



January  
2023

# HPARC NEWSLETTER

High Point  
Amateur Radio  
Club



W4UA

## Happy New Year!!!

By: Peter Kapetanakis, KN4OCX

The December HPARC meeting/Christmas party was held on Saturday, December 3, 2022. A good time was had by all who were able to attend. It was good to see each of you.

Our annual election for board members and as indicated by the slate presented in recent months, the 2022 board members will each continue their service in their current role for the 2023 calendar year. The board members are as follows:

**President:**

David Macchiarolo, AJ4TF

**Vice President:**

Terence Crandall, N4TLC

**Secretary:**

Keith Thomas, KA4JAH

**Treasurer:**

Peter Kapetanakis, KN4OCX

Our club meeting place for 2023 has been secured by our President, David Macchiarolo, AJ4TF. As usual, our club meetings will be held the first Monday of each month. The meeting will begin at 6:30pm, but members may gather prior to that to share a meal. Meetings will be held in the party room at Mario's Pizza on N. Main Street, and when available, will also be held via Zoom. Our next meeting will be January 2, 2023. We hope to see you there.

The board would also like to thank all that served on the various committees this past year. The board will be looking for volunteers to serve on committees in 2023. We ask that you please consider volunteering. Please any of the board members know if you are interested.

### HPARC Meeting

January 2, 2023

6:30 p.m.

### Mario's Pizza

2645 N. Main St.  
High Point, NC 27265

& Zoom

## Dues & By-Laws Reminder

By: Peter Kapetanakis, KN4OCX

As we are entering the beginning of a new year, this is a good time to remind members of club dues, when and how to pay, and the by-laws revolving around club dues.

Annual dues for HPARC membership are as follows:

Individual Membership: \$24 per year

Associate Membership: \$12 per year

Family Membership (spousal Hams): \$36 per year

Please note: Associate membership is for not licensed radio operators and do not have voting privileges. Furthermore, the Associate and family memberships may include those who

are under the age of 16.

Membership dues may be paid by check, cash, or by electronic Zelle payment. Payments by check or cash may be made in person at a club meeting, or mailed directly to the Treasurer at:

HPARC, 3424 Mill Run Ln, Pfafftown, NC 27040.

Zelle payments may be made through the Zelle app on any smartphone by sending the payment to [Treasurer@w4ua.org](mailto:Treasurer@w4ua.org).

Each month (usually somewhere around the middle of the month) I will send an email reminder to those individuals whose membership is

coming due. If you are unsure when your membership is due, please contact me at [Treasurer@w4ua.org](mailto:Treasurer@w4ua.org). Note, that per the HPARC by-laws, any member whose dues become 90 days late shall have their membership terminated. So please be sure to stay current.

If you are not a current member and would like to join the High Point Amateur Radio Club, please complete a membership application. The application can be found on the club website at [W4UA.org](http://W4UA.org) or by clicking here [W4UA application.pdf](#).

# Ham Radio Classes

By: Peter Kapetanakis, KN4OCX

The Tri-County ARC, High Point ARC, and GARA (Greensboro Amateur Radio Association) have formed a partnership to provide online (Zoom) classes for those seeking to acquire their Technician Class operator's license, or to upgrade to a General Class license.

Each course is comprised of 4 class sessions. Each class session is held via Zoom on Wednesday evenings from 6:30 – 9:30pm ET.

The Technician & General classes are held in alternating months. The next course is the Technician Course scheduled to begin January 4<sup>th</sup>. Please note, that the courses are meant to prepare you for the FCC license exam, but do not include the license exam itself.

Pre-registration is required for each course. Please contact Richard Weinbaum, KK4RR at 336-687-8001 or [KK4RR@mac.com](mailto:KK4RR@mac.com) to register.

The starting dates for each course in 2023 are as follows:

**Technician Course:**

January 4, March 1, May 3, July 12  
September 6

**General Course:**

February 1, April 5, June 7, August 9,  
October 4

## Rep. Lesko Introduces Bill to Replace Symbol Rate Limit with Bandwidth Limit

Source: ARRL Letter December 22, 2022

Congresswoman Debbie Lesko (AZ-08) introduced a bill in the U.S. House of Representatives (H.R. 9664) on December 21, 2022, to require that the Federal Communications Commission (FCC) replace the current HF digital symbol rate limit with a 2.8 kHz bandwidth limit.

After being petitioned by ARRL The National Association for Amateur Radio® in 2013 (RM-11708) for the same relief, in 2016 the Commission issued a Notice of Proposed Rulemaking (WT Docket No. 16-239) in which it agreed that the HF symbol rate limit was outmoded, served no purpose, and hampered experimentation. But the Commission questioned whether any bandwidth limit was needed in its place. Most amateurs, including the ARRL, objected to there being no signal bandwidth limit in the crowded HF bands given the possibility that unreasonably wide bandwidth digital protocols could be developed, and since 2016 there has been no further FCC action.

In conjunction with introducing the legislation, Congresswoman Lesko stated that "With advances in our modern technology, increased amounts of data can be put on the spectrum, so there is less of a need for a regulatory limit on symbol rates. I am pleased to introduce this important piece of legislation to update the FCC's rules to support the critical role amateur radio operators play and better reflect the capabilities of our modern radio technology."

