August 2025

VOX

Monthly Newsletter of the Huntsville Amateur Radio Club®

The President's Corner

Huntsville Hamfest is almost here! HARC does not run or sponsor the Hamfest, but our Club provides the bulk of the volunteers that make the Huntsville Hamfest the World's Friendliest Hamfest. It's not just a slogan, it's a reality.

Vendors and visitors alike comment on how different things are at our local hamfest. Flea market vendors really appreciate the assistance finding their tables and the help to unload. Everyone appreciates traffic control keeping things flowing smoothly and accidents not happening. Attendees appreciate smiles at the ticket booths and helpful answers at the information tables. The food area is a welcome respite for vendors and volunteers from the bustle of the show floor.



The medics are quick to respond to those who need attention. The forums are smoothly run and cover a wide variety of fantastic topics. Tucked away in a side hall, we see people each year thrilled to become a ham or upgrade their license.

This isn't a complete list of all the tasks that volunteers do. So, thank you to all of the club

members who volunteer at the Huntsville Hamfest. You make our hamfest truly special and one everyone wants to return to next year.

73, Lisa N3WQL President

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From Your Publisher

There's something special in this issue. I've been doing this newsletter for over a dozen years and put together a list of recent officers. But there were holes in the timeline. A few months ago I reached out to Jared Cassidy KQ4VT for help in filling in some blanks and he came through—big time.

Jared left the callsigns as they were at the time, so folks like Don Tunstill will show two different callsigns in the list, as he was President "back-in-the-day" with his old WB4HOK call and his final call of W4NO when he was Prez in 1999 and 2000. I think Billy gets the prize for being Prez the most times...6 times!

Content wise, the August issue is typically a lean month where we find ourselves between Field Day and Hamfest. I hope long-time club members will enjoy the journey back in time.

73

Mark N4BCD

The Huntsville Amateur Radio Club®

Club Officers & Info			
Lisa Shier	N3WQL	President	president@harc.net
Rick Copeland	KE4IOH	Vice President	vicepresident@harc.net
Don Carter	KZ4DJC	Secretary	secretary@harc.net
Bill Yell	K4IBY	Treasurer	treasurer@harc.net
David Oakley	KQ40A0	Officer at-large	doakley314@gmail.com
Mark Brown	N4BCD	Officer at-large	mark.n4bcd@yahoo.com
Leigh Bartlow	WD4CPF	Officer at-large	brtlo54@gmail.com

Meeting location: Signals Museum, 1806 University Dr, Huntsville, AL 35801 Online via Zoom. https://us02web.zoom.us/j/6588519706?pwd=Z2VxVGJ0SCsvN2NTSFJ5TE5BVklRdz09

Meeting time: Every Friday, 7:30 PM (except on major holidays)

Mailing address: HARC, PO Box 2196, Huntsville, AL 35804

Visitors welcome at all meetings.

Club website: www.harc.net

Club callsign: K4BFT (http://www.qrz.com/db/K4BFT)

Mail reflector signup: follow the link below the HARC logo on the home page

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History of HARC Officers by Jared KQ4VT and Mark N4BCD

From 1970? To 1996, the officer position names were: President, Vice-President, Secretary-Treasurer, and Assistant Secretary-Treasurer.

