test (CWT)	1900Z-2000Z, Jan 7
+ UKEICC 80m Contest	2000Z-2100Z, Jan 7
+ Walk for the Bacon QRP Contest	0000Z-0100Z, Jan 8 and 0200Z-0300Z, Jan 9
+ CWops Test (CWT)	0300Z-0400Z, Jan 8
+ CWops Test (CWT)	0700Z-0800Z, Jan 8
+ NCCC FT4 Sprint	0100Z-0130Z, Jan 9
+ Weekly RTTY Test	0145Z-0215Z, Jan 9
+ QRP Fox Hunt	0200Z-0330Z, Jan 9
+ NCCC Sprint	0230Z-0300Z, Jan 9
+ K1USN Slow Speed Test	2000Z-2100Z, Jan 9
+ YB DX Contest	0000Z-2359Z, Jan 10
+ Old New Year Contest	0500Z-0859Z, Jan 10

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Contest Calendar - January 2026

+ SKCC Weekend Sprintathon	1200Z, Jan 10 to 2400Z, Jan 11
+ UBA PSK63 Prefix Contest	1200Z, Jan 10 to 1200Z, Jan 11
+ North American QSO Party, CW	1800Z, Jan 10 to 0559Z, Jan 11
+ NRAU-Baltic Contest, SSB	0600Z-0800Z, Jan 11
+ NRAU-Baltic Contest, CW	0830Z-1030Z, Jan 11
+ DARC 10-Meter Contest	0900Z-1059Z, Jan 11
+ RSGB AFS Contest, Data	1300Z-1700Z, Jan 11
+ K1USN Slow Speed Test	0000Z-0100Z, Jan 12
+ 4 States QRP Group Second Sunday Sprint	0100Z-0300Z, Jan 12
+ ICWC Medium Speed Test	1300Z-1400Z, Jan 12
+ OK1WC Memorial (MWC)	1630Z-1729Z, Jan 12
+ ICWC Medium Speed Test	1900Z-2000Z, Jan 12
+ Worldwide Sideband Activity Contest	0100Z-0159Z, Jan 13
+ ICWC Medium Speed Test	0300Z-0400Z, Jan 13
+ DARC RTTY Sprint	1800Z-1929Z, Jan 13
+ QRP Fox Hunt	0200Z-0330Z, Jan 14
+ Phone Weekly Test	0230Z-0300Z, Jan 14
+ A1Club AWT	1145Z-1300Z, Jan 14
+ CWops Test (CWT)	1300Z-1400Z, Jan 14
+ VHF-UHF FT8 Activity Contest	1700Z-2100Z, Jan 14
+ Mini-Test 40	1700Z-1759Z, Jan 14
+ Mini-Test 80	1800Z-1859Z, Jan 14
+ CWops Test (CWT)	1900Z-2000Z, Jan 14
+ AWA Linc Cundall Memorial CW Contest	2300Z, Jan 14 to 2300Z, Jan 15 and 2300Z, Jan 17 to 2300Z, Jan 18
+ CWops Test (CWT)	0300Z-0400Z, Jan 15
+ CWops Test (CWT)	0700Z-0800Z, Jan 15

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Contest Calendar - January 2026

+ NTC QSO Party	1900Z-2000Z, Jan 15
+ NCCC FT4 Sprint	0100Z-0130Z, Jan 16
+ Weekly RTTY Test	0145Z-0215Z, Jan 16
+ QRP Fox Hunt	0200Z-0330Z, Jan 16
+ NCCC Sprint Ladder	0230Z-0300Z, Jan 16
+ K1USN Slow Speed Test	2000Z-2100Z, Jan 16
+ Hungarian DX Contest	1200Z, Jan 17 to 1159Z, Jan 18
+ PRO Digi Contest	1200Z, Jan 17 to 1159Z, Jan 18
+ RSGB AFS Contest, SSB	1300Z-1700Z, Jan 17
+ North American QSO Party, SSB	1800Z, Jan 17 to 0559Z, Jan 18
+ NA Collegiate Championship, SSB	1800Z, Jan 17 to 0559Z, Jan 18
+ ARRL January VHF Contest	1900Z, Jan 17 to 0359Z, Jan 19
+ Feld Hell Sprint	2000Z, Jan 17 to 0559Z, Jan 18
+ Run for the Bacon QRP Contest	2300Z, Jan 18 to 0100Z, Jan 19
+ K1USN Slow Speed Test	0000Z-0100Z, Jan 19
+ ICWC Medium Speed Test	1300Z-1400Z, Jan 19
+ OK1WC Memorial (MWC)	1630Z-1729Z, Jan 19
+ ICWC Medium Speed Test	1900Z-2000Z, Jan 19
+ RSGB FT4 Contest	2000Z-2200Z, Jan 19
+ Worldwide Sideband Activity Contest	0100Z-0159Z, Jan 20
+ ICWC Medium Speed Test	0300Z-0400Z, Jan 20
+ QRP Fox Hunt	0200Z-0330Z, Jan 21
+ Phone Weekly Test	0230Z-0300Z, Jan 21
+ A1Club AWT	1145Z-1300Z, Jan 21
+ CWops Test (CWT)	1300Z-1400Z, Jan 21
+ VHF-UHF FT8 Activity Contest	1700Z-2100Z, Jan 21
+ Mini-Test 40	1700Z-1759Z, Jan 21

