October 31, 2014

To: Dr. T. Gregory Guzik - HASP Project Director

From: Seth Frick – Team Lead HASP Monthly Status Report

1. Activities

Continued analyzing flight data from the GPS, IMU, and detector systems.

Prepared the camera experiment and GPS to be re-flown locally on a small sounding balloon. The camera experiment was not in the payload during the HASP flight as we encountered last minute hardware issues, and the GPS flew on the HASP flight, but did not perform well. The flight is scheduled for November 2.

Began developing a plan for the 2015 payload proposal, including experiment and design changes, a crossover with a group from the aerospace engineering Senior Design class, and collaboration with a small local company (Aster Labs) and the Johns Hopkins University Applied Physics Laboratory.

Began developing new team structure, recruitment methods, and internal development schedule to accommodate students who will be graduating in the middle of the 2015 project cycle.

2. Issues Encountered

None.

3. Milestones Achieved

None—flight data processing still in progress.

4. Current Student Team

Name	Gender	Ethnicity	Race	Student Status	Responsibilities
Seth Frick	M	Non-	Caucasian	Graduate	Team lead, detector
		hispanic		2 nd year	systems and photon
					energy measurement,
					GPS and IMU operation
Andrew	M	Non-	Caucasian	Undergraduate	Detector systems,
Mahon		hispanic		Senior	hardware configuration,
					and structure fabrication
Haley	F	Non-	Caucasian	Undergraduate	Structure design and
Rorvick		hispanic		Senior	fabrication, hardware
					configuration
Josiah	M	Non-	Caucasian	Undergraduate	Flight computer and
DeLange		hispanic		Senior	power systems, flight
					software
Alec	M	Non-	Caucasian	Undergraduate	Flight computer and
Forsman		hispanic		Senior	power systems, flight
					software
Seth	M	Non-	Caucasian	Undergraduate	Thermal monitoring and
Merrifield		hispanic		Senior	protection.
John Jackson	M	Non-	Caucasian	Undergraduate	Detector energy
		hispanic		Senior	measurement and testing
Guy	M	Non-	Caucasian	Graduate – 1st	New team member
Squillace		hispanic		year	