




North Dakota High Altitude Balloon Student Payload Competition

Coordinator – Katrina Jackson, Space Studies Graduate Student



Competition



- Student groups grades 6-Undergraduate asked to submit proposals for a high altitude balloon payload
 - Under 2 pounds, less than 12" on a side, no live animals, describe its objectives
 - Cash prizes for the science departments, grand prize trip to UND School of Aerospace Sciences
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Getting the Word Out

- Letters to ND schools
- NDSGC website
- YouTube videos
- WDAZ and WDAY news

More about the competition

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High Altitude Balloon Student Payload Competition

Student Payload Competition

You can participate! We are looking for groups of students all across North Dakota in middle school, high school and college to submit proposals for a custom-built payload.

Groups may contain three to twenty students, and must have a faculty mentor. Students should submit their proposal by March 1st, 2012. They will be notified of their proposal status by March 15th.

Payloads must be less than two pounds. It is recommended that they be no larger than a foot (twelve inches) on a side. No live animals may be used.

The selected payloads will be launched near Bismarck during the last weekend of April, 2012.

[more about the competition...](#)

What are High Altitude Balloons?

High altitude balloons are a relatively easy way to get experiments off the ground and into our upper atmosphere.



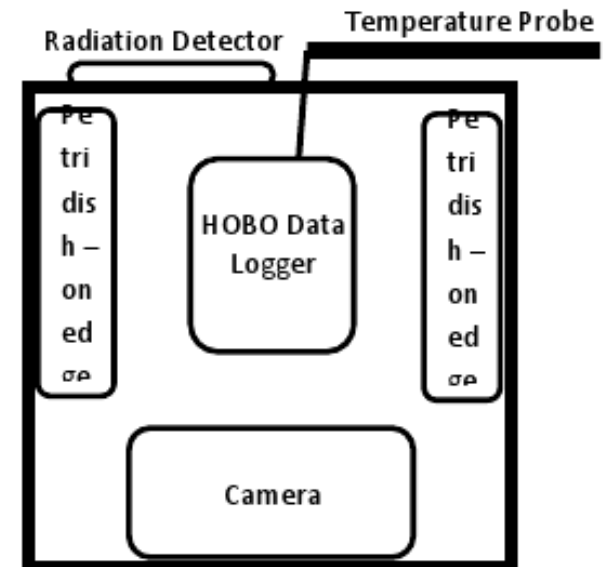
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Payloads
Prizes

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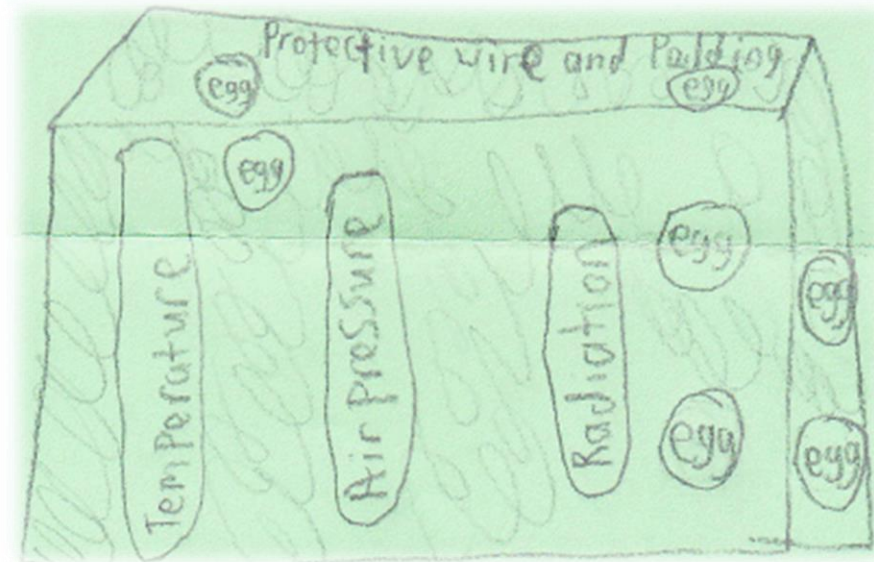
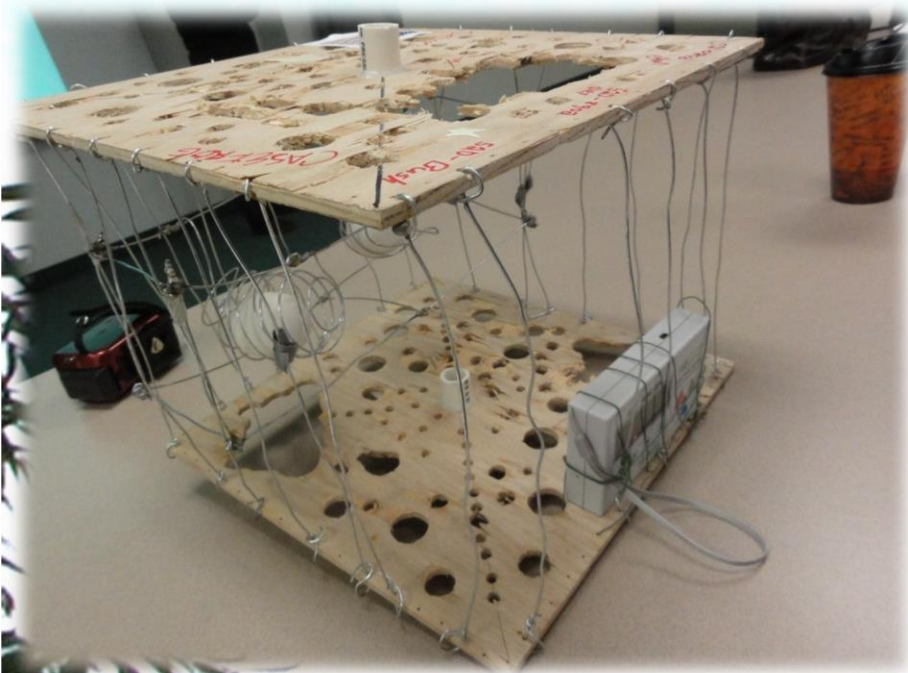
The Groups - Dickinson