June of:	President	Vice-Pres	Secretary-Treasurer	Assistant Secretary- Treasurer
1970	George Wachter, WA4JSM	Jim Brashear, WB4EKJ	Ken McEwen, WB4IEY	Ron Baxley, WB4EOW
1971	Ken McEwen, WB4IEY	Bob Gingras, WB4JMH	Bob Fanning, K4OWV	Phil Irvine, WA4RBH
1972	Bob Fanning, K4OWV	Bob Neefus, WA4WED	Phil Irvine, WA4RBH	Bob Beatty, WB4SON
1973	John Parker, WB4UHC	Bill Christian, K4IKR	Graham Gallemore, K4FTY	Harold "Cuz" Hughes,
1974	Bill Christian, K4IKR	Dave Sublette, K4BHG	Graham Gallemore, K4FTY	Leon Bell, WB4LTT
1975	Dave Sublette, K4BHG	Bob Fanning, K4OWV	Jim Chandler, WA4LAF	Scott Robeson, WA4EUD
1976	Don Tunstill, WB4HOK	Coleman Calloway,	Jim Chandler, WA4LAF	Scott Robeson, WA4EUD
1977	Don Tunstill, WB4HOK	Bill Christian, K4IKR	Jim Brashear, WB4EKJ	Jim Freeman, Wb6ZZY
1978	Bill Christian, K4IKR	Sonny Batchelor,	Jim Brashear, WB4EKJ	Leigh Bartlow, WD4CPF
1979	Don Steenburn, WA4VLB	Jo Ann Tunstill, WB4QOS	Ron Marshall, WD4FVC	Leigh Bartlow, WD4CPF
1980	Bert Wheeler, W4IBU	Ron Marshall, WD4FVC	Leigh Bartlow, WD4CPF	Nancy Morris, WB4QXM
1981	J.D. Bennight, K4GKJ	Jim Brashear, WB4EKJ	Nancy Morris, KD4JD	Steve Anderson, WA4YHJ
1982	Ron Martin, K4GXQ	Rusty Foster, KD4UP	Bob Walters, WA4MDH	Mike Fanning, WA4QHI
1983	Bill Christian, K4IKR	Jim Chandler, WA4LAF	Hayward Handy, WO4V	Ron Baxley, N4GB
1984	Leigh Bartlow, WD4CPF	Bill Dionne, N4DM	Mike Burns, KF4CP	Mike Sabin, KA4UZJ
1985	Dennis Lawson, WB4SRG	Frank Brown, NM4J	Art Davis, WB4KKA	Dave Reasoner, N4KTY
1986	Pete Nelson, KF4VS	Jean Morgan, N4NCH	Shirley Jackson, WD4DDJ	Nathan Walston, KB4LLH
1987	Walt Wilson, KJ4VQ	Larry Hill, AA4DJ	Scotty Neustadter, N4PYD	Jo Ann Lindsay, N4PNW
1988	Pat Lindsay, N4PNX	Scotty Neustadter, N4PYD	Mike Sabin, KA4UZJ	Bryan Turner, AB4AP
1989	Bryan Turner, AB4AP	Dick Christiansen, KK4HF	Bill Walker, NB9P	Gary Dion, N4TXI
1990	Jim Wallace, W4NYC	Carol Blair, N4QPE	Bill Walker, NB9P	Shirley Jackson, WD4DDJ
1991	Scotty Neustadter, N4PYD	John Renfro, N4PUC	Bill Walker, NB9P	Greg Montllor, N5FSW
1992	Scotty Neustadter, N4PYD	Gobe Vick, W4WAD	Lymon Jones, KD4FJB	Jared Cassidy, KD4BXO
1993	Howard Burns, KD4BUP	Frank Herring, KD4DXU	Jared Cassidy, KQ4VT	Paul Paelian, WB4UEE
1994	John Renfro, N4PUC	Jim Wallace, W4NYC	Jared Cassidy, KQ4VT	Paul Palmer, KE4IDG
1995	Jared Cassidy, KQ4VT	Dan Carey, KD4BXP	Paul Palmer, KE4IDG	Rob Barnett, KE4GNN
1996	Jared Cassidy, KQ4VT	Dan Carey, KD4BXP	Rob Barnett, KE4GNN	Patrick Bramlett, KE4QIC

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History of HARC Officers—continued

From 1996 to present, the officers positions are the now familiar President, Vice-President, Secretary, and Treasurer.

