

# Syracuse Rocket Club

August 18, 2018

## C-Impulse Egg Loft Parachute Duration

1. The contestant whose model achieves the longest duration for a single flight is the winner.
2. Up to two official flights may be flown by each contestant.
3. The model must return as one unit and may not separate into multiple pieces for recovery. Separation will result in disqualification.
4. No material may be affixed to the egg (e.g., glue or tape).
5. The Safety Check Officer or other official will provide the egg to each contestant presenting his/her entry for pre-launch safety check. The egg shall be numbered, and the egg number shall be recorded on the contestant's flight card.
6. Following the flight, the contestant shall present his/her entry as recovered and, in the presence of an official, shall remove the egg. The official shall determine the extent of damage to the egg. If the official cannot examine the egg, the entry will be disqualified. If the contestant removes the egg in the absence of officials, or breaks the egg in the process of removing it from the model, the entry shall be disqualified. If the shell of the egg is broken or cracked, the entry shall be disqualified. Any model that cannot be returned to the officials shall be disqualified. No catching of model is allowed for official flights.
7. Motor impulse may not exceed a single C (10 Newton-seconds).

## A-Impulse Parachute Spot Landing

1. The winner will be the contestant whose rocket lands closest to a target point on the ground set by the contest officials. This will be measured as the distance between the tip of the nose cone (or motor nozzle if the model has no nose cone) and the target point.
2. The entire rocket must return to the ground safely with all parts connected together using a parachute as its sole recovery system. The parachute does not need to fully inflate in order for a flight to be qualified, but it must come out of the rocket body and cannot be deliberately packed in such a way that it cannot inflate.
3. Up to two official flights may be flown by each contestant. The contestant's score will be the best single score from one of the two flights.
4. Different model rockets may be used for each qualification flight.

5. A flight must be declared as a contest flight before the flight begins by so indicating on the flight card.
6. The motor used must be an A or higher impulse motor.