EVENT 4: EGG THROW
(Dated 11/21/2016)

OBJECTIVE: To surround an egg with a device that will allow the egg to be thrown towards a wall, without breaking, and resulting in the greatest bounce distance.

RULES:

    a.   The team will design, construct and bring to the event a device that will protect a large size chicken egg.

    b.   The device must be constructed so that the egg can be placed inside of it at the time of the event, and opened to examine the egg after the throw.

    c.   The device must be constructed entirely by the entrants from household materials or materials available from hardware stores or from art/hobby supply stores.

    d.   The mass of the device may not exceed one kilogram, not counting the egg.

    e.   No dimensions of the device may exceed 20.00 centimeters.

    f.   The device will be thrown towards a wall 2.44 meters (8 feet) away. The wall will be covered with ½-inch pieces of plywood or particleboard.

    g.   The device must bounce off the wall a minimal of 60.96 cm (two feet).

COMPETITION AND SCORING:

    h.   The judge(s) will record the mass of the device without the egg.

    i.   The team will supply their own standard any size chicken eggs.

    j.   The team members will place the egg inside their device

    k.   One team member will throw the device from behind a 2.44 meters (8 feet) marker.

    l.   The device must be thrown from a standing position (no running throws).

    m.   The thrower's hand may not pass the marker.

    n.   The team member throwing the device may move out of the way as it bounces off the wall.

    o.   The thrower may not intentionally hit the device.

    p.   As long as the device hits the wall the throw may not be repeated if the device is miss thrown or if the device hits the thrower's body. If the device is miss thrown and does not bounce off the wall, the team will be given another chance. If this happens the team will be given 10 minutes to check their egg and replace if needed. If after the second throw the device fails to bounce off the wall, no points will be awarded.

    q.   The judge(s) will measure the straight-lined distance from the first landing spot of the device to the wall; this is the device's greatest bounce distance.

    r.   No points will be awarded if the bounce distance is less than 60.96cm (two feet). After the distance is measured, the team members will open their device and allow the judge(s) to inspect the egg. The judge(s) will record the condition of the egg and the score will be calculated as described below.

    s.   The device with the smallest mass and greatest bounce distance wins.

SCORING FORMULA: If the egg does not break during the throw or during the inspection process and the minimum bounce distance is meet, the score will be calculated as described below:

$X = $ (Greatest bounce distance in cm – mass in grams)

Score = [Your X Value/ Maximum X Value] x 100

Disqualifying score: If the device meets the design specifications and the minimum bounce distance, 30 points less than the lowest score will be award if the egg breaks and 20 points less than the lowest score will be award if the egg does not break. No score less that zero will be recorded.

Updates to the rules and frequently asked questions with answer are available by e-mailing the event organizers at jvalente@ctemc.org. It is the team's responsibility to periodically inquire about changes and clarifications to the rules.