1997 Bill Hull, W4GBF 1998 Jared Cassidy, KQ4VT 1999 Don Tunstill, W4NO 1990 Don Tunstill, W4NO 1990 Yeigler, K8GNM 1990 Don Tunstill, W4NO 1991 Don Tunstill, W4NO 1991 Don Tanstill, W4NO 1992 Ton Duncan, KG4CUY 1991 Ton Duncan, KG4CUY 2002 Tom Duncan, KG4CUY 2003 Tom Duncan, KG4CUY 2004 Woodie Zeigler, K8GNM 2005 Chris Best, KB3DXR 2005 Chris Best, KB3DXR 2006 Chris Best, KB3DXR 2006 Chris Best, KB3DXR 2007 Rolf Goedhart, K4RGG 2007 Rolf Goedhart, K4RGG 2008 Rolf Goedhart, K4RGG 2008 Rolf Goedhart, K4RGG 2009 Rolf Goedhart, K4RGG 2009 Rolf Goedhart, K4RGG 2009 Rolf Goedhart, K4RGG 2010 Mark Brown, N4BCD 2011 Mark Brown, N4BCD 2011 Mark Brown, N4BCD 2012 Paul Paelian, W84UEE 2013 Paul Paelian, W84UEE 2014 John Lewis, WA4PRH 2015 Bill Bathgate, KD8IGK 2016 Kevin Ivey, K4IVE 2017 Bill Bathgate, KD8IGK 2018 Bill Gold, KM4BGF 2019 Billy Gold, KM4BGF 2019 Billy Gold, KM4BGF 2019 Billy Gold, KM4BGF 2010 M6K4BGF 2010 M	June of	President	Vice-Pres	Secretary	Treasurer
1999Don Tunstill, W4NOWoody Zeigler, K8GNMBrian Bender, KD4FGLHeath Thorson, KC4HRX2000John Morris, K4XHPaul Paelian, WB4UEEBrian Bender, KD4FGLHeath Thorson, KC4HRX2001Chris Reed, KF4MMFTom Duncan, KG4CUYScott Worsham, W4SSWHeath Thorson, KC4HRX2002Tom Duncan, KG4CUYTim Cunningham, N8DEURolf Goedhart K4RGGHeath Thorson, KC4HRX2003Tom Duncan, KG4CUYKim Hensley, WG8SRolf Goedhart K4RGGHeath Thorson, KC4HRX2004Woodie Zeigler, K8GNMJohn C. Hilliard, K4JCHRolf Goedhart K4RGGHeath Thorson, KC4HRX2005Chris Best, K83DXRJohn C. Hilliard, K4JCHRolf Goedhart K4RGGHeath Thorson, KC4HRX2006Chris Best, K83DXRRolf Goedhart K4RGGHeath Thorson, KC4HRX2007Rolf Goedhart, K4RGGRobby Lock KG4PLKElizabeth Wilhour, KI4VQJHeath Thorson, KC4HRX2008Rolf Goedhart, K4RGGWoodie Zeigler, K8GNMDoshia Wilson, KI4VFUHeath Thorson, KC4HRX2010Mark Brown, N4BCDTom Hatter, K4AKCTom Duncan, KG4CUYHeath Thorson, KC4HRX2011Mark Brown, N4BCDTom Hatter, K4AKCTom Duncan, KG4CUYHeath Thorson, KC4HRX2012Paul Paelian, WB4UEETim Williams, K4AEETom Duncan, KG4CUYHeath Thorson, KC4HRX2013Paul Paelian, WB4UEETim Williams, K4AEETom Duncan, KG4CUYHeath Thorson, KC4HRX2014John Lewis, WA4PRHWilliam Martin, KK4FDFDoshia Wilson, KI4VFU, in August Don Putman, W4BA, in January Craig Reinhart,	1997	Bill Hull, W4GBF	Randall Mahan, KS4TW	Robby Sperr, KF4LFQ	Heath Thorson, KC4HRX
2000 John Morris, K4XH Paul Paelian, WB4UEE 2001 Chris Reed, KF4MMF Tom Duncan, KG4CUY 5cott Worsham, W4SSW Heath Thorson, KC4HRX 2002 Tom Duncan, KG4CUY Kim Hensley, WG8S Rolf Goedhart K4RGG Heath Thorson, KC4HRX 2004 Woodie Zeigler, K8GNM John C. Hilliard, K4JCH R016 Goedhart K4RGG Heath Thorson, KC4HRX 2005 Chris Best, KB3DXR John C. Hilliard, K4JCH R016 Goedhart K4RGG Heath Thorson, KC4HRX 2005 Chris Best, KB3DXR R016 Goedhart K4RGG R016 Goedhart K4RGG Heath Thorson, KC4HRX 2007 R016 Goedhart, K4RGG R016	1998	Jared Cassidy, KQ4VT	Bill Hull, W4GBF	Brian Bender, KD4FGL	Heath Thorson, KC4HRX
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2006 Chris Best, KB3DXR Rolf Goedhart K4RGG Robby Lock, KG4PLK Heath Thorson, KC4HRX 2007 Rolf Goedhart, K4RGG Robby Lock KG4PLK Elizabeth Wilhour, KI4VQJ Heath Thorson, KC4HRX 2008 Rolf Goedhart, K4RGG Woodie Zeigler, K8GNM Doshia Wilson, KI4VFU Heath Thorson, KC4HRX 2009 Rolf Goedhart, K4RGG Tom Hatter, K4AKC Tom Duncan, KG4CUY Heath Thorson, KC4HRX 2010 Mark Brown, N4BCD Tom Hatter, K4AKC Tom Duncan, KG4CUY Heath Thorson, KC4HRX 2011 Mark Brown, N4BCD Charlie Tedder, W1CST Tom Duncan, KG4CUY Heath Thorson, KC4HRX 2012 Paul Paelian, WB4UEE Tim Williams, K4AEE Tom Duncan, KG4CUY Heath Thorson, KC4HRX Bertram Mau, AH6ES, then Art Gribensk KG4EYG Heath Thorson, KC4HRX Bertram Mau, AH6ES, then Art Gribensk KG4EYG Heath Thorson, KC4HRX in March Peggy Bell, K4EGB Heath Thorson, KC4HRX Art Gribensk KG4EYG Heath Thorson, KC4HRX in March Peggy Bell, K4EGB Heath Thorson, KC4HRX Art Gribensk KG4EYG Heath Thorson, KC4HRX in March Peggy Bell, K4EGB Heath Thorson, KC4HRX in March Peggy Bell, K4EGB Heath Thorson, KC4HRX Art Gribensk KG4EYG Heath Thorson, KC4HRX in March Peggy Bell, K4EGB Heath Thorson, KC4HRX i	2004	Woodie Zeigler, K8GNM	John C. Hilliard, K4JCH	Rolf Goedhart K4RGG	Heath Thorson, KC4HRX
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	2025	Lisa Shier N3WQL	Rick Copeland KE4IOH	Don Carter, KZ4DJC	Bill Yell, K4IBY

