

September 27, 2013

To: Dr. T. Gregory Guzik - HASP Project Director
From: Seth Frick – Team Lead
RE: HASP Monthly Status Report

1. Activities

Began evaluation of payload damage and testing of hardware components.

Reestablished contact with Lockheed Martin to assist in repair or replacement of detector front board.

Began discussion of hardware changes/additions for next year's payload (including addition of second detector for coincidence triggering, switch to Raspberry Pi flight computer and Python-based flight software, new GPS receiver, etc).

Undergraduate team members applied for University-sponsored UROP (Undergraduate Research Opportunities Program—similar to REUs) funding for spring semester.

2. Issues Encountered

Payload was severely damaged during flight operations and no flight data was collected. All hardware was intact (though some was damaged). Not all hardware has been tested to confirm whether or not it is still operational.

3. Milestones Achieved

Payload returned from 2013 Flight Operations.

4. Current Student Team

Name	Gender	Ethnicity	Race	Student Status	Responsibilities
Seth Frick	M	Non-hispanic	Caucasian	Graduate 1 st year	Team lead
Andrew Mahon	M	Non-hispanic	Caucasian	Undergraduate Junior	GPS and IMU operation, structure hardware configuration and fabrication
Haley Rorvick	F	Non-hispanic	Caucasian	Undergraduate Junior	Structure design, hardware configuration, and fabrication
Josiah DeLange	M	Non-hispanic	Caucasian	Undergraduate Junior	Flight computer and power systems, flight software
Alec Forsman	M	Non-hispanic	Caucasian	Undergraduate Junior	Flight computer and power systems, flight software
Seth Merrifield	M	Non-hispanic	Caucasian	Undergraduate Junior	Thermal monitoring and protection.
John Jackson	M	Non-hispanic	Caucasian	Undergraduate Junior	Detector energy detection and testing