



SOUTHWEST OHIO ROCKETRY ASSOCIATION (SORA)

LAUNCH REPORT MARCH 22, 2026

1:00PM TO 4:30PM NAR SECTION #624

Launch Conditions: clear skies, temps in mid 70s-80s, wind 1-15mph

Total Number of Launches: 21 **Rockets Recovered:** 21 **Lost:** 0 **Found Rocket (not launched):** 0

Total Number of 100% Fully Successful Flights: 13 **Success Rate:** 61.9%

Number of Individuals Who Launched Their Rockets: 3 **Number of Family/Friends/Observers:** 2

Number of First-Time flyers: 0

Teams and Competitions: 0 **NARTREK:** 5 **Scouts/Home School/4-H:** 0

Types and Number of Motors: 21 total

Micro	1/4A	1/2A	A	B	C	D	E	F	G
0	0	0	18	2	11	0	0	0	0

2-motor clustered rocket	0		Two-stage rocket	0
3-motor clustered rocket	0		Three-stage rocket	0
Other: 2 Multi-tubular complex rockets				

Total Impulse: 123.9 N-s for low/mid power 0 for high power at Cedarville

(Note: the average of each motor range is now used as the default rather than the highest value for a specific motor class)

Year To Date Total Impulse: 123.9 N-s (This was the first launch of the year due to weather)

Failures: 8 total: 1 CATO, 4 chute ejected but did not inflate, 1 chute stuck in tube, 1 tangle on body tube, 1 shock cord rip out from tube

Ground Fires: 0 **Damage to vehicles/facilities:** 0 **Medical Incidents:** 0

FINANCES:

ITEM	COST EACH	# PURCHASED	TOTAL INCOME
Straight out donations	NA	(\$0)	\$0
t-shirts	\$20	0	\$0
Polo shirts	\$30	0	\$0
Baseball Caps	\$14	0	\$0
Food and Drinks	\$1	3	\$3
Stickers	\$0.25	0	\$0
Mugs	\$10	0	\$0
New/Renew Memberships	\$5	1	\$5
TOTAL			\$8

Rocket Topics and Issues:

1. This was an off-scheduled launch due to several weeks of rain delays. The weather was WILD and we had to fly in-between gust of wind. But, that didn't stop our hardy band of rocketeers!
2. We welcomed a New Member: Ryen Jennings. This was her first time at launching and hope to see her at the next meeting at the library.
3. Parachutes were a major problem today even though the temperatures and humidity were fine. Lots of chutes did not inflate or got tangled even though they were baby powdered and packed properly. Hummm....
4. Rick went out of his way to get his NARTREK (Nat. Assoc. of Rocketry Training Rocketeers for Experience and Knowledge) SENIOR BRONZE certification flights completed. Starting with a CATO (Catastrophe On Take Off), he almost ran out of motors before finally getting the required two fully successful flights completed. His Estes Fletcher used A10-3T motors which are recommended by the manufacturer but were less than optimal for parachute ejection with such a tall rocket. Lots of learnings. He has submitted his paperwork electronically to NAR. Well done!
5. Harold launched several unique rocket designs with multiple attached airframes that deployed at apogee. He additionally launched several rockets with advanced nylon parachutes designs that continued the educational process from the last meeting.
6. Thanks to Rick for running Launch Control and Range Safety.

NOTE!!!!!! We are back at the newly remodeled Lebanon Library

Next meeting: Tuesday April 7th at 6:00PM. Lebanon Library lower level meeting room.

Note the earlier start time! This gives us more time to build rockets!

Next Launch: Sunday, April 12th, 2026. Meet at Hisey Park. Setup 11:00, launch 1:00PM



Compensating for the gusty wind!



Rick's NARTREK Bronze Cert Rocket



Harold demonstrating parachute design



Rainbow rocket



Brian's V2 flew GREAT!



Harold prepping one of ten rockets he launched!



Tri-tube rocket



Bertha taking to the skies

The Club's Motto.....“Sapientia ducet ad astra” – “Wisdom leads to the stars!”

FUN FACT:

With the Artemis mission about to launch astronauts to the moon, you may be curious to know who “Artemis” was.

Artemis and Apollo were the twin children of Zeus and Leto. Zeus was actually married to Hera (very jealous) who wouldn't allow them to be born on Earth so Poseidon created a floating island (Delos) for her to give birth.

Artemis (goddess) was born first and actually helped in the birthing of Apollo. Kids grow up fast in Greek mythology! Artemis is associated with the night and moonlight, control of animals, hunting, and had a wild, untamed nature. She was associated with healing/curing disease, helping the lives of women, and also their sudden deaths. Ouch.

Apollo is known for the day/sunshine, prophecy, music, archery for sport (not hunting), civilization, and order. Curious that he is also known for healing/curing disease, and then plaques and death of men.

Between the two, they have life and death covered!

Why is the mission named Artemis? This mission will be the first to have a woman on a lunar orbital mission, and, Artemis, being the goddess of the moon, also helps!

Artemis I (launched Nov 2022) was the successful uncrewed flight test of the SLS and Orion spacecraft. Artemis II will use the same design but with astronauts. Currently scheduled for April 1 liftoff. They will actually travel further away from the Earth than any human being has ever done passing on the dark side of the moon at an altitude or between 4000 and 6000 miles. Apollo missions were within 70 miles of the moon. They will be validating life-support systems and testing deep space capabilities of the equipment. The mission will last 10 days doing a figure eight flight path around the earth and moon.

Artemis crew patch:



Please remember to renew your SORA membership for 2026. It's a great club!