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Meeting Minutes— by Don KZ4DJC

July 4, 2025—no meeting for Independence Day Holiday

July 11, 2025

Called to Order at 7:30 PM By: N3WQL - Lisa

Attendance: In Person- 33 Zoom- 8 Visitors- 2

Total- 43

Announcements:

The next HARC meeting will be held at Gigiparts, July 18th beginning @ 6:30 PM HAYLARC Marine Mobile Day is July 12, 2025

Huntsville Hamfest is one month away. Volunteers are still needed. Use HARC.net for sign-up.

Gift cards were presented to members supplying R/Vs and Trailers for Field Day Event

Upcoming Events:

Next Week presentation will be Coaxial Cable by Steve- KM4CJ at Gigiparts.

Upcoming Hamfests

Huntsville Hamfest August 16 & 17, 2025

Committee Reports:

HARC Treasure Bill-K4IBY reported on income and expenditures for the month. Some Field Day expenses are still outstanding and will be included in the next report.

Tonight's Presentation:

FIELD DAY WRAP-UP - Laura-K4CNY presented highlight (and low lights) of the recent Field Day. The club's total points have not yet been submitted to AARL, but the expected total is approximately 16,774, subject to final review. The club maxed out on the bonus points. She stated that inclement weather was a major issue forcing stations to shut down during the storms. She encouraged members to become operators for next year's event, and as always, the need for additional set-up and take-down of towers and equipment is critical. Christopher-BV4B discussed his VHF participation at Field Day.

New Business:

YOTA representative Dan Sherfey -KQ4HWN is seeking information regarding the YOTA event in Huntsville.

New Memberships:

The Club has added forty-four new members this year to date. The newest members are:

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Meeting Minutes—continued

Robert Duncan - KC4TEO
Brian Temple - KR4ERD
Carl Hooker - K0CZH
Matthew Urbanic - K0FS
Steven Berry - KA4LKW
Stephanie Clark - KR4FCO

July 18, 2025 (temporary meeting location at GigaParts)

Called to Order at 6:30 PM By: Bill- K4IBY

Attendance: In Person 26 Zoom 3 Visitors 1

Total 30

Announcements:

Visitors were introduced. Susan Newman- KD4RVV reclaimed her ticket.

Huntsville Hamfest is one month away. Volunteers are still needed. Use HARC.net for sign -up.

Ares requesting assistance manning the Hamfest Table. Richard -KK4MDP (kk4mdp@aarl.net).

The location and time change brought fewer members. Several members arrived at 7:30 as the meeting was concluded.

Presentation: Coaxial Cable Presentation by Steve- KM4CJ

Upcoming Events:

Next Week's Presentation - Mark Brown will talk about Hamfest status.

VE Test Session – Athens Testing session 1:00 pm at the EMA building across from the post office.

Learn Day at Giga Parts - Bob- KV4PC Android Radio Application.

Huntsville Cycling Club -The All-U-Can-Eat Bike Ride is scheduled for mid-September - Volunteers needed. More to come.