- Testing the viability of two strands of bacteria
- Not able to come to the postponed launch weekend



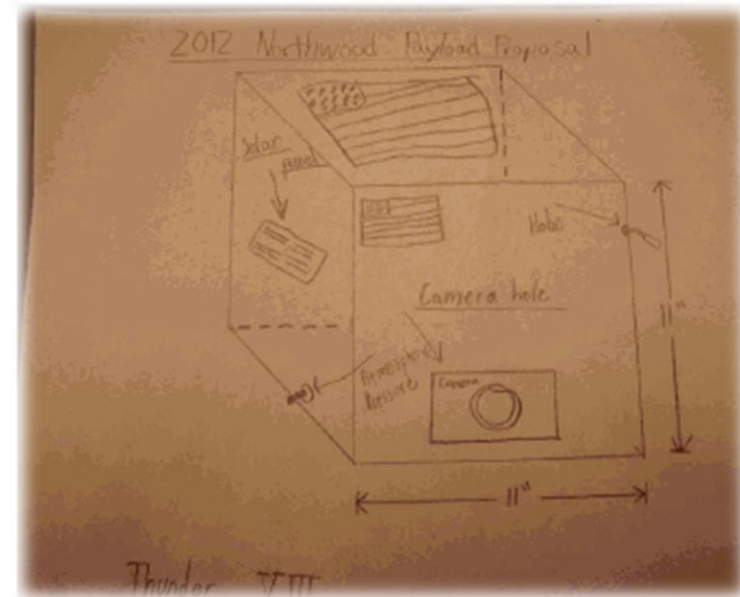
The Groups - Cavalier

- Testing the effects of the upper atmosphere on eggs



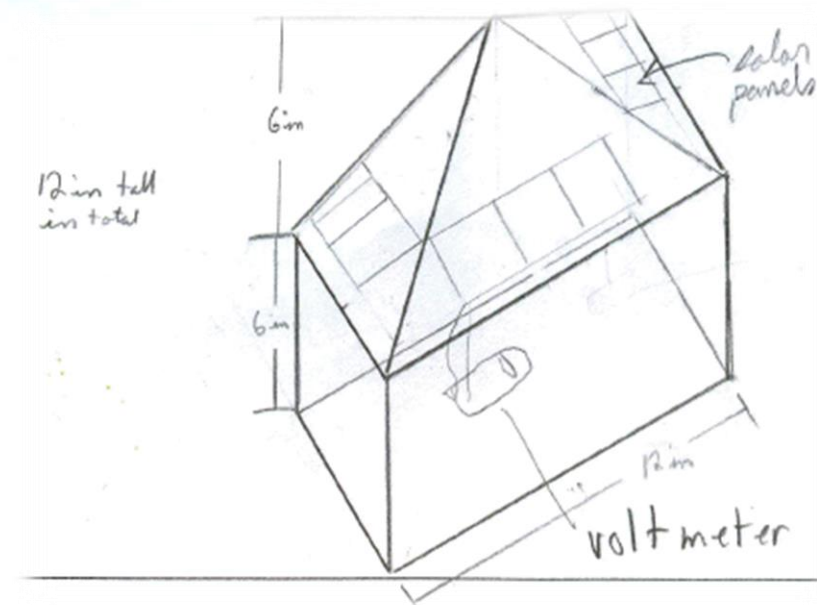
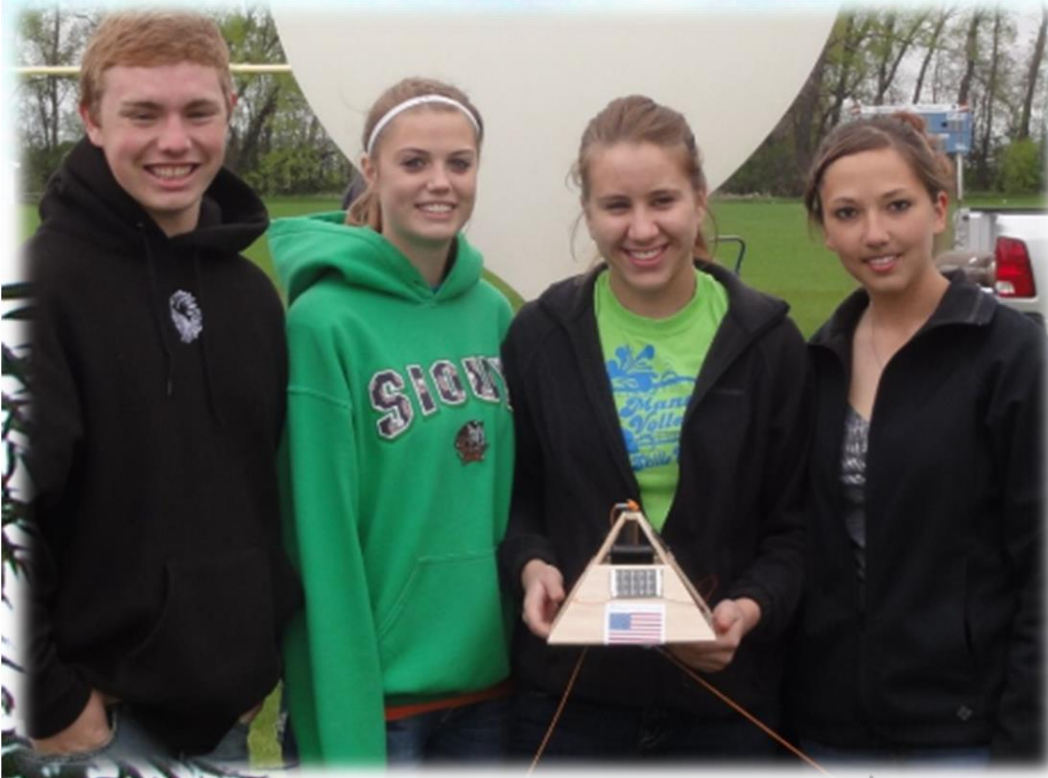
The Groups - Northwood

- Measuring the temperature at different altitudes and taking pictures



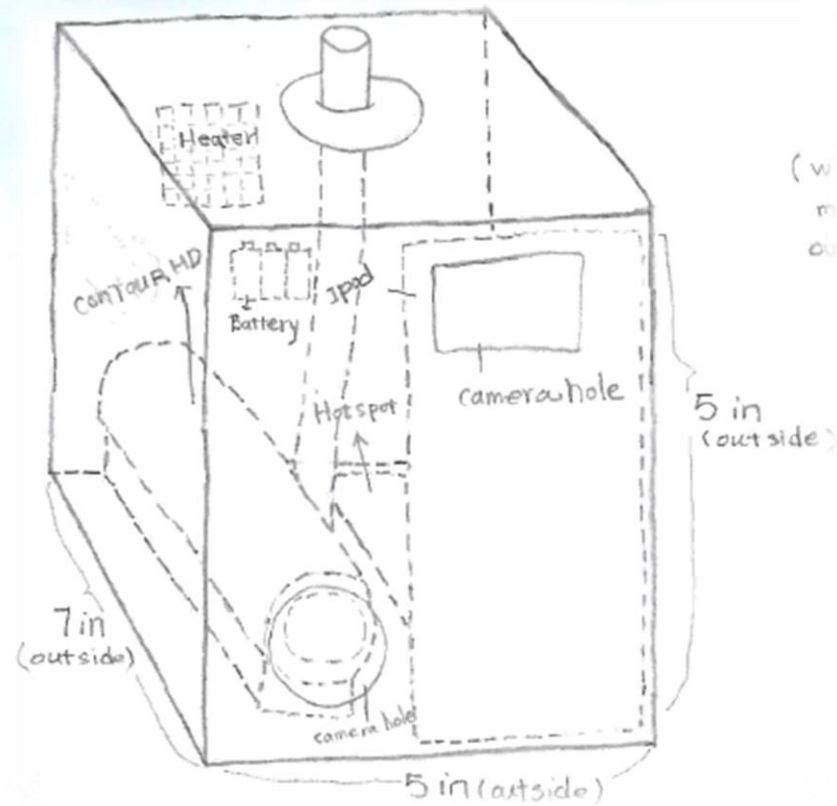
The Groups - Mandan

- Comparing the effectiveness of solar panels in the upper atmosphere and on the Earth



The Groups - Bismarck

- Obtaining live video footage from the air



The Launch

- Originally scheduled in Bismarck April 28th, backup 29th
- Bad weather that weekend, tried again in Grand Forks May 5th



Recovery and Judging



- Recovered only our tracking payload
- Hope someone will find the other payloads and return them
- Students will write up report, and judges will give scores to determine who gets the grand prize

