

1st Annual FAR Mach Buster Invitational Competition

The Friends of Amateur Rocketry is hosting the 1st Annual Mach Buster Invitational Competition (FAR MBI) this year August 29-September 1, (Labor Day Weekend), at the world-famous FAR site.

- Registration opens April 6, and closes August 2, or when 200 participants are reached.
- Registration and FAR fees total \$100 per individual participant.
- Camping on site is included with the FAR fee.
- Cancellations will be fully refunded before August 2 and after August 9 a refund of \$50.

Event closed to nonparticipants...do not show up if not registered for the event.

Half of the registration fees go to competition prizes to be awarded as follows: 1st place 50%, second place 30% and 3rd place 20%. Awards are given to the highest speed reached with a safe recovery and return of the undamaged rocket due no later than 3 pm on September 1st. Winners need not to be present.

Launches will be between 8 am to 6 pm, beginning at 8 am Saturday and ending at 10 am Monday, Sept 1, 2025.

Competition requirements:

- The rocket diameter must be at least 54mm.
- You must have an approved flight computer that measures velocity, if you are unsure, contact us.
- Tracking frequencies for recovery will be approved before launch to avoid conflicts.
- Must reach a minimum altitude of 5,000' and not exceed 250,000' or up to 440,000', if you get your own approved FAA COA.
- The rocket motor and propellant can be commercial or experimental solid, hybrid, or liquid.
- The maximum specific impulse allowed is 200,000 lbf-sec or 889,000 Ns (T class motor).
- An Open Rocket or RockSim file must be sent by August 2, 2025.
- Must have a recovery system that results in a safe recovery and an undamaged rocket.
- Staged rockets must have safe and undamaged recovery of all stages.
- Rocket must be recovered during the competition (5 hours after the last launch).
- Rockets can use FAR launch rails and towers, or private pads brought by the competitor.
- Rockets can be built with composite, metal, and/or printed components.
- Shreds or ballistic recoveries are disqualified for prize awards, rockets must be returned undamaged.
- All rockets must include simmed ballistic flight return time estimates before launch.
- Rockets must pass a safety check before being allowed to launch, the last check day will be Sunday, Aug 31.
- Each competitor must file a FAR Launch Request.

If interested and for more information contact office@friendsofamateurocketry.org Re: Mach Buster