

Carleton University Students for the Exploration and Development of Space

www.engsoc.cuseds.org

What we are...

- Students for the Exploration and Development of Space (SEDS) is the world's largest student-run space organization and provides an opportunity for like-minded students to learn, advocate, network and build their careers.
- Do this through educational outreach, conferences, and involvement in projects.
- Club membership is free



Who we are...

- **President** – Lindsay Los, 3rd year Mechanical Engineering
- **VP Events** – Chris Polowick, 4th year Aero A, currently on co-op
- **VP Projects** – Curtis Parks, 4th year Mech, currently on co-op
- **VP Publicity** – Raakesh Bharathi, 2nd year Aero
- **VP Finance** – Ayrion Catteau, 3rd year Aero

Events this year

Upcoming Events

- Welcome Barbeque
- Observatory
Viewing
- Rocket Launch
weekends

Long-Term Events

- Pub Nights
- Movie Nights
- Conferences
- Guest Speakers
- Shuttle Launch

Upcoming Events

- These will require nice weather, so they start right away
- Welcome Barbeque
 - This Friday the 18th or Monday the 21st
 - Some food provided

Upcoming events cont'd...

- **Observatory Viewing**
 - Kessler Observatory at CU
 - Starting this late September/early October
 - Happens in the evenings when the sky is clear!
- **Rocket Launch Weekends**
 - If you have your own rockets, bring them!
 - We will provide a catalogue, and pick up the rockets and equipment



Long term events

- **Canadian Space Summit**

- Canadian Space Society
- Friday November 20, 2009 Kingston, ON
- *Multi-Use Missions: Opportunities for Collaboration on Space Technologies*
- www.css.ca

- Pub Nights
- Movies From Space
- Shuttle Launch



CuSEDS Projects:

- Moonbuggy: MB04



- CANSAT



- Hybrid Rocket Engine

Lunar Rover Project

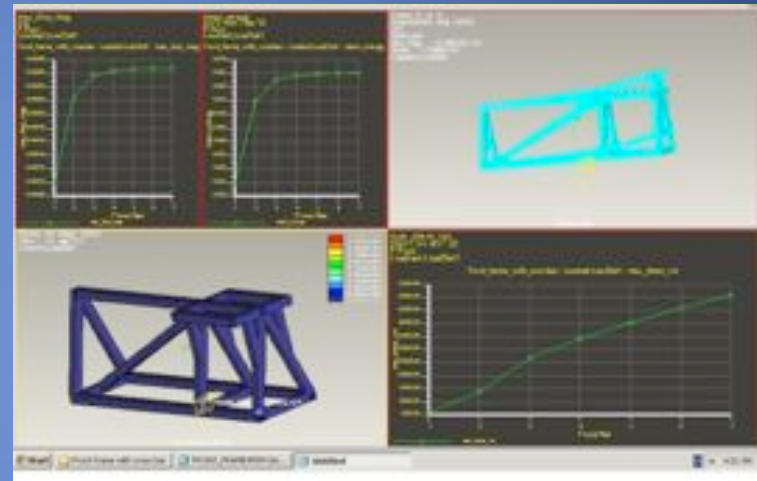
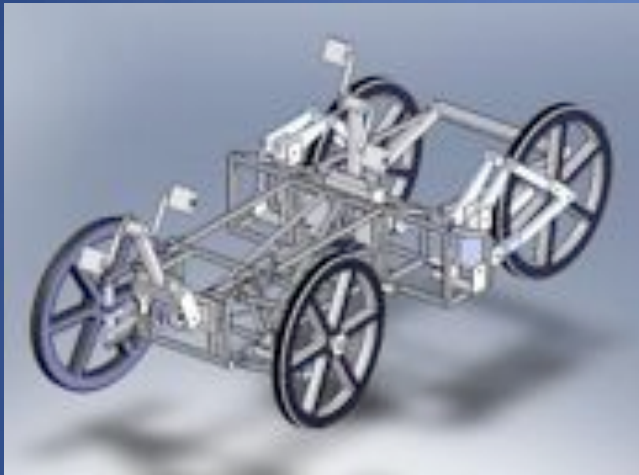


Project Outline

- To design and build a human powered device to overcome a half mile simulated lunar terrain.



Project Objectives



- Give students the hands-on experience to develop the skills for design and manufacturing by applying what they have learned in class.

DESIGN

BUILD

RACE

Cansat Competition

Carleton's Past Experience:

- Last years mission was to obtain ground temperature.
- Carleton's First year
- Did not make it to competition
- Prototype structure was built
- Launch was about to happen, but didn't
- Wind tunnel tests
- Transceiver operates

Cansat Competition

Overview

- Held in Texas
- Team of 10 undergrad students
- Designing a probe the size of a can.
- The probe is launched in a rocket to an altitude of 2000 ft.
- The probe must transmit data and perform a task upon landing.
- Complete various deliverables

Cansat Competition

Carleton's Future

- This years competition is to place an egg inside the capsule (cansat) and land it without a parachute(or similar device).
- Develop flexible unit for various missions or firm unit, maybe they are the same...
- 10 people only.
- Construction and testing happening sooner.

**Comments, questions or ideas for
future projects, events or anything
you'd like to see happen with
CuSEDS?**

PIZZA TIME!!

Thanks for coming, we hope to see
you out at our upcoming events!

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