

# 5<sup>th</sup> Annual Pumpkin Launch

## October 30, 2009

Get your team ready to launch pumpkins! There is no limit to the number of students on a team. However, all members must be registered by the day of the launch or your team may be subject to disqualification.

### Step 1: Name Your Team

Team Name: \_\_\_\_\_

Team Contact Person: \_\_\_\_\_

Contact Phone & Email: \_\_\_\_\_

Faculty Advisor: \_\_\_\_\_

Advisor Phone & Email: \_\_\_\_\_

Faculty Advisor Signature: \_\_\_\_\_

### Step 2: Complete Team Roster

	Team Member Name	E-mail	CWID/Banner #
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### Step 3: Guidelines & Timeline

Please be sure to read and understand all guidelines and deadlines prior to submitting your registration form. Non-compliance with the following regulations could result in disqualification from the launch.

#### Guidelines:

All launch apparatus must meet the following guidelines. Guidelines are subject to change by the Pumpkin Launch Committee.

1. The device must be solely built by current registered IIT, VanderCook, and/or Shimer students and faculty advisors, with the exception of potential all-alumni teams. Help from other faculty, staff, and people outside of IIT must be limited to advice.
2. All teams must find and designate a faculty advisor.
3. No chemical propulsion is allowed.
4. Launcher construction may take place in an assigned section of the Life Sciences Bay.
5. Any *moving* parts of the apparatus must be able to be safely protected by a 2.4m x 2.4m safety barrier. It will have a clear acrylic window in the middle, so that the operator can see the device prior to launching. The safety shield will have a cutout that can be used to run an item connecting the user to a trigger. The barrier will be provided by the Pumpkin Launch Committee.
6. Any weight bearing pivot must be no more than 2.5 meters up from the ground. The entire structure may extend up to 7.5 meters up from the ground (this does not include any slings).
7. The device must be triggered from *beside* the safety barrier.
8. Only two people from the team are allowed to operate the device from beside the safety barrier.
9. The operators of the apparatus must wear (student supplied) safety glasses during the launch.
10. The pumpkins will be provided during testing and on launch day and will weigh between 4 and 6 kg. Only provided pumpkins may be used for launches.
11. We realize that in previous years some innovative pumpkin launchers would not be able to meet these rules. Exceptions can be made, but must be approved by the Pumpkin Launch Committee *before* launch day.
12. Each team will be reimbursed \$100. Teams may spend more than the allotted amount if they choose. IIT will not reimburse students for any expenses above \$100. Original receipts must be submitted for reimbursement.
13. Each launcher may be required to test fire during any official inspection.
14. Set up for launchers starts at 9 am at the baseball field. All launchers must be set up by 11 am. Failure to meet *any* of these deadlines will result in disqualification.
15. Each team will have a 5 minute set up time prior to each launch.

16. There will be two contests, one for distance and one for accuracy. The longest launch will win the distance contest. For the accuracy contest, teams will calculate a predicted distance for their launch. The accuracy score of a launch will be the absolute value of the predicted distance minus the actual distance. The lowest accuracy score wins the accuracy contest. The pumpkin must travel at least 10 meters in order to be eligible for the accuracy contest.
17. Each team will perform 2 launches. Distance and accuracy will be measured for each launch. The best score for each contest will be applied. The best distance and accuracy score can come from different launches.
18. Any machines deemed unsafe will be disqualified. The decision of the inspectors is final.

## **Timeline:**

1. The registration deadline is **5 pm on Monday, October 5, 2009**.
2. Teams must submit a preliminary schematic design to [lchung3@iit.edu](mailto:lchung3@iit.edu) by **10 am on Tuesday, October 13, 2009**.
3. There will be 2 inspection periods for all machines of registered teams. The first inspection will take place at **5 pm on Friday, October 23, 2009** at the Life Sciences Bay.
4. The final inspection will take place at **5 pm on Thursday, October 29, 2009** at the Life Sciences Bay. Launcher construction must not occur after this inspection. All machines must pass both inspections or be disqualified.
5. Set up for the launch will start at **9 am on Friday, October 30, 2009**. Set up will end at **11 am**.
6. Launching will start at **1 pm on Friday, October 30, 2009**.

We look forward to all our participants having a great time! For questions or concerns, e-mail [lchung3@iit.edu](mailto:lchung3@iit.edu).