

Syracuse Rocket Club

September 16, 2017

A-Impulse Glider Duration Contest

1. The contestant whose glider achieves the longest duration for a single flight is the winner. Duration is timed from the time of rocket liftoff to the time that the glider touches the ground or goes out of sight of the timers.
2. Contestants may fly Boost Gliders (gliders that separate from the booster rocket) or rocket gliders (rockets that remain in one piece, but convert from boost mode to glide mode during the flight). Boost Gliders must recover the rocket motor as a part of the booster with a recovery device. Models designed to eject the rocket motor are not allowed.
3. Up to two official flights may be flown by each contestant.
4. The glider portion of the model must be returned to the judges for the flight to qualify.
5. Motor impulse may not exceed a single A (2.5 Newton-seconds).

Target Duration Contest

1. The target duration is 30 seconds. The contestant whose score is closest to the target of 30 seconds will be the winner. Scores will be recorded to the nearest 0.1 seconds.
2. Only one official flight may be flown by each contestant.
3. The model must return as one unit and may not separate into multiple pieces for recovery. Separation including loss of a fin or other major component will result in disqualification.
4. Any recovery method allowable under the NAR safety code and these contest rules is acceptable.
5. Any motor approved for NAR launches that will not cause the rocket to exceed 3200' AGL is acceptable.