

July 26, 2013

**To:** Dr. T. Gregory Guzik - HASP Project Director  
**From:** Patrick Doyle – Current U of MN Team Lead  
Seth Frick – Team Lead Trainee  
**RE:** HASP Monthly Status Report

### **1. Activities**

Received manufactured interface and power board and integrated it with all flight hardware.

Finished testing amplitude detection circuitry and integrated it with the flight computer.

Completed manufacturing of external structure and all internal mounting hardware.

Completed lead shielding of detector.

Tested thermal control subsystem.

Mounted all components inside payload.

Finalized flight software, including integration of amplitude detection.

Made all travel arrangements and plans for HASP integration.

Completed Flight Operation Plan.

### **2. Issues Encountered**

A problem with the interface and power board was discovered very late in testing and integration which caused a failure of the IMU and damaged the flight computer. A new flight computer was procured and all systems were reverted to using last year's interface board.

### **3. Milestones Achieved**

All system testing complete.

Payload build complete.

Flight software complete.

#### 4. Current Student Team

Name	Gender	Ethnicity	Race	Student Status	Responsibilities
Patrick Doyle	M	Non-hispanic	Caucasian	Graduate 2 <sup>nd</sup> year	Current team lead, new member training
Seth Frick	M	Non-hispanic	Caucasian	Graduate 1 <sup>st</sup> year	Team lead in training, thermal monitoring
Curtis Albrecht	M	Non-hispanic	Caucasian	Graduate 2 <sup>nd</sup> Year (Graduated)	Flight computer and power systems advisor, new member training
Andrew Mahon	M	Non-hispanic	Caucasian	Undergraduate Sophomore	GPS and IMU operation, structure hardware configuration and fabrication
Haley Rorvick	F	Non-hispanic	Caucasian	Undergraduate Sophomore	Structure design, hardware configuration, and fabrication
Josiah DeLange	M	Non-hispanic	Caucasian	Undergraduate Sophomore	Flight computer and power systems, flight software
Alec Forsman	M	Non-hispanic	Caucasian	Undergraduate Sophomore	Flight computer and power systems, flight software
Seth Merrifield	M	Non-hispanic	Caucasian	Undergraduate Sophomore	Thermal monitoring and protection.
John Jackson	M	Non-hispanic	Native American	Undergraduate Sophomore	Detector energy detection and testing