Upcoming Hamfests

July 18 - Greater Nashville & Middle TN HamQuest @ Wilson County Fairgrounds Lebanon, TN. August 16 & 17- Huntsville Hamfest.

New Memberships:

Christopher Turner - N9XC chrisgturner66@gmail.com

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Meeting Minutes—continued

Date: 07/25/2025 Called to Order at 7:30 PM By: LISA

Attendance not recorded

Announcements:

Free Ham books on front table

Teresa Frost - Silent Key

Upcoming Events:

Huntsville Cycling Club -The All-U-Can-Eat Bike Ride is scheduled for mid-September -Volunteers needed. More to come.

Technician License Class begins September 9th 6-8 PM. Sign up at Giga-Parts.

Upcoming Contests

July 26 - 27 -- Alabama QSO Party (CW, phone). Bob- KV4PC@ Giga-Parts on Saturday needs operators.

Upcoming Hamfests

August 16 & 17- Huntsville Hamfest

Committee Reports:

Rick - Volunteers Are still needed for the Huntsville Hamfest. Sign up on line.

Tonight's Presentation:

Huntsville Hamfest Highlights - Visual Slide Presentation by Mark Brown

Commercial and Flea Market Areas are SOLD OUT!

ARRL EVENTS APP- For Hamfest will available on Apple and Google Store

NEW TICKET BARREL - fabricated by BrownCoats Robotic Team

Raffle Ticket Prices - one ticket with admission. 3 tickets for \$5 and 100 tickets for \$150

VBC Parking \$15 per day.

New Memberships:

Michelle English - K4MDE

Johnna Jenkins - KQ4LIC

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HAYLARC Happenings—by Lisa N3WQL

HAYLARC held a Marine Mobile Ham Day on July 12. We kayaked down the Flint River and made some contacts, including one with a ham visiting town from Tennessee. We'd planned to use the 147.33 repeater, but couldn't get good coverage. The 147.22 repeater worked great.

The next HAYLARC meeting will be August 14 at Olive Garden on University Drive at 11:30. Our activity for August is the Huntsville Hamfest. Many members are volunteering in ticket sales and other roles. In September, we will be running communication support for a rest stop for the AYCE Century Bike Ride on Sept 20.





Laura Morgan, K4CNY, operates Marine Mobile. Photo Credit N3WQL



Lisa Shier, N3WQL, operates Marine Mobile.

Photo Credit K4CNY

Laura Morgan, K4CNY, and Lisa Shier, N3WQL on the Flint River. Photo Credit K4CNY

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ARES Monthly Meeting Minutes — by Steve KM4CJ

Madison County, Alabama ARES Monthly Meeting Minutes July 10 2025

The meeting was conducted at the Madison County EMA EOC. There were 10 in attendance.

The meeting started at 18:00 central time.

EMA – Chris, AI4U, thanked everyone for there support to the EMA.

Lisa, N3WQL, reported the Field Day was a success.

Tim, KK5H – We are looking for people to man the Hamfest Table for a 1-hour shift. Please let Tim know if you can help.



Steve, KM4CJ, read the minutes from the last meeting and announced the ARRL 2024 SET results as published in the July issue of *QST* magazine. Alabama took number one in the nation for ARES Activity and Number 2 in the Section/Local Nets category. Madison County was number one in the Southeast for both categories! A big thank you to all that supported the SET this year

Program:

Steve, KM4CJ, presented an introduction to Vector Network Analyzer (VNA) with some demos on how to use it around the shack.

Meeting adjourned 19:10 central time.

Respectfully Submitted Steve Smith Assistant Emergency Coordinator ARES Madison County Page 10 VOX

General Announcements

For those who are interested in learning CW but need some Elmering, Laura K4CNY has created a GroupMe group that you can use to ask questions and arrange with Elmers for on-the-air practice.

If you are interested in Elmering, we can always use your help!

To join, click here: https://groupme.com/join_group/70112276/7m2J4Tpk

Interested in local POTA activations? Connect here.

https://groups.io/g/harc-pota/messages

You can request a subscribe here, or write me here for an invite.

robert.ehresman@gmail.com

Time flies. Days turn to years, years into decades. It's a lot easier to renew your FCC license before it expires. That goes for your XYL too. Ask me how I know.