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Contest Calendar - January 2026

+ Mini-Test 80	1800Z-1859Z, Jan 21
+ CWops Test (CWT)	1900Z-2000Z, Jan 21
+ Walk for the Bacon QRP Contest	0000Z-0100Z, Jan 22 and 0200Z-0300Z, Jan 23
+ NAQCC CW Sprint	0130Z-0330Z, Jan 22
+ CWops Test (CWT)	0300Z-0400Z, Jan 22
+ CWops Test (CWT)	0700Z-0800Z, Jan 22
+ NCCC FT4 Sprint	0100Z-0130Z, Jan 23
+ Weekly RTTY Test	0145Z-0215Z, Jan 23
+ QRP Fox Hunt	0200Z-0330Z, Jan 23
+ NCCC Sprint Ladder	0230Z-0300Z, Jan 23
+ K1USN Slow Speed Test	2000Z-2100Z, Jan 23
+ CQ 160-Meter Contest, CW	2200Z, Jan 23 to 2200Z, Jan 25
+ Kawanua DX Contest	0000Z-2359Z, Jan 24
+ REF Contest, CW	0600Z, Jan 24 to 1800Z, Jan 25
+ BARTG RTTY Sprint	1200Z, Jan 24 to 1200Z, Jan 25
+ Winter Field Day	1600Z, Jan 24 to 2159Z, Jan 25
+ Australia Day Contest	2200Z, Jan 25 to 1000Z, Jan 26
+ K1USN Slow Speed Test	0000Z-0100Z, Jan 26
+ QCX Challenge	1300Z-1400Z, Jan 26
+ ICWC Medium Speed Test	1300Z-1400Z, Jan 26
+ OK1WC Memorial (MWC)	1630Z-1729Z, Jan 26
+ QCX Challenge	1900Z-2000Z, Jan 26
+ ICWC Medium Speed Test	1900Z-2000Z, Jan 26
+ Worldwide Sideband Activity Contest	0100Z-0159Z, Jan 27
+ QCX Challenge	0300Z-0400Z, Jan 27
+ ICWC Medium Speed Test	0300Z-0400Z, Jan 27
+ SKCC Sprint	0000Z-0200Z, Jan 28

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+ QRP Fox Hunt	0200Z-0330Z, Jan 28
+ Phone Weekly Test	0230Z-0300Z, Jan 28
+ A1Club AWT	1145Z-1300Z, Jan 28
+ CWops Test (CWT)	1300Z-1400Z, Jan 28
+ Mini-Test 40	1700Z-1759Z, Jan 28
+ Mini-Test 80	1800Z-1859Z, Jan 28
+ CWops Test (CWT)	1900Z-2000Z, Jan 28
+ UKEICC 80m Contest	2000Z-2100Z, Jan 28
+ NAQCC CW Sprint	0130Z-0330Z, Jan 29
+ CWops Test (CWT)	0300Z-0400Z, Jan 29
+ CWops Test (CWT)	0700Z-0800Z, Jan 29
+ NCCC FT4 Sprint	0100Z-0130Z, Jan 30
+ Weekly RTTY Test	0145Z-0215Z, Jan 30
+ QRP Fox Hunt	0200Z-0330Z, Jan 30
+ NCCC Sprint Ladder	0230Z-0300Z, Jan 30
+ K1USN Slow Speed Test	2000Z-2100Z, Jan 30
+ Feld Hell Sprint	0000Z-2359Z, Jan 31
+ UBA DX Contest, SSB	1300Z, Jan 31 to 1300Z, Feb 1

Our thanks to

Bruce Horn, WA7BNM for use of this calendar!

Visit Bruce at www.contestcalendar.com/contestcal.html

The ARAC RELAY



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