ARRL President Rick Roderick, K5UR, hailed introduction of the bill. Roderick stated that "the FCC's delay in removing this outdated restriction has been incomprehensible, given that the biggest effect of the delay is to require totally inefficient spectrum use on the already-crowded amateur HF bands. I hope that the Commission will act to remove this harmful limitation without waiting for the bill to be passed."

ARRL Legislative Committee Chairman John Robert Stratton, N5AUS, added that "the symbol rate limit hampers experimentation and development of more efficient HF data

protocols by U.S. amateurs. For all practical purposes the field has been ceded to amateurs outside the U.S., where there is no comparable limit. Removing the restriction not only will allow U.S. amateurs to use the most efficient data protocol suitable for their purpose, but it also will promote and incentivize U.S. amateurs to experiment with and develop even more efficient protocols."

ARRL is the National Association for Amateur Radio®. Founded in 1914 as The American Radio Relay League, ARRL is a noncommercial organization of radio amateurs. ARRL numbers within its ranks the vast majority of active radio amateurs (or "hams") in the U.S., and has a proud history of achievement as the standard-bearer in promoting and protecting amateur radio. For more information about ARRL and amateur radio, visit <http://www.arrl.org/give>.

A copy of this press release is available from ARRL:

[www.arrl.org/news/rep-lesko-introduces-bill-to-replace-symbol-rate-limit-with-bandwidth-limit](http://www.arrl.org/news/rep-lesko-introduces-bill-to-replace-symbol-rate-limit-with-bandwidth-limit)

# NASA "Decodes" Secret Messages Onboard the Orion Spacecraft

Source: ARRL Letter: December 22, 2022

NASA has a long history of hiding secret messages in its spacecraft and that tradition continued with the launch of the Orion crew capsule in November on top of the Artemis I rocket.

Five hidden messages were placed in the Orion capsule ranging from Morse Code to musical notes.

On the right side of the capsule below a window and next to the pilot's seat were the letters "C, B, A, G, F" - five musical notes for the first words in Frank Sinatra's song, "Fly Me to the Moon."

A Morse code symbol for "Charlie" commemorates the life of former Orion Deputy Program Manager Charlie Lundquist, who died in 2020. Photo courtesy of NASA.

In the middle of the capsule, above



A Morse code symbol for "Charlie" commemorates the life of former Orion Deputy Program Manager Charlie Lundquist, who died in 2020. Photo courtesy of NASA.

the cockpit control console, was a Morse Code message that spelled out the name "Charlie" in remembrance of former Orion Deputy Program Manager Charlie Lundquist, who died in 2020.

Other messages included a picture image of a cardinal to the right of the pilot seat as a tribute to former Orion Program manager, Johnson Space Center director, and St. Louis Cardinals fan Mark Geyer, who died in 2021.

The other two messages were on top of the pilot's seat including Binary code representing 18. This is in honor of NASA's history of travel to the moon with the Apollo Program and to celebrate a spacecraft's return to the Moon after Apollo 17 for the Artemis Generation. The final message was in front of the pilot's seat, the country codes of each country with the European Space Agency (ESA) that participated in developing and building the spacecraft's European Service Module.

## HPARC JANUARY CALENDAR

- 1 — New Year's Day
- 2 — **HPARC Meeting**
- 14 — W4VEC Greensboro VE Session  
(Hinshaw United Methodist Church)
- 16 — Martin Luther King, Jr. Birthday (Observed)
- 21 — HPARC Newsletter Deadline
- 28 — W4VEC High Point VE session  
(Hickory Chapel Wesleyan Church, Fellowship Bldg)

## JANUARY BIRTHDAYS

Larry Frye - 15  
Robert Erdin - 16

For W4VEC Test information, call or email David Macchiarolo, AJ4TF, (336) 420-9424, aj4tf@arrl.net

### 2022 HPARC OFFICERS

David Macchiarolo, AJ4TF — President — 336-869-2894 — President@W4UA.org  
Terence Crandall, N4TLC — Vice-President — 336-413-9589 — Vicepresident@W4UA.org  
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HPARC - www.w4ua.org - w4ua@arrl.net - 147.165 (67 Hz Tone) - 443.900

Breakfast every  
Saturday

—  
8:00 a.m.

—  
Biscuitville,  
2709 S. Main St.

The HPARC Newsletter is published monthly by the High Point Amateur Radio Club (HPARC) for its members. The HPARC Newsletter serves as a source of information about Club activities, and general news items of interest to Amateur Radio. Material in this Newsletter be reproduced provided the HPARC is properly credited. Complimentary issues of the HPARC Newsletter are available by writing to the HPARC Newsletter at PO Box 4941, High Point, NC 27263 or emailing your request to w4ua@arrl.net. Membership in the HPARC is open to all licensed Amateur Radio operators. Membership is \$24.00 a year. Associate membership is also available to those who are interested in Amateur Radio but who do not currently hold a license. Associate membership is \$12.00 a year.

The High Point Amateur Radio Club meets the first Monday of each month (except for holidays) at a local restaurant announced in the newsletter. Come early to enjoy dinner. The business meeting starts at 6:30 p.m. followed by a short program of interest. Family and visitors are welcome to attend. For more information, please call or email one of the HPARC officers listed in this newsletter. Contributions and letters/emails to the editor are welcome.