Handy Bookmarks:

What contests are this weekend? https://www.contestcalendar.com/contestcal.html

What DXpeditions are active? https://dxnews.com/calendar/

What are the solar conditions? https://www.qrz.com/

Huntsville Amateur Radio Club http://harc.net

North Alabama DX Club http://nadxc.org

Huntsville Area YL Amateur Radio Club https://haylarc.wordpress.com/

Madison Co ARES/RACES https://madisoncountyalema.gov/amateur-radio/

North Alabama Repeater Association http://n4hsv.net/

Marshall Space Flight Center Amateur Radio Club https://www.nn4sa.org/

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Help Wanted

Radio Technician Position

Looking for an excellent start in a radio career?

The Huntsville-Madison Co. 9-1-1 System (HMC 9-1-1) is seeking an entry-level radio technician. Stating salary is \$41,600-49,920 based on experience, with exceptional benefits, and solid growth potential. A passion for radio is the number one priority for the position. A sincere interest in radio and a basic understanding of electronics/radio is required. An amateur radio or other FCC license, associate's degree, vocational school, and/or related technical experience is desired, but not mandatory. For a job description contact Ernie Blair (WA4BPS), HMC 9-1-1 CEO and Wireless Infrastructure Director, at eblair (at) madco911 (dot) com.

Program and Program	oject Managers		
Madison Co Emergency Coordinator	Tim Holland KK5H		
Field Day Chairperson	Leigh Bartlow WD4CPF		
Public Information Officer	0pen		
K4BFT Club Station Trustee	Laura Morgan K4CNY		
Picnic/Food Coordinator	Garland & Tabatha Sharp		
Training/Education Coordinator	John Morgan N4CNY		
VOX Publisher	Mark Brown N4BCD		
Program Coordinators	See any club officer for programideas.		
Webmaster	Steve Molo KI4KWR		
Repeater Program Announcer	Kelley Johns W4VPZ		

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Important Exam Info (updated June 2024)

The Huntsville testing sessions are conducted the first Saturday of the month unless that weekend contains a holiday. If it does, the second Saturday will be the test date. Please check the HARC.NET website or www.cavec.us to confirm. The testing location is at The Madison County Fire Training Academy Building, 300 Shields Rd, Huntsville, AL 35811. Email: vec@cavec.us

The exam sessions start at 9:00 AM. Please plan to arrive between 8:30 and 9:00 AM.

Exam information and registration can be found at https://hamstudy.org/sessions/wa2zou/all

What you need to bring to the exam session:

One legal photo ID (identification)

- a. State Driver's License
- b. Government issued Passport
- c. Military or Law Enforcement Officer Photo ID card
- d. Student School Photo ID card
- e. State Photo ID card

If no photo ID is available, two forms of identification:

- a. Non-photo State ID card (some states still have them)
- b. Birth certificate (must have the appropriate seal)
- c. Social security card
- d. Employer's wage statement or Minor's work permit
- e. School ID card
- f. School or Public Library card
- g. Utility bill, bank statement or other business correspondence that specifically names the person; or a postmarked envelope addressed to the person at his or her current mailing address as it appears on the Form 605.

Students/minors without a photo ID need to bring only one of the above items if a legal guardian presents their photo ID; otherwise two non-photo IDs are required

Any current CSCEs that have not yet shown up in the FCC database:

Exam fee, CASH ONLY, exact amount (if possible): \$5
Exam fee waivers available for students, minors, Active U.S. Military and First Responders

A FCC Registration Number (FRN): Hamstudy will step you through this when you register for one of our exam sessions

https://www.fcc.gov/wireless/support/knowledge-base/universal-licensing-system-uls-resources/getting-fcc-registration

Calculators: Non-programmable calculators are allowed. Programmable calculators are NOT ALLOWED unless their memories can be cleared or reset at the exam session site by the testing crew prior to the start of the exam. The decision as to whether a calculator will be allowed to be used rests with the Session Manager and that decision is final. Cell phone/tablet Calculator Apps will not be used.

Notice: The FCC charges a \$35 fee for new applications, renewals and vanity call sign requests as of April 19th 2022. The fees should be paid directly to the FCC within ten days of your application being submitted by the CAVEC. Failure to do so will result in your application being dismissed. CAVEC will have to resubmit your application License. Upgrade applications are not charged the \$35 processing fee by the FCC.

Online Exams are also available and are conducted by the Marshall Spaceflight Center Amateur Radio Club VE team , look for their schedule at https://hamstudy.org/sessions/nn4sa/all or email nn4sa@arrl.net to schedule an exam.

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